D 12/15/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027521

APPLICANT DAN NICKELSON PHONE 867-5616

ADDRESS P.O. BOX 3631 LAKE CITY FL 32056

OWNER DAN NICKELSON PHONE 867-5616

ADDRESS 440 SW EMORYWOOD GLEN LAKE CITY FL 32024

CONTRACTOR DAN NICKELSON PHONE 867-5616

LOCATION OF PROPERTY 47S, TL LITTLE RD., TL EMORYWOOD, 4TH LOT ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 308800.00

HEATED FLOOR AREA 3600.00 TOTAL AREA 6176.00 HEIGHT STORIES 2

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 39

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

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

PARCEL ID 01-5S-16-03397-107 SUBDIVISION COVE AT ROSE CREEK

LOT 7 BLOCK PHASE UNIT TOTAL ACRES 5.01

000001695 | | | Applicant/Owner/Contractor

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

CULVERT | 08-0753 | BK | WR | Y

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

COMMENTS: ELEVATION CONFIRMATION LETTER REQUIRED AT SLAB,MFE AT 80.5'

NOC ON FILE

Check # or Cash 12386

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

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

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

Permanent power date/app. by | C.O. Finall date/app. by | Culvert date/app. by

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

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

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

BUILDING PERMIT FEE $ 1545.00 CERTIFICATION FEE $ 30.88 SURCHARGE FEE $ 30.88

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 1706.76

INSPECTORS OFFICE CLERKS OFFICE CA

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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

existing well- no well letter

Columbia County Building Permit Application

For Office Use Only Application # 08/2-09 Date Received 12-5-08 By CH Permit # 1695/27521

Zoning Official BLK Date 12-12-08 Flood Zone X per plat Land Use A-3 Zoning A-3

FEMA Map # N/A Elevation N/A MFE 80.5' per plat River N/A Plans Examiner WR Date 12/15/08

Comments Elevation Consirmation Letter required at slab

NOC EH Deed or PA Site Plan State Road Info Parent Parcel #

Dev Permit # In Floodway Letter of Auth. from Contractor F W Comp. letter

IMPACT FEES: EMS $29.88 Fire $78.63 Corr $409.16 Road/Code $1,046.00/210

School $1,500.00 = TOTAL $3,063.67

Septic Permit No. 08-0753 owner Fax

Name Authorized Person Signing Permit Dan Nickelson builder Phone 867-5616

Address P.O. Box 3631 Lake City FL 32056

Owners Name Dan & Gail Nickelson Phone 867-5616

911 Address 440 SW Emorywood Glen Lake City FL 32024

Contractors Name Owner Builder Dan Nickelson Phone 867-5616

Address P.O. Box 3631 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Daniel Shaheen / Nick Geisler

Mortgage Lenders Name & Address Columbia Bank

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

Property ID Number 04-5S-16-03397-107 Estimated Cost of Construction 350 K

Subdivision Name Cove at Rose Creek Lot 7 Block Unit Phase

Driving Directions State Road 47 S. L on Little Road, L on Emorywood Glen Lot on R 4th lot on Right

Number of Existing Dwellings on Property 0

Construction of single family dwelling Total Acreage 5.01 Lot Size 5.01

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 39'

Actual Distance of Structure from Property Lines - Front 120' Side 200' Side 289' Rear 220'

Number of Stories 2 Heated Floor Area 3600 Total Floor Area 6176 Roof Pitch 12-12

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.

(EH) Spoke to DAN 12/15/08

Columbia County Building Permit Application

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:
YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

X _____
Owners Signature

NOTARY PUBLIC-STATE OF FLORIDA
Linda R. Roder
Commission # DD755608
Expires: MAR. 24, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

X _____
Contractor's Signature (Permitee)

Contractor's License Number CBC1253434
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 4 **day of** Dec **20**08

Personally known ✓ **or Produced Identification** _____

_____
State of Florida Notary Signature (For the Contractor)

SEAL:

NOTARY PUBLIC-STATE OF FLORIDA
Linda R. Roder
Commission # DD755608
Expires: MAR. 24, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

Page 2 of 2 (Both Pages must be submitted together.)

Revised 11-30-07

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

NOTARIZED DISCLOSURE STATEMENT
FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved for yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that if I am not physically doing the work or physically supervising free labor from friends or relatives, that I must hire licensed contractors, i.e. electrician, plumber, mechanical (heating & air conditioning), etc. I further understand that the violation of not physically doing the work, and the use of unlicensed contractors at the construction site, will cause the project to be shut down by the inspection staff of the Columbia County Building Department. Additionally, state statutes allows for additional penalties. I also understand that if this violation does occur, that in order for the job to proceed, I will have a licensed contractor come in and obtain a new permit as taking the job over. I understand that if I hire subcontractors under a contract price, that they must be licensed to work in Columbia County, i.e. masonry, drywall, carpentry. Contractors licensed by the Columbia County Contractor Licensing Section or the State of Florida are required to have worker's compensation and liability coverage.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding
( ) Other_____ ( ) Addition, Alteration, Modification or other Improvement

I Daniel Nickelson, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number _____

Owner Builder Signature 12/4/08 Date

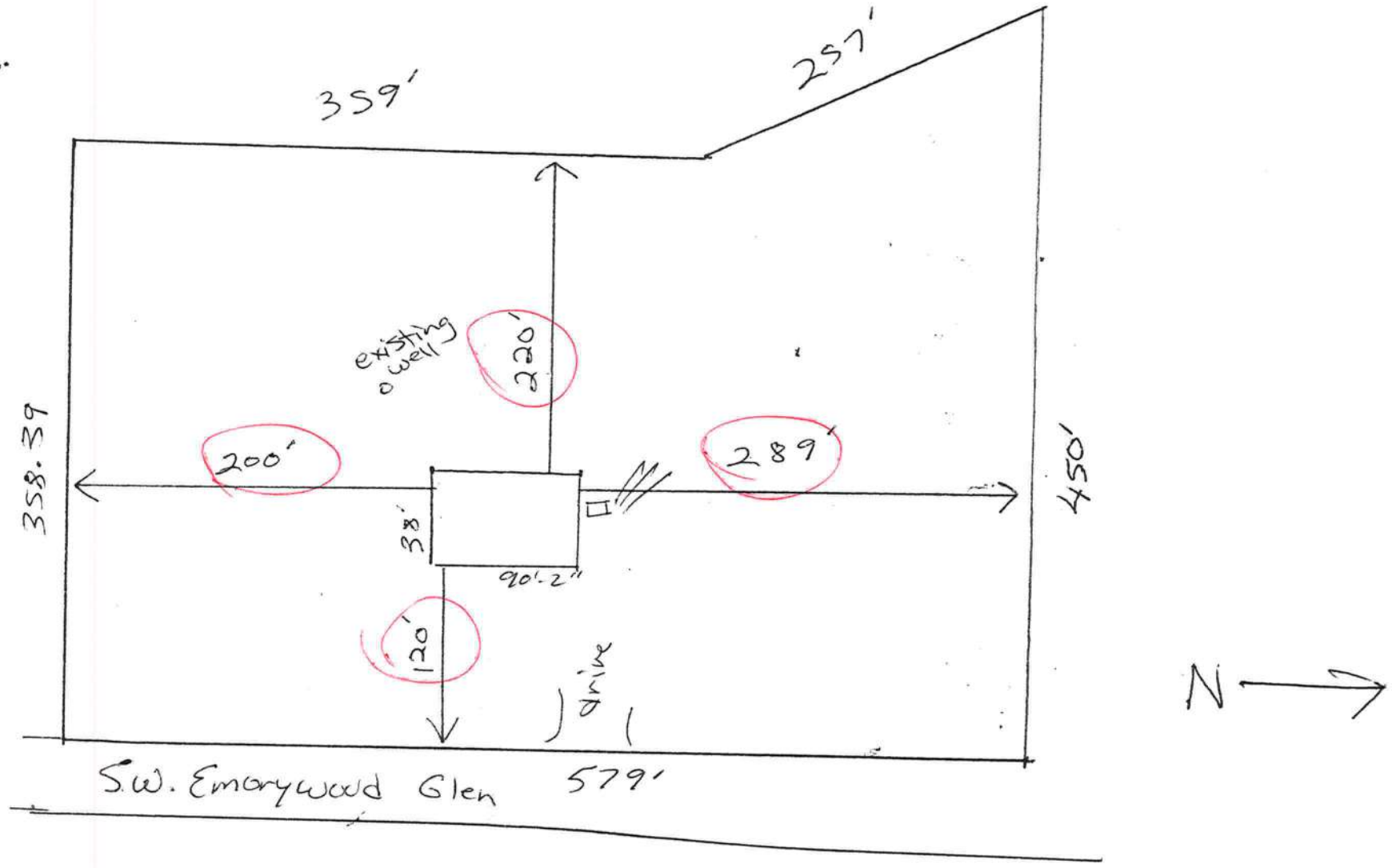
FLORIDA NOTARY
The above signer is personally known to me or produced identification _____
Notary Signature Linda Roder Date 12-4-08

NOTARY PUBLIC-STATE OF FLORIDA
Linda R. Roder
Commission # DD755608
Expires: MAR. 24, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

FOR BUILDING DEPARTMENT USE ONLY
I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7). Date_____ Building Official/Representative_____

Dan & Gail Nickelson
Lot 7 Cove at Rose Creek
01-55-16-03397-107

Site Plan



PREPARED BY AND RETURN TO:

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

Property Appraiser's
Identification Number R03397-018

Inst:2006023777 Date:10/04/2006 Time:13:13
Doc Stamp-Deed : 875.00
DC,P.DeWitt Cason,Columbia County B:1098 P:537

TM File No: 06-419

WARRANTY DEED

This Warranty Deed, made this 3RD day of October, 2006, BETWEEN WESTFIELD INVESTMENT GROUP, LLLP, a Florida Limited Liability Limited Partnership, f/k/a WESTFIELD GROUP, LTD., whose post office address is P.O. Box 3566, Lake City, FL 32056, of the County of Columbia, State of Florida, grantor*, and DANIEL JAY NICKELSON AND GAIL F. NICKELSON, Husband and Wife whose post office address is P.O. Box 3631, Lake City, Florida 32056, of the County of Columbia, State of Florida, grantee*.

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

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

Lot 7,Cove at Rose Creek, a subdivision according to the plat thereof recorded in Plat Book 8, Page 107-109, public records, Columbia County, Florida.

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

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

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

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

Signed, sealed and delivered in our presence:

(Signature of First Witness)

Crystal L. Brunner
(Typed Name of First Witness)

(Signature of Second Witness)

Karen M. Wright
(Typed Name of Second Witness)

WESTFIELD INVESTMENT GROUP, LLLP

BY: _____ (SEAL)
Scott D. Stewart, General Partner

BY: _____ (SEAL)
Charles S Sparks, General Partner

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 3RD day of October, 2006, by Scott D. Stewart and Charles S. Sparks, General Partners of Westfield Investment Group, LLLP, a Florida Limited Liability Limited Partnership, on behalf of said partnership, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

My Commission Expires:

Notary Public
Printed, typed, or stamped name:

KAREN M. WRIGHT
MY COMMISSION # DD 499137
EXPIRES: January 23, 2010
Bonded Thru Notary Public Underwriters

Inst:2006023777 Date:10/04/2006 Time:13:13
Doc Stamp-Deed : 875.00
DC,P.DeWitt Cason,Columbia County B:1098 P:538

Prepared By & Return To:
MATT ROCCO
Sierra Title, LLC
619 SW Baya Dr., Ste 102
Lake City, FL 32025
#08-0504

0812-09

Permit Number:

Tax Folio Number: 01-5S-[redacted]

State of: **Florida**
County of: **Columbia**

File Number: **08-0504**

NOTICE OF COMMENCEMENT

Inst:200812021952 Date:12/5/2008 Time:4:17 PM
Doc:P DeWitt Cason,Columbia County Page 1 of 1 B:1163 P:1197

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

1. Description of Property:

   All of Lot 7, Cove at Rose Creek, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 107 through 109, of the Public Records of Columbia County, Florida.

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

3. Owner Information:
   a. Name and Address: Daniel Jay Nickelson and Gail F. Nickelson
      PO Box 3631, Lake City, FL 32056

   b. Interest in property: Fee Simple

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

4. Contractor: Daniel J. Nickelson, PO Box 3631, Lake City, FL 32056

5. Surety:

6. Lender: Columbia Bank, PO Box 1609, Lake City, Florida 32056

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

8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

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

Daniel Jay Nickelson

Gail F. Nickelson

Sworn to and subscribed before me December 5, 2008 by Daniel Jay Nickelson and Gail F. Nickelson who are personally known to me or who did provide _____ as identification.

Notary Public
My Commission Expires: _____

[redacted] State of Florida
[redacted] DD578349
Expires 05/17/2010

FORM 600A-2004R EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Dan and Gail Nickelson**	Builder:	Nickelson
Address:	**SW Emory Wood Glen**	Permitting Office:	Columbia
City, State:	**Lake City, Fl**	Permit Number:	27521
Owner:	**Dan and Gail Nickelson**	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: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 14.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	3600 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a (Sngle Default) 511.6 ft²	a. LP Gas Heat Pump	Cap: 36.0 kBtu/hr
b. SHGC:			COP: 2.00
(or Clear or Tint DEFAULT)	7b. (Clear) 511.6 ft²	b. N/A	
8. Floor types			
a. Raised Wood, Adjacent	R=3.5, 150.0ft²	c. N/A	
b. Slab-On-Grade Edge Insulation	R=0.0, 339.0(p) ft		
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 50.0 gallons
a. Frame, Wood, Exterior	R=11.0, 1116.5 ft²		EF: 0.92
b. Frame, Wood, Exterior	R=0.0, 2397.9 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 2958.0 ft²	15. HVAC credits	MZ-C, PT, CF, MZ-
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 125.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.14 Total as-built points: 43190 Total base points: 43308 **PASS**

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

PREPARED BY: Nora L. Terry

DATE: 12/4/08

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

OWNER/AGENT: [signature]

DATE: 12-5-08

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: **SW Emory Wood Glen, Lake City, Fl,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	3600.0	18.59	12046.0	1.Single, Clear	E	0.0	0.0	12.0	47.92	1.00	575.0	
				2.Single, Clear	E	0.0	0.0	13.3	47.92	1.00	638.0	
				3.Single, Clear	E	0.0	0.0	17.5	47.92	1.00	838.0	
				4.Single, Clear	E	0.0	0.0	30.0	47.92	1.00	1437.0	
				5.Single, Clear	E	0.0	0.0	16.0	47.92	1.00	766.0	
				6.Single, Clear	E	0.0	0.0	16.5	47.92	1.00	790.0	
				7.Single, Clear	E	0.0	0.0	15.0	47.92	1.00	718.0	
				8.Single, Clear	E	0.0	0.0	30.0	47.92	1.00	1437.0	
				9.Single, Clear	E	0.0	0.0	16.0	47.92	1.00	766.0	
				10.Single, Clear	E	0.0	0.0	16.5	47.92	1.00	790.0	
				11.Single, Clear	E	0.0	0.0	34.0	47.92	1.00	1629.0	
				12.Single, Clear	W	0.0	0.0	9.0	43.84	1.00	394.0	
				13.Single, Clear	W	0.0	0.0	68.8	43.84	1.00	3013.0	
				14.Single, Clear	W	0.0	0.0	48.0	43.84	1.00	2104.0	
				15.Single, Clear	W	0.0	0.0	66.0	43.84	1.00	2893.0	
				16.Single, Clear	N	0.0	0.0	12.0	21.73	1.00	260.0	
				17.Single, Clear	N	0.0	0.0	15.0	21.73	1.00	325.0	
				18.Single, Clear	S	0.0	0.0	32.0	40.81	1.00	1305.0	
				19.Single, Clear	S	0.0	0.0	44.0	40.81	1.00	1795.0	
				As-Built Total:				**511.6**			**22473.0**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	11.0	1116.5	1.70	1898.1
Exterior	3514.4	1.70	5974.5	2. Frame, Wood, Exterior	0.0	2397.9	5.50	13188.4
Base Total:	**3514.4**		**5974.5**	**As-Built Total:**		**3514.4**		**15086.5**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Wood	48.0	6.10	292.8
Exterior	208.0	6.10	1268.8	2.Exterior Wood	64.0	6.10	390.4
				3.Exterior Wood	24.0	6.10	146.4
				4.Exterior Wood	48.0	6.10	292.8
				5.Exterior Wood	24.0	6.10	146.4
Base Total:	**208.0**		**1268.8**	**As-Built Total:**	**208.0**		**1268.8**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	2958.0	1.73	5117.3	1. Under Attic	30.0	2958.0	1.73 X 1.00	5117.3
Base Total:	**2958.0**		**5117.3**	**As-Built Total:**		**2958.0**		**5117.3**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Emory Wood Glen, Lake City, Fl,** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	=	Points
Slab	339.0(p)	-37.0	-12543.0	1. Raised Wood, Adjacent	3.5	150.0	1.50		225.0
Raised	150.0	-3.99	-598.5	2. Slab-On-Grade Edge Insulation	0.0	339.0(p	-41.20		-13966.8
Base Total:			**-13141.5**	**As-Built Total:**		**489.0**			**-13741.8**
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points
	3600.0	10.21	36756.0			3600.0	10.21		36756.0
Summer Base Points: 48021.1				**Summer As-Built Points:**					**66959.8**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
				(sys 1: Central Unit 36000btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
48021.1	**0.3250**	**15606.9**		66960 **66959.8**	1.00 **1.00**	(1.09 x 1.147 x 1.00) **1.250**	0.244 **0.244**	0.857 **0.857**	17497.8 **17497.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Emory Wood Glen, Lake City, Fl,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	3600.0	20.17	13070.0	1.Single, Clear	E	0.0	0.0	12.0	26.41	1.00	316.0	
				2.Single, Clear	E	0.0	0.0	13.3	26.41	1.00	352.0	
				3.Single, Clear	E	0.0	0.0	17.5	26.41	1.00	462.0	
				4.Single, Clear	E	0.0	0.0	30.0	26.41	1.00	792.0	
				5.Single, Clear	E	0.0	0.0	16.0	26.41	1.00	422.0	
				6.Single, Clear	E	0.0	0.0	16.5	26.41	1.00	435.0	
				7.Single, Clear	E	0.0	0.0	15.0	26.41	1.00	396.0	
				8.Single, Clear	E	0.0	0.0	30.0	26.41	1.00	792.0	
				9.Single, Clear	E	0.0	0.0	16.0	26.41	1.00	422.0	
				10.Single, Clear	E	0.0	0.0	16.5	26.41	1.00	435.0	
				11.Single, Clear	E	0.0	0.0	34.0	26.41	1.00	897.0	
				12.Single, Clear	W	0.0	0.0	9.0	28.84	1.00	259.0	
				13.Single, Clear	W	0.0	0.0	68.8	28.84	1.00	1982.0	
				14.Single, Clear	W	0.0	0.0	48.0	28.84	1.00	1384.0	
				15.Single, Clear	W	0.0	0.0	66.0	28.84	1.00	1903.0	
				16.Single, Clear	N	0.0	0.0	12.0	33.22	1.00	398.0	
				17.Single, Clear	N	0.0	0.0	15.0	33.22	1.00	498.0	
				18.Single, Clear	S	0.0	0.0	32.0	20.24	1.00	647.0	
				19.Single, Clear	S	0.0	0.0	44.0	20.24	1.00	890.0	
				As-Built Total:				**511.6**			**13682.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	11.0	1116.5	3.70	4131.1
Exterior	3514.4	3.70	13003.3	2. Frame, Wood, Exterior	0.0	2397.9	11.10	26616.7
Base Total:	**3514.4**		**13003.3**	**As-Built Total:**		**3514.4**		**30747.7**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Wood	48.0	12.30	590.4
Exterior	208.0	12.30	2558.4	2.Exterior Wood	64.0	12.30	787.2
				3.Exterior Wood	24.0	12.30	295.2
				4.Exterior Wood	48.0	12.30	590.4
				5.Exterior Wood	24.0	12.30	295.2
Base Total:	**208.0**		**2558.4**	**As-Built Total:**	**208.0**		**2558.4**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	2958.0	2.05	6063.9	1. Under Attic	30.0	2958.0	2.05 X 1.00	6063.9
Base Total:	**2958.0**		**6063.9**	**As-Built Total:**		**2958.0**		**6063.9**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Emory Wood Glen, Lake City, Fl,** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM =	Points	
Slab	339.0(p)	8.9	3017.1	1. Raised Wood, Adjacent	3.5	150.0	7.40	1110.0	
Raised	150.0	0.96	144.0	2. Slab-On-Grade Edge Insulation	0.0	339.0(p	18.80	6373.2	
Base Total:			**3161.1**	**As-Built Total:**		**489.0**		**7483.2**	
INFILTRATION	Area X	BWPM =	Points			Area X	WPM =	Points	
	3600.0	-0.59	-2124.0			3600.0	-0.59	-2124.0	
Winter Base Points:			**35732.7**	**Winter As-Built Points:**					**58411.2**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: LP Gas Heat Pump 36000 btuh ,EFF(2.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
35732.7	**0.5540**	**19795.9**		58411.2 **58411.2**	1.000 **1.00**	(1.069 x 1.169 x 1.00) **1.250**	0.270 **0.270**	0.902 **0.902**	17786.9 **17786.9**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Emory Wood Glen, Lake City, Fl,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	50.0	0.92	3	1.00	2635.00	1.00	7905.0	
				As-Built Total:						**7905.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
15607	**19796**	**7905**	**43308**	**17498**	**17787**	**7905**	**43190**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 89.8

The higher the score, the more efficient the home.

Dan and Gail Nickelson, SW Emory Wood Glen, Lake City, Fl,

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	3600 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	Description Area 7a (Sngle Default) 511.6 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 511.6 ft²	
8.	Floor types		
	a. Raised Wood, Adjacent	R=3.5, 150.0ft²	
	b. Slab-On-Grade Edge Insulation	R=0.0, 339.0(p) ft	
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=11.0, 1116.5 ft²	
	b. Frame, Wood, Exterior	R=0.0, 2397.9 ft²	
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 2958.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts		
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 125.0 ft	
	b. N/A		

12.	Cooling systems		
	a. Central Unit	Cap: 36.0 kBtu/hr	
		SEER: 14.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. LP Gas Heat Pump	Cap: 36.0 kBtu/hr	
		COP: 2.00	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 50.0 gallons	
		EF: 0.92	
	b. N/A		
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	MZ-C, PT, CF, MZ-	

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

Builder Signature: _____ Date: _____

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

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

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

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001695

DATE 12/15/2008 PARCEL ID # 01-5S-16-03397-107

APPLICANT DAN NICKELSON PHONE 867-5616

ADDRESS P.O. BOX 3631 LAKE CITY FL 32056

OWNER DAN & GAIL NICKELSON PHONE 867-5616

ADDRESS 440 SW EMORYWOOD GLEN LAKE CITY FL 32024

CONTRACTOR DAN NICKELSON PHONE 867-5616

LOCATION OF PROPERTY 47S, TL ON LITTLE ROAD, TL ON EMORYWOOD, 4TH LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COVE AT ROSE CREEK 7

SIGNATURE Signature on File

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006 Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) **SHALL BE USED.**

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

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

GENERAL REQUIREMENTS:

- Two (2) complete sets of plans containing the following:
- All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- Dimensions of lot or parcel of land
- Dimensions of all building set backs
- Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- Plans or specifications must meet state compliance with FRC Chapter 3
- The following information must be shown as per section FRC
- Basic wind speed (3-second gust), miles per hour
- Wind importance factor and nature of occupancy
- Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.

Elevations Drawing including:

- All side views of the structure
- Roof pitch
- Overhang dimensions and detail with attic ventilation
- Location, size and height above roof of chimneys
- Location and size of skylights with Florida Product Approval
- Number of stories
- e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
- All exterior and interior shear walls indicated
- Shear wall opening shown (Windows, Doors and Garage doors
- Emergency escape and rescue opening in each bedroom (net clear opening shown)
- Safety glazing of glass where needed
- Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- Plans must show and identify accessibility of bathroom (see FRC 322)

All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing valve of soil_____ (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

- Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

- Show all materials making up walls, wall height, and Block size, mortar type
- Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers
- Girder type, size and spacing to load bearing walls, stem wall and/or priers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms

- Notarized Disclosure Statement for Owner Builders

- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

existing well

Private Potable Water

- Size of pump motor
- Size of pressure tank
- Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.

- 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.

- 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 (Toilet facilities shall be provided for construction workers)

- 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. (386) 497-2321

- 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. The permit cost is $50.00.

- Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit ($25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ($50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

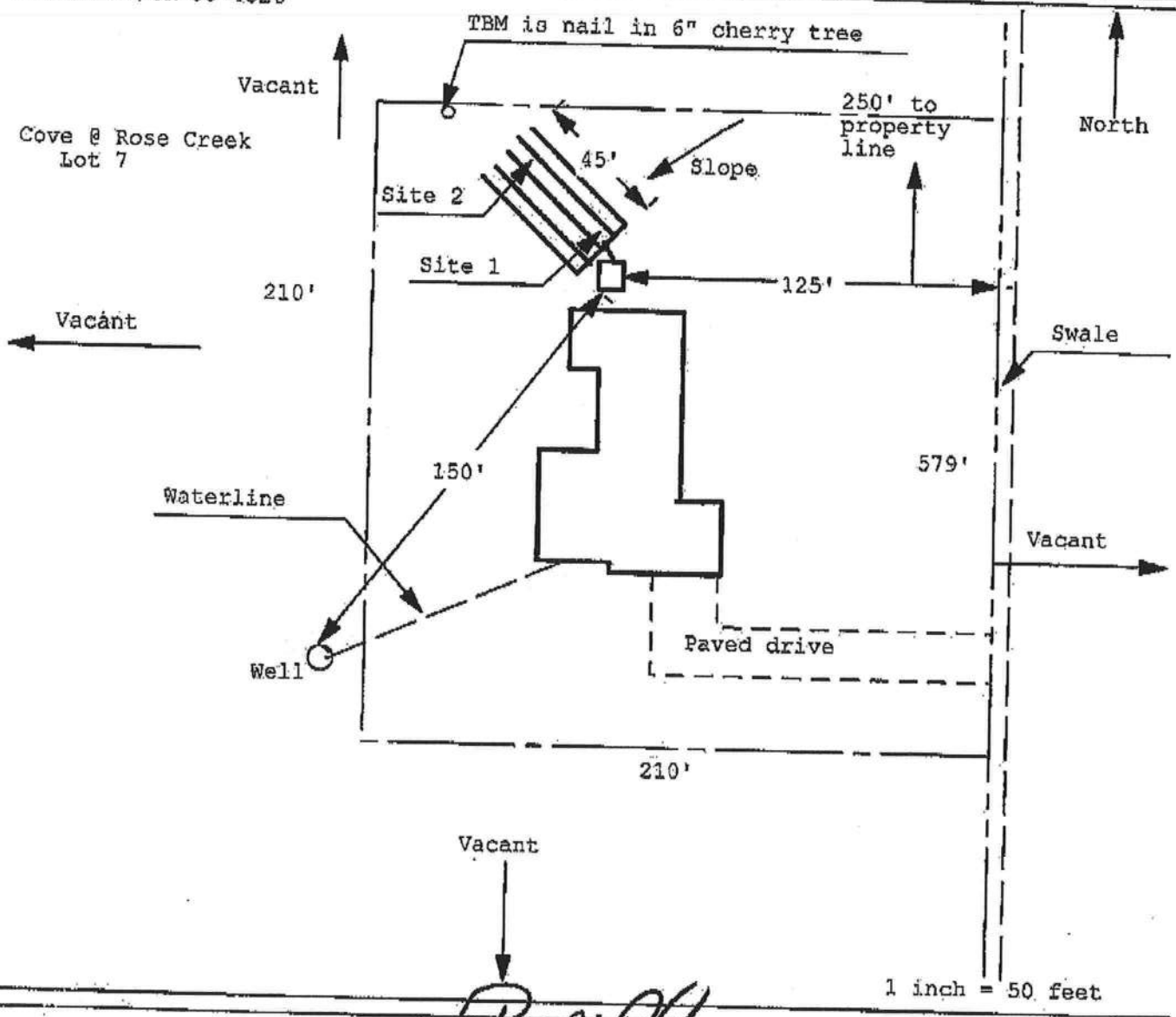
ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

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

Permit Application Number: 08-0758

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NICKLESON/CR 08-4526



Site Plan Submitted By Paul Lloyd Date 12/15/08

Plan Approved X Not Approved Date 12/15/8

By Columbia CHD CPHU

Notes: APPROVED

08-0753

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # 904208
DATE PAID 12/8/08
FEE PAID $ 370.00
RECEIPT # 1083858
CR # 08-4526

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System
[ ] Repair [ ] Abandonment [ ] Other (Specify)

APPLICANT: DANIEL & GAIL NICKELSON TELEPHONE: 386-752-2281

AGENT: NORTH FLORIDA PERMIT SERVICE fax 752-2282

MAILING ADDRESS: 387 SW KEMP COURT CITY: LAKE CITY STATE: FL ZIP: 32024
911- 440 SW Emorywood Glen Lake City FL 32024

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: 7 BLOCK: _____ SUBDIVISION: COVE AT ROSE CREEK DATESUBD: 06

PROPERTY ID #: 01-6S-16-03397-107 [Section/Township/Range/Parcel] ZONING: _____

PROPERTY SIZE: 5.01 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: [X] PRIVATE [ ] PUBLIC

PROPERTY STREET ADDRESS: SW EMORYWOOD GLEN

DIRECTIONS TO PROPERTY: STATE ROAD 47 SOUTH, TL ON LITTLE ROAD, TL ON EMORYWOOD GLEN, LOT ON RIGHt

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	house	3	4234	4	
2					
3					
4					

[N] Garbage Grinders/Disposals [N] Spas/Hot Tubs [N] Floor/Equipment Drains
[N] Ultra-low Volume Flush Toilets [N] Other (Specify) _____

APPLICANT'S SIGNATURE: [signature] DATE: 12-4-08

0812-09

08-0759

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # 904208
DATE PAID 12/8/08
FEE PAID $ 310.00
RECEIPT # 1065858
CR # 08-4525

CONSTRUCTION PERMIT FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System
[ ] Repair [ ] Abandonment [ ] Other(Specify) _____

APPLICANT: DANIEL & GAIL NICKELSON AGENT: NORTH FLORIDA PERMIT SERVICE

PROPERTY STREET ADDRESS: SW EMORYWOOD GLEN

LOT: 7 BLOCK: _____ SUBDIVISION: COVE AT ROSE CREEK

PROPERTY ID #: 01-5S-16-03397-107 [SECTION/TOWNSHIP/RANGE/PARCEL NO.] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF CHAPTER 10D-6, FAC REPAIR PERMITS AND HOLDING TANK PERMITS EXPIRE 90 DAYS FROM THE DATE OF ISSUE. ALL OTHER PERMITS EXPIRE 18 MONTHS FROM THE DATE OF ISSUE. HRS APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID.

SYSTEM DESIGN AND SPECIFICATIONS

TANK [1,350] [GALLONS / GPD] SEPTIC TANK CAPACITY MULTI-CHAMBERED/IN SERIES: [ ]
TANK [ ] [GALLONS / GPD] _____ CAPACITY MULTI-CHAMBERED/IN SERIES: [ ]
[0] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK: 1250 GALLONS]
[ ] GALLONS PER DOSE DOSING TANK CAPACITY DOSE RATE [N] PER 24 HRS NO. OF PUMPS: [N]

DRAINFIELD [667.0] SQUARE FEET PRIMARY DRAINFIELD SYSTEM
[ ] SQUARE FEET _____ SYSTEM
TYPE SYSTEM: [X] STANDARD [ ] FILLED [ ] MOUND [ ] _____
CONFIGURATION: [X] TRENCH [ ] BED [ ] _____

INFIELD LOCATION OF BENCHMARK: NAIL IN 6" CHERRY TREE NORTH OF SYSTEM SITE
ELEVATION OF PROPOSED SYSTEM SITE IS [12] INCHES BELOW BENCHMARK/REFERENCE POINT
BOTTOM OF DRAINFIELD TO BE [30] INCHES BELOW BENCHMARK/REFERENCE POINT

FILL REQUIRED: [0] INCHES EXCAVATION REQUIRED: [0.0] INCHES

OTHER _____

SPECIFICATIONS BY: Paul Lloyd TITLE: Soil Scientist

APPROVED BY: _____ TITLE: ESI COLUMBIA CPHU

DATE ISSUED: 12/5/8 EXPIRATION DATE: 6/9/10

HRS-E Form 4016 March 1992 (Obsoletes Previous Editions Which May Not Be Used) Page 1 of 2

ATN: Weggie

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000001695

DATE: 07/29/2009 BUILDING PERMIT NO. 27521

APPLICANT DAN NICKELSON PHONE 867-5616

ADDRESS P.O. BOX 3631 LAKE CITY FL 32056

OWNER DAN & GAIL NICKELSON PHONE 867-5616

ADDRESS 440 SW EMORYWOOD GLEN LAKE CITY FL 32024

CONTRACTOR DAN NICKELSON PHONE 867-5616

LOCATION OF PROPERTY 47S, TL ON LITTLE ROAD, TL ON EMORYWOOD, 4TH LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COVE AT ROSE CREEK 7

PARCEL ID # 01-5S-16-03397-107

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: [signature]

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:

✓ APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: Put CONCRETE DRIVEWAY. Put INVERT IN DRIVEWAY. OR Put 15 X 21 CULVERT.

SIGNED: Willie Mathis DATE: 8-3-09

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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

RECEIVED
JUL 30 2009
By _____

COLUMBIA COUNTY GATEWAY TO FLORIDA

27521

WILLIAM N. KITCHEN

PROFESSIONAL SURVEYOR AND MAPPER
152 N. MARION AVENUE
LAKE CITY, FLORIDA 32055
PHONE (386) 755-7786 FAX (386) 755-5506
E-MAIL BSSK@BELLSOUTH.NET

DATE : 1/8/2009

To Whom It May Concern:

RE: DANIEL NICKELSON
LOT 7, COVE AT ROSE CREEK

SUBJECT **Parcel:** 01-5S-16-03397-107

SUBJECT PARCEL IS NOT IN A FLOOD ZONE ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 12023C383C DATED FEBUARY 4, 2009.
AND THE TOP OF STEM WALLS = ELEVATION 90.25 FEET.
LOT 7 PER PLAT SHOWS A MINIMUM FLOOR ELEVATION OF 80.5 FEET.

Thank you,
WILLIAM N. KITCHEN PSM # 5490

William N. Kitchen
1-8-2009

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

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

#27521

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: P.O. Box 1795 City Lake City State FL Zip 32056
Company Business License No. JB109476 Company Phone No. 386-755-3611 • 352-494-5761
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Dan Nickelson Company Phone No. 867-5616

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Dan Nickelson
440 SW Emorywood Glen
Lake City, FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1' Inside 3' Type of Fill Sand

Section 4: Treatment Information

Date(s) of Treatment(s) 1/7/09
Brand Name of Product(s) Used Biflex XTS
EPA Registration No. 53883-210
Approximate Final Mix Solution % .06%
Approximate Size of Treatment Area: Sq. ft. 5542 Linear ft. 413 Linear ft. of Masonry Voids 380
Approximate Total Gallons of Solution Applied 1,300 gals.
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments Treated Garage, Main Body, Lanai, 2 porches

Name of Applicator(s) S. Gregory Certification No. (if required by State law) JF104376

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

Authorized Signature [signature] Date 1/7/09

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

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 01-5S-16-03397-107 **Building permit No.** 000027521

Use Classification SFD,UTILITY **Fire:** 77.00

Permit Holder DAN NICKELSON **Waste:** 201.00

Owner of Building DAN NICKELSON **Total:** 278.00

Location: 440 SW EMORYWOOD GLEN, LAKE CITY, FL

Date: 10/28/2009

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Dan Nickelson

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	Anderson	outswing door	FL 1097
2. Sliding			
3. Sectional			
4. Roll up	General American	garage door	FL 2868
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	MI	window	FL 5108
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed	MI	fixed window	FL 125-R1
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits	Ashley Aluminum	Aluminum soffits	FL 406
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	Tamko	30-year asphault	FL 673
2. Underlayments			
3. Roofing Fasteners			
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			

Dan Nidelson

ory/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspectic

Linda Roder

Contractor or Contractor's Authorized Agent Signature

Linda Roder

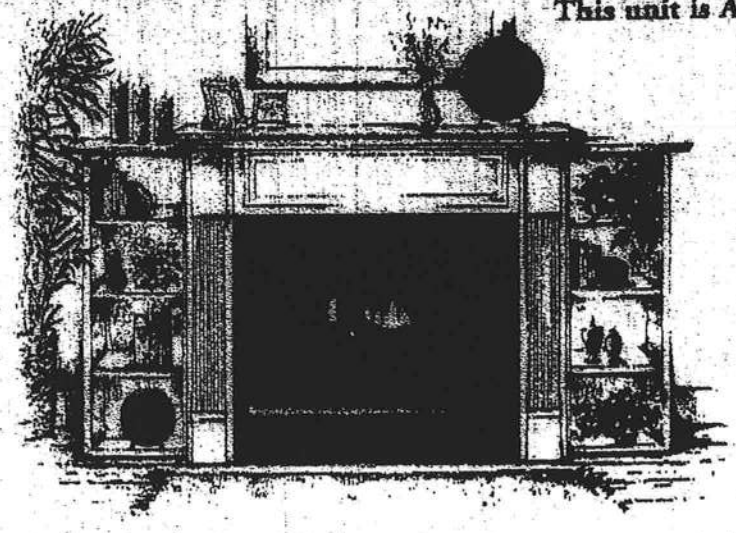
Print Name

12-5-08

Date

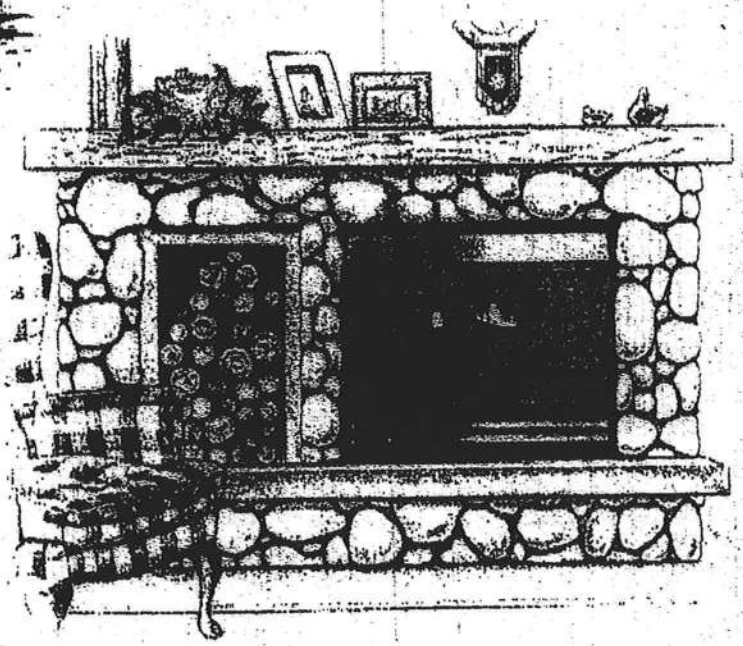
VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency
No chimney or flue system required
Wide selection of factory installed options offered



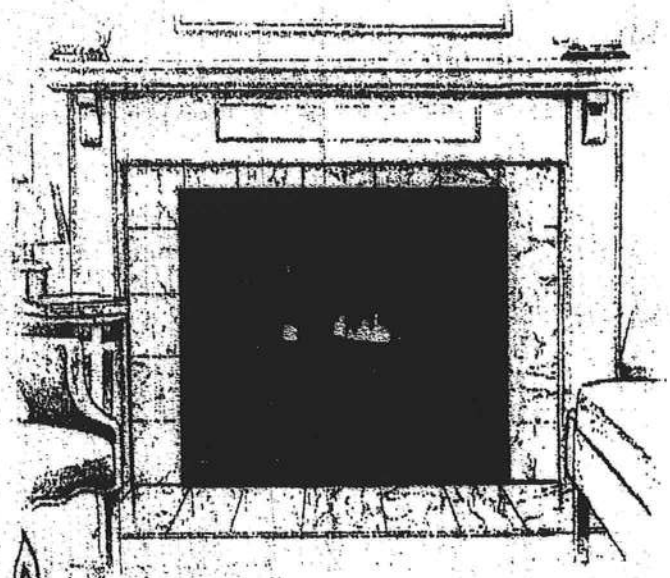
VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 19,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening



VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



GAS

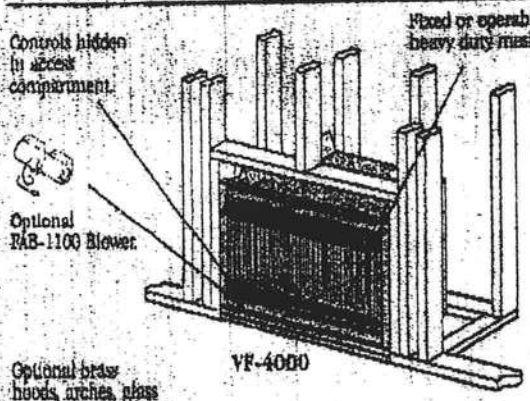
VF-6000

- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

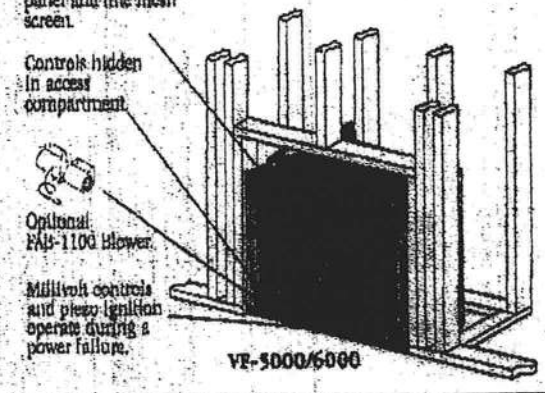
SUPERIOR.

VF-4000/5000/6000

VF-6000 shown.



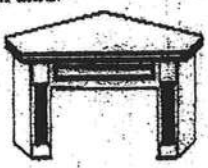
VF-4000



VF-5000/6000

SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



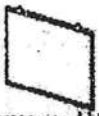
Distributed by:

Refractory tan brick panels

Gas flex liner kit.

Square brass trim kit.

Brass Louver Kit (For VF-4 only)



Screen panel kit. (For VF-5 & VF6 only)

Arch kit. (For VF-5 & VF6 only)

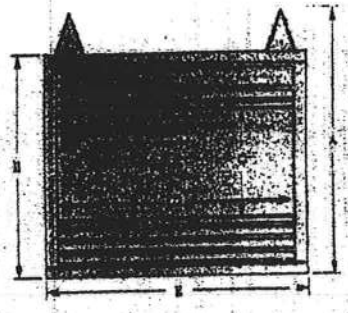
Glass door kit. (For VF-5 & VF6 only)

Brass hood. (For VF-5 & VF6 only)

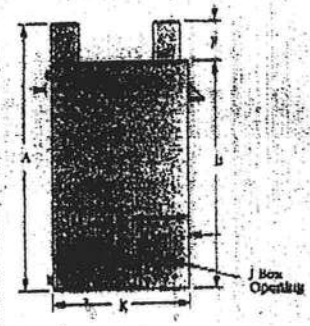
Wall switch or optional wireless remote available. (For VF-4MV, VF-5 & VF-6)

Wall thermostat. (For VF-4MV, VF-5 & VF-6)

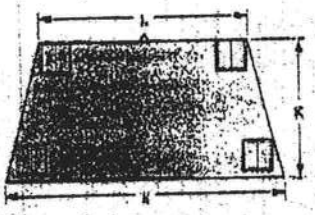
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
A		42-1/8"
B	31-1/2"	36-5/8"
C		20"
D	30"	34"
E		40"
F	5-1/2"	5-1/2"
G		1/2"
H	3-3/4"	3-3/4"
I		8-1/2"
J	3"	3"
K		19-1/2"
L	27"	28-1/2"

Btu Chart

Model	Natural	Propane
VF-4000 manual	14,000 – 25,000	14,000 – 25,000
VF-4000/5000 millivolt	19,500 – 25,000	19,500 – 25,000
VF-6000	25,000 – 32,000	25,000 – 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37-1/4"	15-1/2"
VF-6000	41"	42-3/8"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ANSI Z21.11.2 standard and approved by A.G.A. (report # 1297017).

Consult your distributor for local fireplace code information.

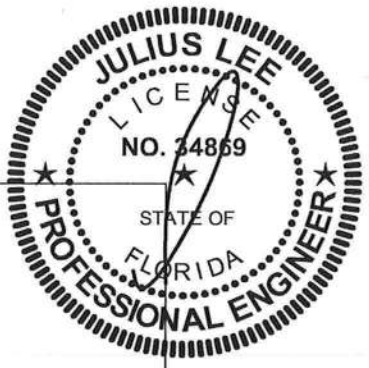
SUPERIOR

www.LennoxHearthProducts.com

Printed in U.S.A. ©2001 Lennox Hearth Products • 1110 West Taft Ave., Orange, CA 92865-4150

Builders FirstSource

HLAKMF



Project Information:

Builder: Cash Account
Model: custom
Builders FirstSource Job #: L288061F
Street: 440 SW EMERYWOOD
City: LAKE CITY
County: COLUMBIA
Building Code: FBC2004/TPI2002
Computer Program Used: MiTek 6.3

Builders FirstSource
2525 E. Duval St.
Lake City, FL 32055

Truss Design Information:

Gravity Loads
Roof: 32 psf Total
Floor: 55 psf Total

Wind
Wind Standard: ASCE 7-02
Wind Speed: 110 mph
Mean Roof Ht: 20 ft
Exposure: B

JULIUS LEE'S CONSULT. ENGR INC
1455 SW 4TH AVE , DELRAY BEACH
FLORIDA. 33444

Note: Refer to individual truss design drawings for special loading conditions, design criteria, truss geometry, lumber, and plate information.

Design Professional Information:

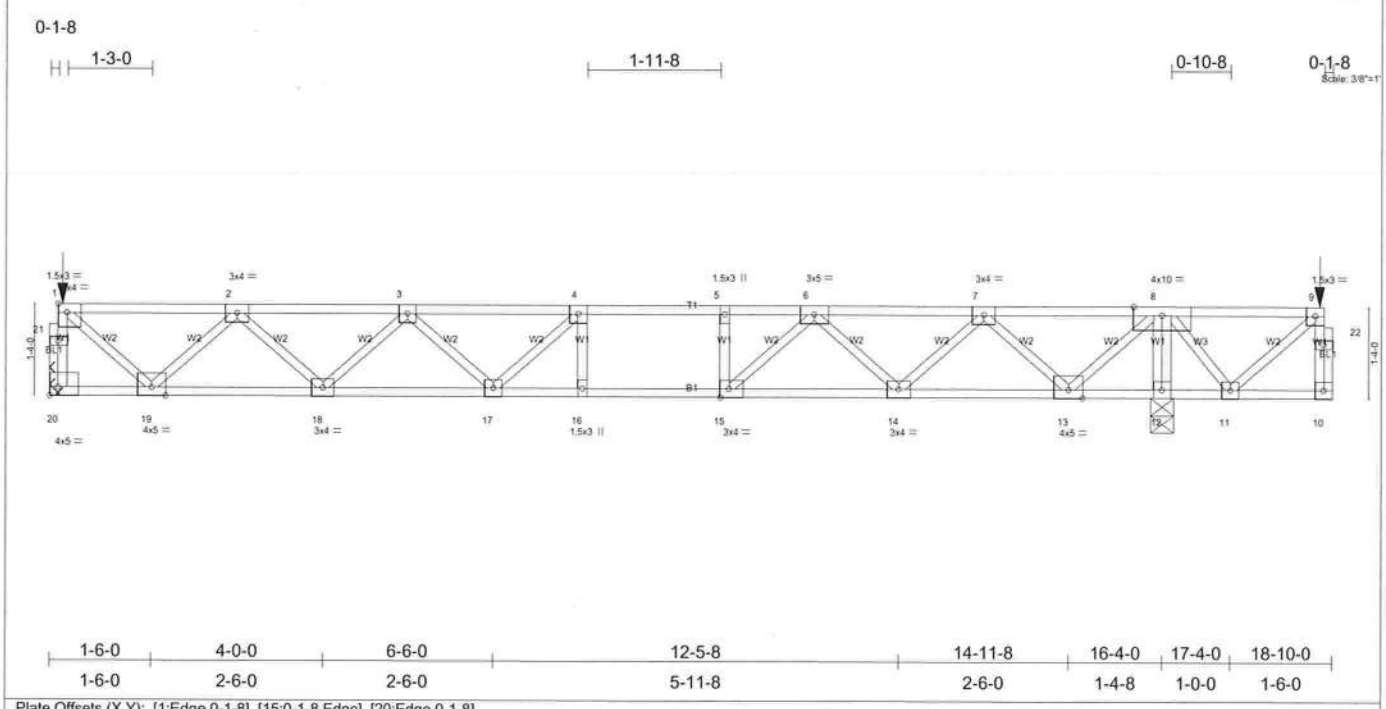
Design Professional Of Record: BUILDER
License # :
Delegated Truss Engineer: Julius Lee
License # : 34869

This truss specification package consists of this index sheet and 16 truss design drawings. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of each truss component for any particular building is the responsibility of the building designer per TPI.

Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date
1	F01	L288061F001	10/29/2008								
2	F02	L288061F002	10/29/2008								
3	F03	L288061F003	10/29/2008								
4	F04	L288061F004	10/29/2008								
5	F05	L288061F005	10/29/2008								
6	F06	L288061F006	10/29/2008								
7	F07	L288061F007	10/29/2008								
8	F07A	L288061F008	10/29/2008								
9	F08	L288061F009	10/29/2008								
10	F09	L288061F010	10/29/2008								
11	F10	L288061F011	10/29/2008								
12	F11	L288061F012	10/29/2008								
13	F11A	L288061F013	10/29/2008								
14	F12	L288061F014	10/29/2008								
15	FGT	L288061F015	10/29/2008								
16	FGT3	L288061F016	10/29/2008								

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F01	FLOOR	7	1	L288061F001 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:15 2008 Page 1



1-6-0	4-0-0	6-6-0	12-5-8	14-11-8	16-4-0	17-4-0	18-10-0
1-6-0	2-6-0	2-6-0	5-11-8	2-6-0	1-4-8	1-0-0	1-6-0

Plate Offsets (X,Y): [1:Edge,0-1-8], [15:0-1-8,Edge], [20:Edge,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.79	Vert(LL)	-0.18	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.92	Vert(TL)	-0.28	16-17	>683	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 100 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-13,11-12,10-11.

REACTIONS (lb/size) 20=1467/Mechanical, 12=1304/0-4-0
Max Grav 20=1493(load case 2), 12=1304(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 20-21=-1489/0, 1-21=-1487/0, 10-22=0/8, 9-22=0/8, 1-2=-905/0, 2-3=-2150/0, 3-4=-2784/0, 4-5=-2887/0, 5-6=-2887/0, 6-7=-2044/0, 7-8=-785/169, 8-9=0/245
BOT CHORD 19-20=0/77, 18-19=0/1672, 17-18=0/2608, 16-17=0/2887, 15-16=0/2887, 14-15=0/2529, 13-14=0/1561, 12-13=-433/0, 11-12=-437/0, 10-11=-0/0
WEBS 8-12=-1275/0, 1-19=0/1126, 8-13=0/1182, 2-19=-1066/0, 7-13=-1094/0, 2-18=0/665, 7-14=0/710, 3-18=-637/0, 6-14=-725/0, 3-17=0/356, 6-15=0/764, 4-17=-396/194, 4-16=-227/86, 5-15=-321/0, 9-11=-332/0, 8-11=0/302

NOTES (9)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Load case(s) 1, 2, 3, 4, 5 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down at 18-7-12, and 620 lb down at 0-2-4 on top 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).
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-10, 1-9=-100
Concentrated Loads (lb)
Vert: 1=-620(F) 9=-120(F)
2) 1st unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-10, 1-8=-100, 8-9=-20
Concentrated Loads (lb)
Vert: 1=-620(F) 9=-33(F)
3) 2nd unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-10, 1-8=-20, 8-9=-100
Concentrated Loads (lb)
Vert: 1=-620(F) 9=-120(F)
4) 1st chase Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-10, 1-5=-100, 5-8=-20, 8-9=-100
Concentrated Loads (lb)
Vert: 1=-620(F) 9=-120(F)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F02	FLOOR	2	1	L288061F002 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:16 2008 Page 1

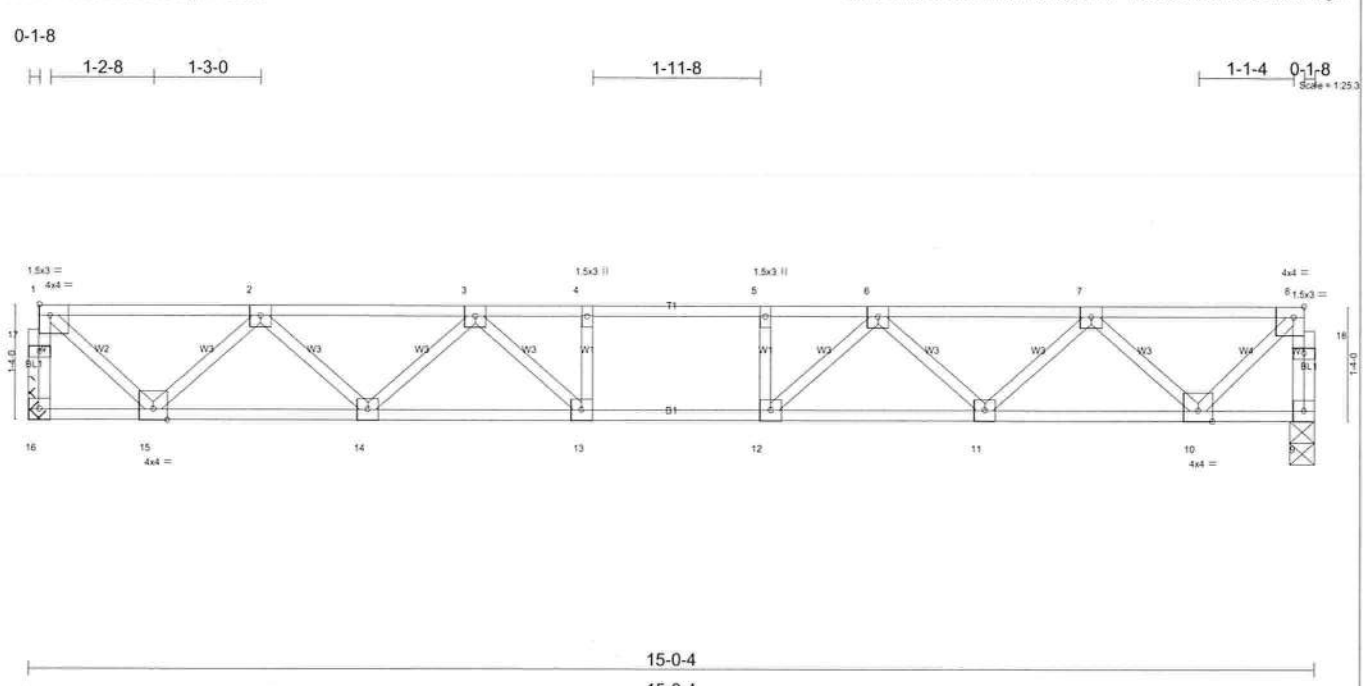


Plate Offsets (X,Y): [1:Edge,0-1-8], [8:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.48	Vert(LL)	-0.13	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.62	Vert(TL)	-0.19	13-14	>944	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 78 lb	

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

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

REACTIONS (lb/size) 16=806/Mechanical, 9=806/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 16-17=-801/0, 1-17=-800/0, 9-18=-802/0, 8-18=-801/0, 1-2=-778/0, 2-3=-1884/0, 3-4=-2449/0, 4-5=-2449/0, 5-6=-2449/0, 6-7=-1847/0, 7-8=-724/0
BOT CHORD 15-16=0/41, 14-15=0/1483, 13-14=0/2256, 12-13=0/2449, 11-12=0/2235, 10-11=0/1434, 9-10=0/41
WEBS 8-10=0/983, 1-15=0/1017, 7-10=-988/0, 2-15=-980/0, 7-11=0/575, 2-14=0/557, 6-11=-539/0, 3-14=-517/0, 6-12=0/525, 3-13=-15/504, 4-13=-254/0, 5-12=-263/0

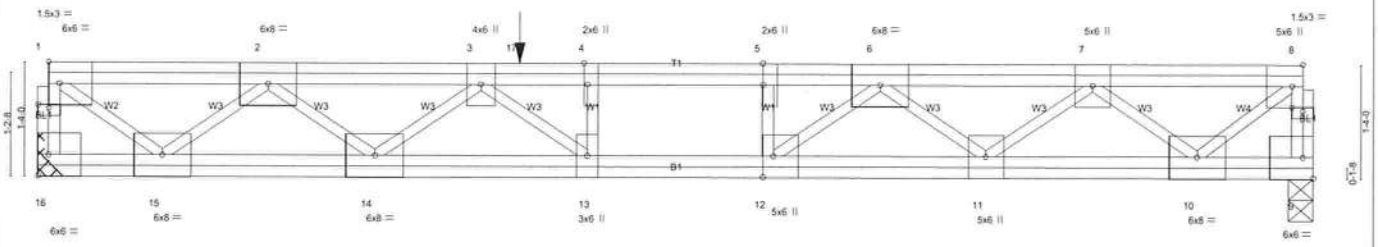
NOTES (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F03	FLOOR	3	1	L288061F003 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:18 2008 Page 1

0-1-8 | 1-2-8 | 1-3-0 | 1-11-8 | 1-1-4 | 0-1-8 — Scale = 1:25.5



15-0-4

15-0-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.88	Vert(LL)	-0.21	13-14	>853	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.93	Vert(TL)	-0.32	13-14	>550	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 118 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 16=1412/Mechanical, 9=1173/0-3-8

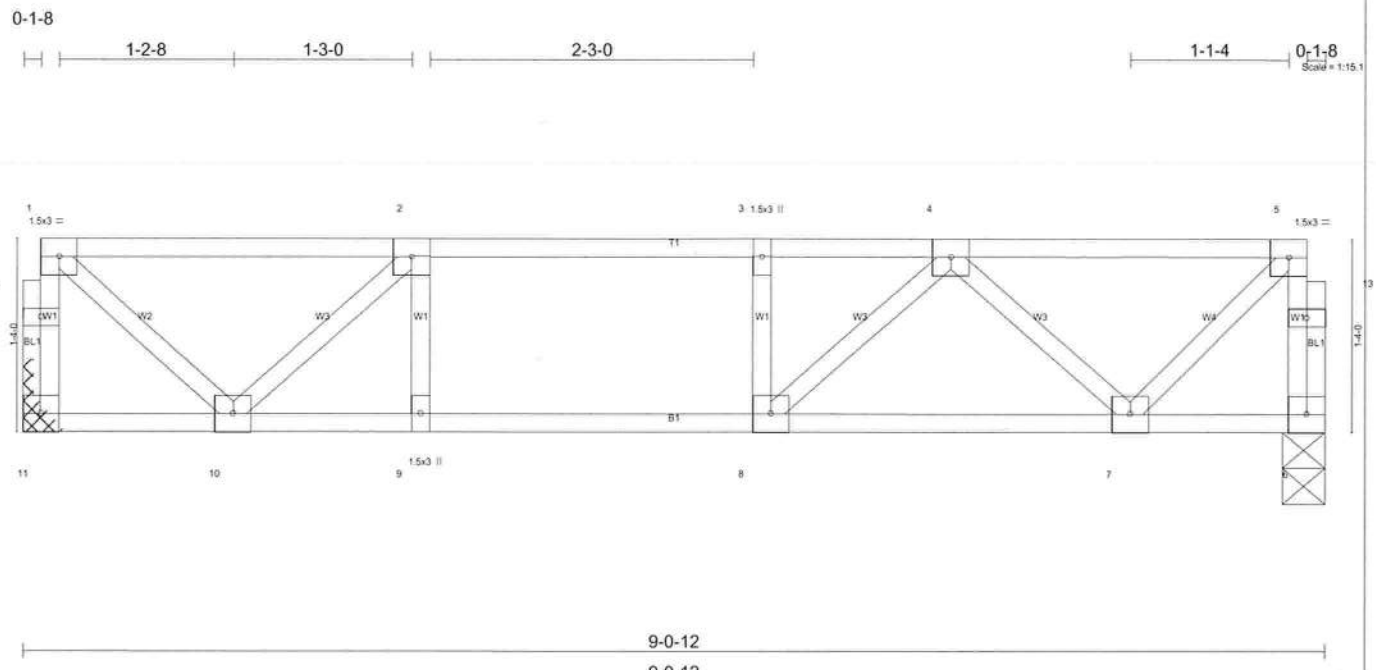
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-1392/0, 8-9=-1178/0, 1-2=-1587/0, 2-3=-4295/0, 3-17=-5174/0, 4-17=-5174/0, 4-5=-5174/0, 5-6=-5174/0, 6-7=-3236/0, 7-8=-1242/0
BOT CHORD 15-16=-0/0, 14-15=0/3066, 13-14=0/5357, 12-13=0/5174, 11-12=0/4163, 10-11=0/2413, 9-10=0/0
WEBS 8-10=0/1640, 1-15=0/2028, 7-10=-1551/0, 2-15=-1959/0, 7-11=0/1089, 2-14=0/1625, 6-11=-1227/0, 3-14=-1406/0, 6-12=0/1554, 3-13=-531/390, 4-13=-230/15, 5-12=-625/0

NOTES (6)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 960 lb down at 5-8-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 17=-960(F)

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F04	FLOOR	2	1	L288061F004 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:19 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.45	Vert(LL)	-0.07	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.47	Vert(TL)	-0.09	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 48 lb	

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

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

REACTIONS (lb/size) 11=478/Mechanical, 6=478/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 11-12=-468/0, 1-12=-467/0, 6-13=-481/0, 5-13=-481/0, 1-2=-417/0, 2-3=-842/0, 3-4=-842/0, 4-5=-394/0
BOT CHORD 10-11=0/24, 9-10=0/842, 8-9=0/842, 7-8=0/748, 6-7=0/25
WEBS 5-7=0/531, 1-10=0/541, 4-7=-493/0, 2-10=-578/0, 4-8=0/278, 2-9=-8/127, 3-8=-145/0

NOTES (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F05	FLOOR	2	1	L288061F005 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:21 2008 Page 1

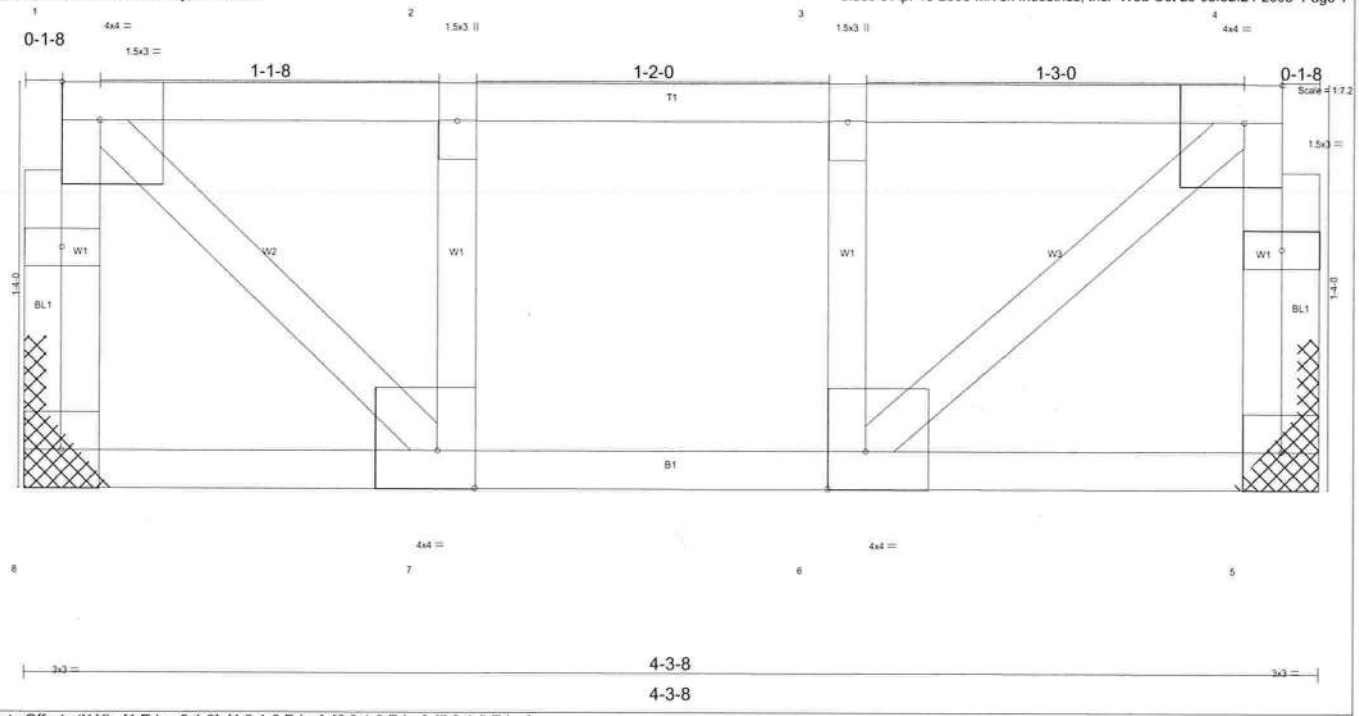


Plate Offsets (X,Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.40	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.36	Vert(TL)	-0.02	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 8=960/Mechanical, 5=960/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 8-9=-913/0, 1-9=-912/0, 5-10=-888/0, 4-10=-887/0, 1-2=-798/0, 2-3=-798/0, 3-4=-798/0
BOT CHORD 7-8=0/47, 6-7=0/798, 5-6=0/46
WEBS 4-6=0/1002, 1-7=0/1045, 2-7=-555/0, 3-6=-538/0

NOTES (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Girder carries tie-in span(s): 5-8-0 from 0-0-0 to 4-3-8; 5-8-0 from 0-0-0 to 4-3-8; 9-3-0 from 0-0-0 to 4-3-8
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
7) Use Simpson THA422 to attach Truss to Carrying member

LOAD CASE(S) Standard
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-103(F=-93), 1-4=-384(F=-284)

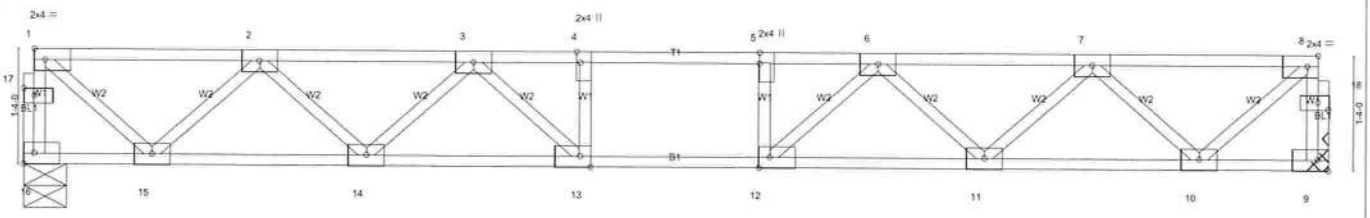
Job	Truss	Truss Type	Qty	Ply	
L288061F	F05A	FLOOR	1	3	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 17 12:47:40 2008 Page 1

0-1-8

1-3-0 — 1-11-8 — 0-1-8

Scale = 1:25.3



1-6-0 — 4-0-0 — 11-2-8 — 13-8-8 — 15-2-8

1-6-0 — 2-6-0 — 7-2-8 — 2-6-0 — 1-6-0

Plate Offsets (X,Y): [4:0-1-8,Edge], [5:0-1-8,0-0-0], [8:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,0-1-0], [18:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.17	Vert(LL)	-0.04	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.23	Vert(TL)	-0.06	13-14	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 lb	

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

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

REACTIONS (lb/size) 16=816/0-6-0, 9=816/Mechanical, 9=816/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 16-17=-811/0, 1-17=-810/0, 9-18=-811/0, 8-18=-810/0, 1-2=-812/0, 2-3=-1930/0, 3-4=-2513/0, 4-5=-2513/0, 5-6=-2513/0, 6-7=-1930/0, 7-8=-812/0
BOT CHORD 15-16=0/42, 14-15=0/1525, 13-14=0/2308, 12-13=0/2513, 11-12=0/2308, 10-11=0/1525, 9-10=0/42
WEBS 8-10=0/1047, 1-15=0/1047, 7-10=-991/0, 2-15=-991/0, 7-11=0/564, 2-14=0/564, 6-11=-525/0, 3-14=-525/0, 6-12=-9/520, 3-13=-9/520, 4-13=-261/0, 5-12=-261/0

NOTES (6)
1) Trusses to be fastened together to act as a single unit. All loads to be distributed equally over the 3 plies.
2) Unbalanced floor live loads have been considered for this design.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

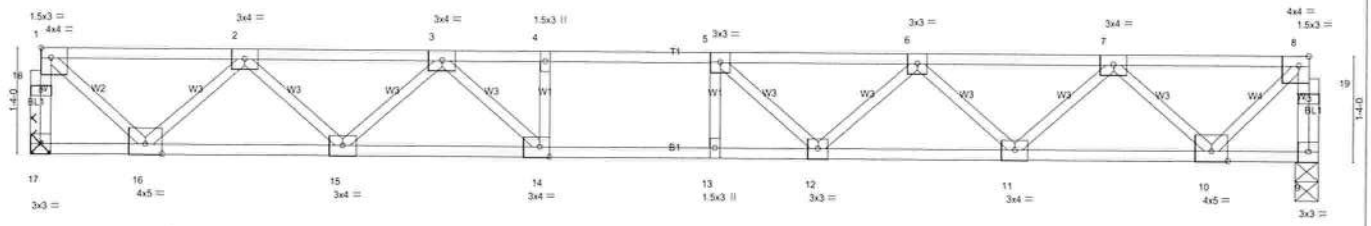
Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F06	FLOOR	6	1	L288061F006
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:23 2008 Page 1

0-1-8

1-2-8 1-3-0 2-0-8 1-1-4 0-1-8

Scale = 1:27.5



16-4-4

16-4-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.61	Vert(LL)	-0.18	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.78	Vert(TL)	-0.28	12-13	>697	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

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

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

REACTIONS (lb/size) 17=879/Mechanical, 9=879/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 17-18=-877/0, 1-18=-876/0, 9-19=-876/0, 8-19=-875/0, 1-2=-863/0, 2-3=-2104/0, 3-4=-2905/0, 4-5=-2905/0, 5-6=-2764/0, 6-7=-2080/0, 7-8=-796/0
BOT CHORD 16-17=0/45, 15-16=0/1637, 14-15=0/2569, 13-14=0/2905, 12-13=0/2905, 11-12=0/2562, 10-11=0/1577, 9-10=0/45
WEBS 8-10=0/1080, 1-16=0/1128, 7-10=-1087/0, 2-16=-1078/0, 7-11=0/699, 2-15=0/649, 6-11=-670/0, 3-15=-647/0, 6-12=0/386, 3-14=0/673, 5-12=-442/78, 4-14=-292/0, 5-13=-181/103

NOTES (4)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F07	FLOOR	1	1	L288061F007 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:24 2008 Page 1

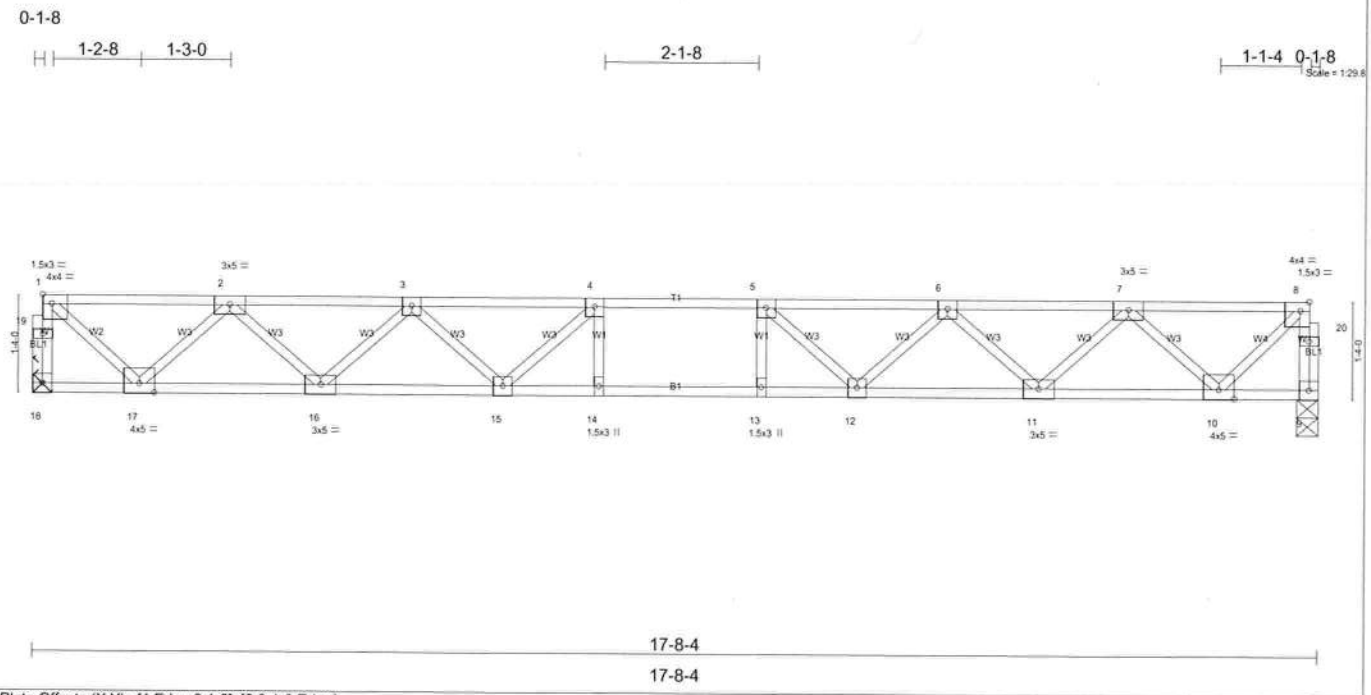


Plate Offsets (X,Y): [1:Edge,0-1-8], [8:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.47	Vert(LL)	-0.20	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.79	Vert(TL)	-0.31	14-15	>684	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.06	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 91 lb	

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

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

REACTIONS (lb/size) 18=953/Mechanical, 9=953/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 18-19=-948/0, 1-19=-947/0, 9-20=-948/0, 8-20=-947/0, 1-2=-938/0, 2-3=-2353/0, 3-4=-3165/0, 4-5=-3431/0, 5-6=-3142/0, 6-7=-2305/0, 7-8=-870/0
BOT CHORD 17-18=0/49, 16-17=0/1791, 15-16=0/2888, 14-15=0/3431, 13-14=0/3431, 12-13=0/3431, 11-12=0/2853, 10-11=0/1730, 9-10=0/49
WEBS 8-10=0/1182, 1-17=0/1226, 7-10=-1196/0, 2-17=-1187/0, 7-11=0/800, 2-16=0/782, 6-11=-761/0, 3-16=-744/0, 6-12=0/486, 3-15=0/473, 5-12=-623/0, 4-15=-602/2, 4-14=-168/192, 5-13=-158/202

NOTES (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F07A	FLOOR	1	1	L288061F008 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:26 2008 Page 1

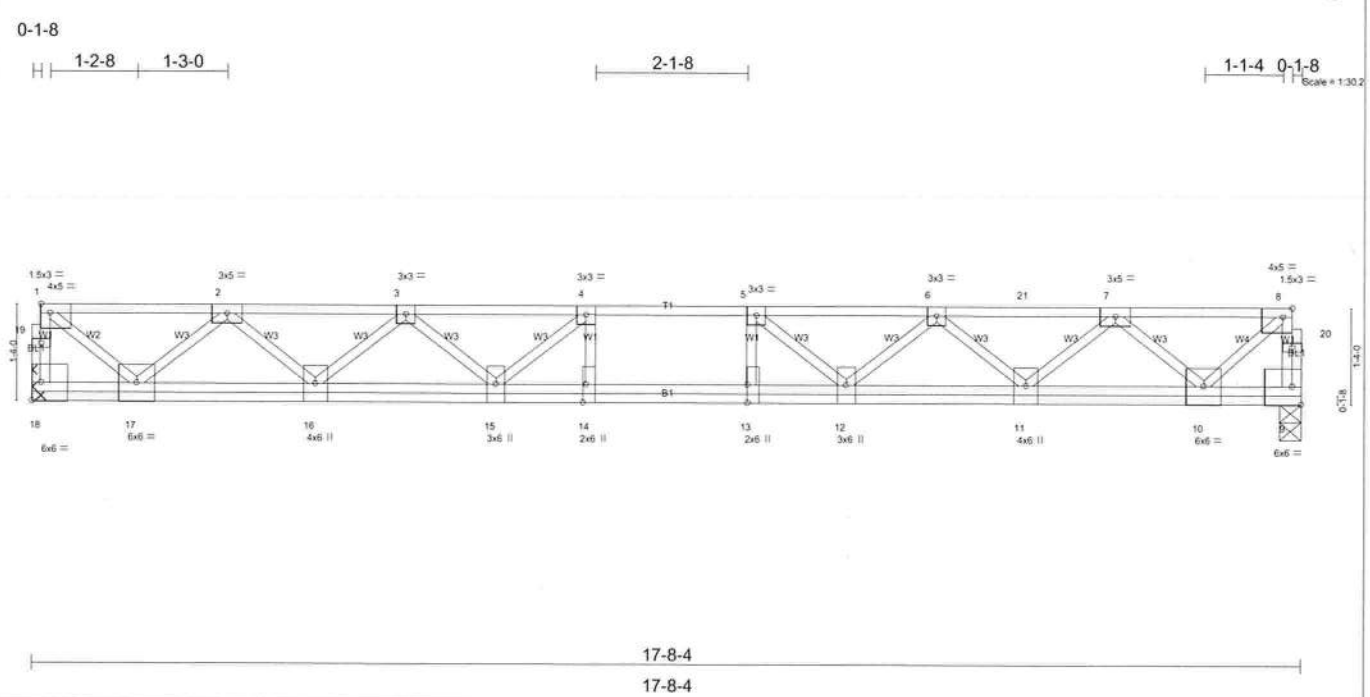


Plate Offsets (X,Y): [1:Edge,0-1-8], [8:0-1-8,Edge], [13:0-3-0,0-0-0], [14:0-3-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.65	Vert(LL)	-0.19	13	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.76	Vert(TL)	-0.30	13	>696	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.61	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 114 lb	

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

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

REACTIONS (lb/size) 18=991/Mechanical, 9=1288/0-3-8

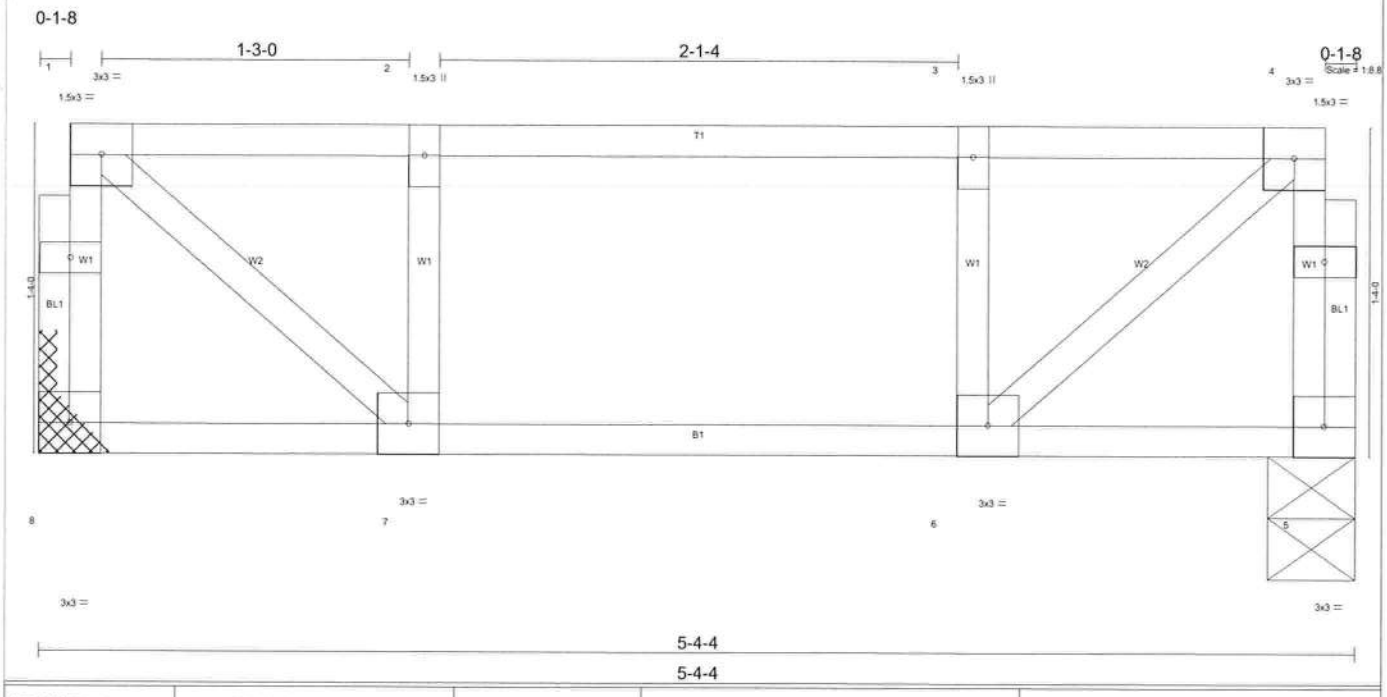
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 18-19=-984/0, 1-19=-982/0, 9-20=-1282/0, 8-20=-1280/0, 1-2=-1031/0, 2-3=-2605/0, 3-4=-3539/0, 4-5=-3904/0, 5-6=-3678/0, 6-21=-2875/0, 7-21=-2875/0, 7-8=-1159/0
BOT CHORD 17-18=0/54, 16-17=0/1973, 15-16=0/3205, 14-15=0/3904, 13-14=0/3904, 12-13=0/3904, 11-12=0/3418, 10-11=0/2306, 9-10=0/70
WEBS 8-10=0/1526, 1-17=0/1316, 7-10=-1556/0, 2-17=-1278/0, 7-11=0/772, 2-16=0/858, 6-11=-737/0, 3-16=-813/0, 6-12=0/422, 3-15=0/528, 5-12=-548/97, 4-15=-742/0, 4-14=-146/284, 5-13=-246/184

NOTES (6)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Girder carries tie-in span(s): 5-4-4 at 13-10-8 to 6-8-10 at 17-10-8.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-10, 1-21=-100
Trapezoidal Loads (plf)
Vert: 21=-184(F=-84)-to-8=-222(F=-122)

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F08	FLOOR	1	1	L288061F009 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:27 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.19	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.12	Vert(TL)	-0.01	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb	

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

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

REACTIONS (lb/size) 8=275/Mechanical, 5=275/0-4-4

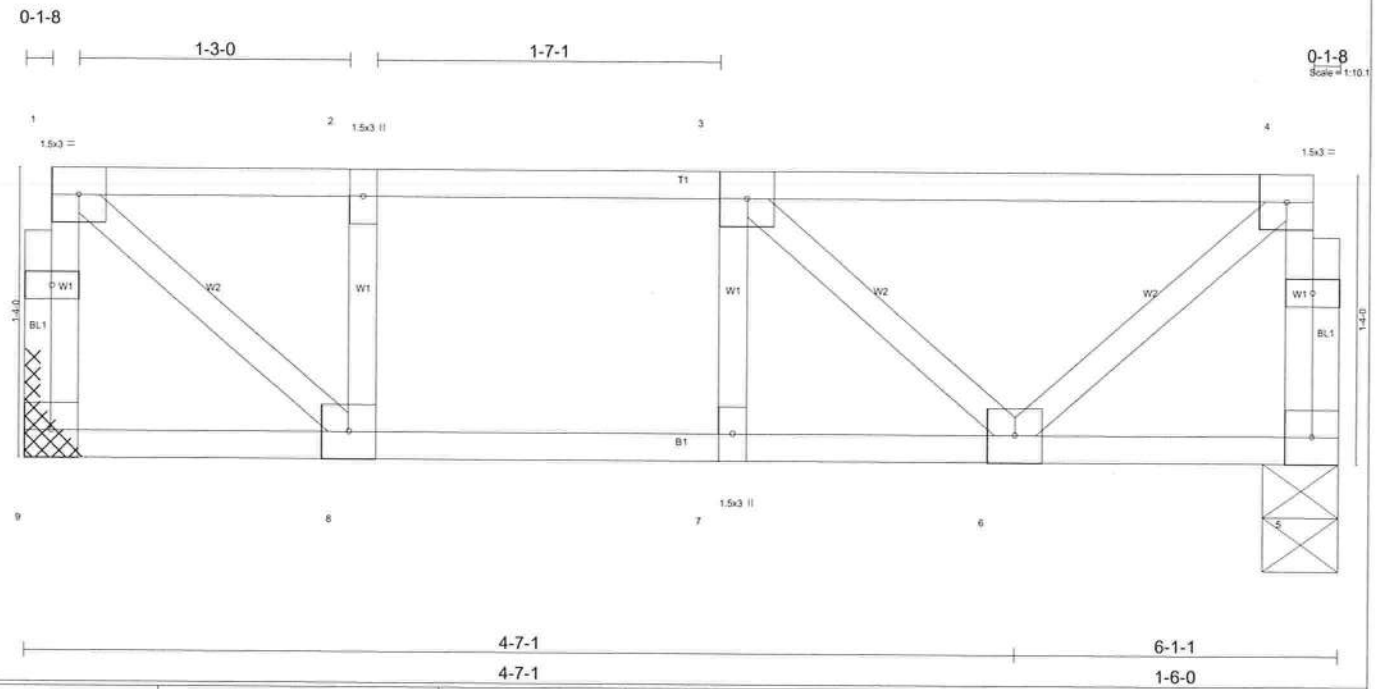
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 8-9=-269/0, 1-9=-269/0, 5-10=-269/0, 4-10=-269/0, 1-2=-271/0, 2-3=-271/0, 3-4=-271/0
BOT CHORD 7-8=0/14, 6-7=0/271, 5-6=0/14
WEBS 4-6=0/342, 1-7=0/342, 2-7=-206/0, 3-6=-206/0

NOTES (4-5)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
5) Use Simpson THA422 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F09	FLOOR	1	1	L288061F010 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:29 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.36	Vert(LL)	-0.03	7	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.36	Vert(TL)	-0.05	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 34 lb	

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

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

REACTIONS (lb/size) 9=315/Mechanical, 5=315/0-4-4

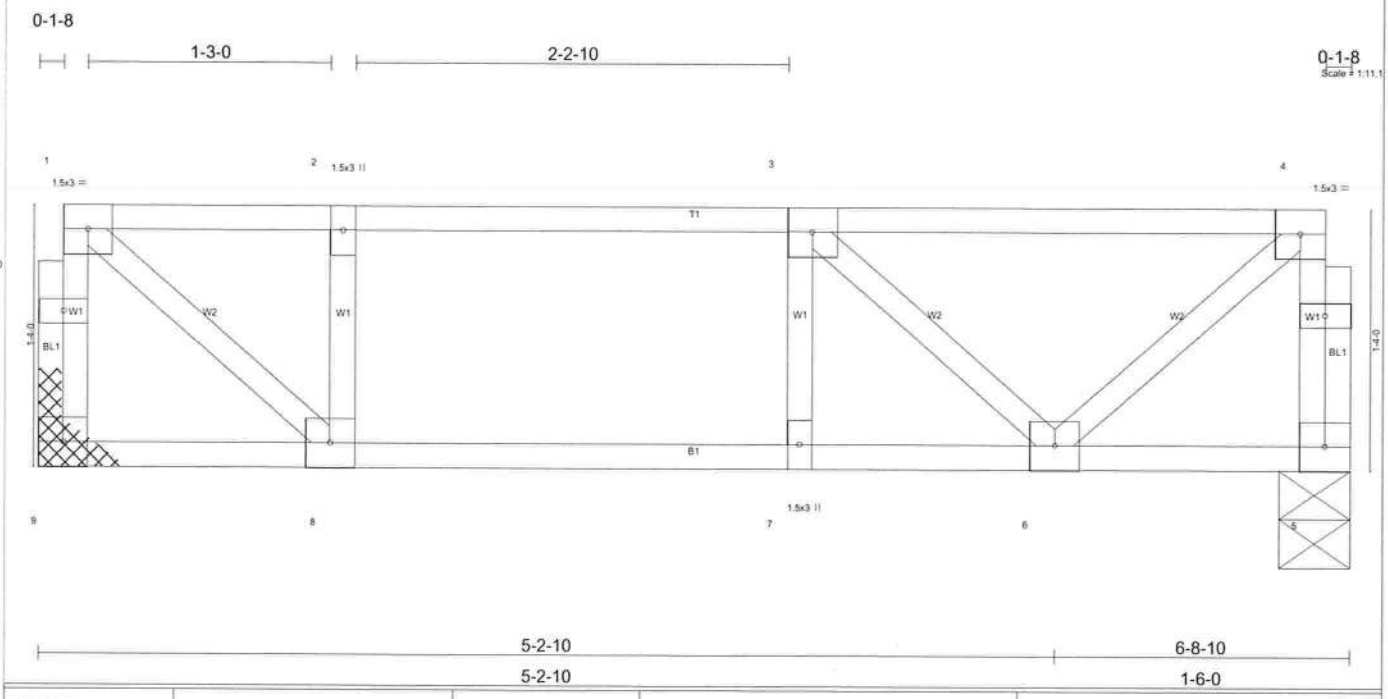
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 9-10=-341/0, 1-10=-340/0, 5-11=-318/0, 4-11=-317/0, 1-2=-370/0, 2-3=-370/0, 3-4=-231/0
BOT CHORD 8-9=0/18, 7-8=0/370, 6-7=0/370, 5-6=0/16
WEBS 4-6=0/292, 1-8=0/470, 3-6=-189/0, 2-8=-206/0, 3-7=-108/0

NOTES (5-6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
6) Use Simpson THA422 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F10	FLOOR	1	1	L288061F011 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:30 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.39	Vert(LL)	-0.05	7	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.42	Vert(TL)	-0.07	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 36 lb	

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

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

REACTIONS (lb/size) 9=349/Mechanical, 5=349/0-4-4

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 9-10=-382/0, 1-10=-382/0, 5-11=-353/0, 4-11=-353/0, 1-2=-440/0, 2-3=-440/0, 3-4=-271/0
BOT CHORD 8-9=0/20, 7-8=0/440, 6-7=0/440, 5-6=0/18
WEBS 4-6=0/344, 1-8=0/560, 3-6=-229/0, 2-8=-263/0, 3-7=-103/0

NOTES (5-6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
6) Use Simpson THA422 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F11	FLOOR	8	1	L288061F012
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:32 2008 Page 1

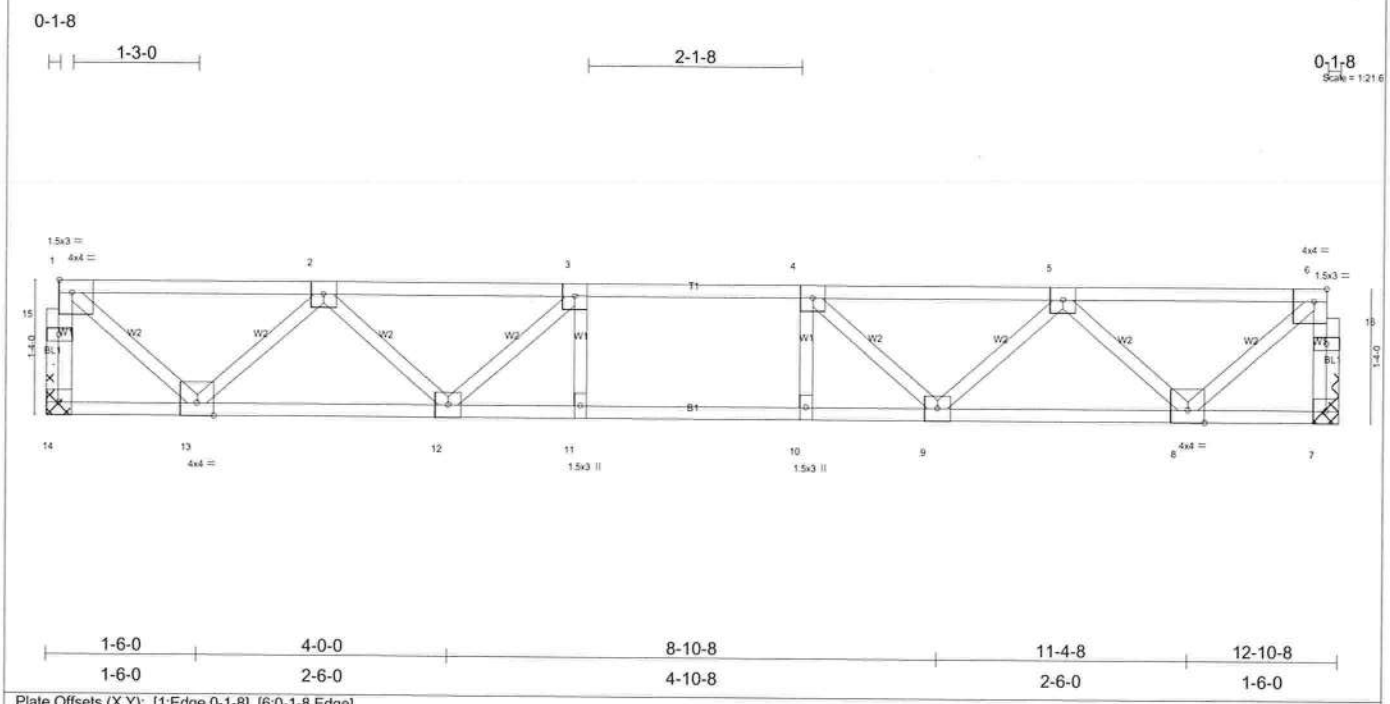


Plate Offsets (X,Y): [1:Edge,0-1-8], [6:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.38	Vert(LL)	-0.09	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.61	Vert(TL)	-0.12	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 67 lb	

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

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

REACTIONS (lb/size) 14=688/Mechanical, 7=688/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 14-15=-684/0, 1-15=-683/0, 7-16=-684/0, 6-16=-683/0, 1-2=-666/0, 2-3=-1520/0, 3-4=-1788/0, 4-5=-1520/0, 5-6=-666/0
BOT CHORD 13-14=0/35, 12-13=0/1245, 11-12=0/1788, 10-11=0/1788, 9-10=0/1788, 8-9=0/1245, 7-8=0/35
WEBS 6-8=0/858, 1-13=0/858, 5-8=-805/0, 2-13=-805/0, 5-9=0/402, 2-12=0/402, 4-9=-478/0, 3-12=-478/0, 3-11=-98/131, 4-10=-98/131

NOTES (5-6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
6) Use Simpson THA422 to attach Truss to Carrying member

LOAD CASE(S) Standard

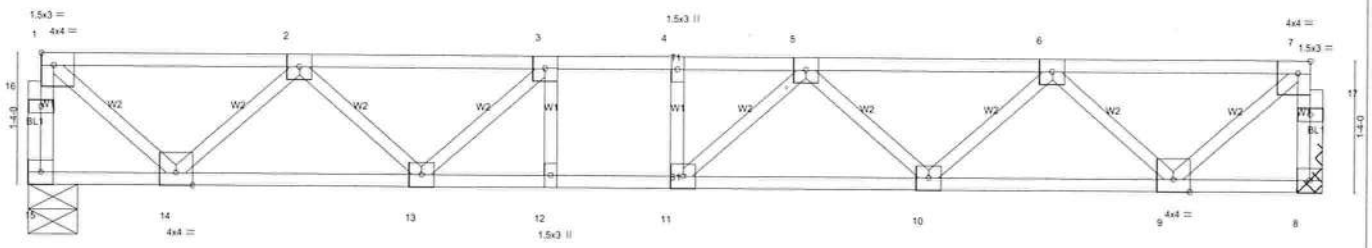
Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F11A	FLOOR	1	1	L288061F013 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:33 2008 Page 1

0-1-8

1-3-0 | 1-2-0 | 0-1-8

Scale = 1:22.1



1-6-0 | 4-0-0 | 9-2-0 | 11-8-0 | 13-2-0

1-6-0 | 2-6-0 | 5-2-0 | 2-6-0 | 1-6-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.37	Vert(LL)	-0.08	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.56	Vert(TL)	-0.12	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.03	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 70 lb	

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

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

REACTIONS (lb/size) 15=704/0-6-0, 8=704/Mechanical

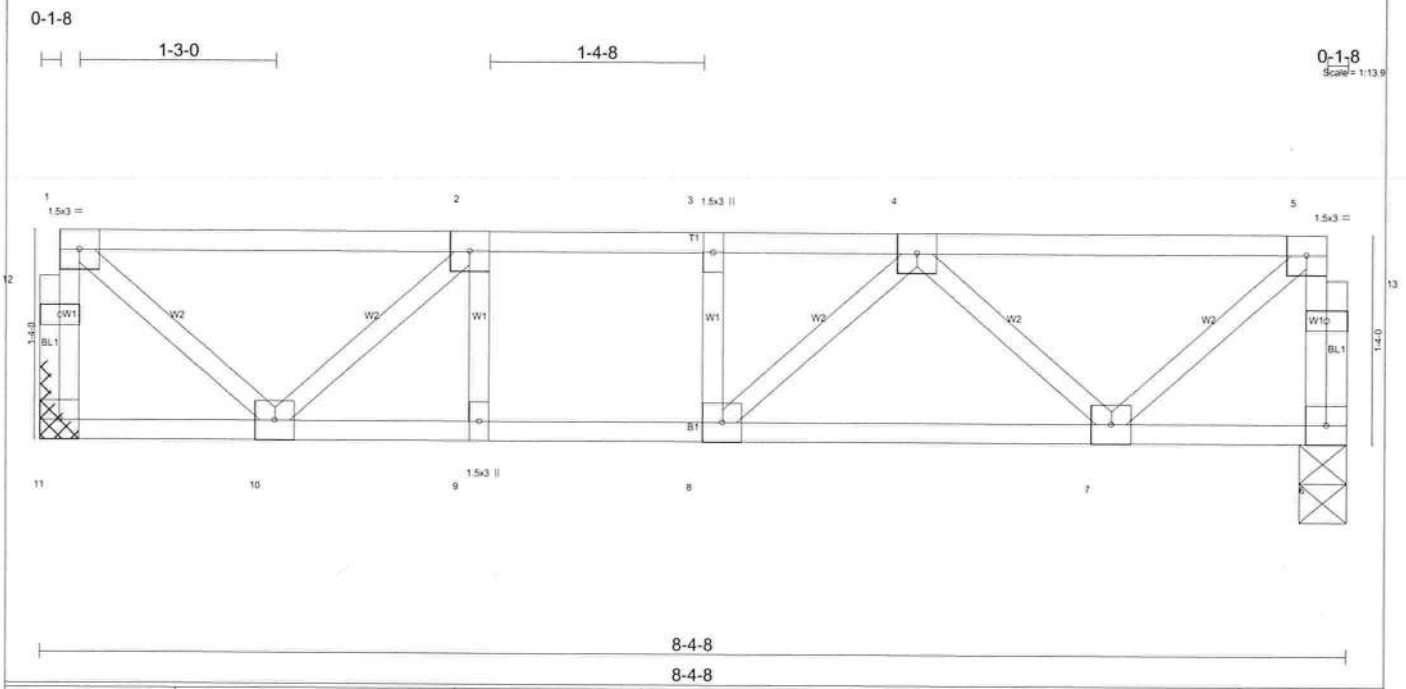
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 15-16=-700/0, 1-16=-699/0, 8-17=-698/0, 7-17=-698/0, 1-2=-685/0, 2-3=-1571/0, 3-4=-1872/0, 4-5=-1872/0, 5-6=-1576/0, 6-7=-683/0
BOT CHORD 14-15=0/36, 13-14=0/1278, 12-13=0/1872, 11-12=0/1872, 10-11=0/1835, 9-10=0/1281, 8-9=0/36
WEBS 7-9=0/879, 1-14=0/882, 6-9=-832/0, 2-14=-825/0, 6-10=0/410, 2-13=0/414, 5-10=-360/0, 3-13=-474/0, 5-11=-138/280, 3-12=-64/133, 4-11=-114/17

NOTES (5-6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
6) Use Simpson THA422 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F12	FLOOR	10	1	L288061F014
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:35 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.35	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.33	Vert(TL)	-0.05	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 lb	

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

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

REACTIONS (lb/size) 11=441/Mechanical, 6=441/0-3-8

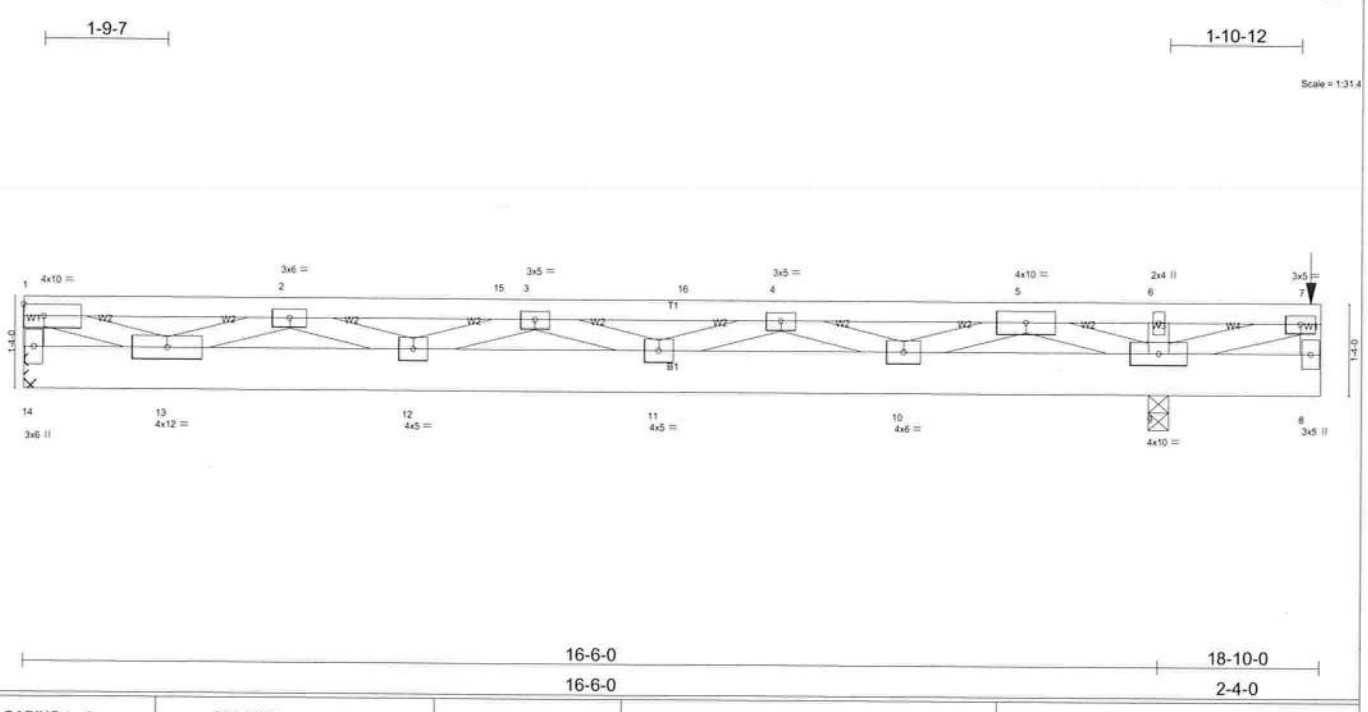
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 11-12=-433/0, 1-12=-433/0, 6-13=-438/0, 5-13=-438/0, 1-2=-379/0, 2-3=-730/0, 3-4=-730/0, 4-5=-385/0
BOT CHORD 10-11=0/22, 9-10=0/730, 8-9=0/730, 7-8=0/702, 6-7=0/23
WEBS 5-7=0/493, 1-10=0/485, 4-7=-440/0, 2-10=-477/0, 4-8=-56/192, 2-9=-38/100, 3-8=-72/0

NOTES (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	FGT	FLOOR	1	2	L288061F015 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:36 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.86	Vert(LL)	-0.22	11-12	>881	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.63	Vert(TL)	-0.54	11-12	>361	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 231 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.2, W1 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-9.

REACTIONS (lb/size) 14=3168/Mechanical, 9=4460/0-3-8
Max Grav 14=3179(load case 2), 9=4460(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-2344/0, 7-8=-346/0, 1-2=-4960/0, 2-15=-11016/0, 3-15=-11016/0, 3-16=-12005/0, 4-16=-12005/0, 4-5=-7762/0, 5-6=0/410, 6-7=0/410
BOT CHORD 13-14=0/940, 12-13=0/8822, 11-12=0/12348, 10-11=0/10771, 9-10=0/4616, 8-9=-82/0
WEBS 6-9=-615/0, 1-13=0/4422, 2-13=-4311/0, 2-12=0/2528, 3-12=-1491/0, 3-11=-611/0, 4-11=0/1625, 4-10=-3386/0, 5-10=0/3523, 5-9=-5220/0, 7-9=-375/0

NOTES (12-13)
1) Special connection required to distribute top chord loads equally between all plies.
2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 2 rows at 0-2-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced floor live loads have been considered for this design.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Refer to girder(s) for truss to truss connections.
7) Load case(s) 1, 2, 3, 4, 5 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Girder carries tie-in span(s): 3-0-0 from 0-0-0 to 18-10-0; 7-8-8 from 0-0-0 to 18-10-0
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 240 lb down at 18-8-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
13) Use Simpson HGUS28-2 to attach Truss to Carrying member

LOAD CASE(S) Standard
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-159(F=-149), 1-7=-239(F=-120)
Concentrated Loads (lb)
Vert: 7=-240(F)
2) 1st unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-159(F=-149), 1-6=-239(F=-120), 6-7=-159(F=-120)
Concentrated Loads (lb)
Vert: 7=-240(F)
3) 2nd unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-159(F=-149), 1-6=-159(F=-120), 6-7=-239(F=-120)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	FGT	FLOOR	1	2	L288061F015 Job Reference (optional)

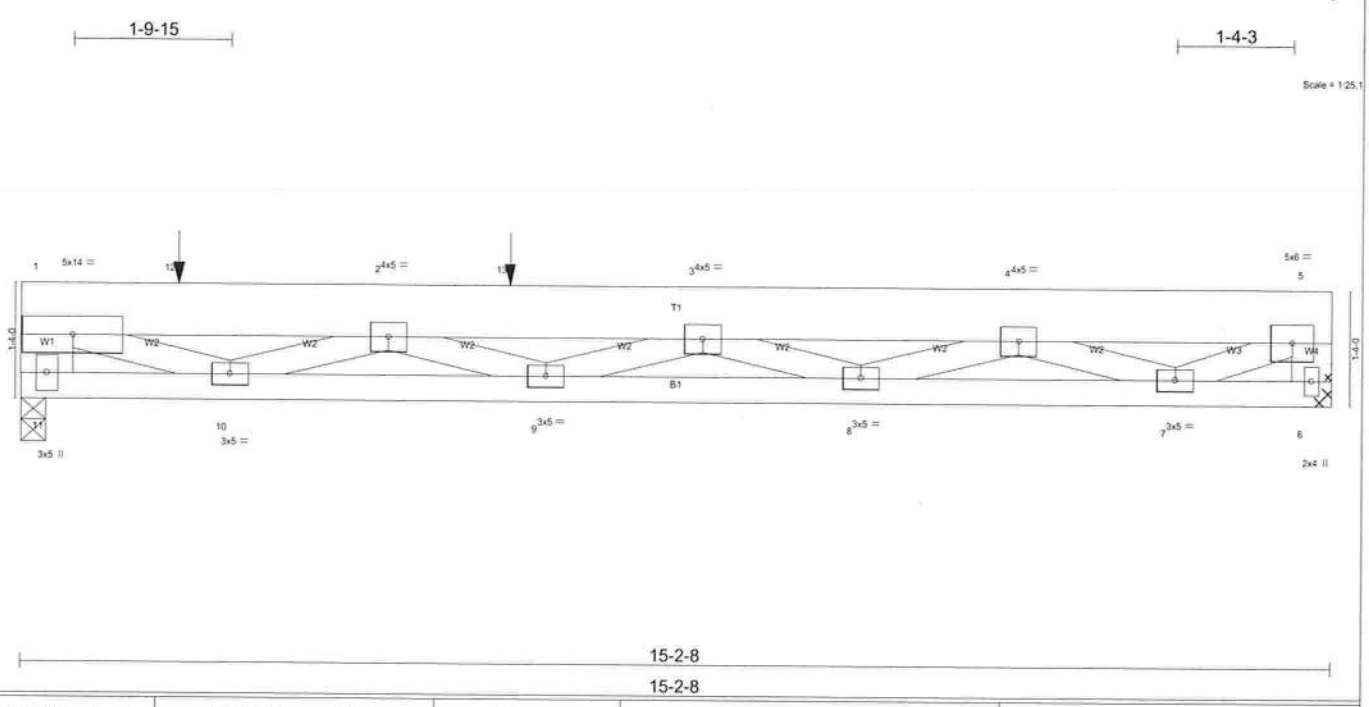
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-240(F)
4) 1st chase Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-159(F=-149), 1-16=-239(F=-120), 6-16=-159(F=-120), 6-7=-239(F=-120)
Concentrated Loads (lb)
Vert: 7=-240(F)
5) 2nd chase Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-159(F=-149), 1-15=-159(F=-120), 6-15=-239(F=-120), 6-7=-159(F=-120)
Concentrated Loads (lb)
Vert: 7=-240(F)

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	FGT3	FLOOR	1	3	L288061F016

Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:52:38 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.40	Vert(LL)	-0.12	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.69	Vert(TL)	-0.19	8-9	>935	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 280 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 8 SYP 2400F 2.0E, W4 2 X 6 SYP No.1D

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

REACTIONS (lb/size) 11=5445/0-3-8, 6=1627/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-5277/0, 5-6=-1525/0, 1-12=-7047/0, 2-12=-7047/0, 2-13=-9531/0, 3-13=-9531/0, 3-4=-6846/0, 4-5=-2511/0
BOT CHORD 10-11=0/3690, 9-10=0/10209, 8-9=0/8790, 7-8=0/4819, 6-7=0/623
WEBS 1-10=0/3635, 2-10=-3513/0, 2-9=-753/0, 3-9=0/824, 3-8=-2160/0, 4-8=0/2252, 4-7=-2565/0, 5-7=0/2165

NOTES (8)
1) Special connection required to distribute top chord loads equally between all plies.
2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 8 - 4 rows at 0-4-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Refer to girder(s) for truss to truss connections.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4498 lb down at 1-10-0, and 960 lb down at 5-8-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-11=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 12=-4498(F) 13=-960(F)

Job	Truss	Truss Type	Qty	Ply	NICKELSON / FLOOR
L288061F	F01	FLOOR	7	1	L288061F001
					Job Reference (optional)

LOAD CASE(S) Standard

5) 2nd chase Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 10-20=-10, 1-4=-20, 4-8=-100, 8-9=-20

Concentrated Loads (lb)

Vert: 1=-620(F) 9=-33(F)

STEPDOWN CORNER SET

TOP CHORD 2X4 SO. PINE #2 or Better
BOT CHORD 2X4 SO. PINE #2 or Better
WEBS 2X4 SO. PINE #3 or Better

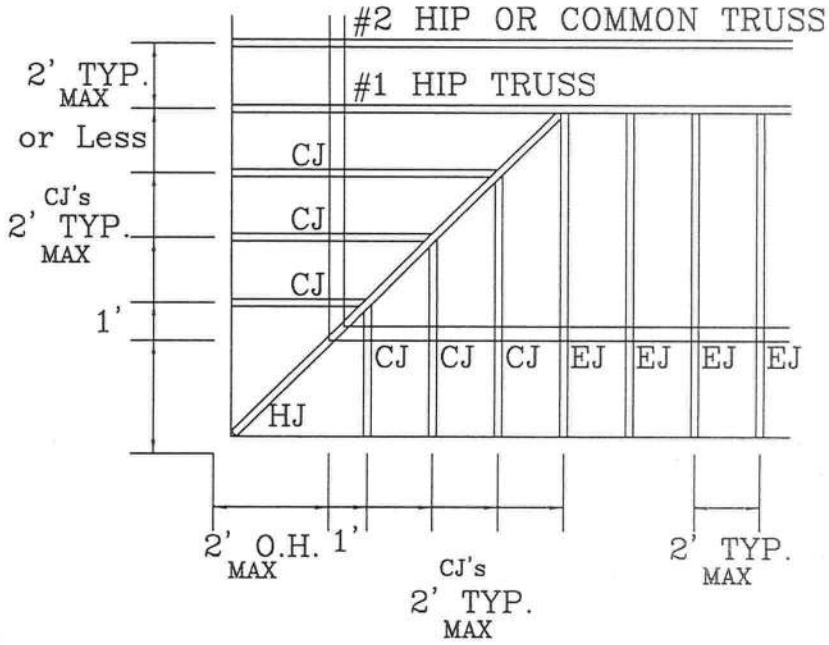
120 MPH MAX

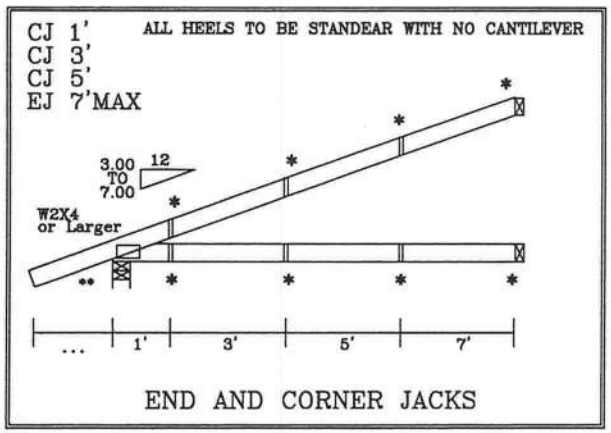
Setback 7' or Less

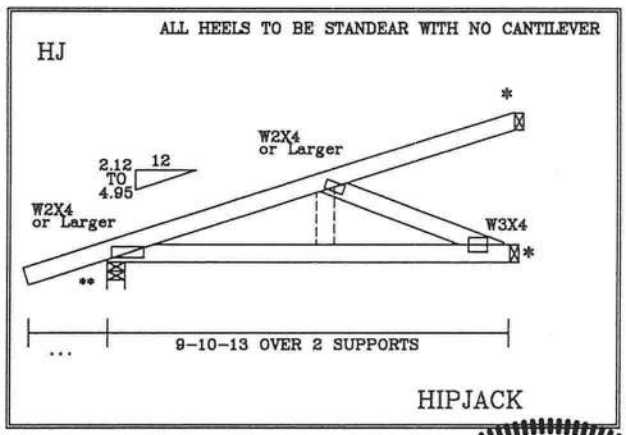
PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "B" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)







* (3) 16d TOENAILS

** SEE EOR FOR TIE DOWN

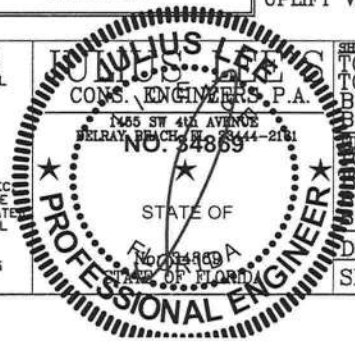
UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

CORNER SET SETBACK
7'0" MAX

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W,K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

JULIUS LEE
CONS. ENGINEERS, P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2101



SHINGLE		
TC	LL	20 MAX PSF
TC	DL	7 MAX PSF
BC	LL	10* MAX PSF
BC	DL	5 MAX PSF
TILE		
TC	LL	20 MAX PSF
TC	DL	20 MAX PSF
BC	LL	10* MAX PSF
BC	DL	5 MAX PSF
DUR. FAC.		1.25
SPACING		2' MAX

REF	7'MAX STBK CS
DATE	Jun./27/2008
DRWG	
-ENG	

REVIEWED
By julius lee at 10:52 am, Jun 27, 2008

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 4"	5' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"
		STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"
	SP DFL	#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#3	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"
		STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"
16" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 6"	9' 8"	12' 6"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 10"	6' 10"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	8' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	8' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 2"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	10' 6"	10' 8"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 6"	13' 6"	14' 0"	14' 0"
		STANDARD	4' 2"	6' 11"	6' 11"	7' 10"	7' 10"	10' 5"	10' 5"	12' 3"	12' 3"	14' 0"	14' 0"
	SP DFL	#1	4' 8"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	10' 6"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 2"	7' 2"	8' 9"	9' 2"	10' 5"	10' 11"	13' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 1"	7' 1"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 8"	12' 6"	12' 6"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

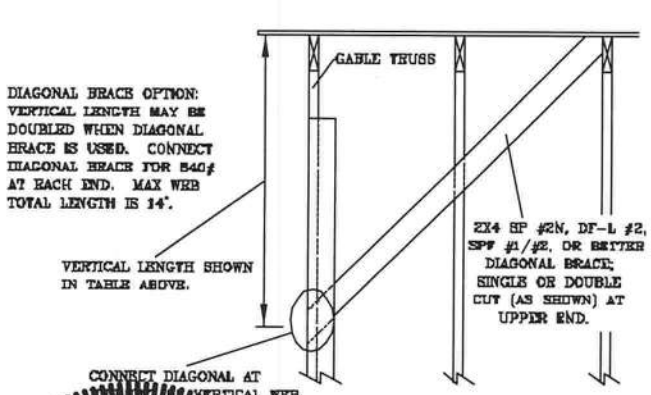
LIVE LOAD DEFLECTION CRITERIA IS L/240.

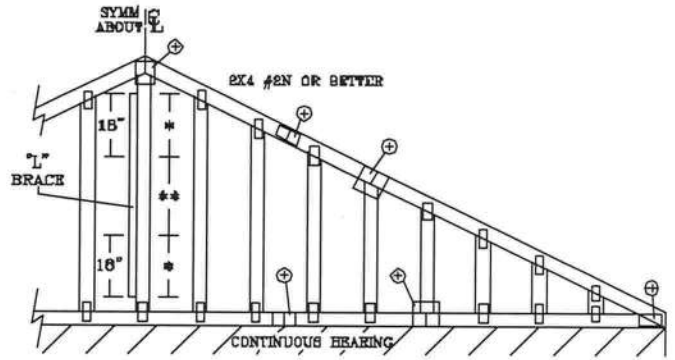
PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 12:00 pm, Jun 11, 2008

JULIUS LEE'S CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

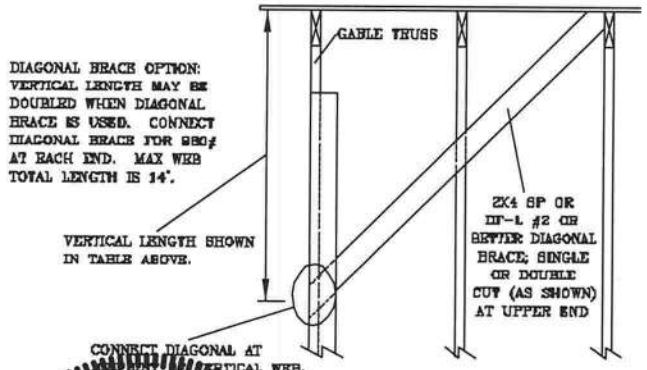
MAX. SPACING 24.0"

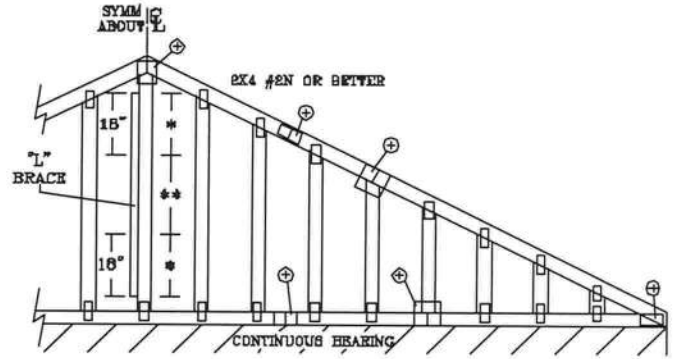
REF	ASCE7-02-GAB13015
DATE	11/26/03
DRWG	MITEK STD GABLE 15 E HT
	-ENG

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	6' 6"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 9"	3' 9"	6' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	10' 7"	10' 7"
	SP DFL	#1	3' 6"	5' 8"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#2	3' 5"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#3	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 5"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 5"
		STANDARD	3' 0"	3' 10"	3' 10"	5' 1"	5' 1"	6' 11"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"
16" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 6"	4' 6"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 6"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 8"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	13' 3"
12" O.C.	SPF HF	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	13' 4"	14' 0"	14' 0"
		#3	3' 11"	5' 3"	5' 3"	6' 3"	6' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	5' 3"	5' 3"	6' 3"	6' 3"	9' 10"	9' 10"	12' 10"	12' 10"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 5"	5' 11"	7' 5"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#2	4' 4"	5' 11"	7' 5"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#3	4' 2"	5' 5"	6' 5"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 3"	14' 0"	14' 0"
		STUD	4' 2"	5' 4"	6' 4"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"	14' 0"
		STANDARD	4' 0"	5' 6"	5' 6"	7' 3"	7' 3"	9' 9"	9' 9"	11' 4"	11' 4"	14' 0"	14' 0"





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

⚠WARNING⚠ TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR, SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 12:00 pm, Jun 11, 2008

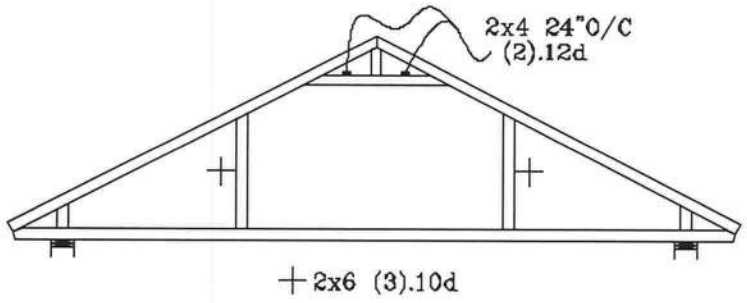
JULIUS LEE'S CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

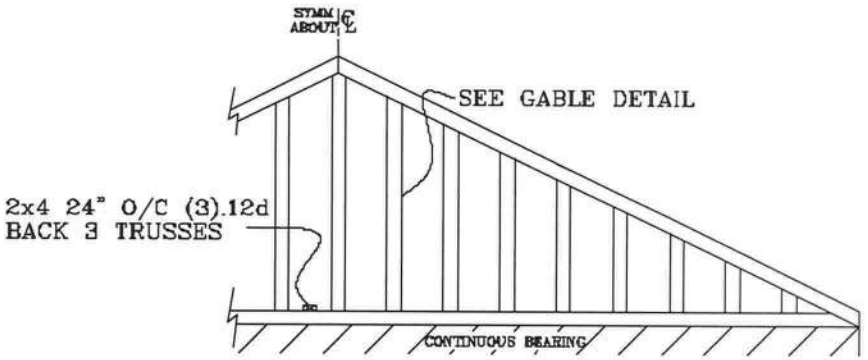
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MITEK STD GABLE 90' E H7
-ENG

TYPICAL ATTIC TRUSS BRACING

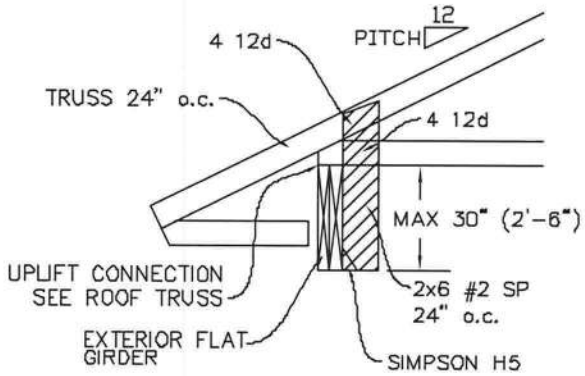


GABLE END TRUSS DETAIL



MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

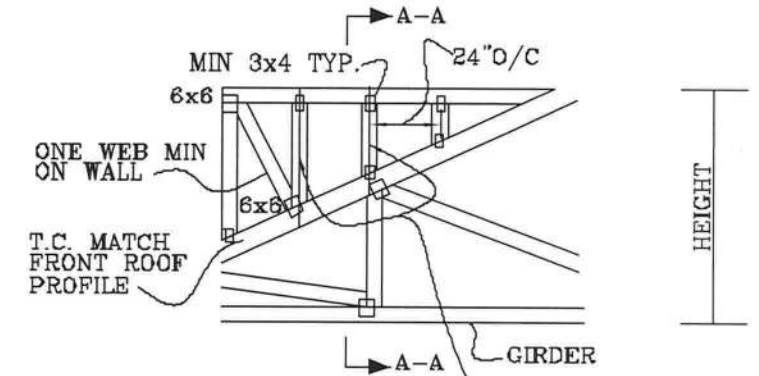
TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

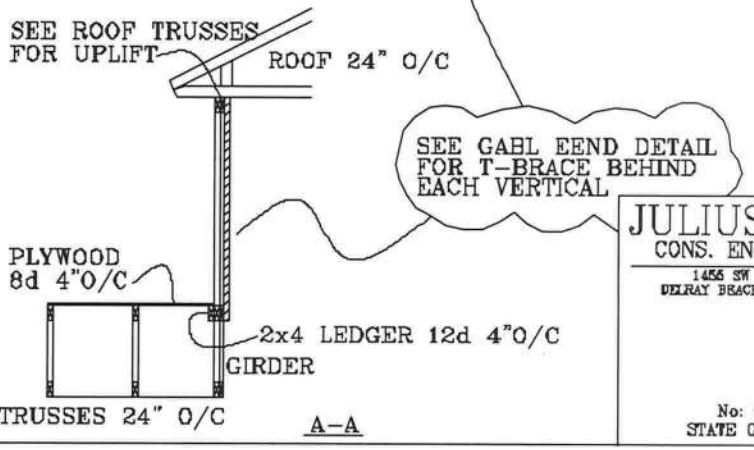


REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE
LICENSE
NO. 34869
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

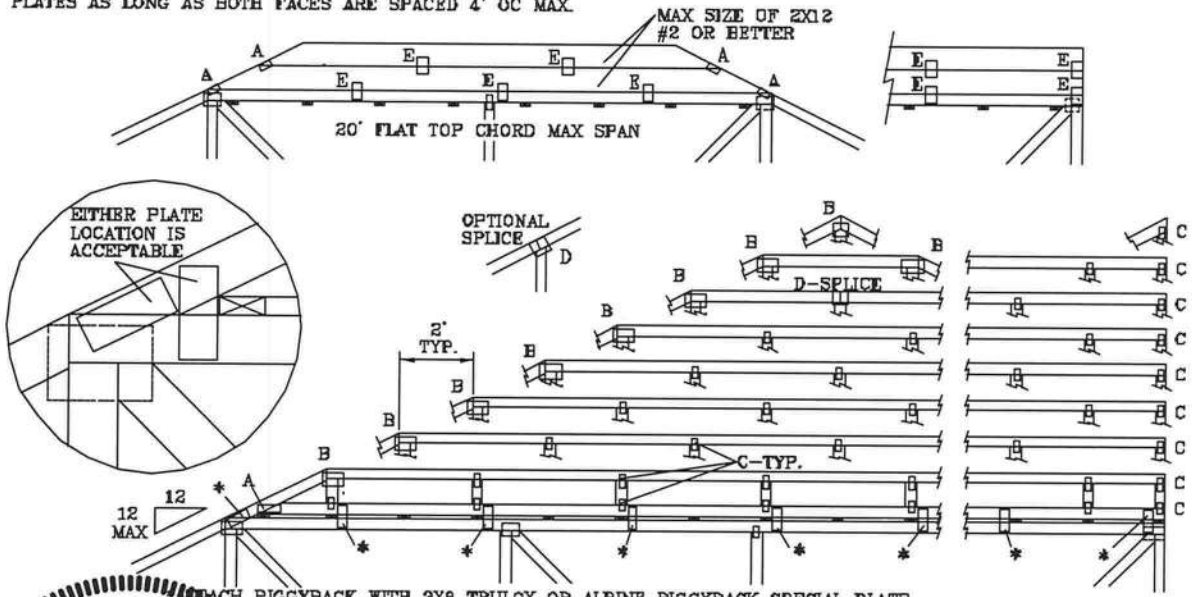
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

- 110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

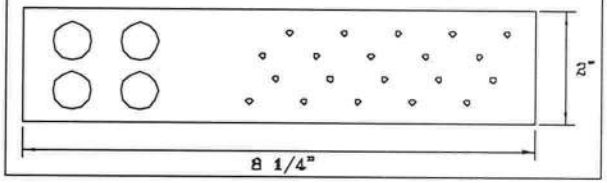


ATTACH PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (1-03 BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF	PIGGYBACK
DATE	09/12/07
DRWG	MITEK STD PIGGY
-	ENG JL

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

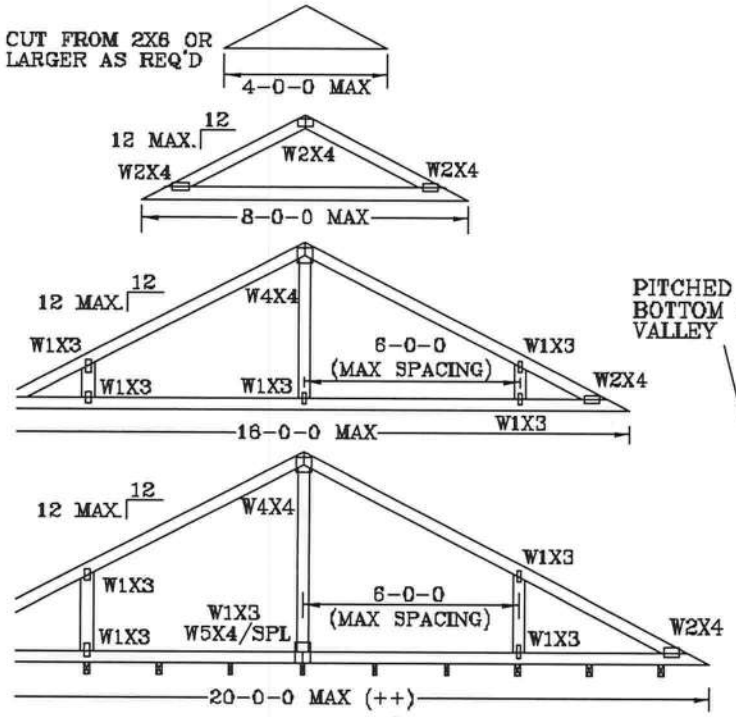
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

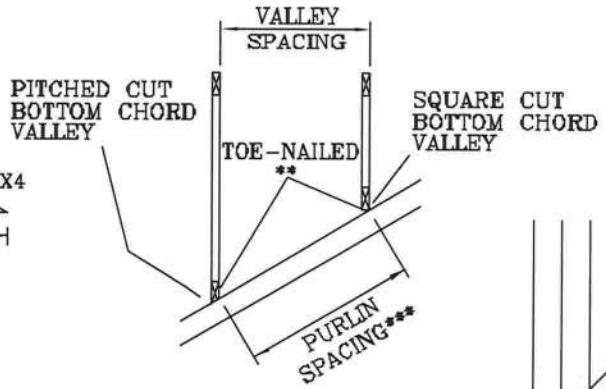
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

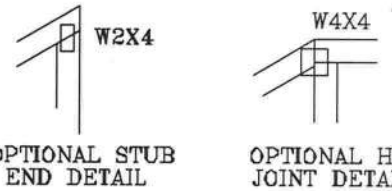
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

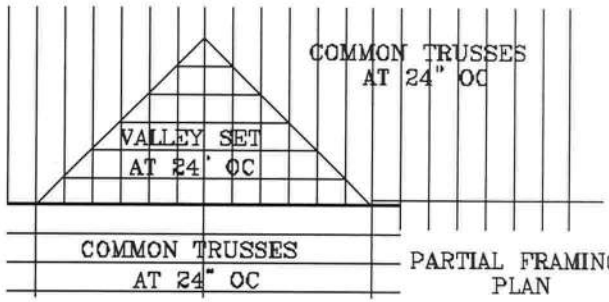
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	20	20	PSF	REF VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/03
BC DL	5	5	PSF	DRWG VALTRUSS1103
BC LL	0	0	PSF	-ENG JL
TOT. LD.	32	40	PSF	
DURFAC. 1.25		1.25		
SPACING		24"		

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

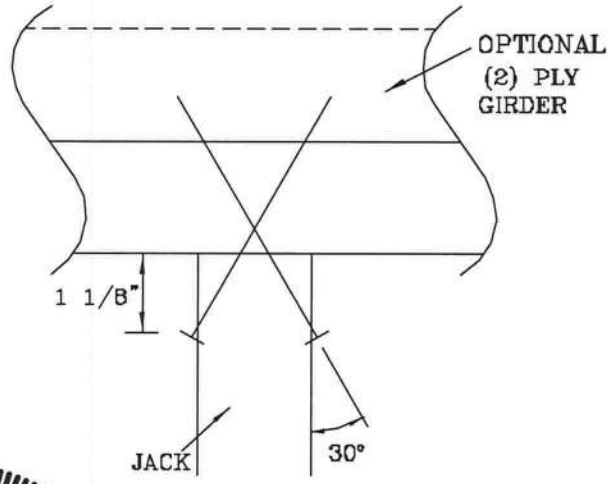
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

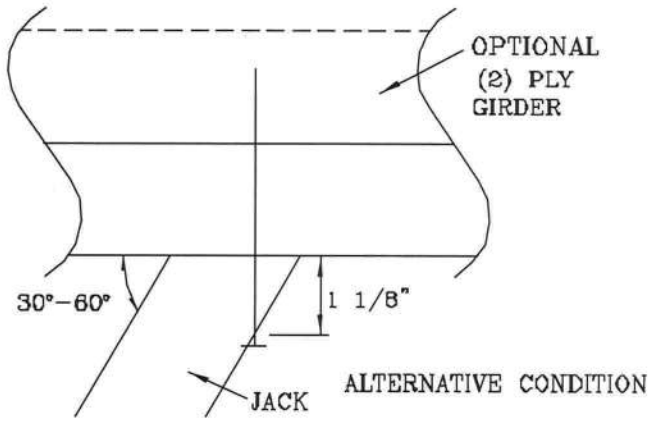
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

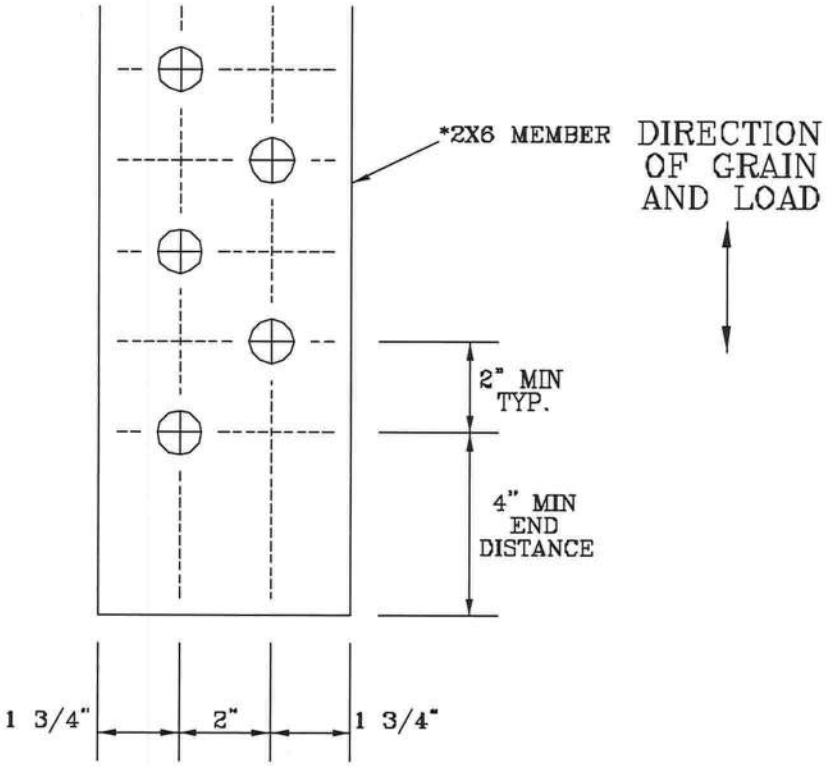
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

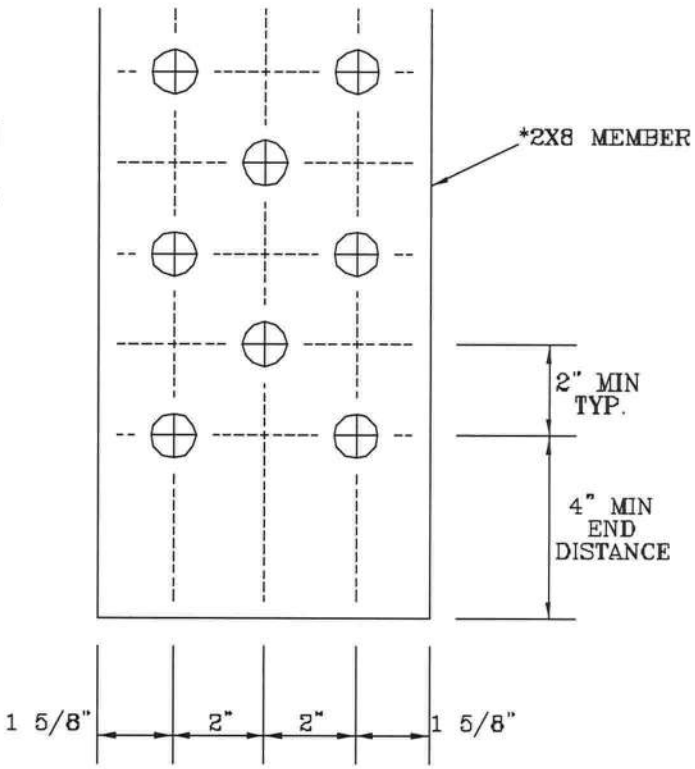
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF BOLT SPACING
TC DL	PSF	DATE 11/26/03
BC DL	PSF	DRWG CNBOLTSP1103
BC LL	PSF	-ENG JL
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

TRULOX CONNECTION DETAIL

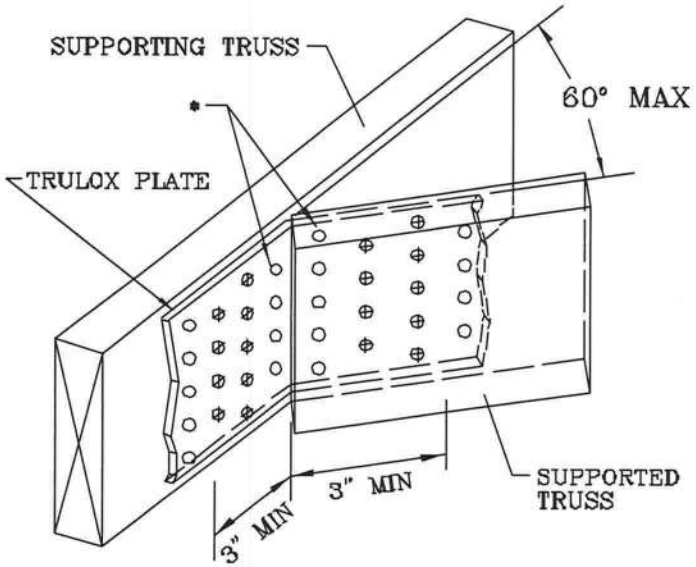
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

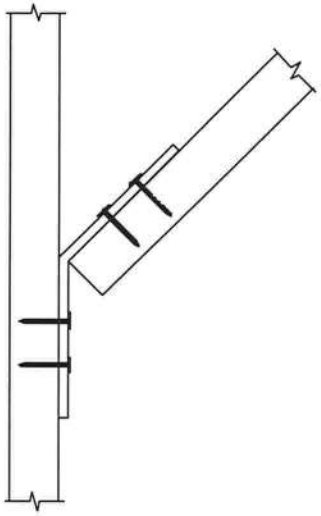
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

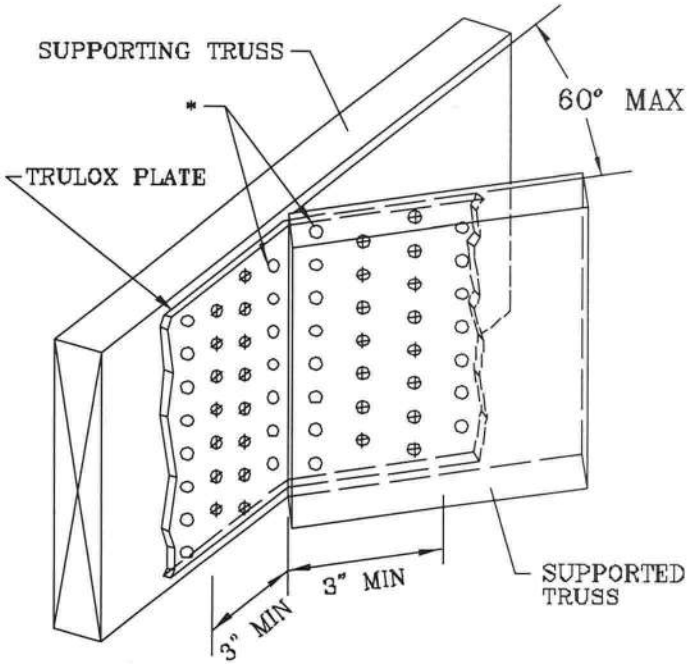
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	15	990#

REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

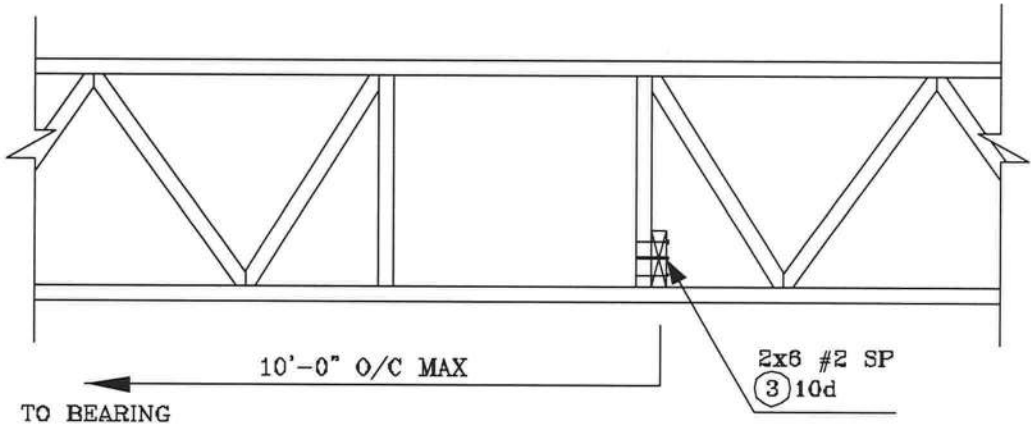
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

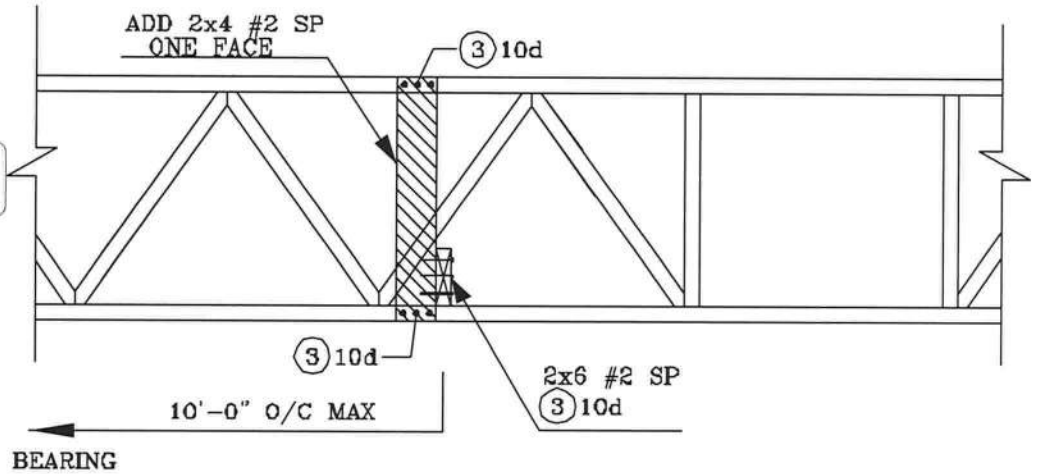
No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

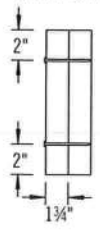
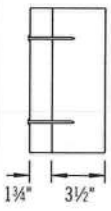
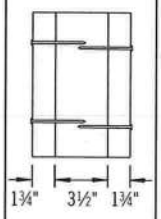
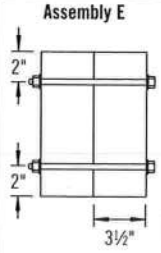
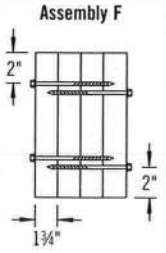
JULIUS LEE
LICENSE
NO. 34869
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A 	Assembly B 	Assembly C 	Assembly D 	Assembly E 	Assembly F 
			3½" 2-ply	5¼" 3-ply	5¼" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail[1]	2	12"	370	***280***	280	***245***		
	3	12"	555	***415***	415	***370***		
½" A307 Through Bolts[2][4]	2	24"	505	380	520	465	860	340
		19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
SDS ¼" x 3½"[4]	2	24"	680	***510***	510	***455***		
		19.2"	850	***640***	640	***565***		
		16"	1,020	***765***	765	***680***		
SDS ¼" x 6"[3][4]	2	24"				***455***	***465***	***455***
		19.2"				***565***	***580***	***565***
		16"				***680***	***695***	***680***
USP WS35 [4]	2	24"	480	***360***	360	***320***		
		19.2"	600	***450***	450	***400***		
		16"	715	***540***	540	***480***		
USP WS6 [3][4]	2	24"				***350***	***525***	***350***
		19.2"				***440***	***660***	***440***
		16"				***525***	***790***	***525***
3⅜" TrussLok[4]	2	24"	635	***475***	475	***425***		
		19.2"	795	***595***	595	***530***		
		16"	955	***715***	715	***635***		
5" TrussLok[4]	2	24"		***500***	500	***445***	***480***	***445***
		19.2"		***625***	625	***555***	***600***	***555***
		16"		***750***	750	***665***	***725***	***665***
6¾" TrussLok[4]	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665

(1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

(2) Washers required. Bolt holes to be 9/16" maximum.

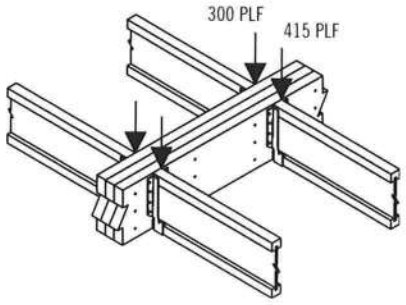
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(4) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- ***Bold Italic*** cells indicate **Connector Pattern** must be installed on both sides. Stagger fasteners on opposite side of beam by ½ the required **Connector Spacing**.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example

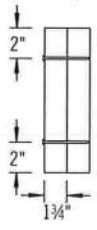
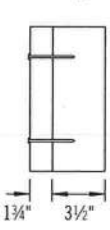
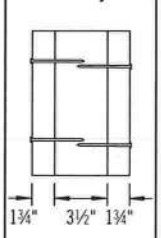
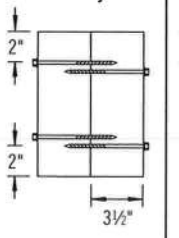
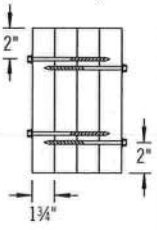


First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1¾" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:
Two rows of ½" bolts or SDS ¼" x 3½" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	Connector Pattern: Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3½" 2-ply	5¼" 3-ply	5¼" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail	6	1,110	***835***	835	***740***		
	12	2,225	***1,670***	1,670	***1,485***		
	18	3,335	***2,505***	2,505	***2,225***		
	24	4,450	***3,335***	3,335	***2,965***		
SDS Screws ¼" x 3½" or WS35 ¼" x 6" or WS6[1]	4	1,915	1,435[4]	1,435	***1,275***	***1,860***[2]	***1,405***[2]
	6	2,870	2,150 [4]	2,150	***1,915***	***2,785***[2]	***2,110***[2]
	8	3,825	2,870 [4]	2,870	***2,550***	***3,715***[2]	***2,810***[2]
3⅜" or 5" TrussLok™	4	2,545	1,910 [4]	1,910	***1,695***	***1,925***[3]	***1,775***[3]
	6	3,815	2,860 [4]	2,860	***2,545***	***2,890***[3]	***2,665***[3]
	8	5,090	3,815 [4]	3,815	***3,390***	***3,855***[3]	***3,550***[3]

(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

See General Notes on page 38

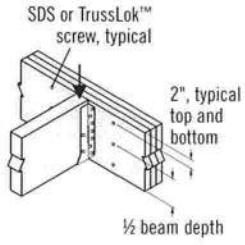
(2) 6" long screws required.

(3) 5" long screws required.

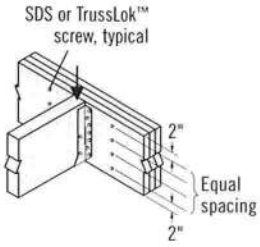
(4) 3½" and 3⅜" long screws must be installed on both sides.

Connections

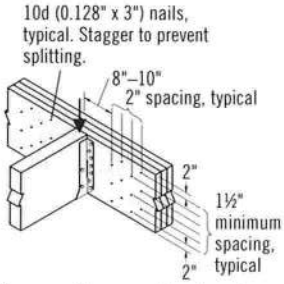
4 or 6 or Screw Connection



8 Screw Connection

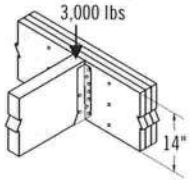


Nail Connection



There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1¾" x 14" beam is capable of supporting the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply 1¾" assembly, eight 3⅜" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

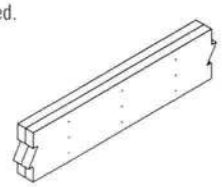
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1¾" Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d–16d (0.148"–0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3⅜" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3½" Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of ½" bolts at 24" on-center staggered.



Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

Builders FirstSource

HLAKMF

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project Information:

Builder: Cash Account
Model: custom
Builders FirstSource Job #: L288061
Street: 440 SW Emerywood Glen
City: Lake City
County: Columbia
Building Code: FBC2004/TPI2002
Computer Program Used: MiTek 6.3

Builders FirstSource
2525 E. Duval St.
Lake City, FL 32055

JULIUS LEE'S CONSULT. ENGR INC
1455 SW 4TH AVE , DELRAY BEACH
FLORIDA. 33444

Truss Design Information:

Gravity Loads
Roof: 32 psf Total
Floor: 55 psf Total

Wind
Wind Standard: ASCE 7-02
Wind Speed: 110 mph
Mean Roof Ht: 20 ft
Exposure: B

Note: Refer to individual truss design drawings for special loading conditions, design criteria, truss geometry, lumber, and plate information.

Design Professional Information:

Design Professional Of Record: BUILDER
License # :
Delegated Truss Engineer: Julius Lee
License # : 34869

This truss specification package consists of this index sheet and 99 truss design drawings. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of each truss component for any particular building is the responsibility of the building designer per TPI.

Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date
1	CJ1	L288061001	10/29/2008	31	PB1H	L288061031	10/29/2008	61	T05	L288061061	10/29/2008
2	CJ1A	L288061002	10/29/2008	32	PB2	L288061032	10/29/2008	62	T06	L288061062	10/29/2008
3	CJ3	L288061003	10/29/2008	33	PB2G	L288061033	10/29/2008	63	T07	L288061063	10/29/2008
4	EJ11	L288061004	10/29/2008	34	PB3	L288061034	10/29/2008	64	T08	L288061064	10/29/2008
5	EJ11A	L288061005	10/29/2008	35	PB3G	L288061035	10/29/2008	65	T09	L288061065	10/29/2008
6	EJ11B	L288061006	10/29/2008	36	PB4	L288061036	10/29/2008	66	T10	L288061066	10/29/2008
7	EJ11C	L288061007	10/29/2008	37	PB4A	L288061037	10/29/2008	67	T11	L288061067	10/29/2008
8	EJ11D	L288061008	10/29/2008	38	PB5	L288061038	10/29/2008	68	T12	L288061068	10/29/2008
9	EJ11E	L288061009	10/29/2008	39	PB5A	L288061039	10/29/2008	69	T13	L288061069	10/29/2008
10	EJ2	L288061010	10/29/2008	40	PB5B	L288061040	10/29/2008	70	T14	L288061070	10/29/2008
11	EJ2A	L288061011	10/29/2008	41	PB5C	L288061041	10/29/2008	71	T15	L288061071	10/29/2008
12	EJ2B	L288061012	10/29/2008	42	PB5D	L288061042	10/29/2008	72	T16	L288061072	10/29/2008
13	EJ3	L288061013	10/29/2008	43	PB6	L288061043	10/29/2008	73	T16A	L288061073	10/29/2008
14	EJ4	L288061014	10/29/2008	44	PB6A	L288061044	10/29/2008	74	T16B	L288061074	10/29/2008
15	EJ4G	L288061015	10/29/2008	45	PB7	L288061045	10/29/2008	75	T16C	L288061075	10/29/2008
16	EJ5	L288061016	10/29/2008	46	PB7A	L288061046	10/29/2008	76	T16D	L288061076	10/29/2008
17	EJ5A	L288061017	10/29/2008	47	PB7B	L288061047	10/29/2008	77	T17	L288061077	10/29/2008
18	EJ5B	L288061018	10/29/2008	48	PB8	L288061048	10/29/2008	78	T17A	L288061078	10/29/2008
19	EJ5C	L288061019	10/29/2008	49	PB8A	L288061049	10/29/2008	79	T17B	L288061079	10/29/2008
20	HJ2A	L288061020	10/29/2008	50	PB9	L288061050	10/29/2008	80	T17C	L288061080	10/29/2008
21	HJ7	L288061021	10/29/2008	51	T01G	L288061051	10/29/2008	81	T17D	L288061081	10/29/2008
22	PB1	L288061022	10/29/2008	52	T02	L288061052	10/29/2008	82	T18	L288061082	10/29/2008
23	PB10	L288061023	10/29/2008	53	T02A	L288061053	10/29/2008	83	T19	L288061083	10/29/2008
24	PB10G	L288061024	10/29/2008	54	T02B	L288061054	10/29/2008	84	T20	L288061084	10/29/2008
25	PB1A	L288061025	10/29/2008	55	T02G	L288061055	10/29/2008	85	T20A	L288061085	10/29/2008
26	PB1B	L288061026	10/29/2008	56	T03	L288061056	10/29/2008	86	T20B	L288061086	10/29/2008
27	PB1C	L288061027	10/29/2008	57	T03G	L288061057	10/29/2008	87	T20C	L288061087	10/29/2008
28	PB1D	L288061028	10/29/2008	58	T04	L288061058	10/29/2008	88	T20D	L288061088	10/29/2008
29	PB1E	L288061029	10/29/2008	59	T04A	L288061059	10/29/2008	89	T21	L288061089	10/29/2008
30	PB1F	L288061030	10/29/2008	60	T04B	L288061060	10/29/2008	90	T22	L288061090	10/29/2008

Project Information:	Builder: Cash Account	Builders FirstSource
	Model: custom	2525 E. Duval St.
	Builders FirstSource Job #: L288061	Lake City, FL 32055

This truss specification package consists of this index sheet and 99 truss design drawings. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of each truss component for any particular building is the responsibility of the building designer per TPI.

91	T22G	L288061091	10/29/2008									
92	T23	L288061092	10/29/2008									
93	T23A	L288061093	10/29/2008									
94	T23G	L288061094	10/29/2008									
95	T24	L288061095	10/29/2008									
96	T24A	L288061096	10/29/2008									
97	T24B	L288061097	10/29/2008									
98	T24G	L288061098	10/29/2008									
99	T25	L288061099	10/29/2008									

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	CJ1	JACK	2	1	L288061001
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:36:59 2008 Page 1

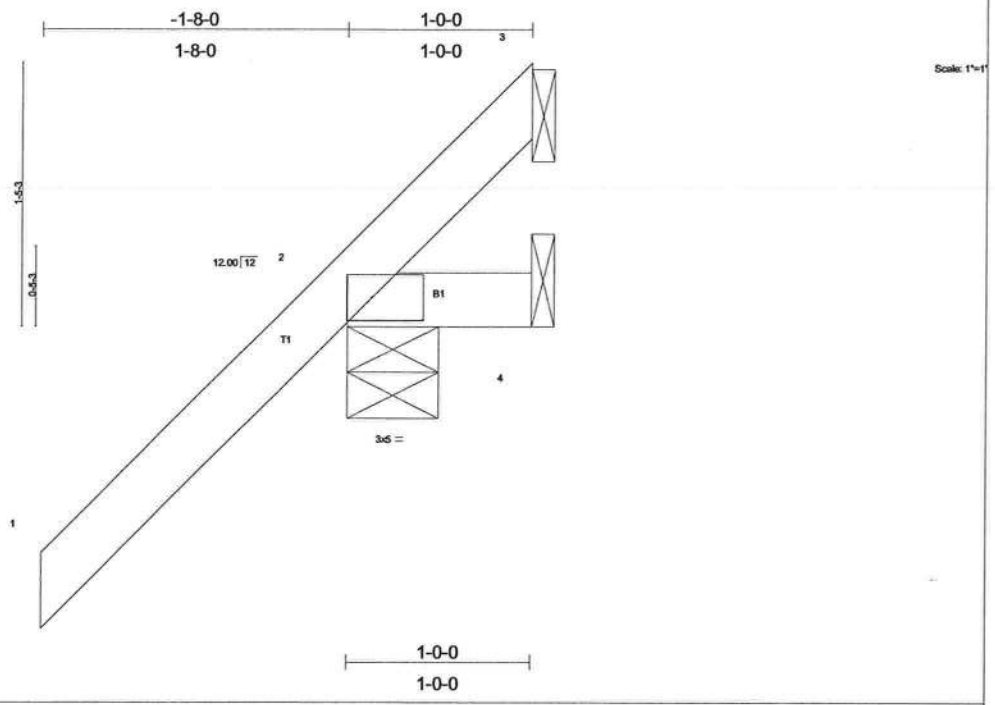


Plate Offsets (X,Y): [2:0-3-6,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 8 lb	

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

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=208/0-6-0, 4=5/Mechanical, 3=-60/Mechanical
Max Horz 2=152(load case 6)
Max Uplift2=-270(load case 6), 4=-11(load case 4), 3=-60(load case 1)
Max Grav 2=208(load case 1), 4=14(load case 2), 3=129(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=-83/113
BOT CHORD 2-4=0/0

NOTES (5)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2, 11 lb uplift at joint 4 and 60 lb uplift at joint 3.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	CJ1A	JACK	2	1	L288061002
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:02 2008 Page 1

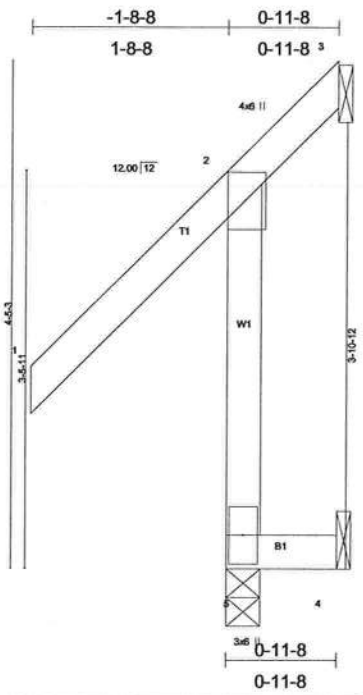


Plate Offsets (X,Y): [2:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.88	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	0.00	5	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.15	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 12 lb	

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

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

REACTIONS (lb/size) 5=242/0-3-8, 4=-8/Mechanical, 3=-83/Mechanical
Max Horz 5=157(load case 6)
Max Uplift4=-314(load case 6), 3=-108(load case 6)
Max Grav 5=272(load case 6), 4=9(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-226/38, 1-2=0/71, 2-3=-89/0
BOT CHORD 4-5=0/0

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 4 and 108 lb uplift at joint 3.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	CJ3	JACK	2	1	L288061003 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:03 2008 Page 1

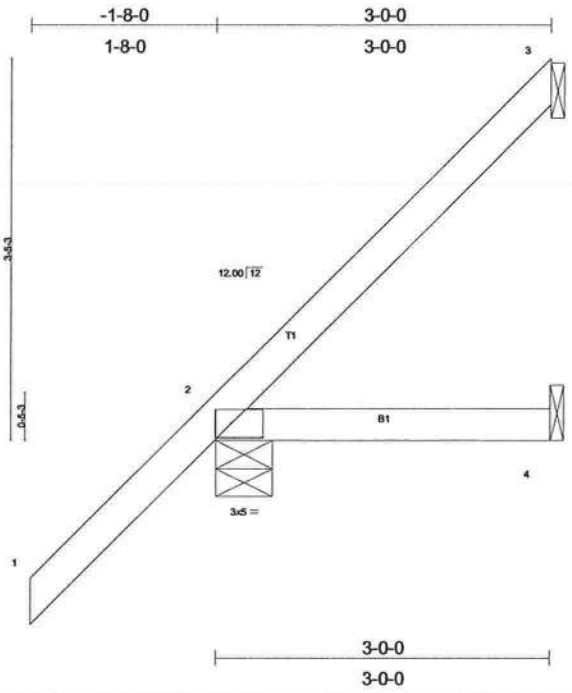


Plate Offsets (X,Y): [2:0-3-6,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.00	2-4	>999	240		
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: 15 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=36/Mechanical, 2=226/0-6-0, 4=13/Mechanical
Max Horz 2=242(load case 6)
Max Uplift3=-63(load case 7), 2=-174(load case 6), 4=-32(load case 4)
Max Grav 3=38(load case 4), 2=226(load case 1), 4=40(load case 2)

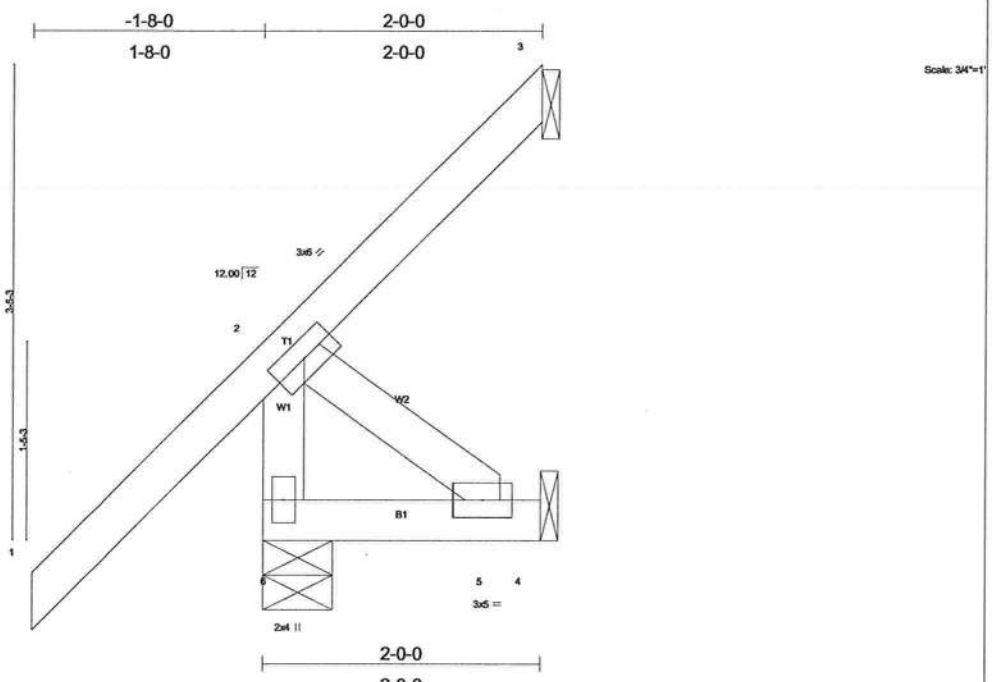
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-82/27
BOT CHORD 2-4=0/0

NOTES (5)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3, 174 lb uplift at joint 2 and 32 lb uplift at joint 4.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ2	MONO TRUSS	5	1	L288061010 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:14 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.00	5	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 15 lb	

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

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

REACTIONS (lb/size) 6=205/0-6-0, 4=9/Mechanical, 3=2/Mechanical
Max Horz 6=230(load case 6)
Max Uplift6=-52(load case 6), 4=-138(load case 6), 3=-13(load case 7)
Max Grav 6=205(load case 1), 4=28(load case 2), 3=39(load case 4)

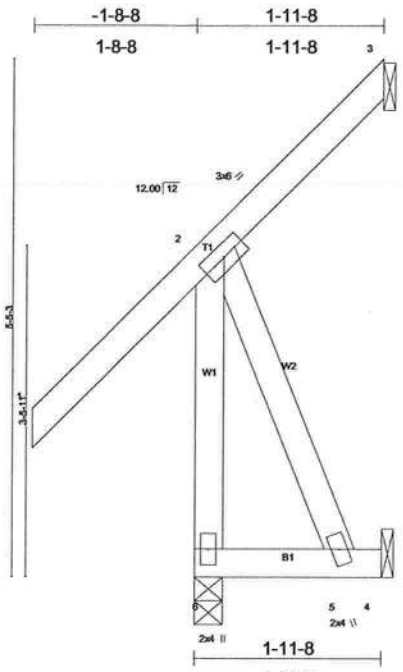
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-69/27, 2-6=-196/34
BOT CHORD 5-6=-256/0, 4-5=0/0
WEBS 2-5=0/326

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 6, 138 lb uplift at joint 4 and 13 lb uplift at joint 3.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ2A	JACK	2	1	L288061011
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:16 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.34	Vert(LL)	0.01	5-6	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.23	Vert(TL)	-0.00	6	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.03	3	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.2 *Except*
W2 2 X 4 SYP No.3

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

REACTIONS (lb/size) 6=209/0-3-8, 4=9/Mechanical, 3=-3/Mechanical
Max Horz 6=203(load case 6)
Max Uplift4=-363(load case 6), 3=-11(load case 9)
Max Grav 6=209(load case 1), 4=27(load case 2), 3=41(load case 4)

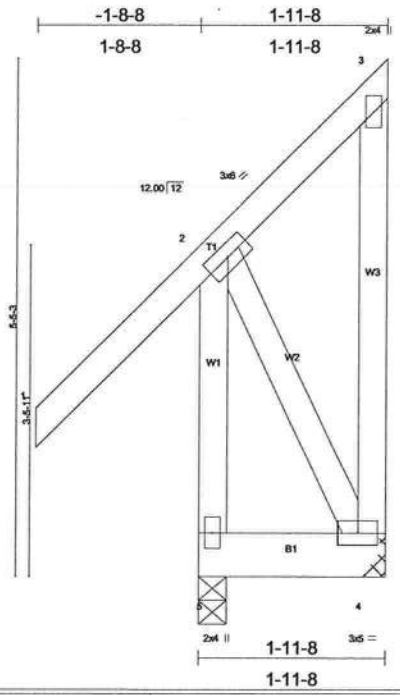
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-6=-278/0, 1-2=0/71, 2-3=-71/33
BOT CHORD 5-6=-228/0, 4-5=0/0
WEBS 2-5=0/573

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 4 and 11 lb uplift at joint 3.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ2B	JACK	1	2	L288061012 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:20 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.00	4-5	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.05	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 lb	

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

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

REACTIONS (lb/size) 5=677/0-3-8, 4=465/Mechanical
Max Horz 5=197(load case 5)
Max Uplift5=-223(load case 3), 4=-556(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-201/0, 1-2=0/71, 2-3=-71/38
BOT CHORD 4-5=-197/0
WEBS 3-4=-55/44, 2-4=0/424

NOTES (8)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 5 and 556 lb uplift at joint 4.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 4-5=-571(F=-561)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ3	MONO TRUSS	8	1	L288061013
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:21 2008 Page 1

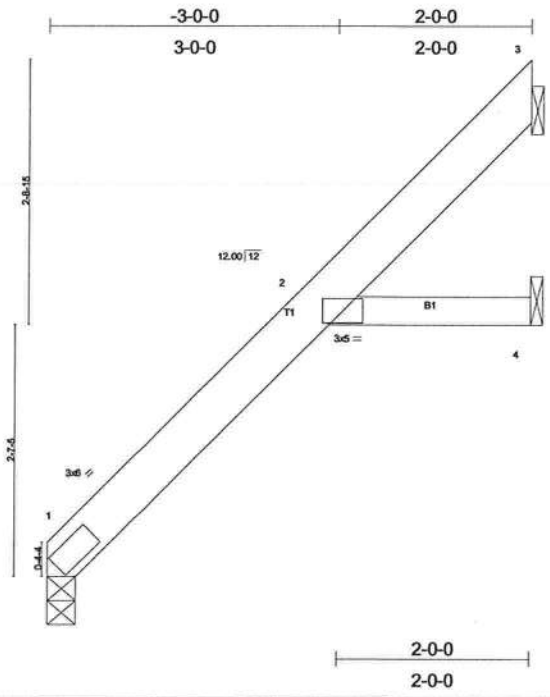


Plate Offsets (X,Y): [2:0-4-4,0-0-4], [2:0-1-10,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	0.04	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.04	2	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.04	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 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 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=162/0-3-8, 4=10/Mechanical, 3=147/Mechanical
Max Horz 1=223(load case 6)
Max Uplift3=-193(load case 6)
Max Grav 1=162(load case 1), 4=31(load case 2), 3=147(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-204/15, 2-3=-172/100
BOT CHORD 2-4=0/0

NOTES (6)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
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 193 lb uplift at joint 3.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ4	MONO TRUSS	2	1	L288061014 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:23 2008 Page 1

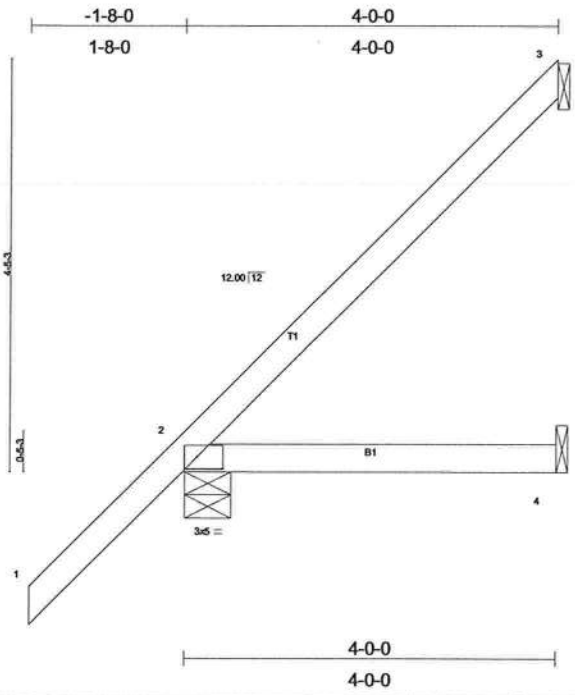


Plate Offsets (X,Y): [2:0-3-6,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.02	2-4	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

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

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

REACTIONS (lb/size) 3=73/Mechanical, 2=248/0-6-0, 4=18/Mechanical
Max Horz 2=288(load case 6)
Max Uplift3=-121(load case 6), 2=-115(load case 6)
Max Grav 3=73(load case 1), 2=248(load case 1), 4=55(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-120/39
BOT CHORD 2-4=0/0

NOTES (5)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 3 and 115 lb uplift at joint 2.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ4G	MONO HIP	1	1	L288061015 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:24 2008 Page 1

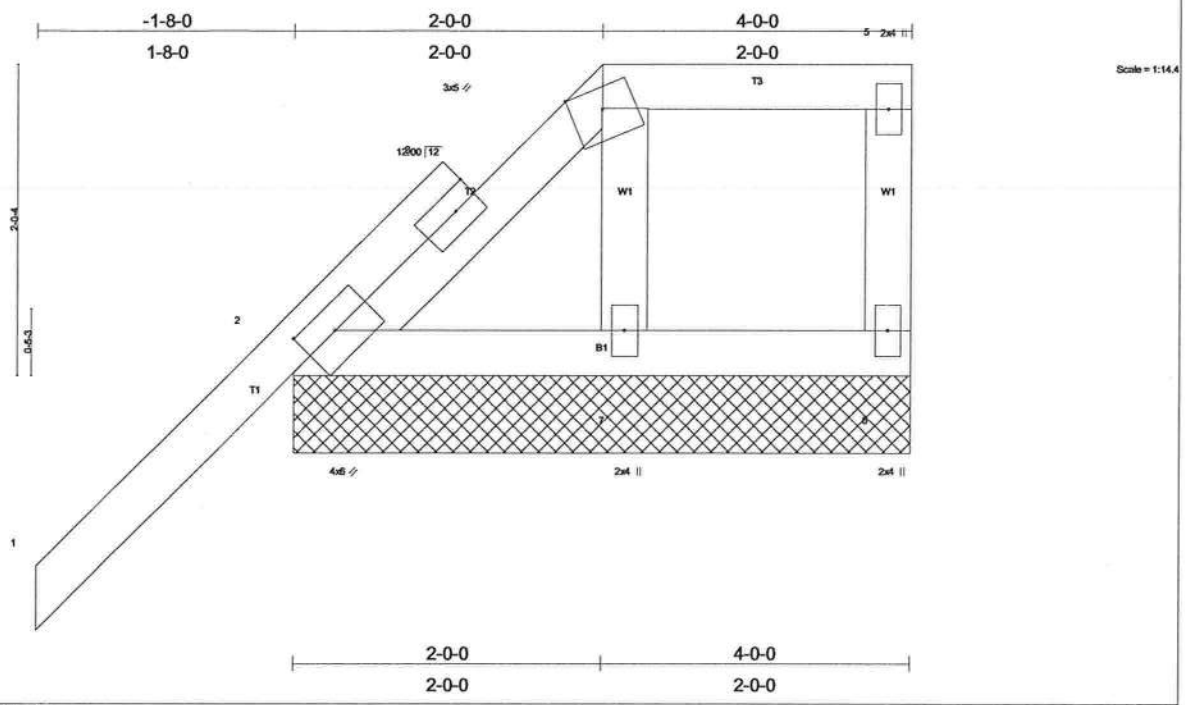


Plate Offsets (X,Y): [2:0-2-12,0-1-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.01	1	n/r	90		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

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

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

REACTIONS (lb/size) 2=195/4-0-0, 6=56/4-0-0, 7=86/4-0-0
Max Horz 2=182(load case 6)
Max Uplift2=-173(load case 6), 6=-39(load case 4), 7=-35(load case 5)
Max Grav 2=195(load case 1), 6=56(load case 1), 7=89(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-61/10, 3-4=-13/22, 4-5=-1/1, 5-6=-50/60
BOT CHORD 2-7=-4/5, 6-7=0/0
WEBS 4-7=-62/49

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Gable requires continuous bottom chord bearing.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2, 39 lb uplift at joint 6 and 35 lb uplift at joint 7.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ5	MONO TRUSS	13	1	L288061016 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:26 2008 Page 1

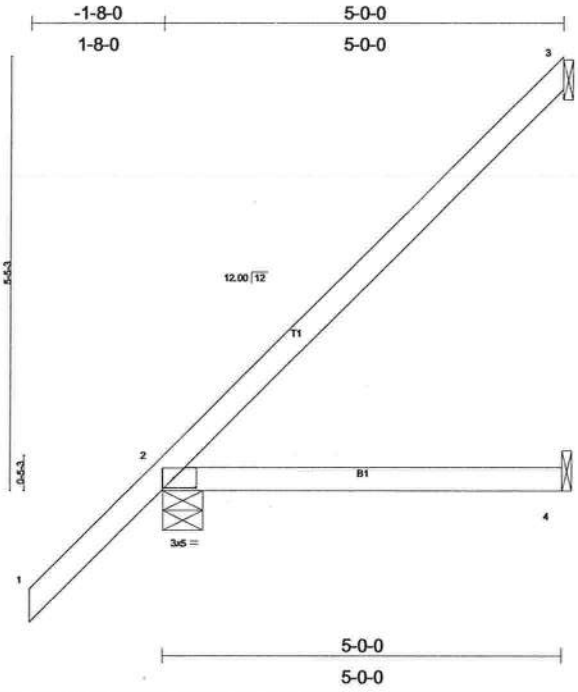


Plate Offsets (X,Y): [2:0-3-6,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.04	2-4	>999	240		
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: 22 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=105/Mechanical, 2=275/0-6-0, 4=23/Mechanical
Max Horz 2=334(load case 6)
Max Uplift3=-173(load case 6), 2=-97(load case 6)
Max Grav 3=105(load case 1), 2=275(load case 1), 4=70(load case 2)

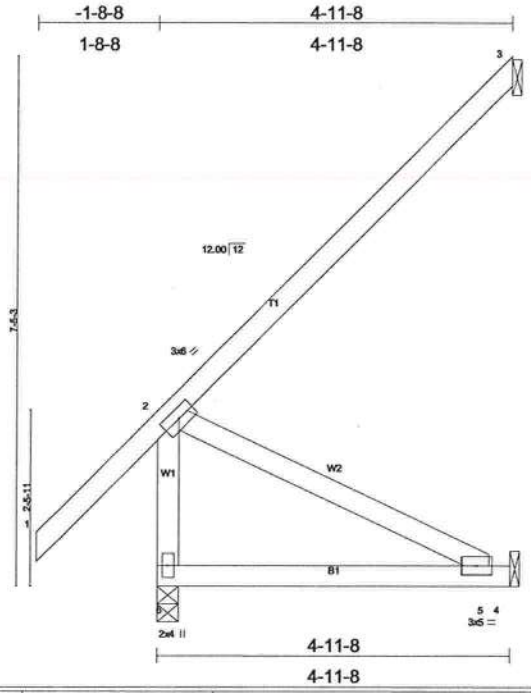
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-168/59
BOT CHORD 2-4=0/0

NOTES (5)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 3 and 97 lb uplift at joint 2.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ5A	MONO TRUSS	1	1	L288061017
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:27 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	5-6	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-2 oc bracing.

REACTIONS (lb/size) 3=109/Mechanical, 6=272/0-3-8, 4=24/Mechanical
Max Horz 6=391(load case 6)
Max Uplift3=-155(load case 6), 4=-160(load case 6)
Max Grav 3=109(load case 1), 6=272(load case 1), 4=71(load case 2)

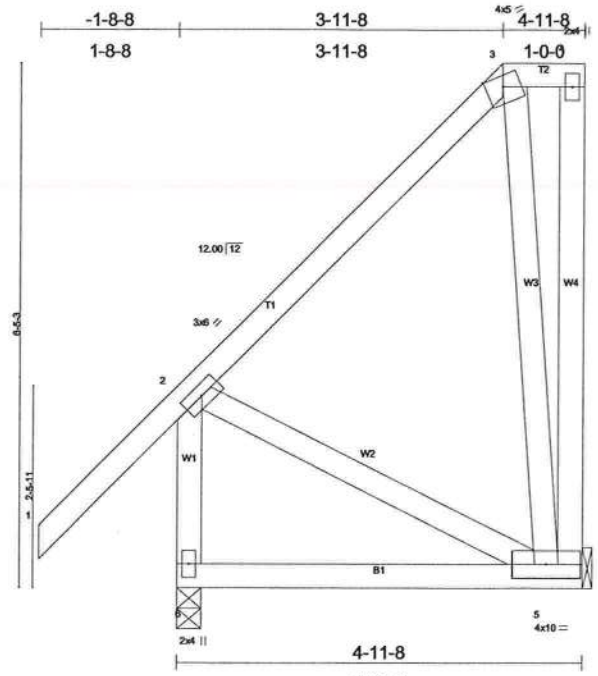
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-149/59, 2-6=-248/13
BOT CHORD 5-6=-432/11, 4-5=0/0
WEBS 2-5=-12/484

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 3 and 160 lb uplift at joint 4.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ5B	MONO HIP	1	1	L288061018
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:29 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.34	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.03	5-6	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.11	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 49 lb	

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

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

REACTIONS (lb/size) 5=135/Mechanical, 6=261/0-3-8
Max Horz 6=351(load case 6)
Max Uplift5=-268(load case 6)

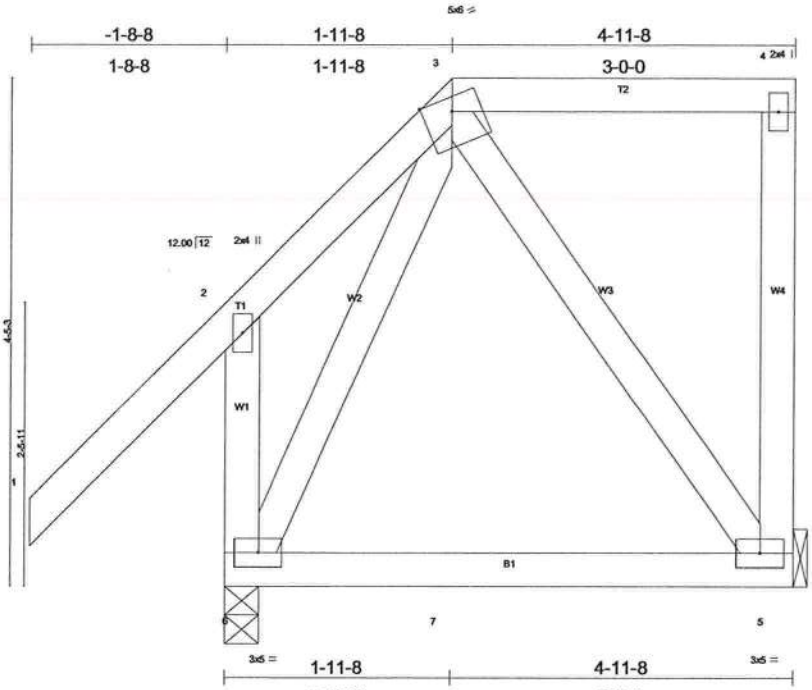
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-101/30, 3-4=-2/2, 4-5=-23/28, 2-6=-239/11
BOT CHORD 5-6=-388/5
WEBS 3-5=-94/136, 2-5=-3/424

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 5.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ5C	MONO HIP	1	1	L288061019
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:30 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.05	5-6	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.12	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 42 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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=189/Mechanical, 6=296/0-3-8
Max Horz 6=260(load case 5)
Max Uplift5=-220(load case 5), 6=-118(load case 5)

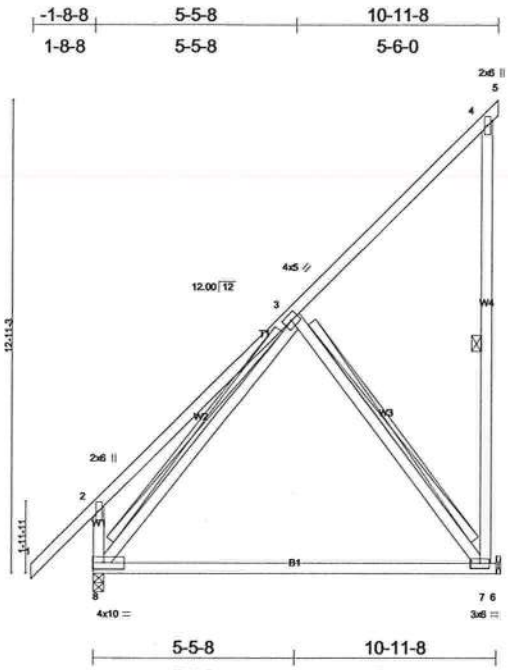
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-71/355, 3-4=-2/1, 4-5=-113/132, 2-6=-200/445
BOT CHORD 6-7=-97/30, 5-7=-97/30
WEBS 3-5=-52/169, 3-6=-339/57

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 5 and 118 lb uplift at joint 6.
6) Girder carries hip end with 0-0-0 right side setback, 1-11-8 left side setback, and 4-0-0 end setback.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-4=-79(F=-25), 6-7=-10, 5-7=-15(F=-5)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ11	MONO TRUSS	7	1	L288061004 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:05 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.98	Vert(LL)	-0.26	7-8	>495	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.44	7-8	>287	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.22	Horz(TL)	-0.00	7	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7
T-Brace: 2 X 4 SYP No.3 - 3-7, 3-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 8=446/0-3-8, 7=335/Mechanical
Max Horz 8=480(load case 6)
Max Uplift7=-335(load case 6)

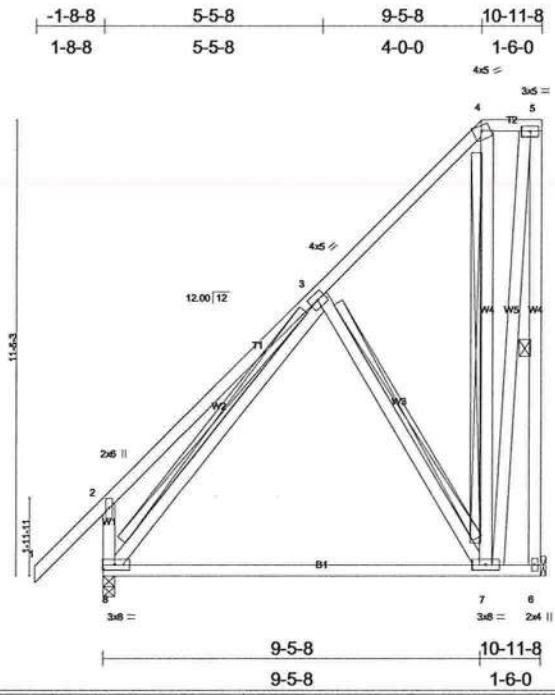
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-305/397, 1-2=0/71, 2-3=-287/287, 3-4=-159/77, 4-5=-3/0, 4-7=-122/183
BOT CHORD 7-8=-262/131, 6-7=0/0
WEBS 3-7=-202/426, 3-8=-509/205

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 7.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ11A	MONO HIP	1	1	L288061005
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:06 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.66	Vert(LL)	-0.13	7-8	>992	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.23	7-8	>556	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.88	Horz(TL)	-0.00	6	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 117 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6
T-Brace: 2 X 4 SYP No.3 - 3-7, 4-7, 3-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 6=333/Mechanical, 8=450/0-3-8
Max Horz 8=435(load case 6)
Max Uplift6=-265(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-203/352, 3-4=-148/8, 4-5=-40/46, 5-6=-370/397, 2-8=-309/451
BOT CHORD 7-8=-246/132, 6-7=-4/2
WEBS 3-7=-176/382, 4-7=-106/162, 5-7=-397/360, 3-8=-510/86

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 6.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ11B	MONO HIP	1	1	L288061006 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:08 2008 Page 1

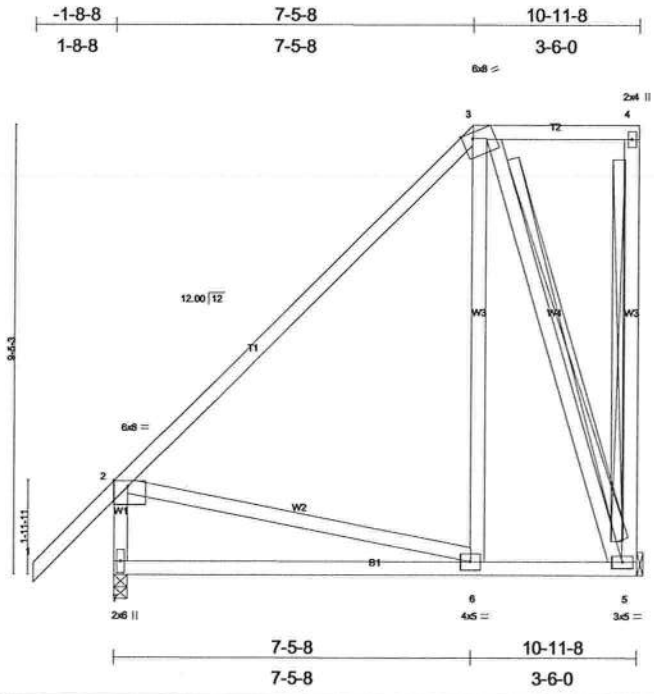


Plate Offsets (X,Y): [2:0-3-8,Edge], [3:0-2-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.10	6-7	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.17	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 95 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-6 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-5, 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=333/Mechanical, 7=450/0-3-8
Max Horz 7=371(load case 6)
Max Uplift5=-186(load case 6), 7=-41(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-296/10, 3-4=-3/2, 4-5=-75/63, 2-7=-409/129
BOT CHORD 6-7=-586/114, 5-6=-145/108
WEBS 3-6=-64/199, 3-5=-315/427, 2-6=-50/454

NOTES (7)
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 and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 5 and 41 lb uplift at joint 7.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ11C	MONO HIP	1	1	L288061007 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:10 2008 Page 1

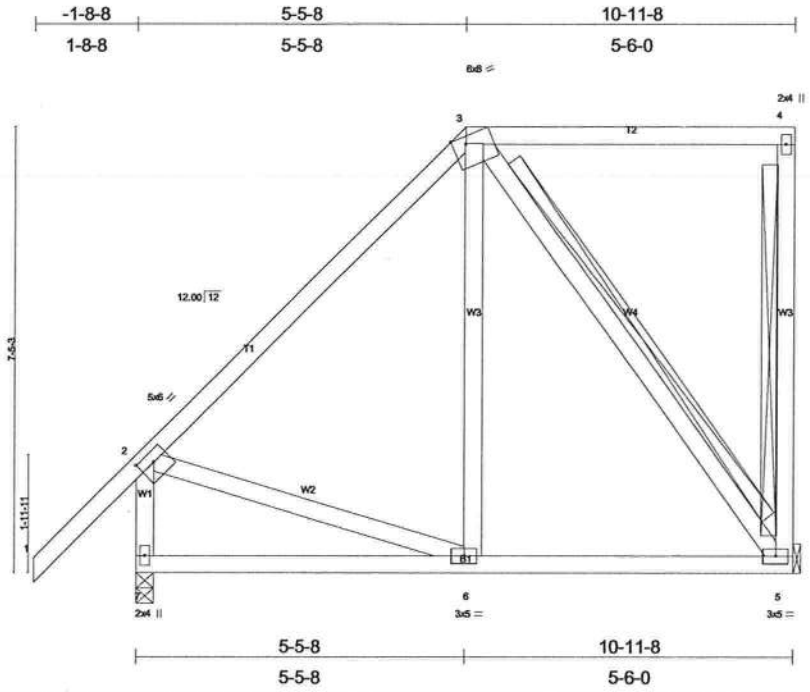


Plate Offsets (X,Y): [2:0-3-0,0-1-15], [3:0-2-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.02	6-7	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-5, 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=333/Mechanical, 7=450/0-3-8
Max Horz 7=307(load case 6)
Max Uplift5=-136(load case 5), 7=-81(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-303/97, 3-4=-13/6, 4-5=-128/105, 2-7=-422/204
BOT CHORD 6-7=-397/41, 5-6=-181/145
WEBS 3-6=-33/154, 3-5=-222/290, 2-6=-50/228

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 5 and 81 lb uplift at joint 7.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ11D	MONO HIP	1	1	L288061008 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:11 2008 Page 1

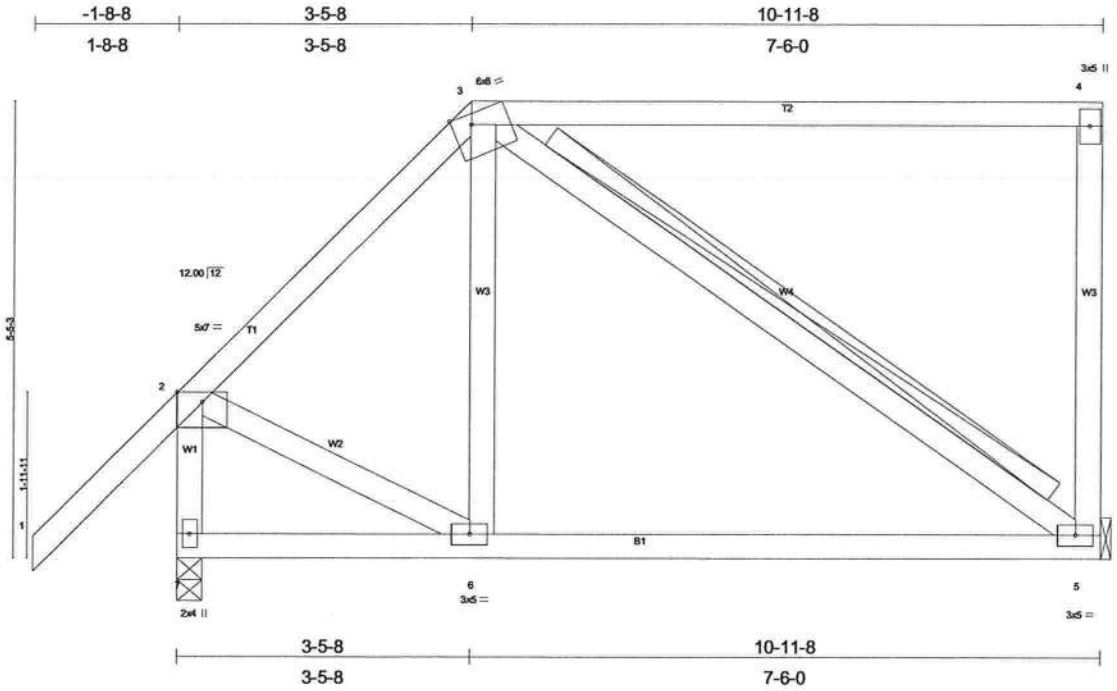


Plate Offsets (X,Y): [3:0-2-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.09	5-6	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 73 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=333/Mechanical, 7=450/0-3-8
Max Horz 7=202(load case 6)
Max Uplift5=-115(load case 5), 7=-107(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-288/156, 3-4=-45/30, 4-5=-194/173, 2-7=-443/268
BOT CHORD 6-7=-190/18, 5-6=-198/185
WEBS 3-6=-64/123, 3-5=-171/204, 2-6=-67/267

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 5 and 107 lb uplift at joint 7.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	EJ11E	MONO HIP	1	1	L288061009
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:13 2008 Page 1

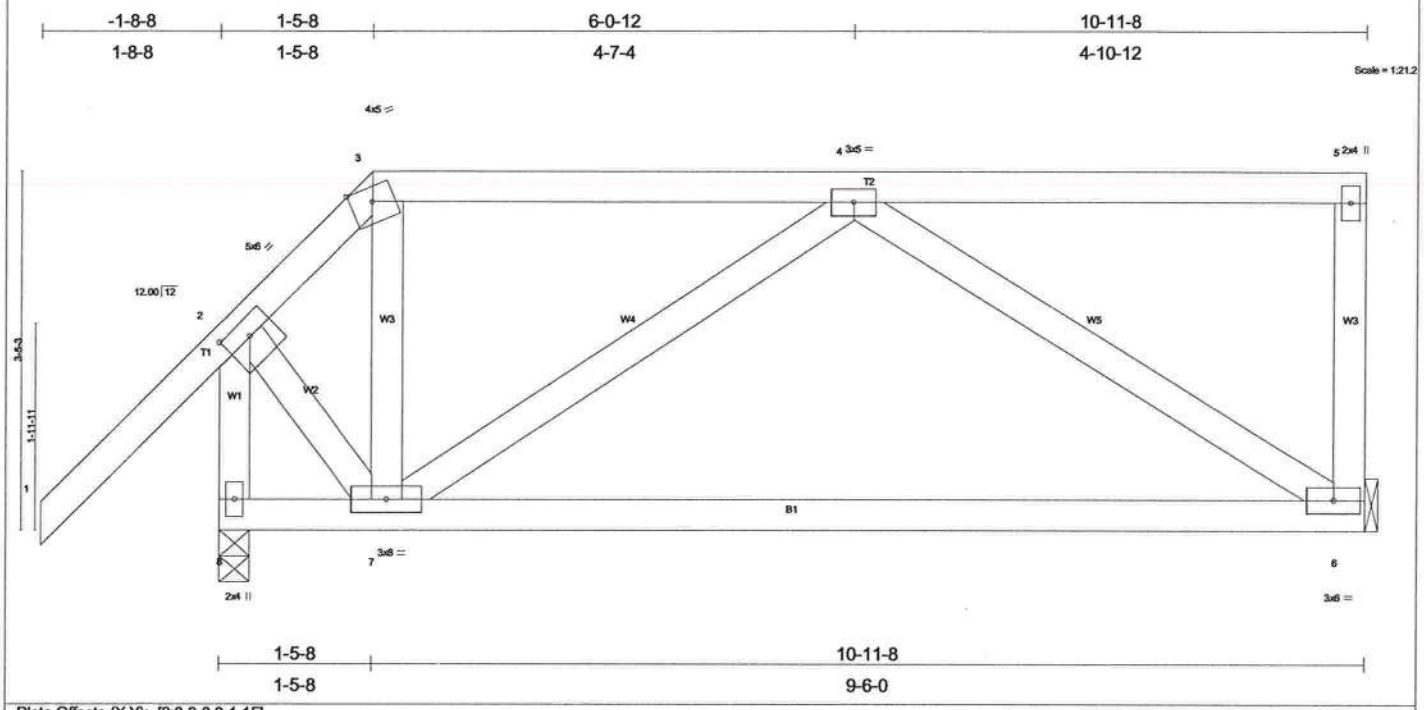


Plate Offsets (X,Y): [2:0-3-0,0-1-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.12	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.21	6-7	>613	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.18	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 67 lb	

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

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

REACTIONS (lb/size) 6=347/Mechanical, 8=461/0-3-8
Max Horz 8=137(load case 5)
Max Uplift6=-130(load case 3), 8=-119(load case 5)

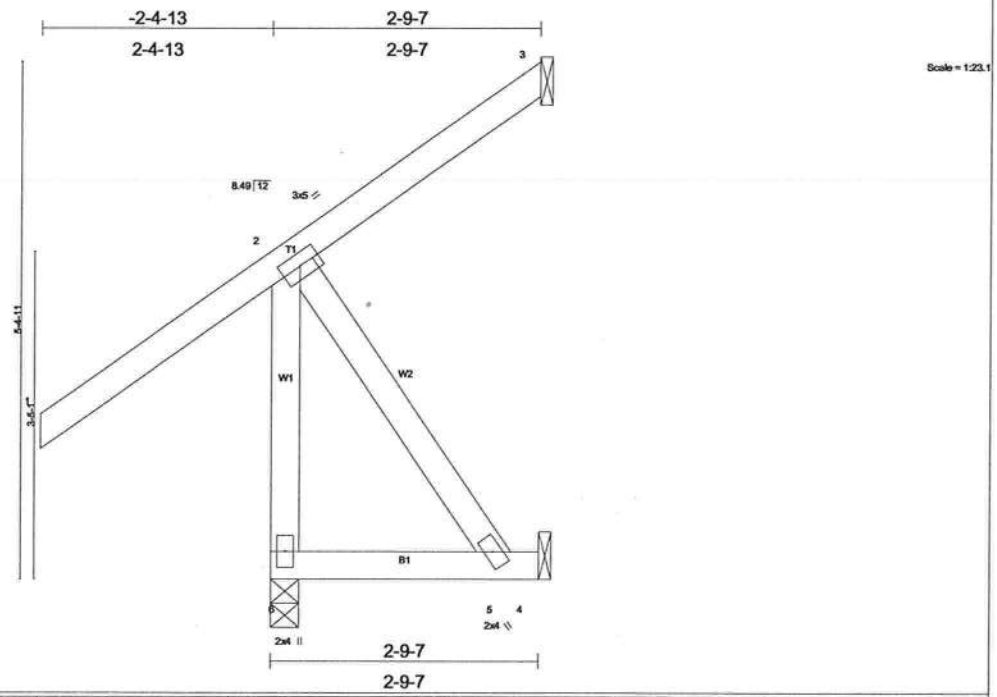
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-231/62, 3-4=-162/54, 4-5=-69/0, 5-6=-125/64, 2-8=-511/104
BOT CHORD 7-8=-85/0, 6-7=-138/307
WEBS 3-7=-29/102, 4-7=-189/122, 4-6=-315/167, 2-7=-35/308

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 6 and 119 lb uplift at joint 8.
6) Girder carries hip end with 0-0-0 right side setback, 1-5-8 left side setback, and 2-6-0 end setback.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-5=-56(F=-2), 7-8=-10, 6-7=-10(F=-0)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	HJ2A	JACK	1	1	L288061020 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:32 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.47	Vert(LL)	0.01	5-6	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.00	5-6	>999	240		
BCLL	10.0	*	Rep Stress Incr	NO	WB	0.08	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 24 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=237/0-3-8, 3=-17/Mechanical, 4=9/Mechanical
Max Horz 6=218(load case 5)
Max Uplift6=-78(load case 3), 3=-17(load case 1), 4=-218(load case 5)
Max Grav 6=237(load case 1), 3=76(load case 3), 4=89(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-6=-233/92, 1-2=0/79, 2-3=-55/43
BOT CHORD 5-6=-180/68, 4-5=0/0
WEBS 2-5=-117/312

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 6, 17 lb uplift at joint 3 and 218 lb uplift at joint 4.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

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-3=-57(F=-2, B=-2), 6=0(F=5, B=5)-to-4=-11(F=-0, B=-0)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	HJ7	MONO TRUSS	1	1	L288061021 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:33 2008 Page 1

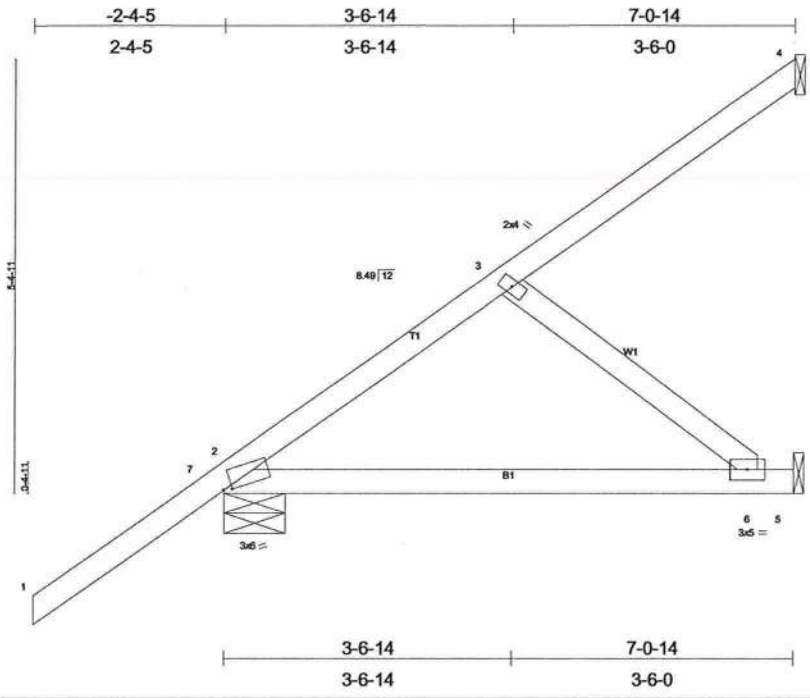


Plate Offsets (X,Y): [2:0-1-5,0-0-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.07	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.11	2-6	>740	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.04	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 34 lb	

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

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

REACTIONS (lb/size) 4=127/Mechanical, 2=295/0-9-4, 5=102/Mechanical
Max Horz 2=286(load case 5)
Max Uplift4=-178(load case 5), 2=-101(load case 5), 5=-36(load case 5)
Max Grav 4=127(load case 1), 2=295(load case 1), 5=126(load case 2)

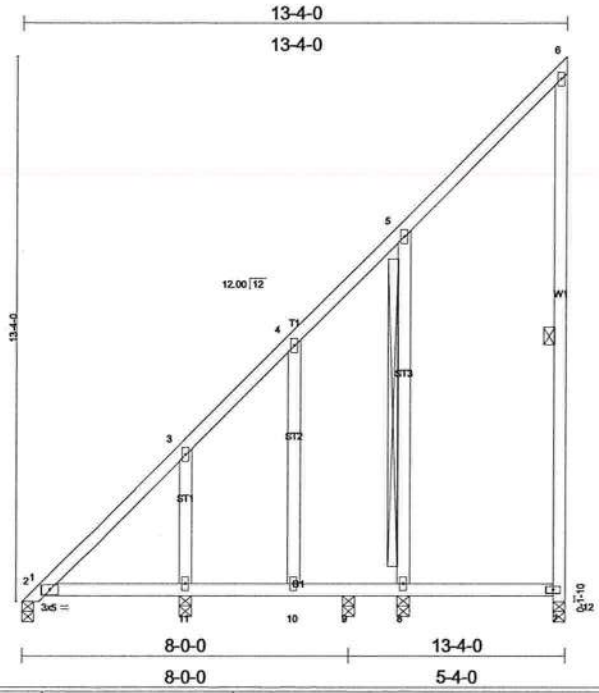
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=0/65, 2-7=0/66, 2-3=-159/0, 3-4=-125/54
BOT CHORD 2-6=-102/104, 5-6=0/0
WEBS 3-6=-133/129

NOTES (6)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4, 101 lb uplift at joint 2 and 36 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).
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-54
Trapezoidal Loads (plf)
Vert: 7=0(F=27, B=27)-to-4=-95(F=-21, B=-21), 2=-1(F=5, B=5)-to-5=-18(F=-4, B=-4)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1	GABLE	3	1	L288061022 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:35 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.16	Vert(LL)	-0.01	7-8	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.01	10	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 92 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-12
T-Brace: 2 X 4 SYP No.3 - 5-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=97/0-3-8, 8=204/0-3-8, 11=301/0-3-8, 12=110/0-3-8, 9=123/0-3-8
Max Horz 1=419(load case 6)
Max Uplift8=-151(load case 6), 11=-229(load case 6), 12=-88(load case 6), 9=-104(load case 6)
Max Grav 1=342(load case 6), 8=204(load case 1), 11=301(load case 1), 12=110(load case 1), 9=123(load case 1)

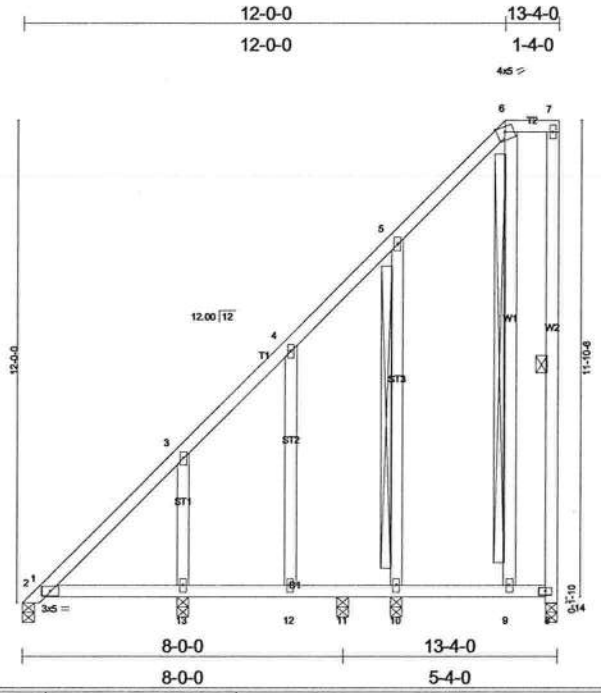
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-760/11, 2-3=-721/72, 3-4=-486/19, 4-5=-362/65, 5-6=-116/60, 7-12=-110/135, 6-7=-88/136
BOT CHORD 2-11=-4/3, 10-11=-4/3, 9-10=-4/3, 8-9=-4/3, 7-8=-4/3
WEBS 4-10=-93/153, 5-8=-215/325, 3-11=-204/302

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 1, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 8, 229 lb uplift at joint 11, 88 lb uplift at joint 12 and 104 lb uplift at joint 9.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1A	GABLE	1	1	L288061025 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:40 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.13	Vert(LL)	0.02	12-13	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.01	12	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.01	14	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 107 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-14
T-Brace: 2 X 4 SYP No.3 - 6-9, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=97/0-3-8, 10=210/0-3-8, 13=304/0-3-8, 14=111/0-3-8, 11=115/0-3-8
Max Horz 1=382(load case 6)
Max Uplift10=-148(load case 6), 13=-233(load case 6), 14=-45(load case 6), 11=-97(load case 6)
Max Grav 1=307(load case 6), 10=210(load case 1), 13=304(load case 1), 14=111(load case 1), 11=115(load case 1)

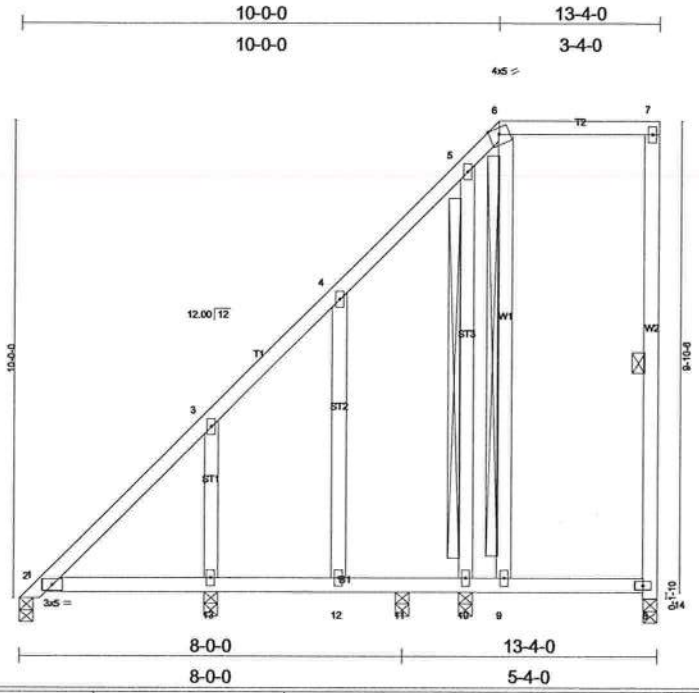
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-688/8, 2-3=-648/71, 3-4=-414/19, 4-5=-280/60, 5-6=-74/18, 6-7=-3/2, 8-14=-111/100, 7-8=-53/41
BOT CHORD 2-13=-4/4, 12-13=-4/4, 11-12=-4/4, 10-11=-4/4, 9-10=-4/4, 8-9=-3/3
WEBS 6-9=-55/93, 4-12=-100/167, 5-10=-189/274, 3-13=-203/300

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 10, 233 lb uplift at joint 13, 45 lb uplift at joint 14 and 97 lb uplift at joint 11.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1B	GABLE	1	1	L288061026
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:41 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.13	Vert(LL)	0.02	12-13	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.01	12	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	14	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 99 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-14
T-Brace: 2 X 4 SYP No.3 - 6-9, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=98/0-3-8, 10=209/0-3-8, 13=304/0-3-8, 14=112/0-3-8, 11=113/0-3-8
Max Horz 1=318(load case 6)
Max Uplift10=-77(load case 6), 13=-234(load case 6), 14=-44(load case 4), 11=-118(load case 6)
Max Grav 1=245(load case 6), 10=209(load case 1), 13=304(load case 1), 14=112(load case 1), 11=113(load case 1)

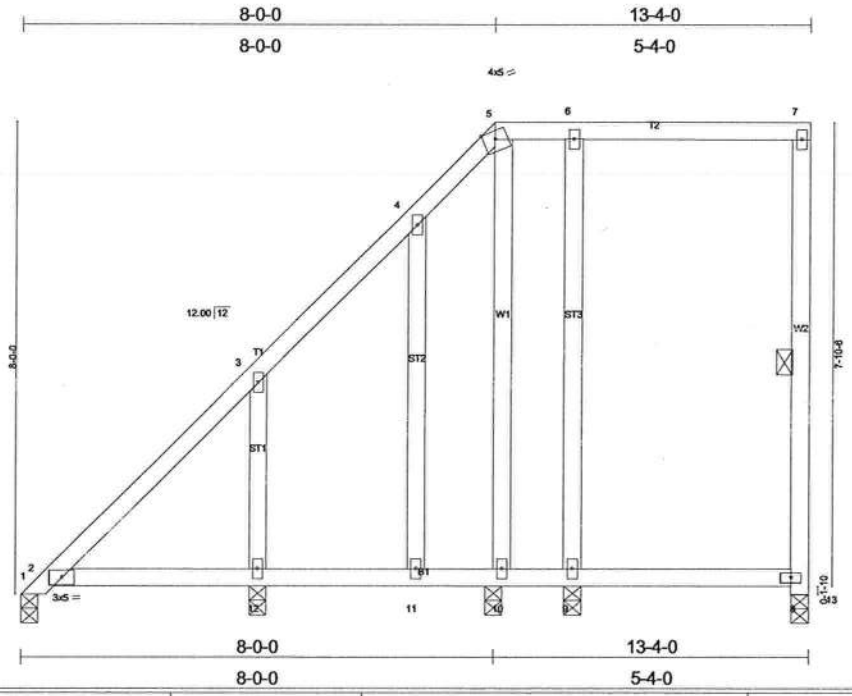
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-561/6, 2-3=-521/70, 3-4=-288/18, 4-5=-149/58, 5-6=-55/18, 6-7=-4/2, 8-14=-112/70, 7-8=-85/68
BOT CHORD 2-13=-3/4, 12-13=-3/4, 11-12=-3/4, 10-11=-3/4, 9-10=-3/4, 8-9=-2/4
WEBS 6-9=-51/58, 4-12=-101/175, 5-10=-159/206, 3-13=-203/298

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 10, 234 lb uplift at joint 13, 44 lb uplift at joint 14 and 118 lb uplift at joint 11.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1C	GABLE	1	1	L288061027 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:43 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	-0.01	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.01	2-12	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 90 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS (lb/size) 1=101/0-3-8, 10=147/0-3-8, 9=176/0-3-8, 12=296/0-3-8, 13=116/0-3-8
Max Horz 1=254(load case 6)
Max Uplift10=-132(load case 6), 9=-94(load case 4), 12=-227(load case 6), 13=-42(load case 4)
Max Grav 1=178(load case 6), 10=147(load case 1), 9=176(load case 1), 12=296(load case 1), 13=116(load case 1)

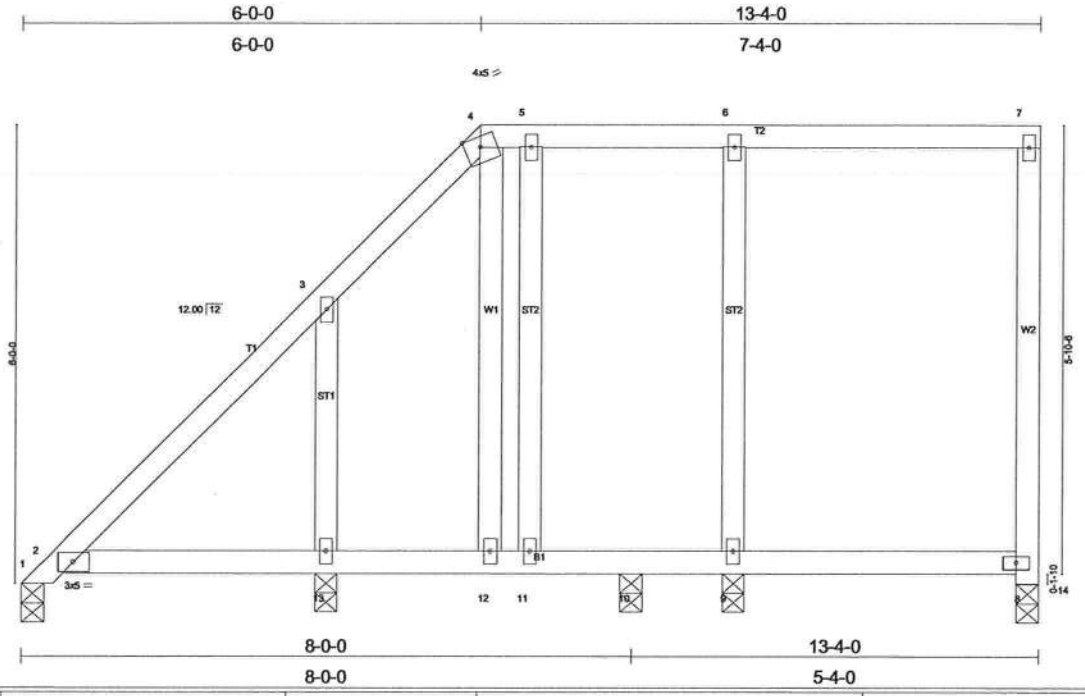
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-430/1, 2-3=-389/68, 3-4=-151/12, 4-5=-60/34, 5-6=-5/3, 6-7=-5/4, 8-13=-116/74, 7-8=-95/80
BOT CHORD 2-12=-5/6, 11-12=-5/6, 10-11=-5/6, 9-10=-4/5, 8-9=-4/5
WEBS 5-10=-63/92, 4-11=-55/105, 6-9=-176/142, 3-12=-209/307

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 10, 94 lb uplift at joint 9, 227 lb uplift at joint 12 and 42 lb uplift at joint 13.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1D	GABLE	1	1	L288061028 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:45 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.14	Vert(LL)	-0.01	8-9	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	2-13	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.00	9	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 79 lb	

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

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

REACTIONS (lb/size) 1=103/0-3-8, 9=208/0-3-8, 13=298/0-3-8, 14=115/0-3-8, 10=112/0-3-8
Max Horz 1=189(load case 6)
Max Uplift9=-77(load case 4), 13=-207(load case 6), 14=-43(load case 4), 10=-38(load case 5)
Max Grav 1=111(load case 6), 9=208(load case 1), 13=298(load case 1), 14=115(load case 1), 10=112(load case 1)

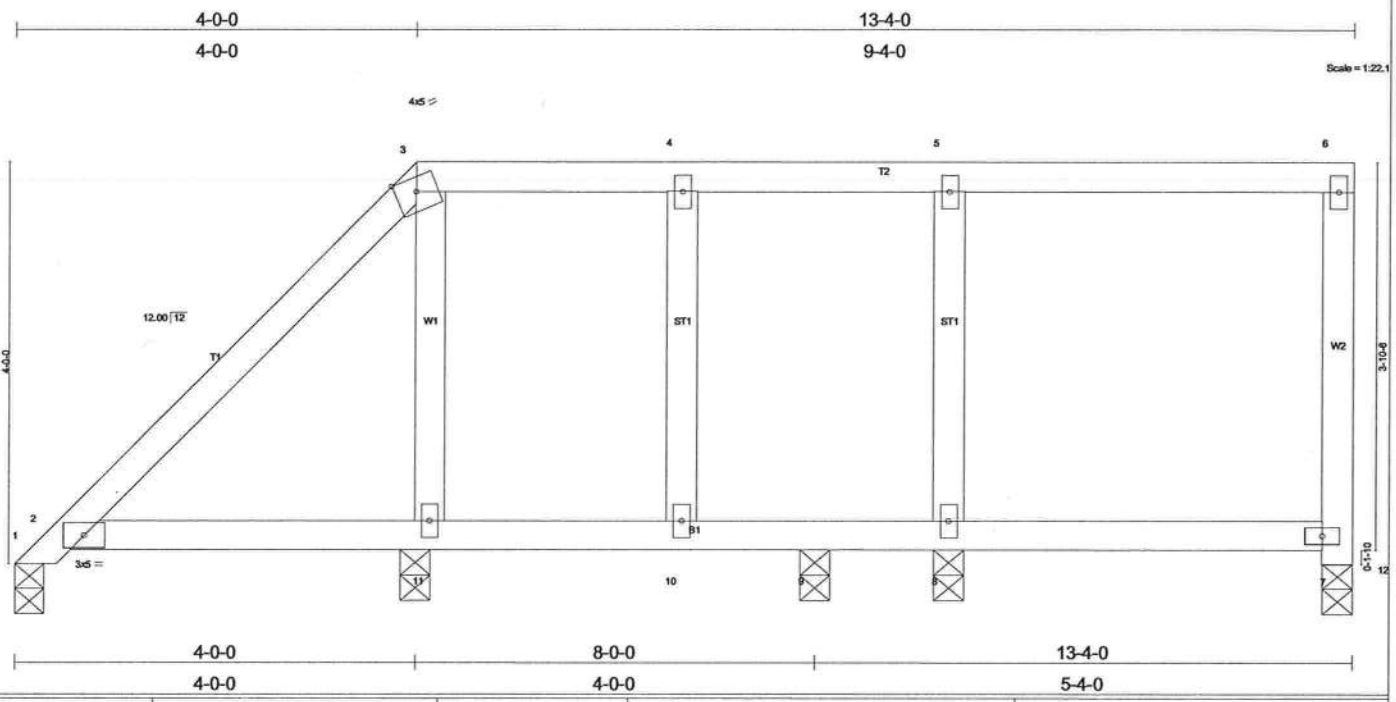
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-300/0, 2-3=-257/65, 3-4=-80/8, 4-5=-8/4, 5-6=-8/6, 6-7=-8/6, 8-14=-115/72, 7-8=-92/78
BOT CHORD 2-13=-6/8, 12-13=-6/8, 11-12=-6/8, 10-11=-6/8, 9-10=-6/8, 8-9=-6/8
WEBS 4-12=-7/31, 5-11=-81/68, 6-9=-217/182, 3-13=-202/288

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 9, 207 lb uplift at joint 13, 43 lb uplift at joint 14 and 38 lb uplift at joint 10.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1E	GABLE	1	1	L288061029 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:46 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC 0.14		Vert(LL)	-0.01	2-11	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC 0.14		Vert(TL)	-0.01	2-11	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB 0.06		Horz(TL)	-0.01	8	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 61 lb	

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

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

REACTIONS (lb/size) 1=114/0-3-8, 11=286/0-3-8, 8=209/0-3-8, 12=115/0-3-8, 9=111/0-3-8
Max Horz 1=125(load case 6)
Max Uplift11=-136(load case 6), 8=-61(load case 4), 12=-44(load case 4), 9=-69(load case 4)

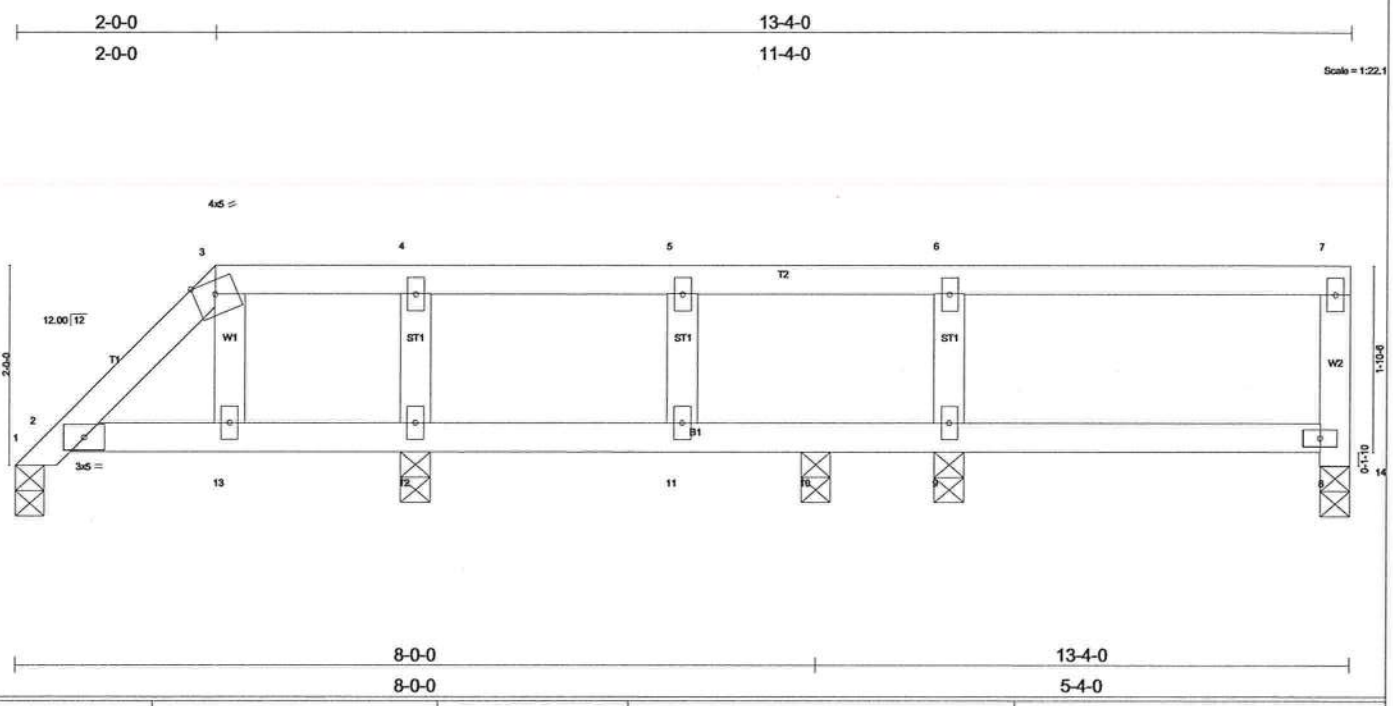
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-164/0, 2-3=-112/49, 3-4=-14/7, 4-5=-13/8, 5-6=-13/8, 7-12=-115/71, 6-7=-93/79
BOT CHORD 2-11=-17/21, 10-11=-8/13, 9-10=-8/13, 8-9=-8/13, 7-8=-8/13
WEBS 3-11=-189/235, 4-10=-88/68, 5-8=-216/180

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 11, 61 lb uplift at joint 8, 44 lb uplift at joint 12 and 69 lb uplift at joint 9.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1F	GABLE	1	1	L288061030 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:48 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC 0.17		Vert(LL)	-0.01	11	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC 0.11		Vert(TL)	-0.01	11	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB 0.04		Horz(TL)	-0.00	9	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 50 lb	

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

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

REACTIONS (lb/size) 1=115/0-3-8, 9=192/0-3-8, 12=278/0-3-8, 14=123/0-3-8, 10=128/0-3-8
Max Horz 1=61(load case 6)
Max Uplift1=-10(load case 6), 9=-71(load case 4), 12=-85(load case 5), 14=-42(load case 4), 10=-54(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-73/0, 2-3=-86/16, 3-4=-45/33, 4-5=-45/34, 5-6=-45/34, 6-7=-45/34, 8-14=-123/80, 7-8=-98/85
BOT CHORD 2-13=-38/47, 12-13=-34/45, 11-12=-34/45, 10-11=-34/45, 9-10=-34/45, 8-9=-34/45
WEBS 3-13=-19/43, 5-11=-94/87, 6-9=-209/170, 4-12=-179/150

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 71 lb uplift at joint 9, 85 lb uplift at joint 12, 42 lb uplift at joint 14 and 54 lb uplift at joint 10.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB1H	VALLEY	1	1	L288061031 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:49 2008 Page 1

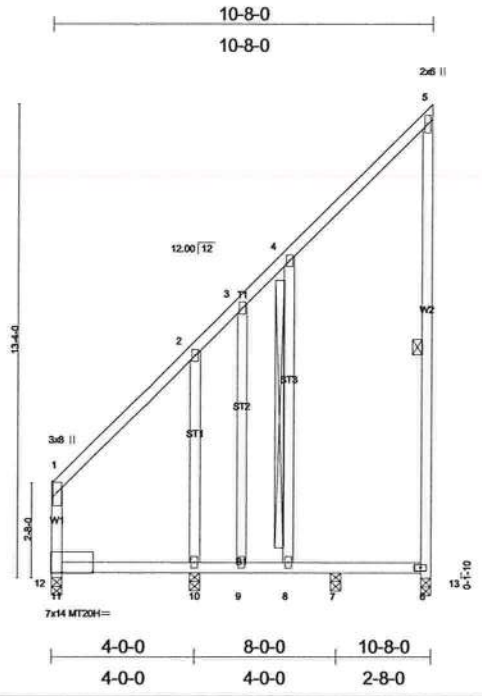


Plate Offsets (X,Y): [11:0-10-8,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.79	Vert(LL)	0.10	10-11	>486	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.86	Vert(TL)	-0.02	8	>999	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	-0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 93 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-5-10 oc bracing: 10-11.
WEBS 1 Row at midpt 5-13
T-Brace: 2 X 4 SYP No.3 - 4-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 10=309/0-3-8, 12=96/0-3-8, 13=85/0-3-8, 7=175/0-3-8
Max Horz 12=333(load case 6)
Max Uplift10=-595(load case 6), 13=-123(load case 6)
Max Grav 10=309(load case 1), 12=532(load case 6), 13=85(load case 1), 7=175(load case 1)

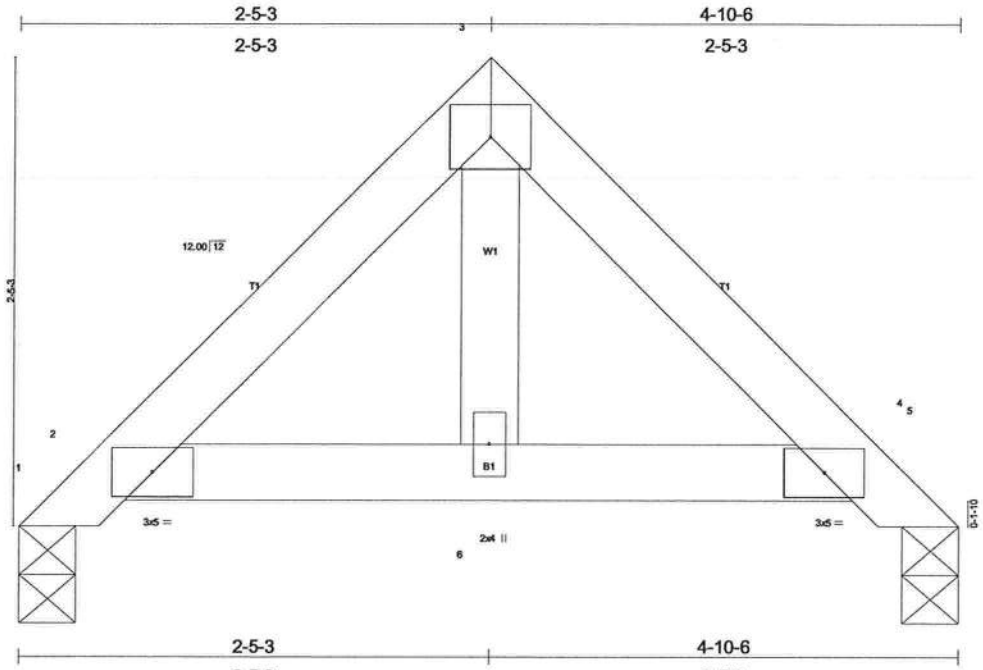
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 11-12=-763/0, 1-11=-492/0, 1-2=-681/79, 2-3=-268/2, 3-4=-283/55, 4-5=-127/66, 6-13=-85/186, 5-6=-96/160
BOT CHORD 10-11=-13/3, 9-10=-13/3, 8-9=-13/3, 7-8=-13/3, 6-7=-13/3
WEBS 3-9=-34/48, 4-8=-193/210, 2-10=-225/552

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All plates are MT20 plates unless otherwise indicated.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 12, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 595 lb uplift at joint 10 and 123 lb uplift at joint 13.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB2	PIGGYBACK	10	1	L288061032
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:51 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.10	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	6	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=148/0-3-8, 5=148/0-3-8
Max Horz 1=64(load case 5)
Max Uplift1=-26(load case 6), 5=-26(load case 7)

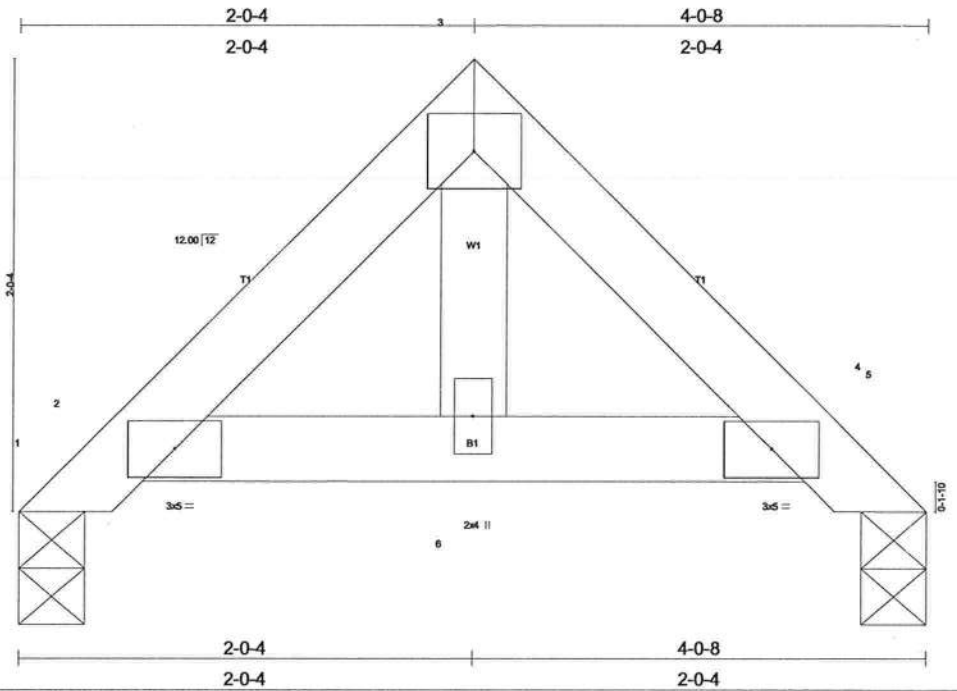
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-94/58, 2-3=-171/98, 3-4=-171/98, 4-5=-94/58
BOT CHORD 2-6=-22/111, 4-6=-22/111
WEBS 3-6=-35/95

NOTES (7)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 26 lb uplift at joint 5.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB2G	PIGGYBACK	1	1	L288061033
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:52 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.08	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.00	6	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 15 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 4-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=121/0-3-8, 5=121/0-3-8
Max Horz 1=-65(load case 4)
Max Uplift1=-46(load case 6), 5=-46(load case 7)

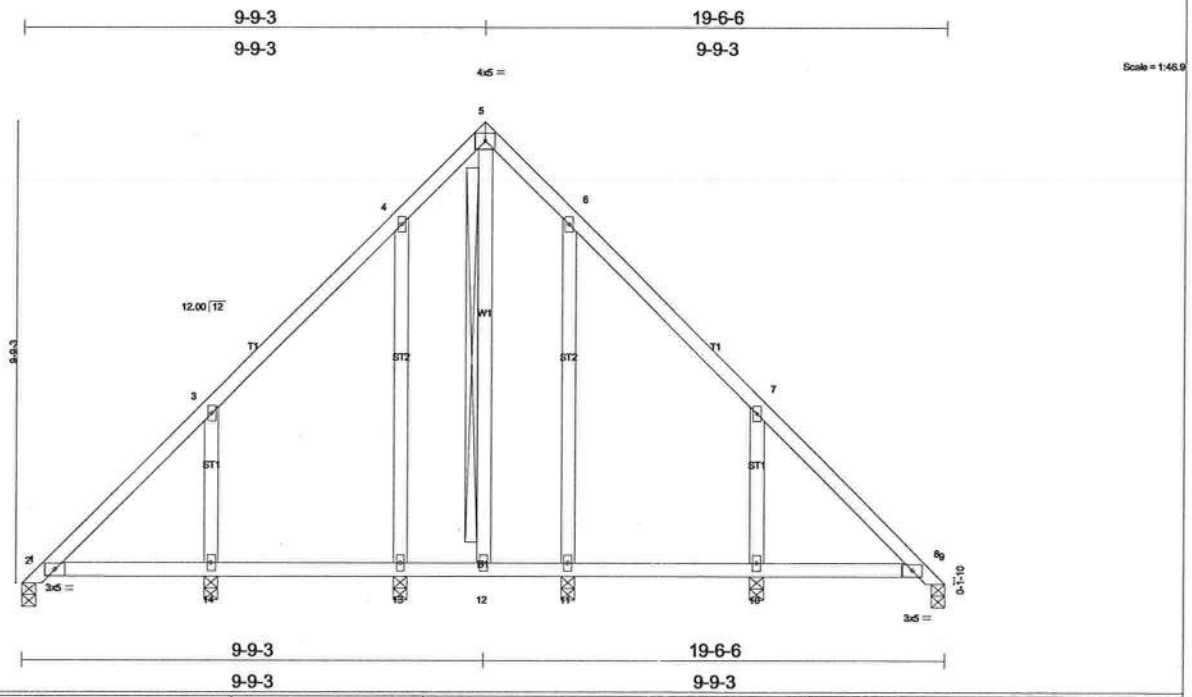
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-77/54, 2-3=-141/80, 3-4=-141/80, 4-5=-77/48
BOT CHORD 2-6=-28/94, 4-6=-28/94
WEBS 3-6=-30/77

NOTES (7)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1 and 46 lb uplift at joint 5.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB3	GABLE	18	1	L288061034 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:54 2008 Page 1



LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	-0.01	12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-14	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 113 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=62/0-3-8, 10=191/0-3-8, 11=158/0-3-8, 14=191/0-3-8, 13=158/0-3-8, 9=62/0-3-8
Max Horz 1=-178(load case 4)
Max Uplift1=-37(load case 4), 10=-135(load case 7), 11=-69(load case 7), 14=-142(load case 6), 13=-79(load case 6)
Max Grav 1=126(load case 5), 10=192(load case 11), 11=158(load case 1), 14=192(load case 10), 13=158(load case 1), 9=95(load case 7)

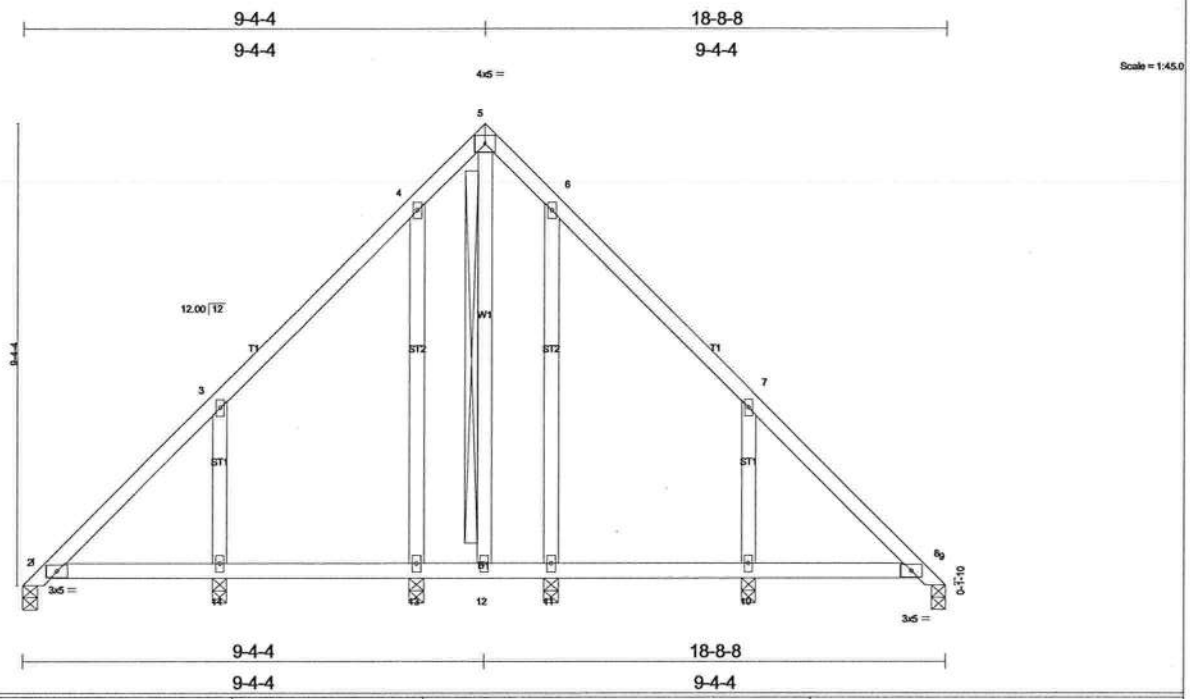
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-217/162, 2-3=-228/68, 3-4=-88/57, 4-5=-38/66, 5-6=-38/66, 6-7=-64/52, 7-8=-228/57, 8-9=-77/0
BOT CHORD 2-14=-16/213, 13-14=-16/213, 12-13=-16/213, 11-12=-16/213, 10-11=-16/213, 8-10=-16/213
WEBS 5-12=-54/0, 7-10=-151/211, 6-11=-127/152, 3-14=-151/211, 4-13=-127/152

NOTES (8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 135 lb uplift at joint 10, 69 lb uplift at joint 11, 142 lb uplift at joint 14 and 79 lb uplift at joint 13.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB3G	GABLE	1	1	L288061035 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:56 2008 Page 1



LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.09	Vert(LL)	0.01	2-14	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-14	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	9	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 110 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
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.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=46/0-3-8, 9=46/0-3-8, 10=190/0-3-8, 11=158/0-3-8, 14=190/0-3-8, 13=158/0-3-8
Max Horz 1=-213(load case 4)
Max Uplift1=-63(load case 4), 9=-3(load case 5), 10=-217(load case 7), 11=-88(load case 7), 14=-224(load case 6), 13=-105(load case 6)
Max Grav 1=141(load case 5), 9=110(load case 7), 10=191(load case 11), 11=158(load case 1), 14=191(load case 10), 13=158(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-253/206, 2-3=-245/107, 3-4=-96/86, 4-5=-19/82, 5-6=-19/82, 6-7=-44/78, 7-8=-219/83, 8-9=-71/5
BOT CHORD 2-14=-28/209, 13-14=-28/209, 12-13=-28/209, 11-12=-28/209, 10-11=-28/209, 8-10=-28/209
WEBS 5-12=-85/0, 7-10=-151/226, 6-11=-127/149, 3-14=-151/229, 4-13=-127/157

NOTES (8)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 3 lb uplift at joint 9, 217 lb uplift at joint 10, 88 lb uplift at joint 11, 224 lb uplift at joint 14 and 105 lb uplift at joint 13.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB4	GABLE	2	1	L288061036 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:58 2008 Page 1

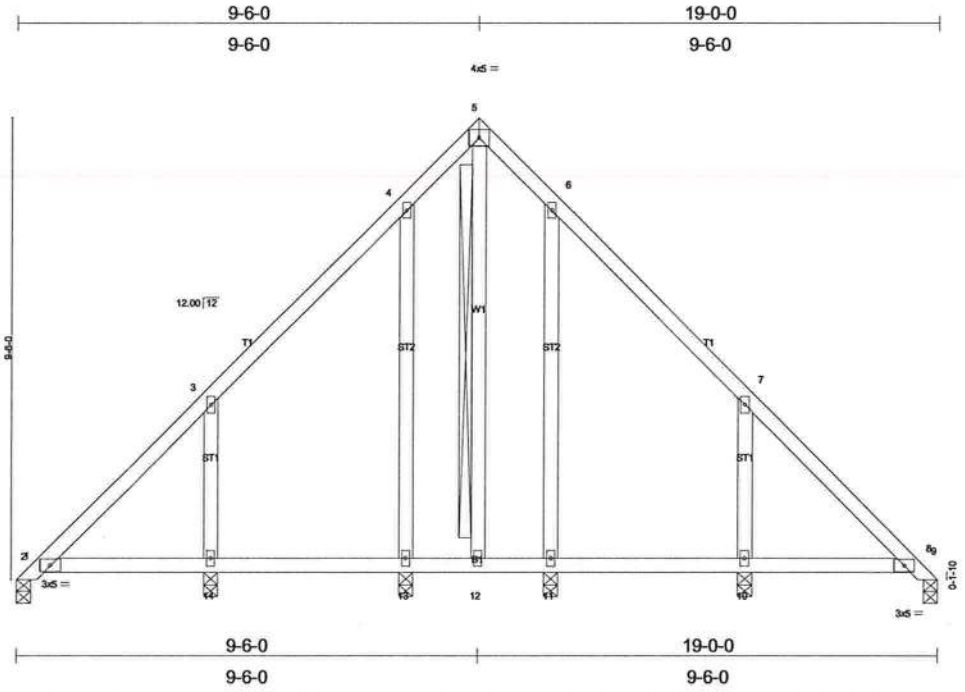


Plate Offsets (X,Y): [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	8-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.01	8-10	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 111 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
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.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=78/0-3-8, 9=78/0-3-8, 10=285/0-3-8, 11=237/0-3-8, 14=285/0-3-8, 13=237/0-3-8
Max Horz 1=260(load case 5)
Max Uplift1=-62(load case 4), 10=-205(load case 7), 11=-86(load case 7), 14=-215(load case 6), 13=-110(load case 5)
Max Grav 1=182(load case 5), 9=129(load case 7), 10=288(load case 11), 11=237(load case 1), 14=288(load case 10), 13=237(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-315/242, 2-3=-320/113, 3-4=-123/103, 4-5=-37/111, 5-6=-37/111, 6-7=-74/103, 7-8=-320/111, 8-9=-106/0
BOT CHORD 2-14=-23/304, 13-14=-23/304, 12-13=-23/304, 11-12=-23/304, 10-11=-23/304, 8-10=-23/304
WEBS 5-12=-109/0, 7-10=-227/318, 6-11=-191/216, 3-14=-227/318, 4-13=-191/216

NOTES (8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1, 205 lb uplift at joint 10, 86 lb uplift at joint 11, 215 lb uplift at joint 14 and 110 lb uplift at joint 13.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB4A	GABLE	1	1	L288061037 Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:00 2008 Page 1

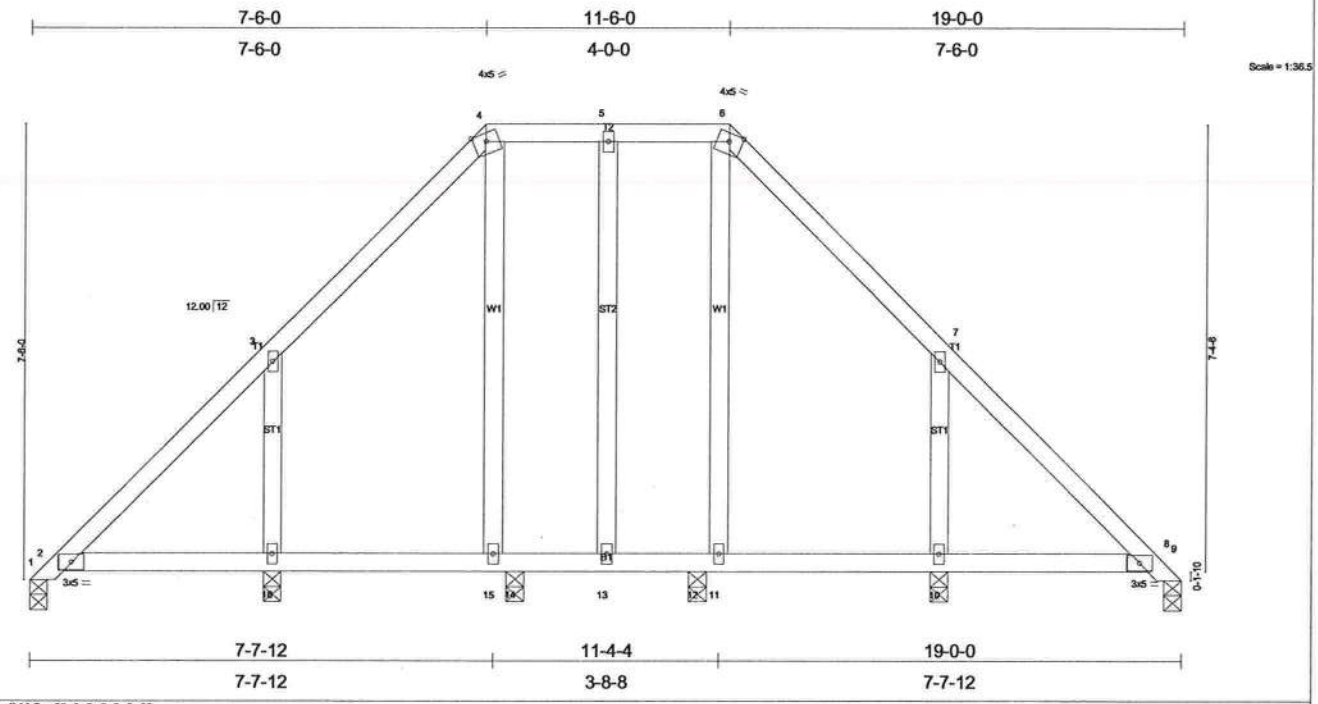


Plate Offsets (X,Y): [3:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	-0.01	8-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	8-10	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 104 lb	

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

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

REACTIONS (lb/size) 1=81/0-3-8, 9=81/0-3-8, 10=284/0-3-8, 16=284/0-3-8, 14=235/0-3-8, 12=235/0-3-8
Max Horz 1=-205(load case 4)
Max Uplift1=-83(load case 4), 10=-198(load case 7), 16=-208(load case 6), 14=-103(load case 5), 12=-38(load case 4)
Max Grav 1=124(load case 5), 9=88(load case 11), 10=284(load case 1), 16=284(load case 1), 14=239(load case 10), 12=239(load case 11)

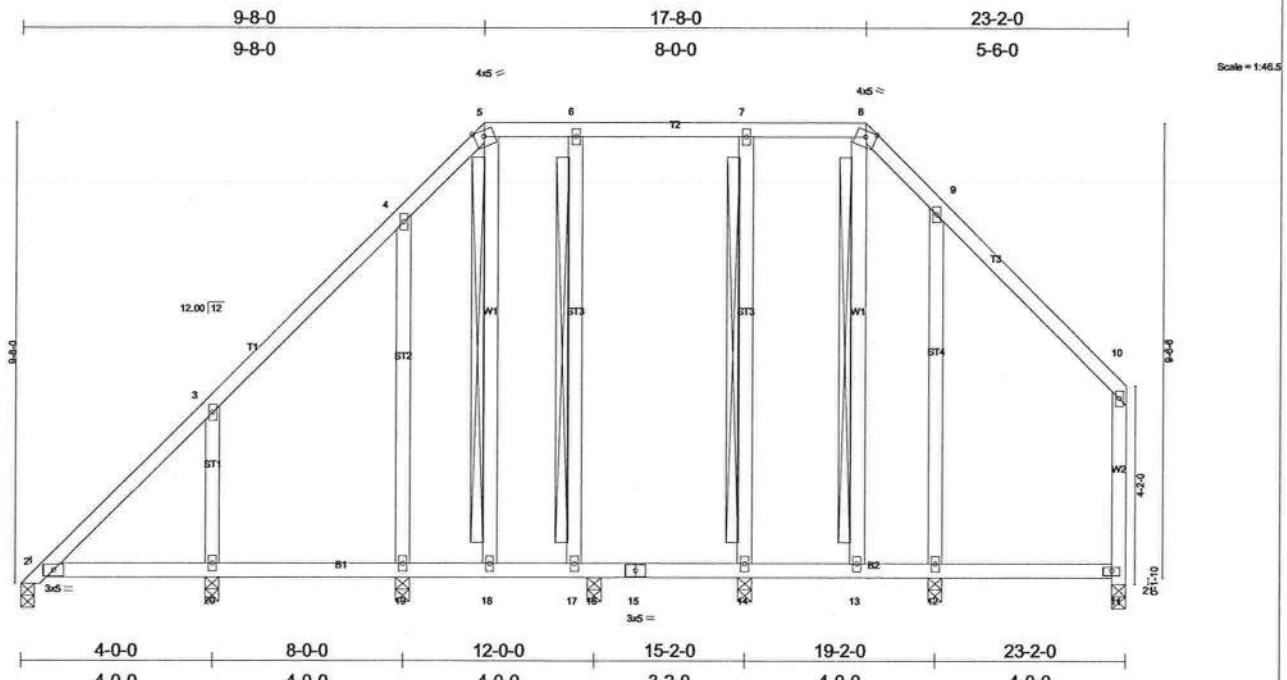
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-236/214, 2-3=-195/149, 3-4=-57/132, 4-5=0/159, 5-6=0/159, 6-7=-57/132, 7-8=-119/103, 8-9=-55/0
BOT CHORD 2-16=-25/163, 15-16=-25/163, 14-15=-23/164, 13-14=-23/164, 12-13=-23/164, 11-12=-23/164, 10-11=-23/163, 8-10=-23/163
WEBS 4-15=-170/104, 6-11=-170/46, 5-13=-89/41, 7-10=-212/295, 3-16=-212/295

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 1, 198 lb uplift at joint 10, 208 lb uplift at joint 16, 103 lb uplift at joint 14 and 38 lb uplift at joint 12.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB5	VALLEY	1	1	L288061038
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:02 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.18	Vert(LL)	-0.01	2-20	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-20	>999	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.21	Horz(TL)	-0.01	21	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 164 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-17, 7-14, 5-18, 8-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=112/0-3-8, 12=249/0-3-8, 14=223/0-3-8, 20=286/0-3-8, 19=247/0-3-8, 21=135/0-3-8, 16=213/0-3-8
Max Horz 1=260(load case 5)
Max Uplift1=-130(load case 4), 12=-60(load case 7), 14=-87(load case 5), 20=-238(load case 6), 19=-154(load case 5), 21=-108(load case 7), 16=-86(load case 5)
Max Grav 1=203(load case 5), 12=249(load case 1), 14=225(load case 10), 20=286(load case 1), 19=254(load case 10), 21=136(load case 11), 16=218(load case 10)

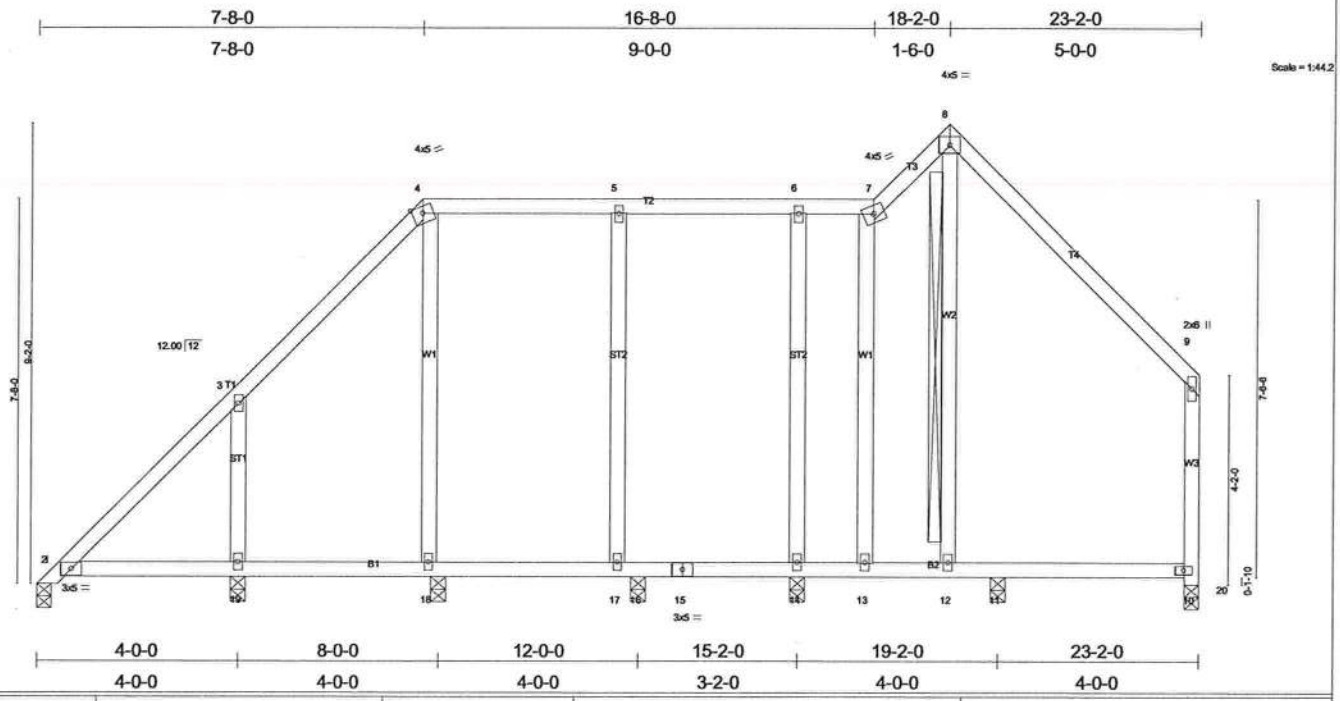
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-329/206, 2-3=-311/235, 3-4=-161/230, 4-5=-90/295, 5-6=-17/249, 6-7=-17/249, 7-8=-17/249, 8-9=-88/299, 9-10=-95/144, 11-21=-136/159, 10-11=-117/160
BOT CHORD 2-20=-11/17, 19-20=-11/17, 18-19=-11/17, 17-18=-13/17, 16-17=-13/17, 15-16=-13/17, 14-15=-13/17, 13-14=-13/17, 12-13=-11/17, 11-12=-11/17
WEBS 6-17=-182/100, 9-12=-199/206, 7-14=-197/107, 3-20=-226/340, 4-19=-201/198, 5-18=-105/18, 8-13=-100/22

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 1, 60 lb uplift at joint 12, 87 lb uplift at joint 14, 238 lb uplift at joint 20, 154 lb uplift at joint 19, 108 lb uplift at joint 21 and 86 lb uplift at joint 16.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB5A	VALLEY	1	1	L288061039
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:04 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.01	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.02	12-13	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.20	Horz(TL)	-0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 142 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 8-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=130/0-3-8, 14=254/0-3-8, 19=271/0-3-8, 18=226/0-3-8, 20=171/0-3-8, 16=225/0-3-8, 11=188/0-3-8
Max Horz 1=245(load case 5)
Max Uplift1=-124(load case 4), 14=-80(load case 6), 19=-217(load case 6), 18=-136(load case 5), 20=-138(load case 7), 16=-101(load case 4)
Max Grav 1=188(load case 5), 14=254(load case 1), 19=271(load case 1), 18=247(load case 10), 20=176(load case 11), 16=231(load case 10), 11=188(load case 1)

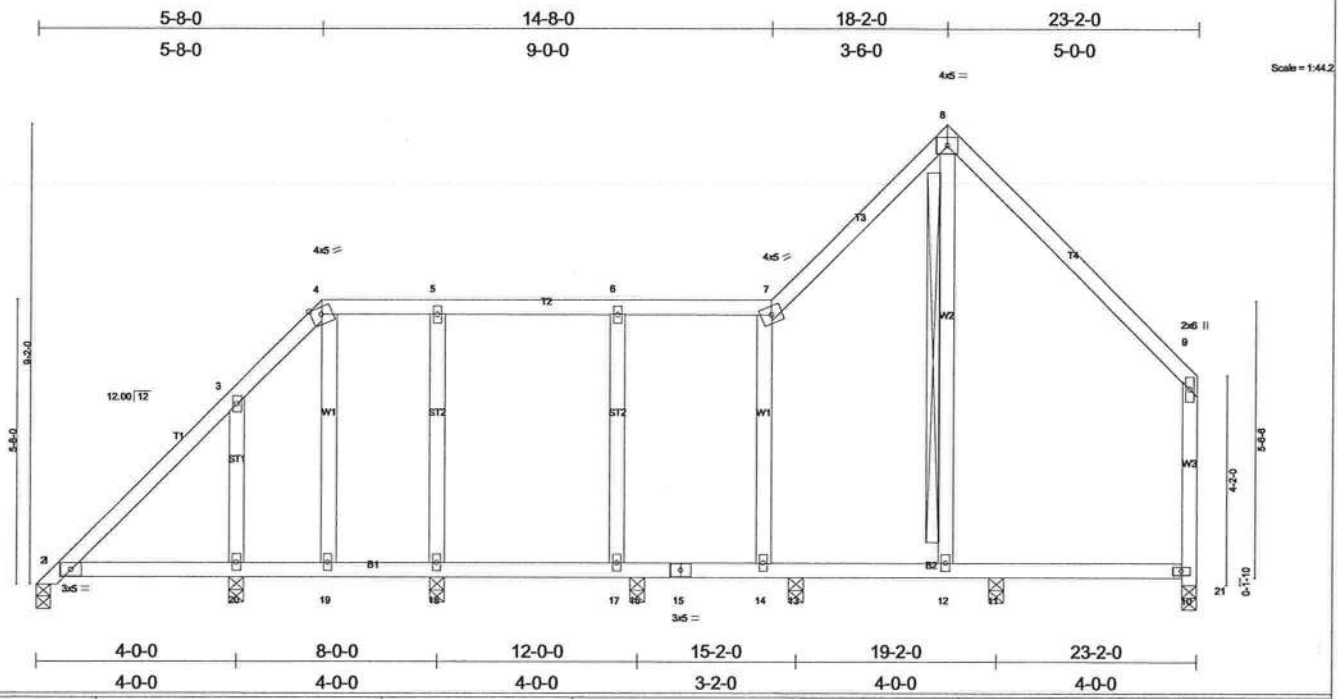
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-308/191, 2-3=-289/224, 3-4=-143/205, 4-5=-50/174, 5-6=-49/174, 6-7=-50/172, 7-8=-34/192, 8-9=-134/190, 10-20=-176/199, 9-10=-161/202
BOT CHORD 2-19=-26/33, 18-19=-26/33, 17-18=-25/30, 16-17=-25/30, 15-16=-25/30, 14-15=-25/30, 13-14=-25/30, 12-13=-26/29, 11-12=-26/29, 10-11=-26/29
WEBS 5-17=-199/132, 6-14=-210/163, 3-19=-211/311, 4-18=-193/159, 7-13=-2/53, 8-12=-192/8

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 1, 80 lb uplift at joint 14, 217 lb uplift at joint 19, 136 lb uplift at joint 18, 138 lb uplift at joint 20 and 101 lb uplift at joint 16.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB5B	VALLEY	1	1	L288061040
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:06 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.01	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.02	12-13	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.01	21	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
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 8-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=123/0-3-8, 20=268/0-3-8, 18=242/0-3-8, 21=176/0-3-8, 11=170/0-3-8, 13=249/0-3-8, 16=238/0-3-8
Max Horz 1=245(load case 5)
Max Uplift1=-123(load case 4), 20=-215(load case 5), 18=-99(load case 5), 21=-131(load case 7), 11=-18(load case 5), 13=-72(load case 6), 16=-159(load case 4)
Max Grav 1=194(load case 5), 20=278(load case 10), 18=254(load case 10), 21=184(load case 11), 11=170(load case 1), 13=249(load case 1), 16=238(load case 1)

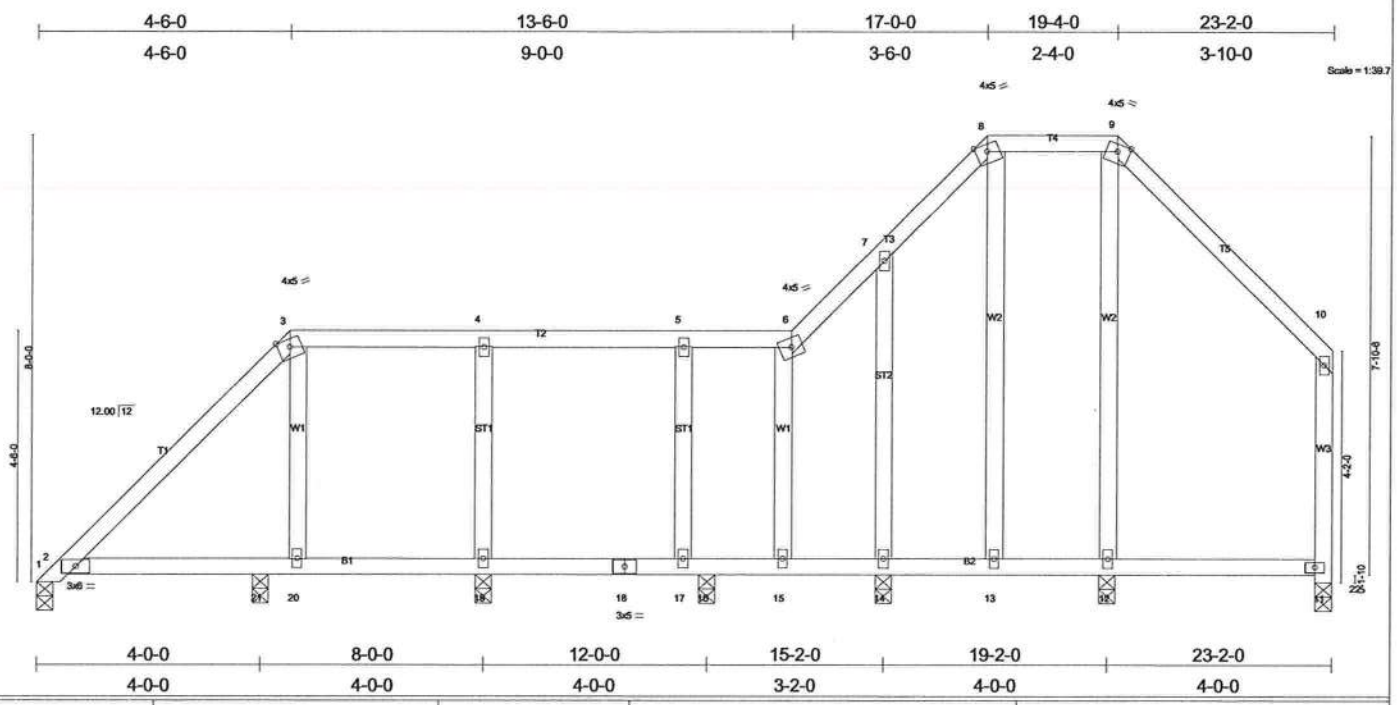
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-312/191, 2-3=-287/214, 3-4=-142/170, 4-5=-102/138, 5-6=-101/138, 6-7=-101/137, 7-8=-102/198, 8-9=-140/178, 10-21=-184/190, 9-10=-167/191
BOT CHORD 2-20=-14/30, 19-20=-14/30, 18-19=-14/30, 17-18=-14/30, 16-17=-14/30, 15-16=-14/30, 14-15=-14/30, 13-14=-20/31, 12-13=-20/31, 11-12=-20/31, 10-11=-20/31
WEBS 6-17=-179/146, 3-20=-191/242, 5-18=-190/110, 7-14=-197/221, 4-19=-53/75, 8-12=-175/56

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 1, 215 lb uplift at joint 20, 99 lb uplift at joint 18, 131 lb uplift at joint 21, 18 lb uplift at joint 11, 72 lb uplift at joint 13 and 159 lb uplift at joint 16.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB5C	VALLEY	1	1	L288061041 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:08 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.01	13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.01	2-21	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	-0.01	22	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
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 1=113/0-3-8, 14=223/0-3-8, 19=266/0-3-8, 12=247/0-3-8, 22=125/0-3-8, 21=260/0-3-8, 16=232/0-3-8
Max Horz 1=214(load case 5)
Max Uplift1=-78(load case 4), 14=-93(load case 5), 19=-76(load case 4), 12=-30(load case 5), 22=-103(load case 7), 21=-200(load case 5), 16=-160(load case 4)
Max Grav 1=147(load case 5), 14=235(load case 10), 19=269(load case 10), 12=247(load case 1), 22=126(load case 11), 21=264(load case 10), 16=232(load case 1)

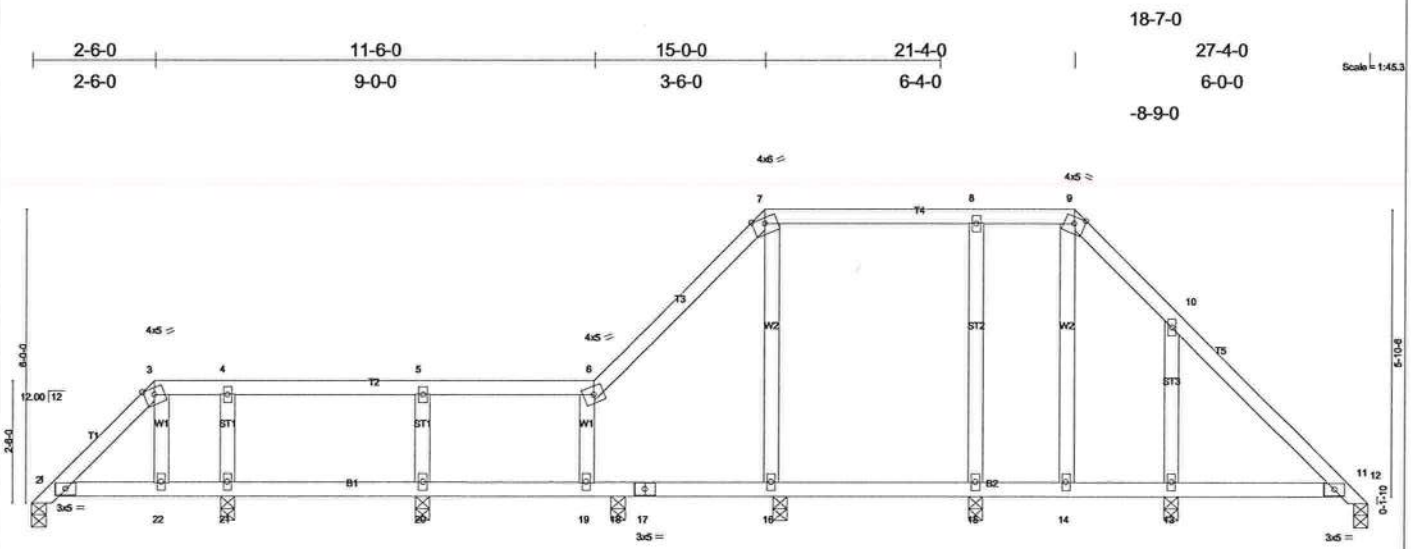
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-258/137, 2-3=-210/152, 3-4=-95/103, 4-5=-94/103, 5-6=-95/102, 6-7=-106/146, 7-8=-70/182, 8-9=-11/175, 9-10=-87/140, 11-22=-126/150, 10-11=-107/153
BOT CHORD 2-21=-17/16, 20-21=-17/16, 19-20=-9/11, 18-19=-9/11, 17-18=-9/11, 16-17=-9/11, 15-16=-9/11, 14-15=-12/12, 13-14=-12/12, 12-13=-13/11, 11-12=-13/15
WEBS 5-17=-163/140, 7-14=-138/135, 4-19=-195/117, 9-12=-188/34, 8-13=-64/60, 6-15=-72/85, 3-20=-200/220

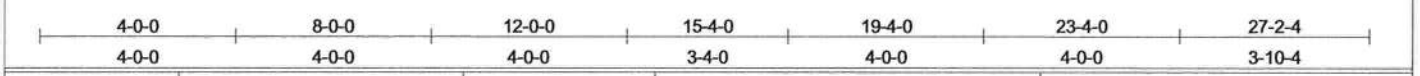
NOTES (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 1, 93 lb uplift at joint 14, 76 lb uplift at joint 19, 30 lb uplift at joint 12, 103 lb uplift at joint 22, 200 lb uplift at joint 21 and 160 lb uplift at joint 16.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB5D	VALLEY	1	1	L288061042 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:10 2008 Page 1





LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	19-20	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	19-20	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 127 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=89/0-3-8, 13=280/0-3-8, 15=276/0-3-8, 21=290/0-3-8, 20=268/0-3-8, 16=240/0-3-8, 12=91/0-3-8, 18=200/0-3-8
Max Horz 1=163(load case 5)
Max Uplift1=-15(load case 4), 13=-156(load case 7), 15=-99(load case 4), 21=-150(load case 6), 20=-124(load case 4), 16=-88(load case 5), 12=-15(load case 5), 18=-75(load case 6)
Max Grav 1=93(load case 10), 13=280(load case 1), 15=279(load case 11), 21=290(load case 1), 20=270(load case 10), 16=240(load case 1), 12=96(load case 11), 18=206(load case 10)

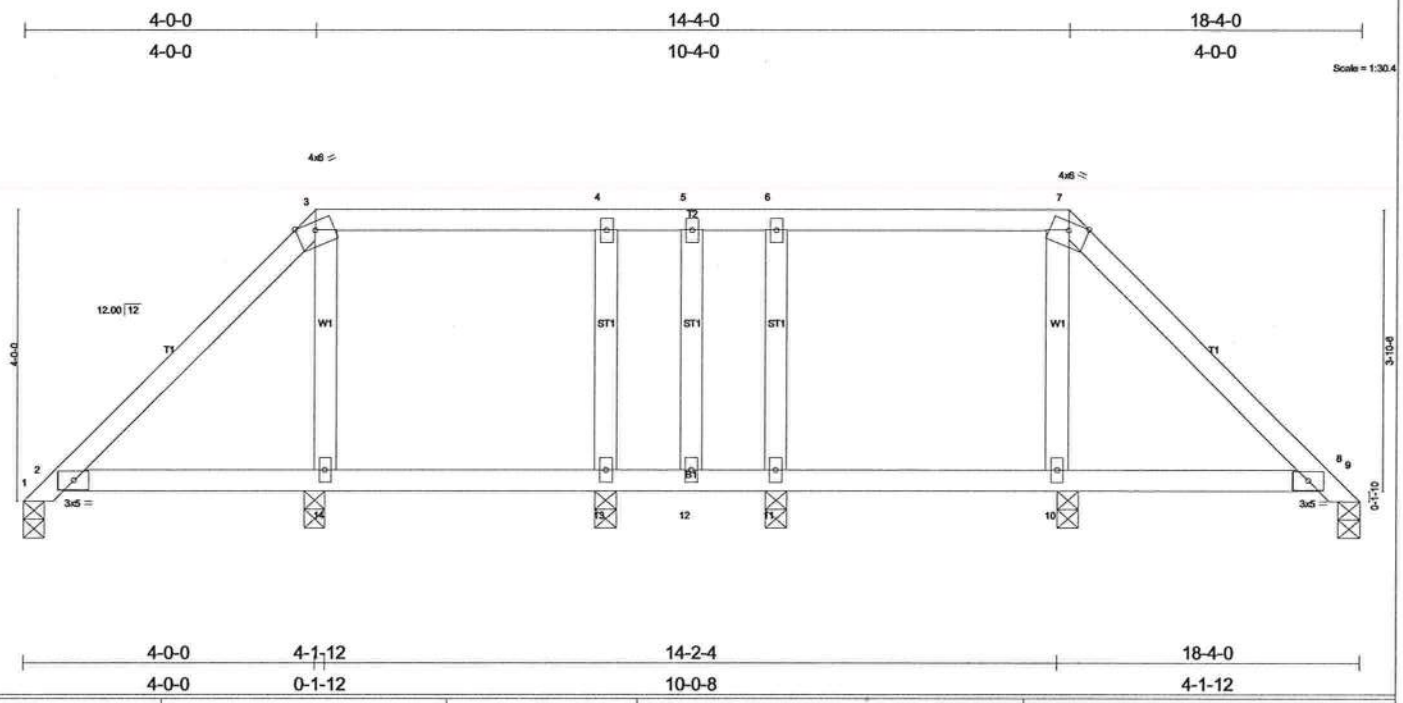
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-158/139, 2-3=-123/51, 3-4=-56/31, 4-5=-55/31, 5-6=-55/31, 6-7=-64/80, 7-8=0/106, 8-9=0/106, 9-10=-59/106, 10-11=-111/88, 11-12=-60/14
BOT CHORD 2-22=-49/153, 21-22=-45/159, 20-21=-45/159, 19-20=-45/159, 18-19=-48/148, 17-18=-48/148, 16-17=-48/148, 15-16=-45/151, 14-15=-45/151, 13-14=-45/152, 11-13=-45/152
WEBS 10-13=-197/237, 8-15=-224/120, 4-21=-213/172, 5-20=-211/138, 6-19=-172/155, 3-22=-35/77, 7-16=-228/138, 9-14=-36/9

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 156 lb uplift at joint 13, 99 lb uplift at joint 15, 150 lb uplift at joint 21, 124 lb uplift at joint 20, 88 lb uplift at joint 16, 15 lb uplift at joint 12 and 75 lb uplift at joint 18.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB6	GABLE	1	1	L288061043 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:11 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	2-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-14	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 82 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=56/0-3-8, 9=56/0-3-8, 14=333/0-3-8, 10=333/0-3-8, 11=190/0-3-8, 13=189/0-3-8
Max Horz 1=108(load case 5)
Max Uplift1=-35(load case 4), 9=-23(load case 4), 14=-138(load case 5), 10=-92(load case 7), 11=-94(load case 5), 13=-95(load case 4)
Max Grav 1=79(load case 10), 9=79(load case 11), 14=333(load case 1), 10=333(load case 1), 11=210(load case 10), 13=210(load case 11)

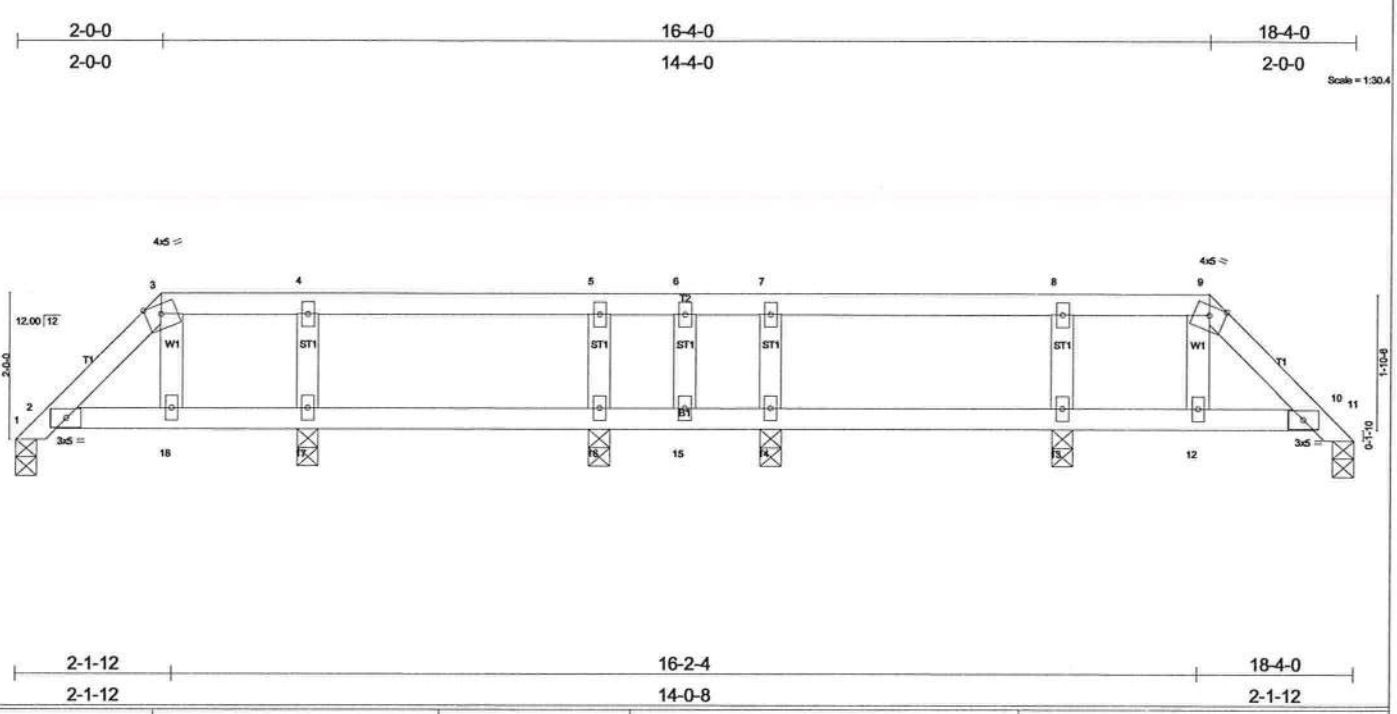
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-104/109, 2-3=-74/146, 3-4=0/59, 4-5=0/59, 5-6=0/59, 6-7=0/59, 7-8=-71/146, 8-9=-50/19
BOT CHORD 2-14=-47/131, 13-14=-58/139, 12-13=-58/139, 11-12=-58/139, 10-11=-58/139, 8-10=-47/131
WEBS 3-14=-273/198, 7-10=-273/198, 5-12=-19/25, 6-11=-192/117, 4-13=-192/117

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 23 lb uplift at joint 9, 138 lb uplift at joint 14, 92 lb uplift at joint 10, 94 lb uplift at joint 11 and 95 lb uplift at joint 13.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB6A	GABLE	1	1	L288061044 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:13 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	0.01	18	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	12	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(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
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) 1=129/0-3-8, 11=129/0-3-8, 13=255/0-3-8, 14=194/0-3-8, 17=255/0-3-8, 16=194/0-3-8
Max Horz 1=52(load case 5)
Max Uplift1=-26(load case 6), 11=-29(load case 7), 13=-102(load case 4), 14=-80(load case 5), 17=-110(load case 5), 16=-82(load case 4)
Max Grav 1=129(load case 1), 11=129(load case 1), 13=265(load case 11), 14=201(load case 10), 17=265(load case 10), 16=201(load case 11)

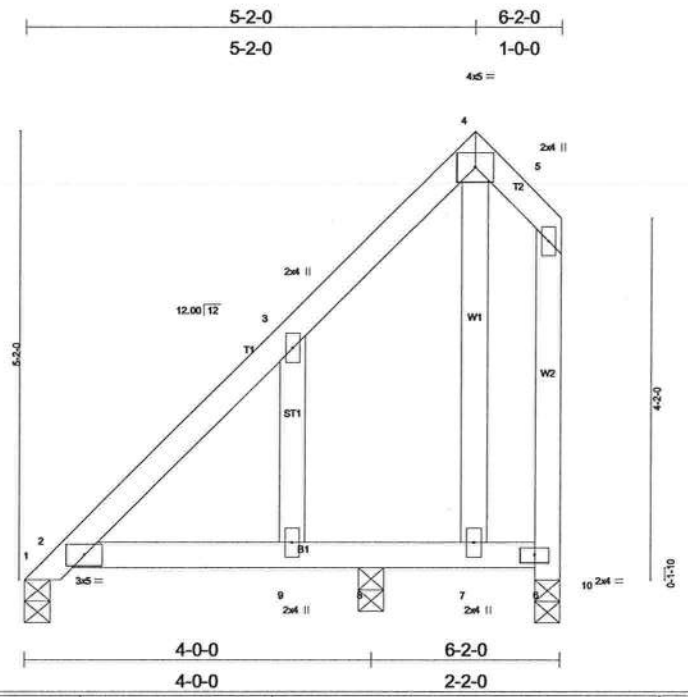
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-82/45, 2-3=-119/62, 3-4=-71/74, 4-5=-70/75, 5-6=-70/75, 6-7=-70/75, 7-8=-70/75, 8-9=-71/74, 9-10=-119/62, 10-11=-82/45
BOT CHORD 2-18=-21/70, 17-18=-19/70, 16-17=-19/70, 15-16=-19/70, 14-15=-19/70, 13-14=-19/70, 12-13=-19/70, 10-12=-19/70
WEBS 3-18=-5/29, 9-12=-4/29, 6-15=-32/30, 8-13=-206/139, 7-14=-185/138, 4-17=-206/139, 5-16=-185/138

NOTES (9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 29 lb uplift at joint 11, 102 lb uplift at joint 13, 80 lb uplift at joint 14, 110 lb uplift at joint 17 and 82 lb uplift at joint 16.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB7	VALLEY	3	1	L288061045 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:15 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.07	Vert(LL)	0.02	2-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.02	2-9	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 37 lb	

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

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

REACTIONS (lb/size) 1=103/0-3-8, 10=23/0-3-8, 8=251/0-3-8
Max Horz 1=144(load case 6)
Max Uplift1=-1(load case 4), 10=-5(load case 10), 8=-176(load case 6)
Max Grav 1=103(load case 1), 10=37(load case 11), 8=251(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-208/27, 2-3=-200/58, 3-4=-49/44, 4-5=-25/39, 6-10=-37/5, 5-6=-31/31
BOT CHORD 2-9=-2/4, 8-9=-2/4, 7-8=-2/4, 6-7=-2/4
WEBS 3-9=-132/217, 4-7=-115/133

NOTES (7)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 5 lb uplift at joint 10 and 176 lb uplift at joint 8.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB7A	VALLEY	1	1	L288061046
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:17 2008 Page 1

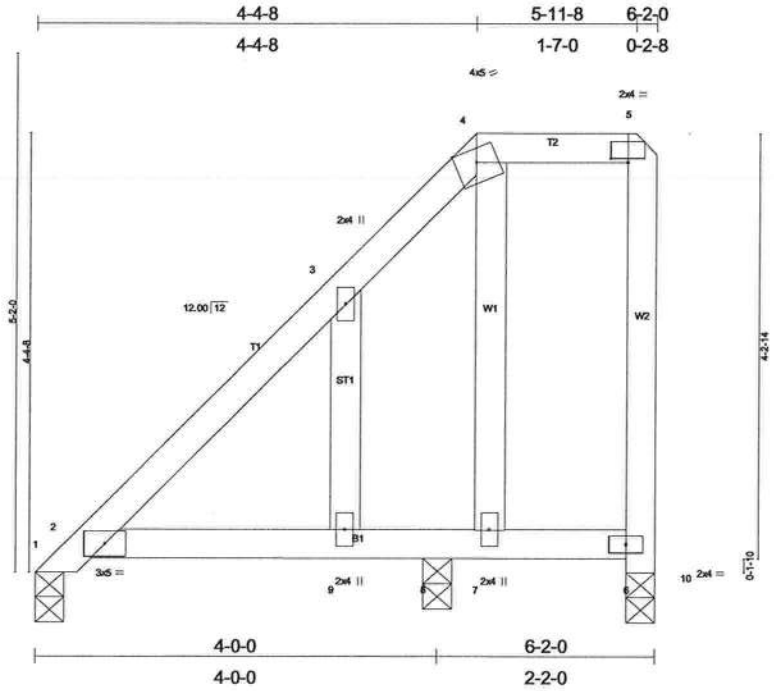


Plate Offsets (X,Y): [5:0-2-0,0-0-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.07	Vert(LL)	0.02	2-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.01	2-9	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 35 lb	

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

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

REACTIONS (lb/size) 1=103/0-3-8, 10=23/0-3-8, 8=252/0-3-8
Max Horz 1=137(load case 6)
Max Uplift10=-37(load case 4), 8=-168(load case 6)
Max Grav 1=103(load case 1), 10=25(load case 6), 8=252(load case 1)

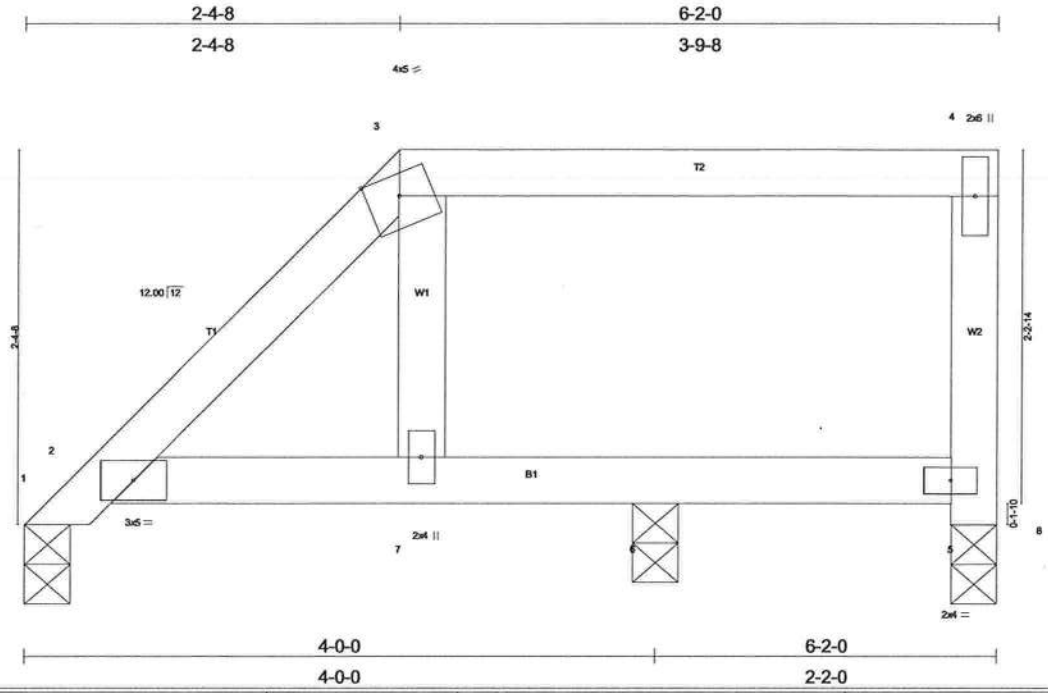
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-217/0, 2-3=-196/49, 3-4=-67/35, 4-5=-4/2, 6-10=-25/37, 5-6=-21/32
BOT CHORD 2-9=-3/2, 8-9=-3/2, 7-8=-3/2, 6-7=-3/3
WEBS 3-9=-89/160, 4-7=-119/168

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 10 and 168 lb uplift at joint 8.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB7B	MONO HIP PIGGYBACK	1	1	L288061047 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:18 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.03	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.02	2-7	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 lb	

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

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

REACTIONS (lb/size) 1=145/0-3-8, 8=105/0-3-8, 6=127/0-3-8
Max Horz 1=73(load case 6)
Max Uplift1=-12(load case 5), 8=-53(load case 4), 6=-39(load case 6)

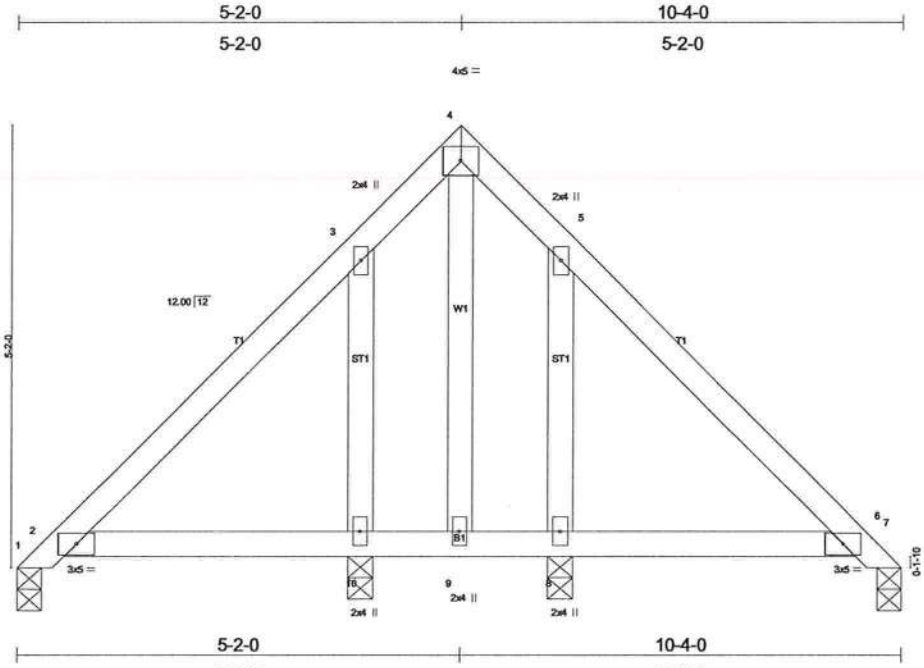
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-92/4, 2-3=-92/26, 3-4=-52/59, 5-8=-105/105, 4-5=-112/131
BOT CHORD 2-7=-71/60, 6-7=-60/52, 5-6=-60/52
WEBS 3-7=-103/150

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 1, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 53 lb uplift at joint 8 and 39 lb uplift at joint 6.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB8	GABLE	7	1	L288061048 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:20 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	0.01	2-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-10	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 52 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
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) 1=33/0-3-8, 7=33/0-3-8, 8=290/0-3-8, 10=290/0-3-8
Max Horz 1=-139(load case 4)
Max Uplift1=-25(load case 4), 7=-8(load case 10), 8=-143(load case 7), 10=-165(load case 6)
Max Grav 1=79(load case 5), 7=54(load case 11), 8=290(load case 1), 10=290(load case 1)

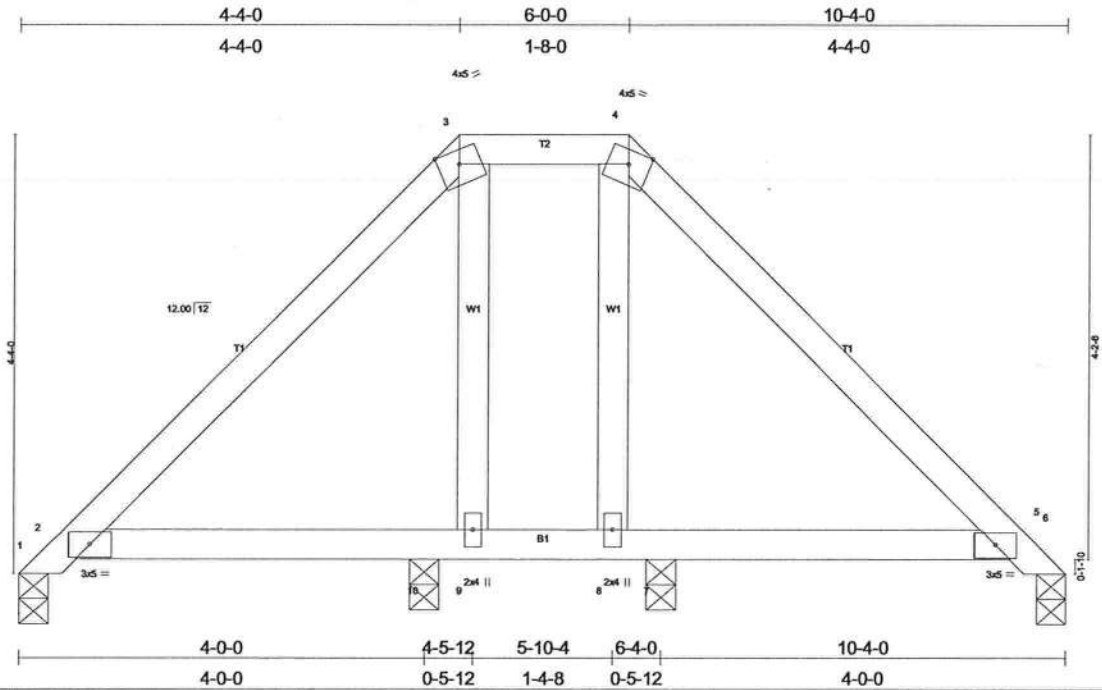
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-157/127, 2-3=-205/179, 3-4=-9/82, 4-5=-18/82, 5-6=-205/179, 6-7=-52/12
BOT CHORD 2-10=-75/238, 9-10=-75/238, 8-9=-75/238, 6-8=-75/238
WEBS 4-9=-83/5, 5-8=-199/253, 3-10=-199/253

NOTES (7)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 8 lb uplift at joint 7, 143 lb uplift at joint 8 and 165 lb uplift at joint 10.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB8A	HIP PIGGYBACK	1	1	L288061049
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:21 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	5-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.01	5-7	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

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

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

REACTIONS (lb/size) 1=68/0-3-8, 6=68/0-3-8, 10=255/0-3-8, 7=255/0-3-8
Max Horz 1=-117(load case 4)
Max Uplift1=-33(load case 4), 6=-11(load case 4), 10=-126(load case 5), 7=-90(load case 7)
Max Grav 1=84(load case 10), 6=84(load case 11), 10=255(load case 1), 7=255(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-114/115, 2-3=-68/128, 3-4=0/51, 4-5=-67/128, 5-6=-53/11
BOT CHORD 2-10=-47/148, 9-10=-47/148, 8-9=-51/154, 7-8=-47/148, 5-7=-47/148
WEBS 3-9=-202/157, 4-8=-202/157

NOTES (8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 11 lb uplift at joint 6, 126 lb uplift at joint 10 and 90 lb uplift at joint 7.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB9	GABLE	1	1	L288061050 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:23 2008 Page 1

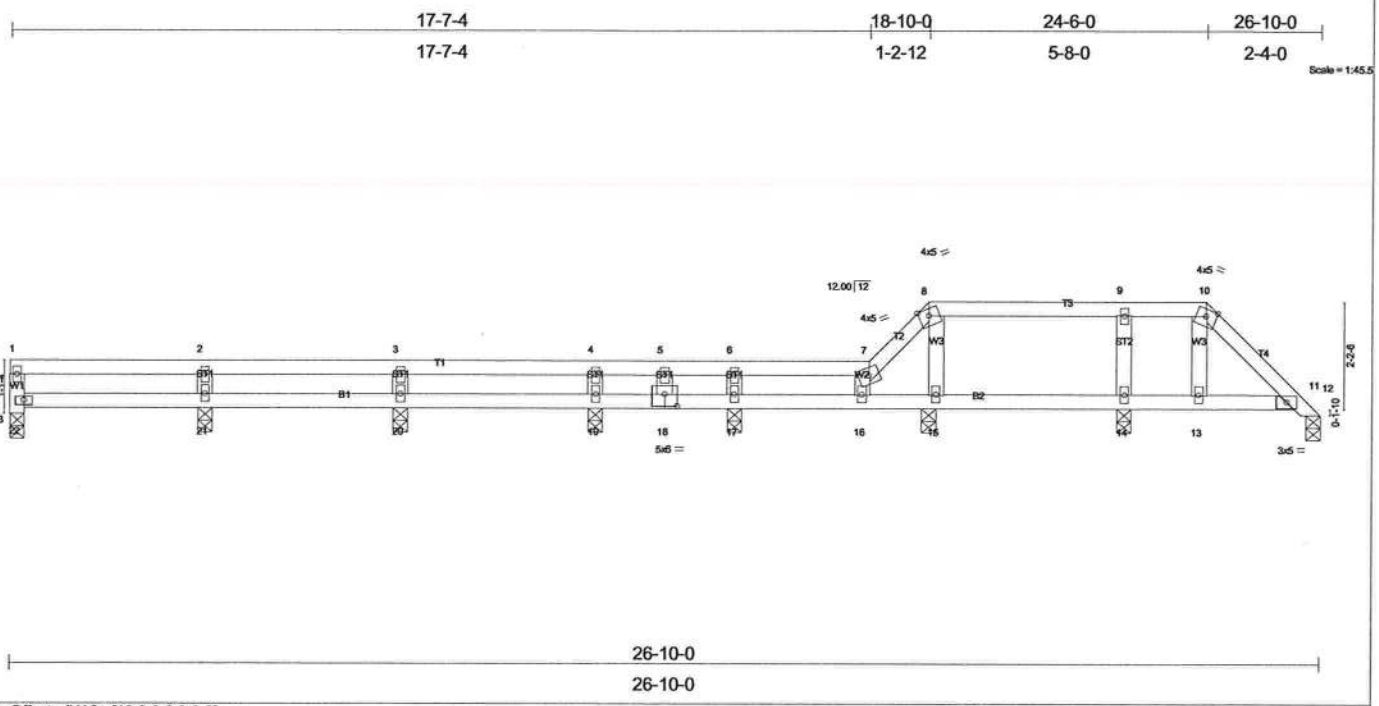


Plate Offsets (X,Y): [18:0-3-0,0-3-0]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	0.01	13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	11-13	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 93 lb	

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

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

REACTIONS (lb/size) 12=72/0-3-8, 14=178/0-3-8, 17=155/0-3-8, 21=183/0-3-8, 20=174/0-3-8, 19=137/0-3-8, 15=166/0-3-8, 23=68/0-3-8
Max Horz 23=-41(load case 4)
Max Uplift12=-18(load case 7), 14=-65(load case 4), 17=-54(load case 4), 21=-59(load case 4), 20=-65(load case 4), 19=-50(load case 4), 15=-51(load case 5), 23=-31(load case 4)
Max Grav 12=73(load case 11), 14=184(load case 11), 17=155(load case 1), 21=185(load case 10), 20=174(load case 1), 19=139(load case 10), 15=172(load case 10), 23=68(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 22-23=-68/37, 1-22=-61/45, 1-2=-23/15, 2-3=-23/15, 3-4=-23/15, 4-5=-23/15, 5-6=-23/15, 6-7=-23/15, 7-8=-10/30, 8-9=-16/38, 9-10=-15/38, 10-11=-44/22, 11-12=-46/26
BOT CHORD 21-22=-15/28, 20-21=-15/28, 19-20=-15/28, 18-19=-15/28, 17-18=-15/28, 16-17=-15/28, 15-16=-16/24, 14-15=-11/27, 13-14=-11/27, 11-13=-11/26
WEBS 5-18=-0/1, 9-14=-140/89, 6-17=-119/84, 2-21=-151/106, 3-20=-147/106, 4-19=-120/86, 8-15=-131/78, 7-16=-24/29, 10-13=-11/9

NOTES (8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Bearing at joint(s) 12, 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 12, 65 lb uplift at joint 14, 54 lb uplift at joint 17, 59 lb uplift at joint 21, 65 lb uplift at joint 20, 50 lb uplift at joint 19, 51 lb uplift at joint 15 and 31 lb uplift at joint 23.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB10	PIGGYBACK	2	1	L288061023
		3x5 =			Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:36 2008 Page 1

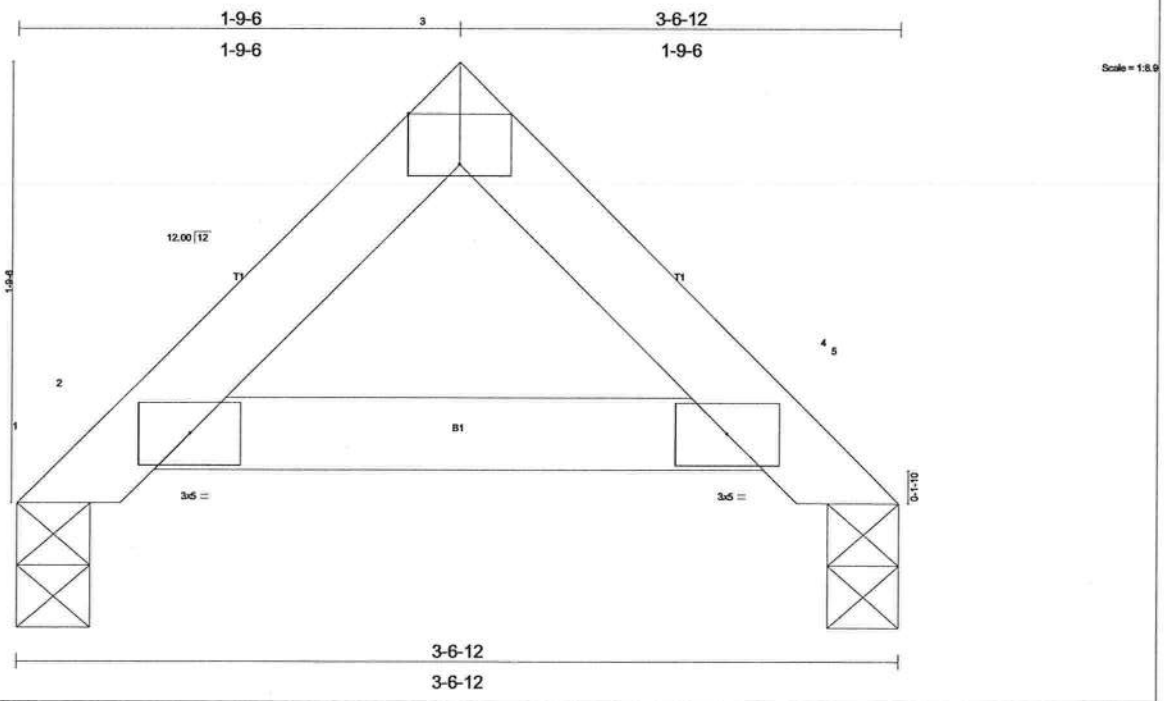


Plate Offsets (X,Y): [3:0-2-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.07	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	2-4	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 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 3-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=106/0-3-8, 5=106/0-3-8
Max Horz 1=-45(load case 4)
Max Uplift1=-19(load case 6), 5=-19(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-67/42, 2-3=-97/56, 3-4=-97/56, 4-5=-67/42
BOT CHORD 2-4=-17/71

NOTES (7)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 19 lb uplift at joint 5.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	PB10G	PIGGYBACK	1	1	L288061024
		3x5 =			Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:37:38 2008 Page 1

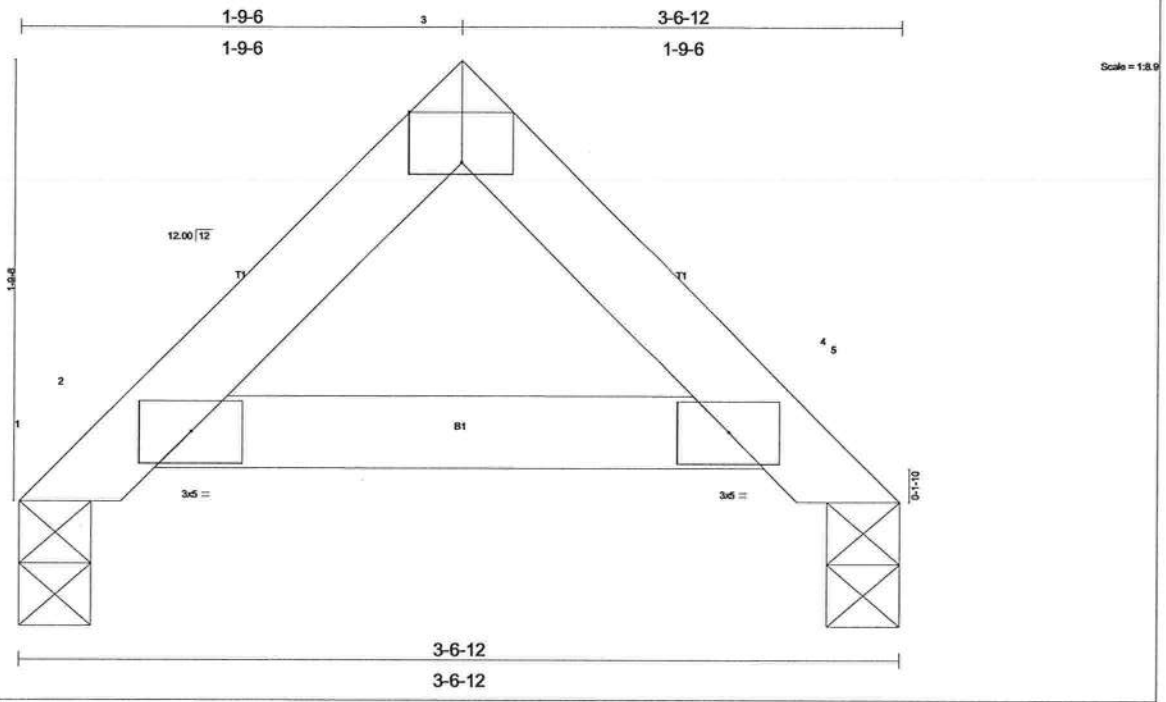


Plate Offsets (X,Y): [3:0-2-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.07	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	2-4	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 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 3-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=106/0-3-8, 5=106/0-3-8
Max Horz 1=-57(load case 4)
Max Uplift1=-40(load case 6), 5=-40(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-67/47, 2-3=-97/56, 3-4=-97/56, 4-5=-67/42
BOT CHORD 2-4=-24/71

NOTES (7)
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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 40 lb uplift at joint 5.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T01G	GABLE	1	1	L288061051 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:26 2008 Page 1

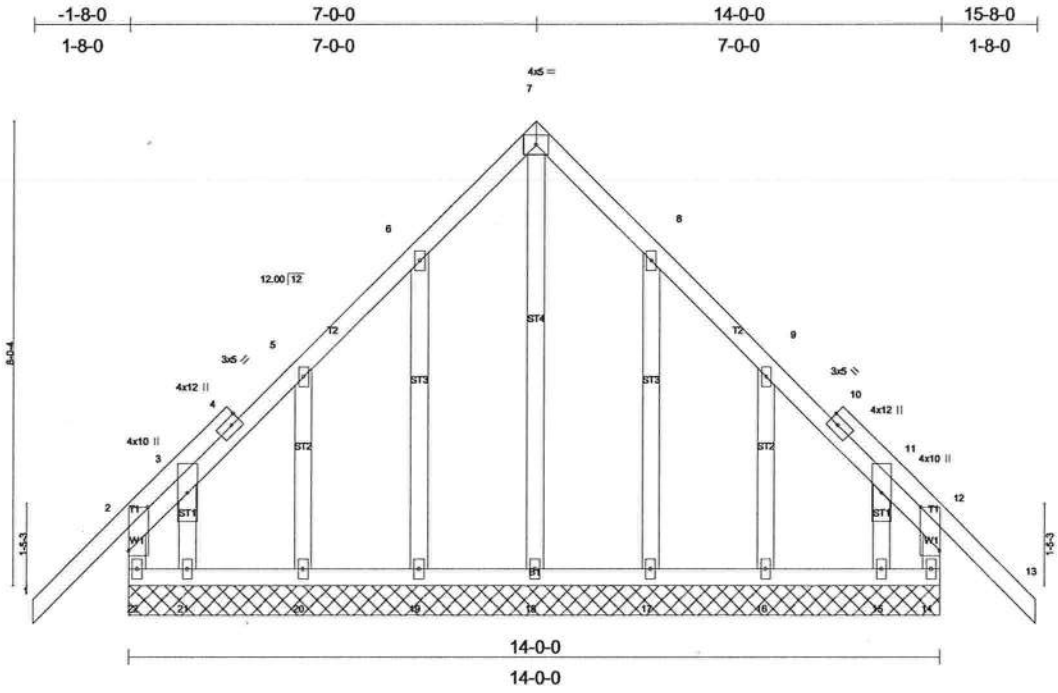


Plate Offsets (X,Y): [2:0-9-0,Edge], [12:0-9-0,Edge]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.34	Vert(LL) -0.02 13 n/r 120	MT20 244/190
TCDL 7.0		Lumber Increase 1.25	BC 0.15	Vert(TL) -0.02 13 n/r 90	
BCLL 10.0	*	Rep Stress Incr YES	WB 0.29	Horz(TL) 0.00 14 n/a n/a	
BCDL 5.0		Code FBC2004/TPI2002	(Matrix)		Weight: 110 lb

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

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

REACTIONS (lb/size) 22=194/14-0-0, 14=194/14-0-0, 18=139/14-0-0, 19=130/14-0-0, 20=128/14-0-0, 21=16/14-0-0, 17=130/14-0-0, 16=128/14-0-0, 15=16/14-0-0
Max Horz 22=290(load case 5)
Max Uplift 22=-277(load case 4), 14=-216(load case 5), 19=-143(load case 6), 20=-147(load case 6), 21=-269(load case 5), 17=-141(load case 7), 16=-150(load case 7), 15=-233(load case 4)
Max Grav 22=296(load case 5), 14=235(load case 4), 18=263(load case 7), 19=133(load case 10), 20=128(load case 1), 21=202(load case 4), 17=133(load case 11), 16=128(load case 1), 15=166(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=-243/215, 3-4=-140/137, 4-5=-130/148, 5-6=-58/171, 6-7=-36/269, 7-8=-36/269, 8-9=-31/159, 9-10=-92/109, 10-11=-102/99, 11-12=-193/165, 12-13=0/63, 2-22=-184/203, 12-14=-184/162
BOT CHORD 21-22=-81/220, 20-21=-76/222, 19-20=-76/222, 18-19=-76/222, 17-18=-76/222, 16-17=-76/222, 15-16=-76/222, 14-15=-72/219
WEBS 7-18=-283/0, 6-19=-114/152, 5-20=-106/172, 3-21=-118/147, 8-17=-114/150, 9-16=-106/172, 11-15=-102/131

NOTES (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 22, 216 lb uplift at joint 14, 143 lb uplift at joint 19, 147 lb uplift at joint 20, 269 lb uplift at joint 21, 141 lb uplift at joint 17, 150 lb uplift at joint 16 and 233 lb uplift at joint 15.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T02	PIGGYBACK ATTIC	6	1	L288061052 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:28 2008 Page 1

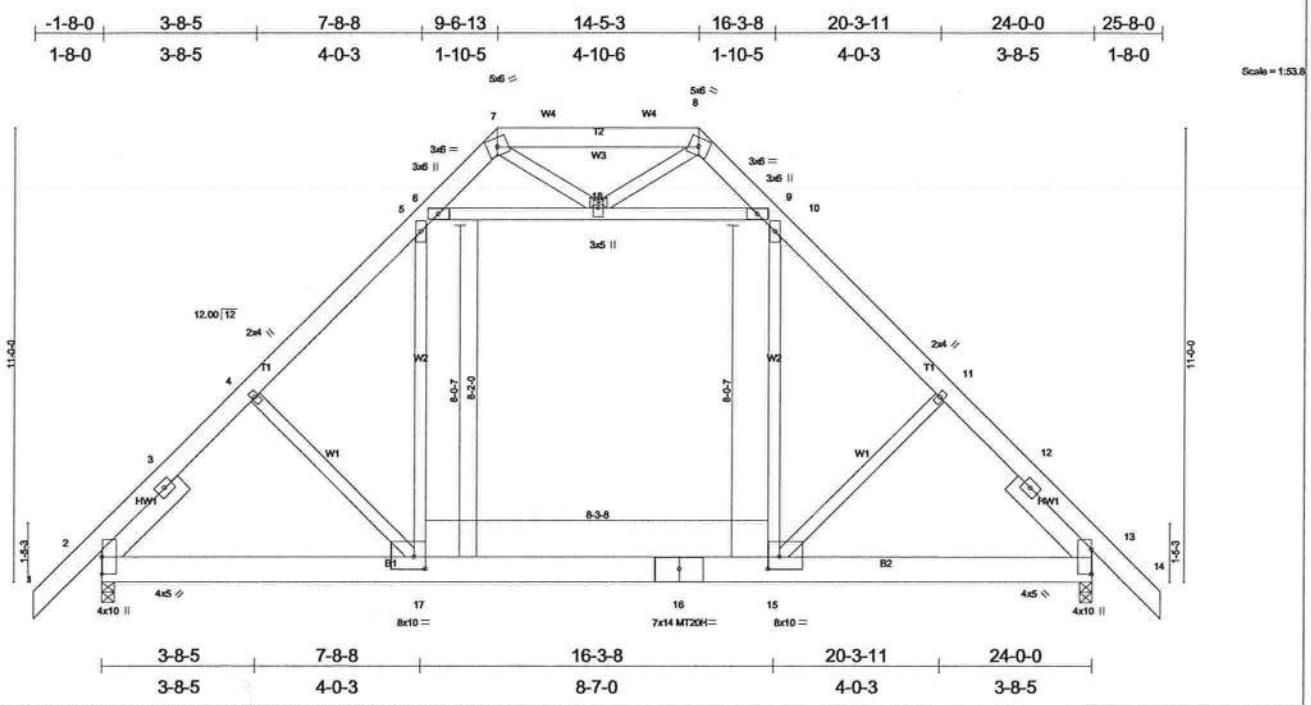


Plate Offsets (X,Y): [2:0-5-0,0-0-1], [13:0-7-3,0-0-1], [15:0-3-5,0-3-9], [17:0-3-5,0-3-9]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.22	Vert(LL) -0.09 15-17 >999 360	MT20 244/190
TCDL 7.0		Lumber Increase 1.25	BC 0.31	Vert(TL) -0.14 15-17 >999 240	MT20H 187/143
BCLL 10.0	*	Rep Stress Incr YES	WB 0.23	Horz(TL) 0.02 13 n/a n/a	
BCDL 5.0		Code FBC2004/TPI2002	(Matrix)		Weight: 235 lb

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 6 SYP No.1D 2-8-0, Right 2 X 6 SYP No.1D 2-8-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-9

REACTIONS (lb/size) 2=1415/0-3-8, 13=1415/0-3-8
Max Horz 2=288(load case 5)
Max Uplift2=-45(load case 6), 13=-45(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-3=-1642/187, 3-4=-1576/208, 4-5=-1487/237, 5-6=-917/271, 6-7=-309/147, 8-9=-309/147, 9-10=-917/271, 10-11=-1487/237, 11-12=-1576/208, 12-13=-1641/187, 13-14=0/41, 7-8=-212/108
BOT CHORD 2-17=-120/982, 16-17=0/1022, 15-16=0/1022, 13-15=0/982
WEBS 5-17=-30/596, 10-15=-30/596, 6-18=-851/202, 9-18=-851/202, 4-17=-98/232, 11-15=-99/233, 7-18=-75/130, 8-18=-75/130

NOTES (10)
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 and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 9-18; Wall dead load (5.0psf) on member(s).5-17, 10-15
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2 and 45 lb uplift at joint 13.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T02A	PIGGYBACK ATTIC	3	1	L288061053 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:30 2008 Page 1

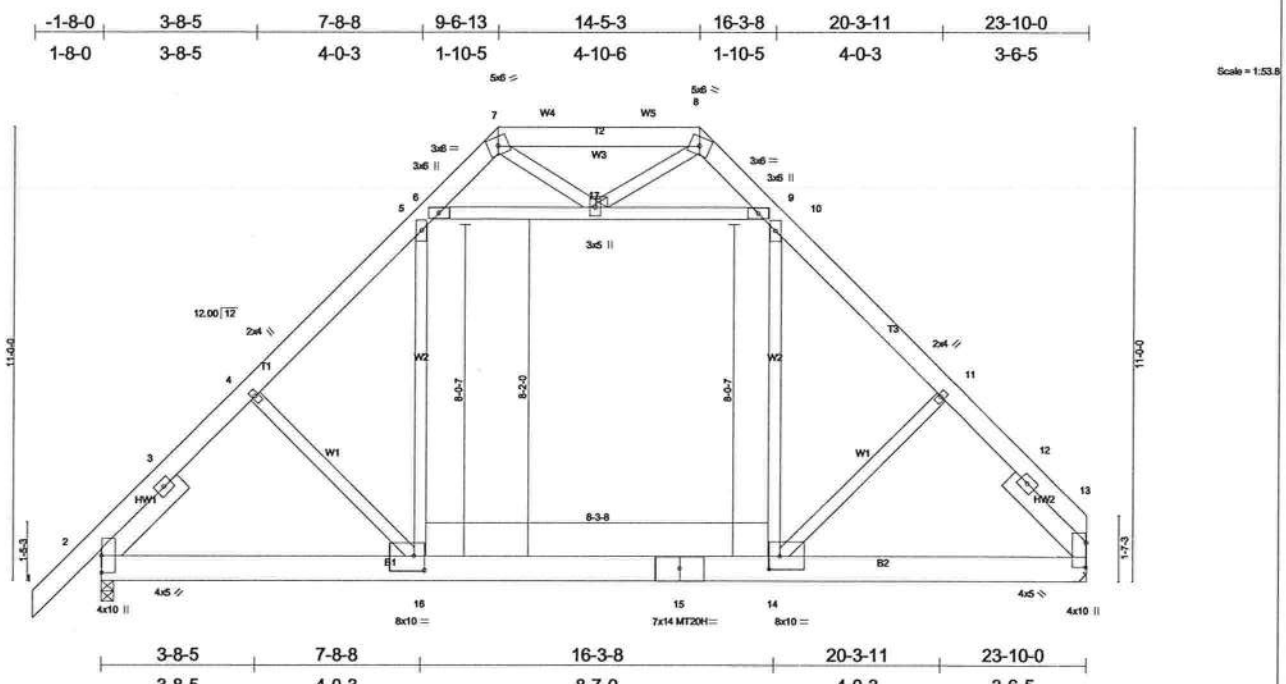


Plate Offsets (X,Y): [2:0-5-0,0-0-1], [13:0-7-3,0-0-1], [14:0-3-2,0-3-12], [16:0-3-2,0-4-4]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.22	Vert(LL) -0.09 14-16 >999 360	MT20 244/190
TCDL 7.0		Lumber Increase 1.25	BC 0.31	Vert(TL) -0.14 14-16 >999 240	MT20H 187/143
BCLL 10.0	*	Rep Stress Incr YES	WB 0.23	Horz(TL) 0.02 13 n/a n/a	
BCDL 5.0		Code FBC2004/TPI2002	(Matrix)		Weight: 228 lb

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 6 SYP No.1D 2-8-0, Right 2 X 6 SYP No.1D 2-8-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-9

REACTIONS (lb/size) 2=1409/0-3-8, 13=1321/Mechanical
Max Horz 2=306(load case 5)
Max Uplift2=-46(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-3=-1632/192, 3-4=-1567/213, 4-5=-1477/242, 5-6=-909/275, 6-7=-310/146, 8-9=-314/148, 9-10=-913/273, 10-11=-1471/246, 11-12=-1558/217, 12-13=-1622/197, 7-8=-211/109
BOT CHORD 2-16=-139/977, 15-16=0/1013, 14-15=0/1013, 13-14=-36/951
WEBS 5-16=-31/593, 10-14=-40/579, 6-17=-839/210, 9-17=-847/203, 4-16=-99/230, 11-14=-92/242, 7-17=-74/125, 8-17=-75/134

NOTES (11-12)
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 and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-17, 9-17; Wall dead load (5.0psf) on member(s).5-16, 10-14
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T02B	PIGGYBACK ATTIC	1	4	L288061054 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:32 2008 Page 1

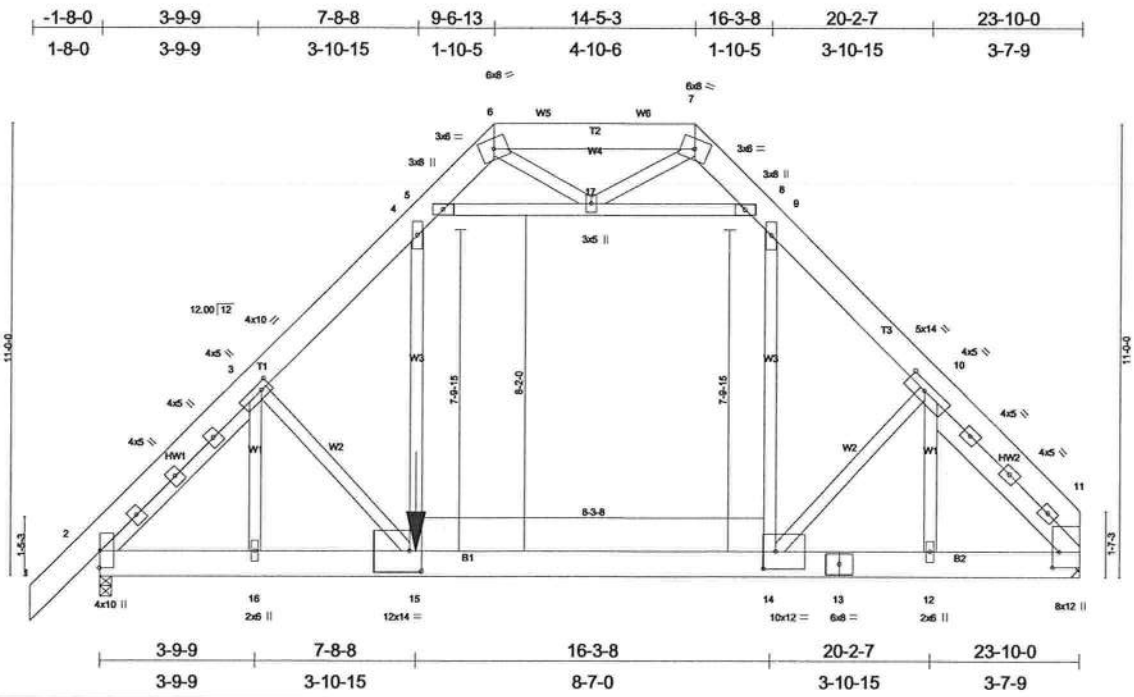


Plate Offsets (X,Y): [3:0-2-12,0-2-0], [10:0-6-0,0-2-4], [11:0-4-8,0-1-15], [14:0-3-8,0-5-0], [15:0-3-8,0-6-0]

LOADING (psf)		SPACING 1-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.26	Vert(LL) -0.11 14-15 >999 360	MT20 244/190
TCDL 7.0		Lumber Increase 1.25	BC 0.59	Vert(TL) -0.20 14-15 >999 240	
BCLL 10.0	*	Rep Stress Incr NO	WB 0.47	Horz(TL) 0.03 11 n/a n/a	
BCDL 5.0		Code FBC2004/TPI2002	(Matrix)		Weight: 1087 lb

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W3 2 X 4 SYP No.2
SLIDER Left 2 X 4 SYP No.3 5-1-8, Right 2 X 6 SYP No.1D 5-0-4

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=6893/0-3-8, 11=9474/Mechanical
Max Horz 2=153(load case 4)
Max Grav 2=7514(load case 10), 11=10714(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-9085/0, 3-4=-10043/0, 4-5=-5071/0, 5-6=-62/251, 7-8=-116/0, 8-9=-5009/0, 9-10=-10113/0, 10-11=-11307/0, 6-7=-13/75
BOT CHORD 2-16=0/5712, 15-16=0/5686, 14-15=0/7008, 13-14=0/7245, 12-13=0/7245, 11-12=0/7221
WEBS 4-15=0/6989, 9-14=0/7177, 5-17=-7332/0, 8-17=-7159/0, 3-15=0/2480, 10-14=-1170/0, 6-17=0/931, 7-17=-794/272, 3-16=-2202/0, 10-12=0/2062

NOTES (14-15)
1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-8-0 oc, Except member 14-9 2 X 4 - 1 row at 0-9-0 oc, member 5-8 2 X 4 - 1 row at 0-9-0 oc, member 15-3 2 X 4 - 1 row at 0-9-0 oc, member 10-14 2 X 4 - 1 row at 0-9-0 oc, member 6-17 2 X 4 - 1 row at 0-9-0 oc, member 17-7 2 X 4 - 1 row at 0-9-0 oc, member 3-16 2 X 4 - 1 row at 0-9-0 oc, member 10-12 2 X 4 - 1 row at 0-9-0 oc.
Attach chords with 1/2 inch diameter bolts (ASTM a-307) with washers at 2-0-0 on center.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-17, 8-17; Wall dead load (5.0psf) on member(s).4-15, 9-14
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15
9) Refer to girder(s) for truss to truss connections.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Girder carries tie-in span(s): 17-10-0 from 7-8-8 to 23-10-0
12) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3168 lb down and 1156 lb up at 7-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
15) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S)
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T02B	PIGGYBACK ATTIC	1	4	L288061054 Job Reference (optional)

LOAD CASE(S)

Uniform Loads (plf)
Vert: 2-15=-5, 14-15=-789(F=-734), 11-14=-739(F=-734), 1-4=-27, 4-5=-32, 5-6=-27, 7-8=-27, 8-9=-32, 9-11=-27, 6-7=-27, 5-8=-5
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=-3168(F)

2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-15=-15, 11-15=-335(F=-320), 1-4=-7, 4-5=-12, 5-6=-7, 7-8=-7, 8-9=-12, 9-11=-7, 6-7=-7, 5-8=-5
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=-1188(F)

3) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-15=-3, 14-15=-329(F=-320), 11-14=-323(F=-320), 1-2=6, 2-4=-5, 4-5=-8, 5-6=-5, 7-8=9, 8-9=6, 9-11=9, 6-7=15, 5-8=-3
Horz: 1-2=-10, 2-6=1, 7-11=13
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=1156(F)

4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-15=-3, 14-15=-329(F=-320), 11-14=-323(F=-320), 1-2=5, 2-4=9, 4-5=6, 5-6=9, 7-8=-5, 8-9=-8, 9-11=-5, 6-7=15, 5-8=-3
Horz: 1-2=-9, 2-6=-13, 7-11=-1
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=1156(F)

5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-15=-3, 14-15=-329(F=-320), 11-14=-323(F=-320), 1-2=21, 2-4=12, 4-5=9, 5-6=12, 7-8=6, 8-9=3, 9-11=6, 6-7=6, 5-8=-3
Horz: 1-2=-25, 2-6=-16, 7-11=10
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=876(F)

6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-15=-3, 14-15=-329(F=-320), 11-14=-323(F=-320), 1-2=3, 2-4=6, 4-5=3, 5-6=6, 7-8=12, 8-9=9, 9-11=12, 6-7=6, 5-8=-3
Horz: 1-2=-7, 2-6=-10, 7-11=16
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=876(F)

7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-15=-3, 14-15=-329(F=-320), 11-14=-323(F=-320), 1-2=21, 2-4=12, 4-5=9, 5-6=12, 7-8=6, 8-9=3, 9-11=6, 6-7=6, 5-8=-3
Horz: 1-2=-25, 2-6=-16, 7-11=10
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=876(F)

8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-15=-3, 14-15=-329(F=-320), 11-14=-323(F=-320), 1-2=3, 2-4=6, 4-5=3, 5-6=6, 7-8=12, 8-9=9, 9-11=12, 6-7=6, 5-8=-3
Horz: 1-2=-7, 2-6=-10, 7-11=16
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=876(F)

9) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 2-15=-5, 14-15=-909(F=-854), 11-14=-859(F=-854), 1-4=-7, 4-5=-12, 5-6=-7, 7-8=-7, 8-9=-12, 9-11=-7, 6-7=-7, 5-8=-5
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=-1188(F)

10) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-15=-5, 14-15=-909(F=-854), 11-14=-859(F=-854), 1-4=-27, 4-5=-32, 5-6=-27, 7-8=-7, 8-9=-12, 9-11=-7, 6-7=-27, 5-8=-5
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=-3168(F)

11) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-15=-5, 14-15=-909(F=-854), 11-14=-859(F=-854), 1-4=-7, 4-5=-12, 5-6=-7, 7-8=-27, 8-9=-32, 9-11=-27, 6-7=-27, 5-8=-5
Drag: 4-15=-5, 9-14=-5
Concentrated Loads (lb)
Vert: 15=-3168(F)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T02G	GABLE	1	1	L288061055 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:34 2008 Page 1

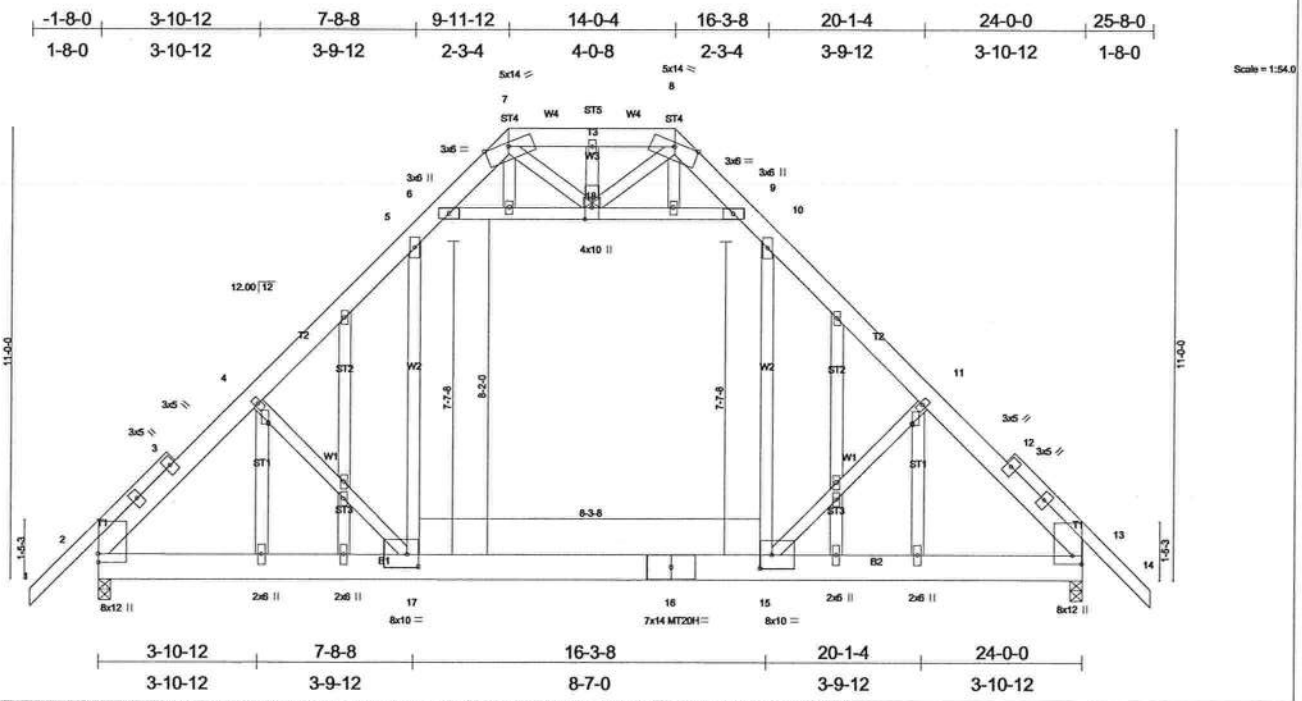


Plate Offsets (X,Y): [2:0-2-8,0-0-2], [13:0-2-8,0-2-10], [15:0-3-7,0-3-14], [17:0-3-5,0-3-11], [18:0-3-8,0-2-0], [25:0-0-8,0-0-0], [31:0-0-8,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	-0.09	15-17	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.15	15-17	>999	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.02	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 255 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D *Except* T1 2 X 4 SYP No.1D, T1 2 X 4 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-9

REACTIONS (lb/size) 2=1411/0-3-8, 13=1411/0-3-8
Max Horz 2=366(load case 5)
Max Uplift2=-230(load case 6), 13=-230(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-1731/190, 3-4=-1646/213, 4-5=-1567/240, 5-6=-937/268, 6-7=-202/168, 8-9=-202/168, 9-10=-937/268, 10-11=-1567/240, 11-12=-1646/213, 12-13=-1731/190, 13-14=0/37, 7-8=-68/114
BOT CHORD 2-17=-198/1099, 16-17=-25/1049, 15-16=-25/1049, 13-15=-1/1099
WEBS 5-17=-41/692, 10-15=-41/692, 6-18=-1018/241, 9-18=-1018/241, 4-17=-138/277, 11-15=-140/278, 7-18=-105/150, 8-18=-105/150

NOTES (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 9-18; Wall dead load (5.0psf) on member(s).5-17, 10-15
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 2 and 230 lb uplift at joint 13.
12) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T03	MONO TRUSS	9	1	L288061056 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:35 2008 Page 1

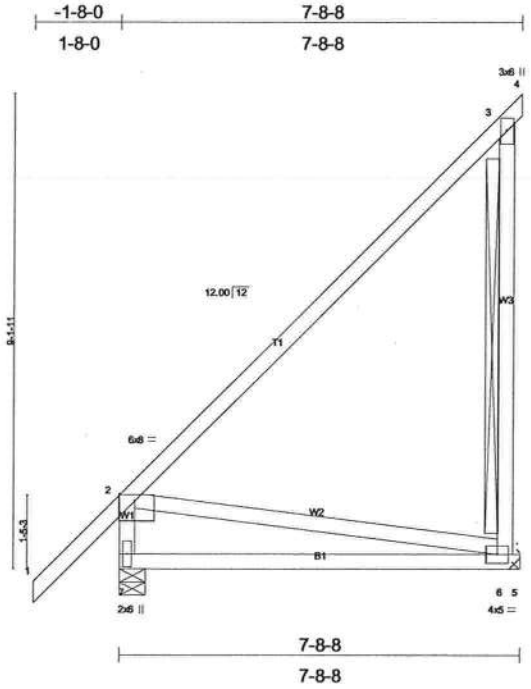


Plate Offsets (X,Y): [2:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.10	6-7	>916	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	-0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 56 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 6=228/Mechanical, 7=343/0-6-0
Max Horz 7=361(load case 6)
Max Uplift6=-229(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-206/95, 3-4=-3/0, 3-6=-160/258, 2-7=-308/44
BOT CHORD 6-7=-639/178, 5-6=0/0
WEBS 2-6=-159/617

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 6.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T03G	GABLE	1	1	L288061057 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:37 2008 Page 1

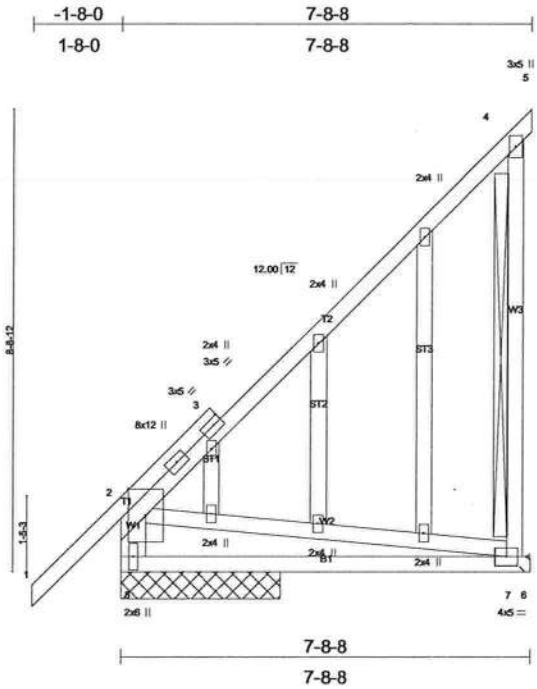


Plate Offsets (X,Y): [2:0-6-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.08	7-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.27	Horz(TL)	-0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 75 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-1 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 7=224/Mechanical, 8=346/3-0-0
Max Horz 8=468(load case 6)
Max Uplift7=-332(load case 6), 8=-9(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-202/0, 3-4=-167/82, 4-5=-3/0, 4-7=-137/231, 2-8=-312/72
BOT CHORD 7-8=-766/312, 6-7=0/0
WEBS 2-7=-298/752

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) 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"
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Gable studs spaced at 2-0-0 oc.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 7 and 9 lb uplift at joint 8.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T04	MONO HIP	1	1	L288061058 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:39 2008 Page 1

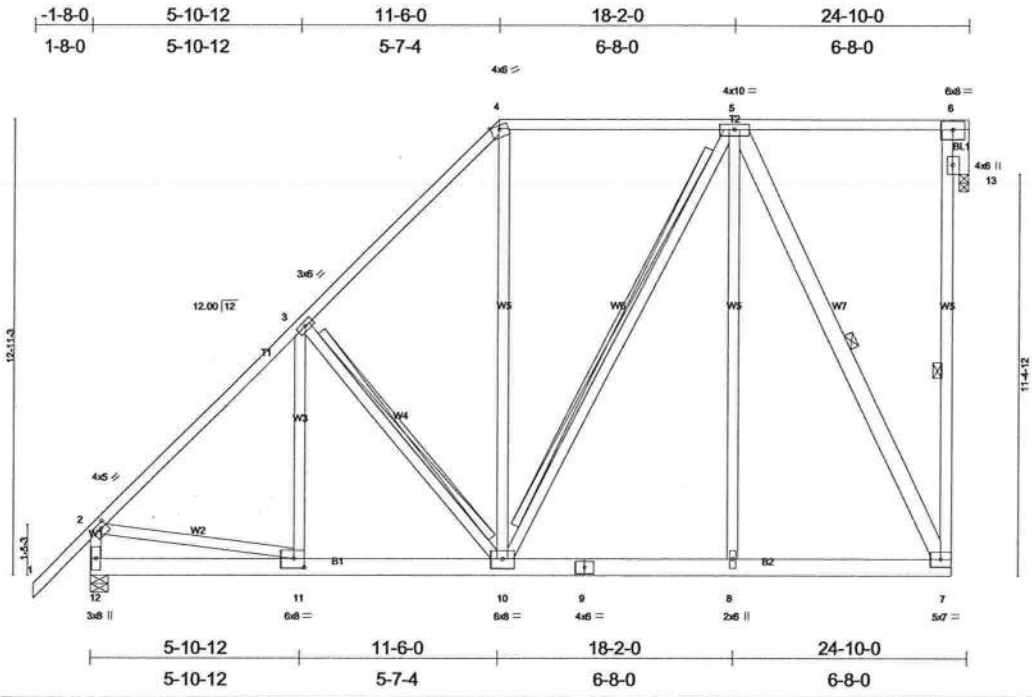


Plate Offsets (X,Y): [2:0-2-0,0-1-12], [11:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	-0.07	8-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	-0.15	8-10	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.03	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 246 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.1D *Except*
W3 2 X 4 SYP No.3, W4 2 X 4 SYP No.3, W7 2 X 6 SYP No.1D, W1 2 X 4 SYP No.2
W2 2 X 4 SYP No.3
OTHERS 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7
T-Brace: 2 X 4 SYP No.3 - 3-10, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=2550/0-6-0, 13=2453/0-3-8
Max Horz 12=484(load case 5)
Max Uplift12=-760(load case 5), 13=-877(load case 4)

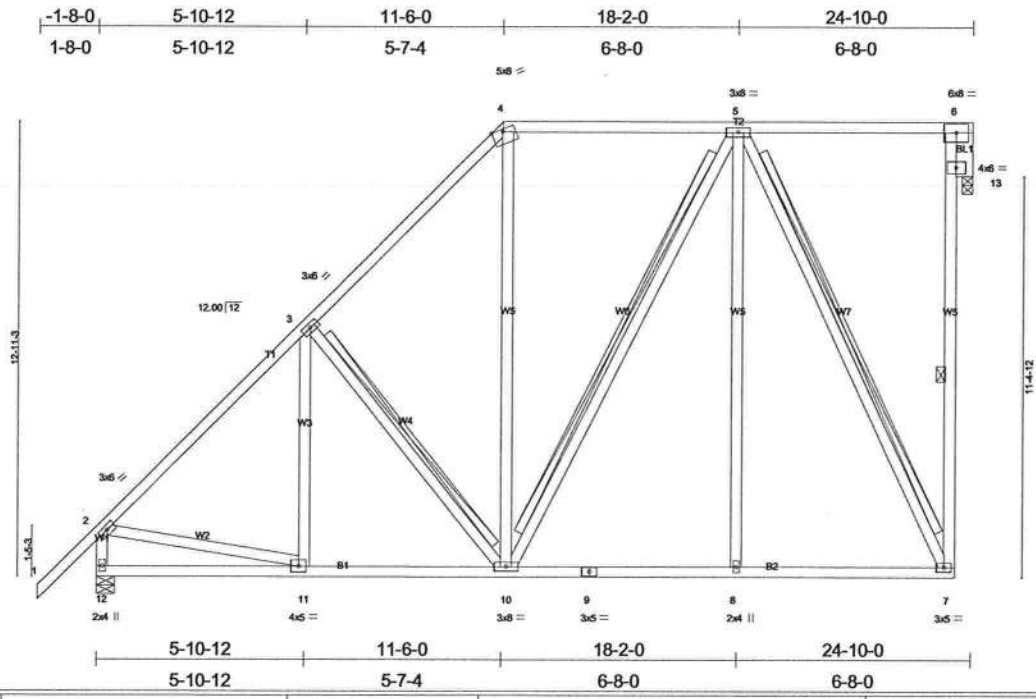
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-2397/664, 3-4=-1816/576, 4-5=-1222/481, 5-6=-17/7, 7-13=-808/2294, 6-13=-156/79, 2-12=-2125/637
BOT CHORD 11-12=-531/364, 10-11=-728/1612, 9-10=-341/942, 8-9=-341/942, 7-8=-341/942
WEBS 3-11=-220/591, 3-10=-626/390, 4-10=-279/871, 5-10=-336/606, 5-8=-309/1025, 5-7=-2127/769, 2-11=-351/1272

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 13 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 760 lb uplift at joint 12 and 877 lb uplift at joint 13.
6) Girder carries tie-in span(s): 11-0-0 from 0-0-0 to 24-4-8
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-6=-54, 7-12=-149(F=-139)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T04A	MONO HIP	9	1	L288061059
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:40 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.03	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.07	8-10	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.73	Horz(TL)	-0.06	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 216 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.
WEBS 1 Row at midpt 6-7
T-Brace: 2 X 4 SYP No.3 - 3-10, 5-10, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 12=872/0-6-0, 13=775/0-3-8
Max Horz 12=486(load case 6)
Max Uplift12=-145(load case 6), 13=-265(load case 5)

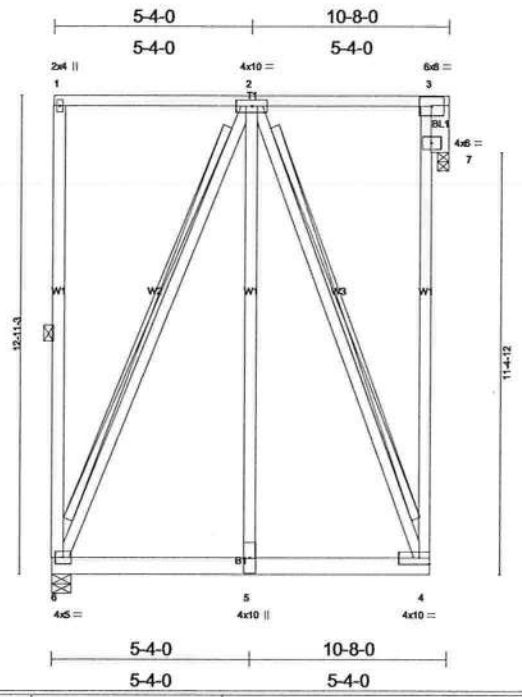
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-813/242, 3-4=-638/316, 4-5=-378/330, 5-6=-8/5, 7-13=-425/627, 6-13=-147/107, 2-12=-840/345
BOT CHORD 11-12=-621/83, 10-11=-532/496, 9-10=-214/294, 8-9=-214/294, 7-8=-214/294
WEBS 3-11=-37/114, 3-10=-187/316, 4-10=0/172, 5-10=-256/183, 5-8=0/204, 5-7=-660/483, 2-11=-25/422

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 13 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 145 lb uplift at joint 12 and 265 lb uplift at joint 13.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T04B	SPECIAL	1	2	L288061060 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:42 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.35	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.12	5-6	>999	240		
BCLL 10.0	*	Rep Stress Incr	NO	WB	0.83	Horz(TL)	0.04	7	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 272 lb	

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

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6
T-Brace: 2 X 4 SYP No.3 - 2-6, 2-4
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 3

REACTIONS (lb/size) 6=3335/0-6-0, 7=3343/0-3-8
Max Uplift6=-922(load case 3), 7=-926(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-151/61, 1-2=-26/8, 2-3=-23/7, 4-7=-867/3195, 3-7=-145/58
BOT CHORD 5-6=-218/787, 4-5=-218/787
WEBS 2-6=-1993/550, 2-5=-949/3625, 2-4=-2166/598

NOTES (10)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 922 lb uplift at joint 6 and 926 lb uplift at joint 7.
8) Girder carries tie-in span(s): 40-4-0 from 0-0-0 to 10-2-8
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

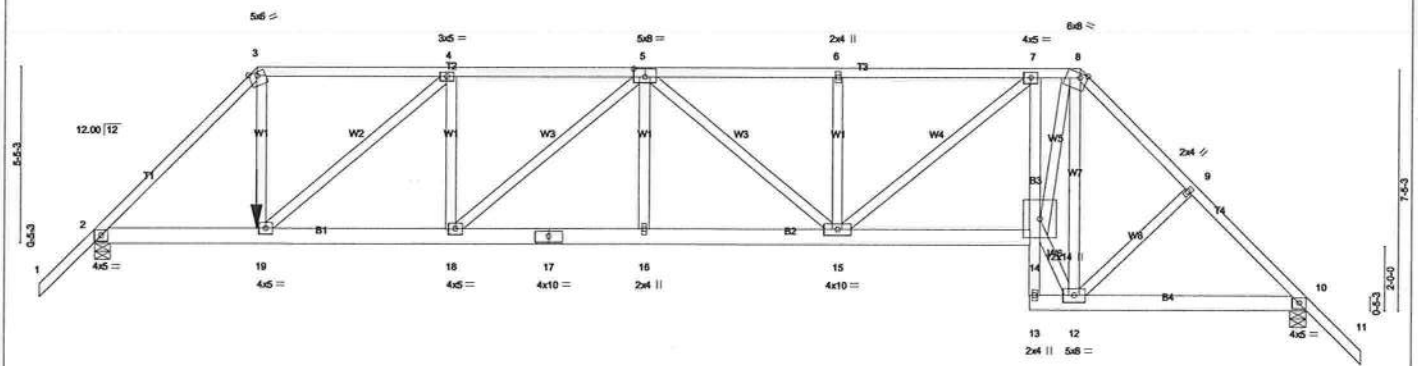
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-619(F=-609)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T05	SPECIAL	1	2	L288061061 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:44 2008 Page 1

-1-8-0	5-0-0	10-11-8	16-11-0	22-10-8	28-10-0	30-4-0	33-8-6	37-4-0	39-0-0
1-8-0	5-0-0	5-11-8	5-11-8	5-11-8	5-11-8	1-6-0	3-4-6	3-7-10	1-8-0

Scale = 1:68.2



5-0-0	10-11-8	16-11-0	22-10-8	28-10-0	30-4-0	37-4-0
5-0-0	5-11-8	5-11-8	5-11-8	5-11-8	1-6-0	7-0-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.16	15-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.23	15-16	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.56	Horz(TL)	0.12	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 535 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14.

REACTIONS (lb/size) 2=2093/0-6-0, 10=2146/0-6-0
Max Horz 2=309(load case 4)
Max Uplift2=-1112(load case 4), 10=-1025(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-2624/1482, 3-4=-1797/1111, 4-5=-3149/1871, 5-6=-3596/2059, 6-7=-3596/2059, 7-8=-2524/1458, 8-9=-2433/1348, 9-10=-2563/1327, 10-11=0/68
BOT CHORD 2-19=-1231/1754, 18-19=-2012/3149, 17-18=-2311/3754, 16-17=-2311/3754, 15-16=-2311/3754, 14-15=-1459/2584, 13-14=-169/30, 7-14=-1201/920, 12-13=-125/218, 10-12=-817/1701
WEBS 3-19=-816/1442, 4-19=-1823/1100, 4-18=-232/623, 5-18=-806/453, 5-16=0/217, 5-15=-243/227, 6-15=-578/485, 7-15=-882/1346, 12-14=-1285/2722, 8-14=-2032/3473, 8-12=-1851/1077, 9-12=-73/99

NOTES (11)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1112 lb uplift at joint 2 and 1025 lb uplift at joint 10.
8) Girder carries tie-in span(s): 5-0-0 from 28-10-0 to 37-4-0
9) Girder carries hip end with 7-0-0 right side setback, 5-0-0 left side setback, and 5-0-0 end setback.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 187 lb down and 178 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

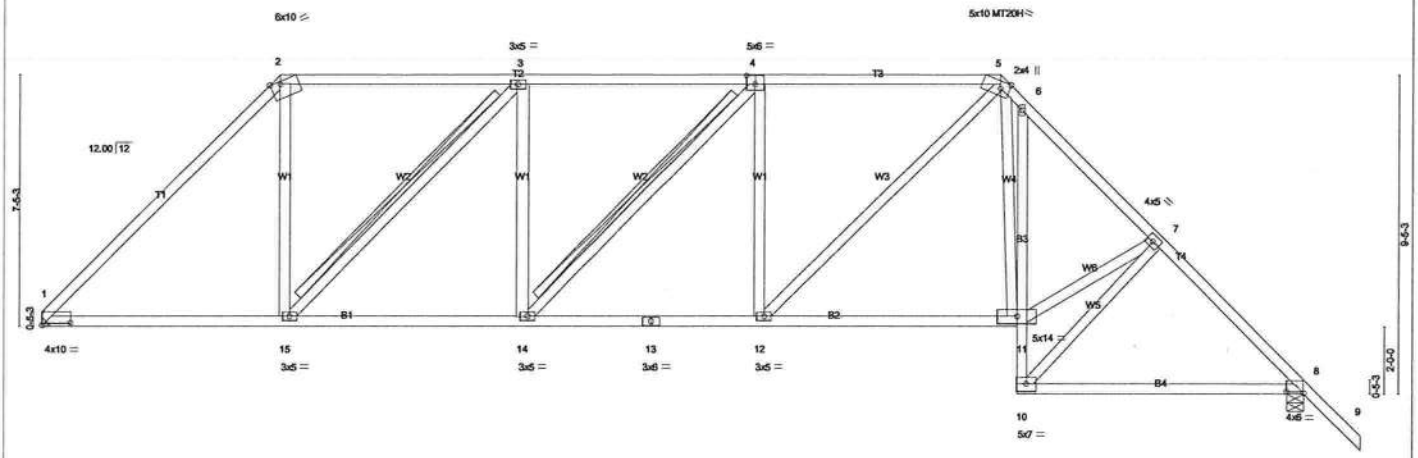
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-8=-93(F=-39), 8-11=-54, 2-19=-10, 14-19=-17(F=-7), 12-13=-57(F=-47), 10-12=-50(F=-40)
Concentrated Loads (lb)
Vert: 19=-187(F)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T06	SPECIAL	1	1	L288061062 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:46 2008 Page 1

7-0-0	14-1-15	21-2-1	28-4-0	28-10-0	32-11-6	37-4-0	39-0-0
7-0-0	7-1-15	7-0-3	7-1-15	0-6-0	4-1-6	4-4-10	1-8-0

Scale = 1:65.5



7-0-0	14-1-15	21-2-1	28-10-0	37-4-0
7-0-0	7-1-15	7-0-3	7-7-15	8-6-0

Plate Offsets (X,Y): [1:0-10-2,0-0-14], [2:0-3-11,Edge], [4:0-3-0,0-3-0], [5:0-3-0,0-2-8], [8:0-6-2,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.13	1-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.25	11-12	>999	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.14	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-15, 4-14
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=1179/Mechanical, 8=1288/0-6-0
Max Horz 1=-280(load case 4)
Max Uplift1=-299(load case 5), 8=-324(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1515/724, 2-3=-984/654, 3-4=-1466/864, 4-5=-1528/886, 5-6=-1453/846, 6-7=-1710/832, 7-8=-1496/730, 8-9=0/66
BOT CHORD 1-15=-347/971, 14-15=-463/1466, 13-14=-437/1533, 12-13=-437/1533, 11-12=-236/1129, 10-11=-276/1021, 6-11=-159/242, 8-10=-276/962
WEBS 2-15=-214/620, 3-15=-760/329, 3-14=-9/247, 4-14=-123/65, 4-12=-351/251, 5-12=-298/617, 5-11=-159/376, 7-11=-258/1269, 7-10=-1334/418

NOTES (8-9)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 1 and 324 lb uplift at joint 8.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
9) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

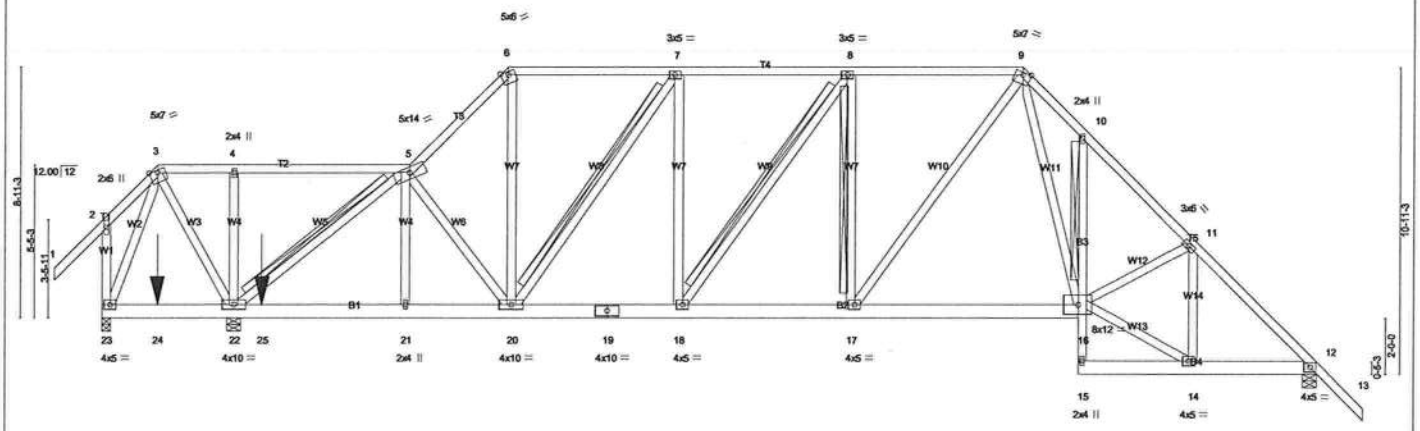
Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T07	SPECIAL	1	1	L288061063 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:48 2008 Page 1

1-8-8 1-11-8 4-8-8 10-11-8 14-5-8 20-6-13 26-8-3 32-9-8 34-9-8 38-10-14 43-3-8 44-11-8

1-8-8 1-11-8 2-9-0 6-3-0 3-6-0 6-1-5 6-1-5 6-1-5 2-0-0 4-1-6 4-4-10 1-8-0

Scale = 1:79.1



4-8-8 10-11-8 14-5-8 20-6-13 26-8-3 34-9-8 38-10-14 43-3-8

4-8-8 6-3-0 3-6-0 6-1-5 6-1-5 8-1-5 4-1-6 4-4-10

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.07	18	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.15	16-17	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.06	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 361 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 22-23,14-15.
T-Brace: 2 X 4 SYP No.3 - 10-16
WEBS T-Brace: 2 X 4 SYP No.3 - 5-22, 7-20, 8-18, 8-17
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=1238/0-6-0, 22=2826/0-6-0, 23=-620/0-3-8
Max Horz 23=-331(load case 3)
Max Uplift12=-301(load case 3), 22=-1082(load case 3), 23=-653(load case 10)
Max Grav 12=1238(load case 1), 22=2826(load case 1), 23=178(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-1/217, 3-4=-148/714, 4-5=-148/713, 5-6=-1112/347, 6-7=-750/273, 7-8=-1099/387, 8-9=-1184/425, 9-10=-1553/526, 10-11=-1641/448, 11-12=-1439/365, 12-13=0/68, 2-23=-132/278
BOT CHORD 23-24=-293/378, 22-24=-293/378, 22-25=-271/690, 21-25=-271/690, 20-21=-270/688, 19-20=-328/1099, 18-19=-328/1099, 17-18=-300/1183 , 16-17=-174/965, 15-16=0/57, 10-16=-95/159, 14-15=-16/32, 12-14=-153/933
WEBS 3-22=-873/281, 4-22=-343/192, 5-22=-1799/497, 5-21=-17/159, 5-20=0/202, 6-20=-177/484, 7-20=-652/255, 7-18=-18/254, 8-18=-184/67, 8-17=-274/222, 9-17=-216/448, 9-16=-194/532, 14-16=-154/1008, 11-16=-97/211, 11-14=-447/101, 3-23=-338/742

NOTES (9)
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; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 12, 1082 lb uplift at joint 22 and 653 lb uplift at joint 23.
6) Girder carries hip end with 38-5-4 right side setback, 1-11-8 left side setback, and 2-6-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 465 lb down and 384 lb up at 5-9-0, and 21 lb down and 20 lb up at 2-0-0 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).
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

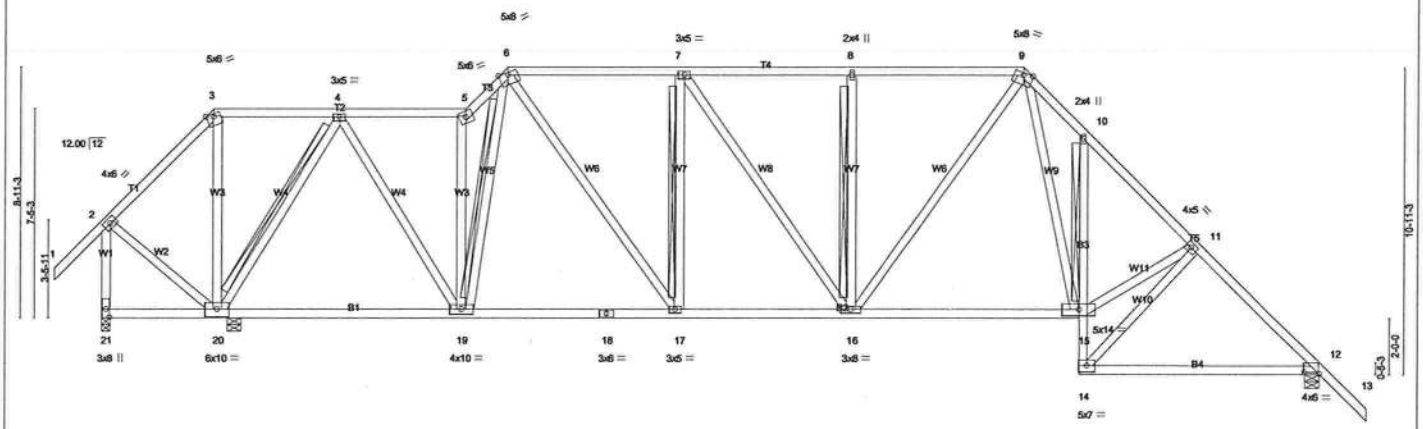
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-4=-57(F=-3), 4-5=-54, 5-6=-54, 6-9=-54, 9-13=-54, 23-24=-10, 22-24=-11(F=-1), 16-22=-10, 12-15=-10
Concentrated Loads (lb)
Vert: 24=-21(F) 25=-465(F)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T08	SPECIAL	1	1	L288061064 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:50 2008 Page 1

1-8-8	3-11-8	8-5-8	12-11-8	14-5-8	20-6-13	26-8-3	32-9-8	34-9-8	38-10-14	43-3-8	44-11-8
1-8-8	3-11-8	4-6-0	4-6-0	1-6-0	6-1-5	6-1-5	6-1-5	2-0-0	4-1-6	4-4-10	1-8-0

Scale = 1:79.1



3-11-8	4-8-8	12-11-8	20-6-13	26-8-3	34-9-8	43-3-8
3-11-8	0-9-0	8-3-0	7-7-5	6-1-5	8-1-5	8-6-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.13	15-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.28	15-16	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.11	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 326 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals , and 2-0-0 oc purlins (5-8-3 max.): 3-5, 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 20-21.
T-Brace: 2 X 4 SYP No.3 - 10-15
WEBS T-Brace: 2 X 4 SYP No.3 - 4-20, 6-19, 7-17, 8-16
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 21=-978/0-3-8, 12=1227/0-6-0, 20=2700/0-6-0
Max Horz 21=-334(load case 4)
Max Uplift21=-978(load case 1), 12=-314(load case 4), 20=-715(load case 5)
Max Grav 21=247(load case 5), 12=1227(load case 1), 20=2700(load case 1)

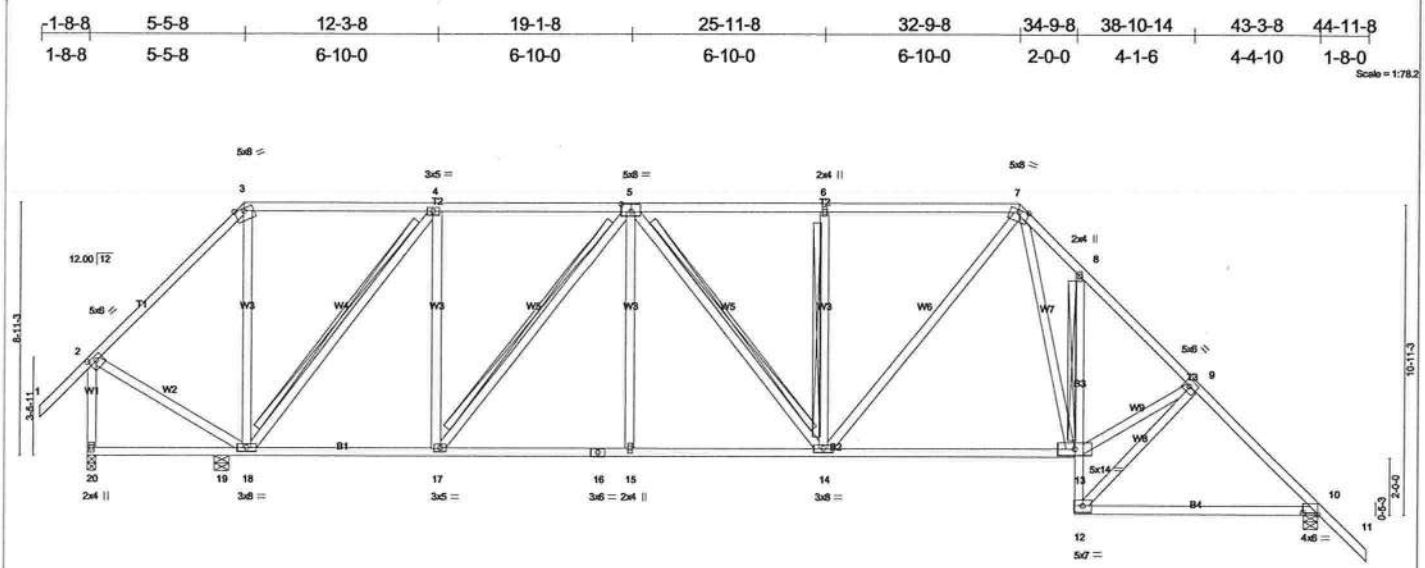
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-312/994, 3-4=-149/667, 4-5=-657/485, 5-6=-916/709, 6-7=-1064/718, 7-8=-1151/744, 8-9=-1151/744, 9-10=-1533/943, 10-11=-1604/782, 11-12=-1414/692, 12-13=0/66, 2-21=-419/976
BOT CHORD 20-21=-208/315, 19-20=-99/274, 18-19=-232/696, 17-18=-232/696, 16-17=-312/1064, 15-16=-167/943, 14-15=-249/969, 10-15=-128/217, 12-14=-251/907
WEBS 3-20=-863/346, 4-20=-1435/725, 4-19=-494/1106, 5-19=-731/566, 6-19=-284/37, 6-17=-295/675, 7-17=-489/277, 7-16=-51/188, 8-16=-338/241, 9-16=-212/438, 9-15=-354/551, 11-15=-192/1189, 11-14=-1264/381, 2-20=-824/620

NOTES (7)
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 and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 978 lb uplift at joint 21, 314 lb uplift at joint 12 and 715 lb uplift at joint 20.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T09	SPECIAL	1	1	L288061065 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:52 2008 Page 1



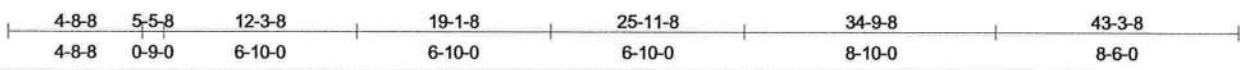


Plate Offsets (X,Y): [2:0-3-0,0-1-15], [5:0-4-0,0-3-0], [10:0-6-2,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.17	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.37	13-14	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.16	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 312 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-14 oc purlins, except end verticals , and 2-0-0 oc purlins (4-9-11 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 8-13
WEBS T-Brace: 2 X 4 SYP No.3 - 4-18, 5-17, 5-14, 6-14
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 20=1033/0-3-8, 10=1424/0-6-0, 19=492/0-6-0
Max Horz 20=-333(load case 4)
Max Uplift20=-278(load case 5), 10=-367(load case 4), 19=-265(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-832/479, 3-4=-527/441, 4-5=-1220/781, 5-6=-1552/931, 6-7=-1552/931, 7-8=-1882/1093, 8-9=-1954/942, 9-10=-1682/816, 10-11=0/66, 2-20=-1079/552
BOT CHORD 19-20=-209/333, 18-19=-209/333, 17-18=-423/1220, 16-17=-491/1550, 15-16=-491/1550, 14-15=-491/1550, 13-14=-249/1180, 12-13=-333/1161, 8-13=-115/205, 10-12=-335/1089
WEBS 3-18=-102/262, 4-18=-1155/555, 4-17=-179/527, 5-17=-543/263, 5-15=0/182, 5-14=-64/94, 6-14=-380/270, 7-14=-306/664, 7-13=-362/593, 9-13=-315/1469, 9-12=-1525/496, 2-18=-182/635

NOTES (7)
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 and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 20, 367 lb uplift at joint 10 and 265 lb uplift at joint 19.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

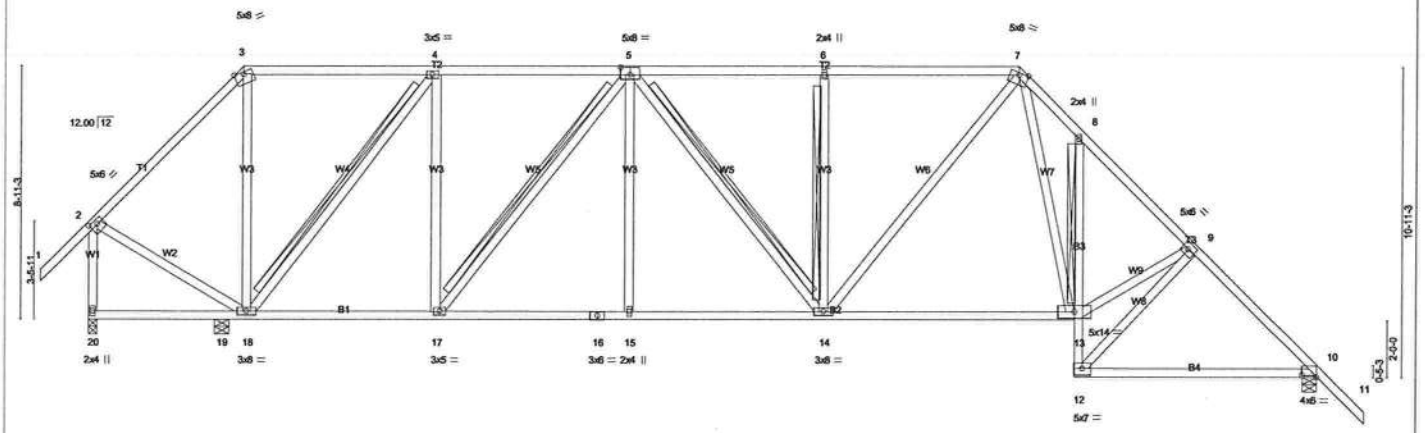
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T10	SPECIAL	1	1	L288061066 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:54 2008 Page 1

1-8-8	5-5-8	12-3-8	19-1-8	25-11-8	32-9-8	34-9-8	38-10-14	43-3-8	44-11-8
1-8-8	5-5-8	6-10-0	6-10-0	6-10-0	6-10-0	2-0-0	4-1-6	4-4-10	1-8-0

Scale = 1:78.2



4-8-8	5-5-8	12-3-8	19-1-8	25-11-8	34-9-8	43-3-8
4-8-8	0-9-0	6-10-0	6-10-0	6-10-0	8-10-0	8-6-0

Plate Offsets (X,Y): [2:0-3-0,0-1-15], [5:0-4-0,0-3-0], [10:0-6-2,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.17	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.37	13-14	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.16	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 312 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-14 oc purlins, except end verticals , and 2-0-0 oc purlins (4-9-11 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 8-13
WEBS T-Brace: 2 X 4 SYP No.3 - 4-18, 5-17, 5-14, 6-14
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 20=1033/0-3-8, 10=1424/0-6-0, 19=492/0-6-0
Max Horz 20=-333(load case 4)
Max Uplift20=-278(load case 5), 10=-367(load case 4), 19=-265(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-832/479, 3-4=-527/441, 4-5=-1220/781, 5-6=-1552/931, 6-7=-1552/931, 7-8=-1882/1093, 8-9=-1954/942, 9-10=-1682/816, 10-11=0/66, 2-20=-1079/552
BOT CHORD 19-20=-209/333, 18-19=-209/333, 17-18=-423/1220, 16-17=-491/1550, 15-16=-491/1550, 14-15=-491/1550, 13-14=-249/1180, 12-13=-333/1161, 8-13=-115/205, 10-12=-335/1089
WEBS 3-18=-102/262, 4-18=-1155/555, 4-17=-179/527, 5-17=-543/263, 5-15=0/182, 5-14=-64/94, 6-14=-380/270, 7-14=-306/664, 7-13=-362/593, 9-13=-315/1469, 9-12=-1525/496, 2-18=-182/635

NOTES (7)
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 and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 20, 367 lb uplift at joint 10 and 265 lb uplift at joint 19.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T11	MONO HIP	1	1	L288061067 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:56 2008 Page 1

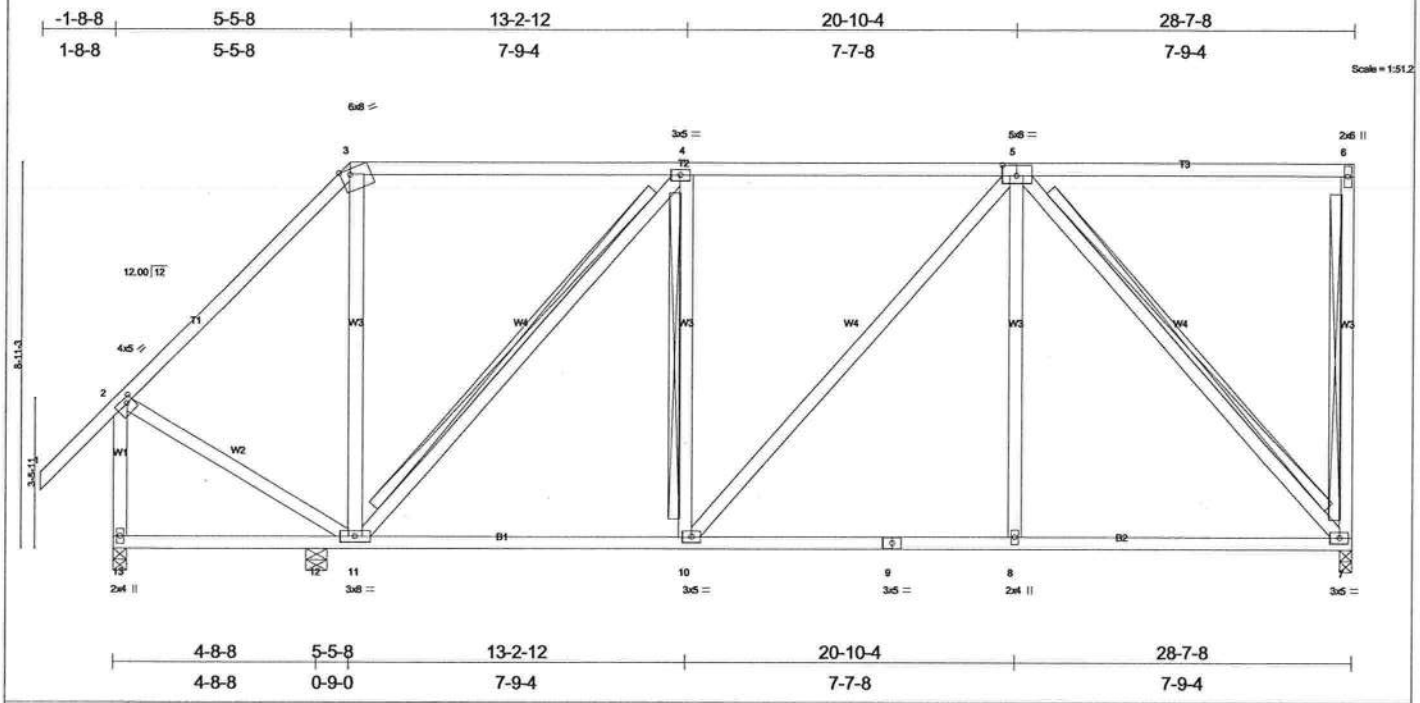


Plate Offsets (X,Y): [2:0-1-12,0-1-8], [3:0-2-11,Edge], [5:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.07	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.13	10-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 205 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-7, 4-11, 4-10, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 7=875/0-3-8, 13=860/0-3-8, 12=179/0-6-0
Max Horz 13=342(load case 6)
Max Uplift7=-291(load case 4), 13=-152(load case 5), 12=-182(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-650/301, 3-4=-400/315, 4-5=-721/441, 5-6=-22/11, 6-7=-185/131, 2-13=-864/346
BOT CHORD 12-13=-415/21, 11-12=-415/21, 10-11=-441/721, 9-10=-341/594, 8-9=-341/594, 7-8=-341/594
WEBS 3-11=0/185, 4-11=-487/228, 4-10=-55/151, 5-10=-151/191, 5-8=0/240, 5-7=-865/499, 2-11=-100/474

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 7, 152 lb uplift at joint 13 and 182 lb uplift at joint 12.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

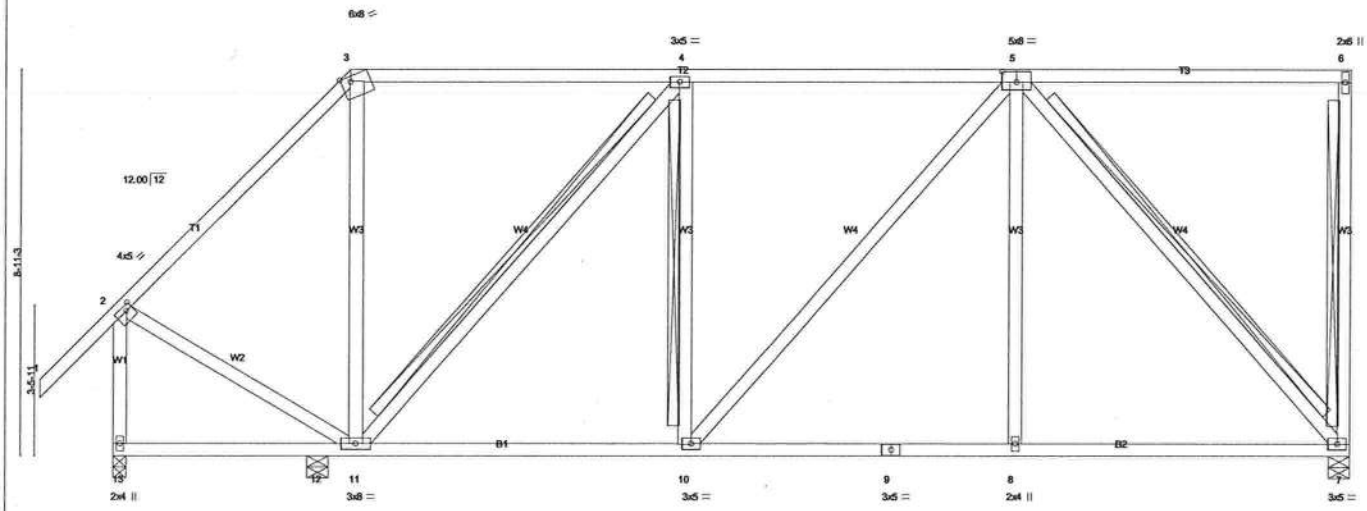
Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T12	MONO HIP	3	1	L288061068 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:58 2008 Page 1

-1-8-8 | 5-5-8 | 13-2-12 | 20-10-4 | 28-7-8

1-8-8 | 5-5-8 | 7-9-4 | 7-7-8 | 7-9-4

Scale = 1:51.2



4-8-8 | 5-5-8 | 13-2-12 | 20-10-4 | 28-7-8

4-8-8 | 0-9-0 | 7-9-4 | 7-7-8 | 7-9-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.07	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.13	10-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 205 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-7, 4-11, 4-10, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 7=875/0-6-0, 13=860/0-3-8, 12=179/0-6-0
Max Horz 12=342(load case 6)
Max Uplift7=-291(load case 4), 13=-153(load case 5), 12=-183(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-650/302, 3-4=-400/316, 4-5=-721/442, 5-6=-22/11, 6-7=-185/131, 2-13=-864/347
BOT CHORD 12-13=-8/65, 11-12=-416/21, 10-11=-442/721, 9-10=-342/594, 8-9=-342/594, 7-8=-342/594
WEBS 3-11=0/185, 4-11=-487/228, 4-10=-55/152, 5-10=-152/191, 5-8=0/240, 5-7=-865/499, 2-11=-100/474

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 7, 153 lb uplift at joint 13 and 183 lb uplift at joint 12.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T13	SPECIAL	1	1	L288061069 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:38:59 2008 Page 1

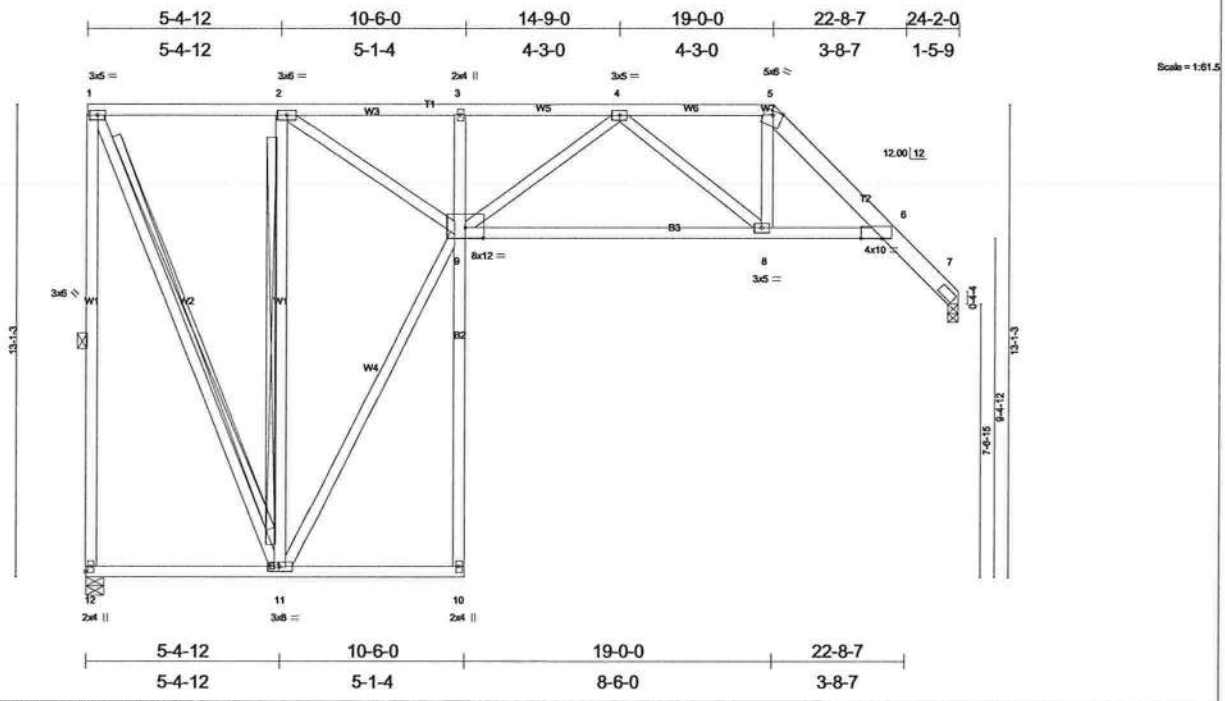


Plate Offsets (X,Y): [6:0-7-0,Edge], [12:0-0-0,0-2-8]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase 1.25	TC 0.87	Vert(LL)	-0.19	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase 1.25	BC 0.92	Vert(TL)	-0.35	6-8	>817	240		
BCLL	10.0 *	Rep Stress Incr YES	WB 0.81	Horz(TL)	0.55	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002	(Matrix)						Weight: 198 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T2 2 X 6 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.1D, W2 2 X 4 SYP No.1D, W1 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-7 max.): 1-5.
BOT CHORD Rigid ceiling directly applied or 9-11-7 oc bracing.
WEBS 1 Row at midpt 1-12
T-Brace: 2 X 4 SYP No.3 - 1-11, 2-11
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1

REACTIONS (lb/size) 12=764/0-6-0, 7=771/0-3-8
Max Horz 12=-166(load case 7)
Max Uplift12=-257(load case 5), 7=-114(load case 4)

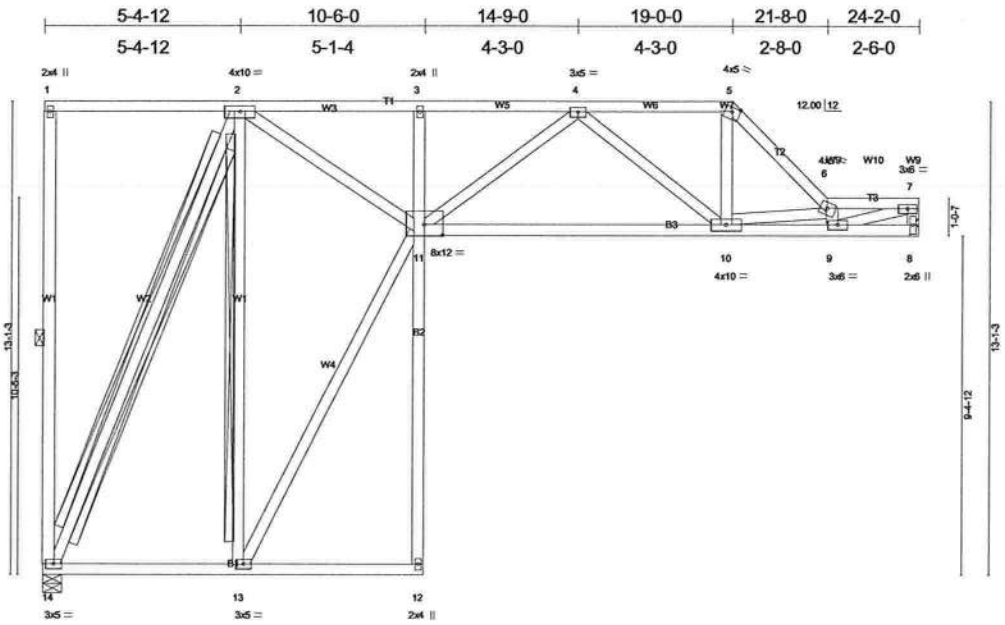
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-735/495, 1-2=-256/170, 2-3=-1326/431, 3-4=-1344/423, 4-5=-1015/390, 5-6=-1234/374, 6-7=-510/206
BOT CHORD 11-12=-6/223, 10-11=-2/4, 9-10=0/61, 3-9=-253/180, 8-9=-401/1276, 6-8=-230/993
WEBS 1-11=-438/657, 2-11=-1038/403, 9-11=-182/539, 2-9=-421/1299, 4-9=-31/149, 4-8=-344/216, 5-8=-111/430

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 12 and 114 lb uplift at joint 7.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T14	SPECIAL	1	1	L288061070
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:01 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.13	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.26	10-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.20	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 202 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.1D, W2 2 X 4 SYP No.1D, W1 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-13 oc purlins, except end verticals , and 2-0-0 oc purlins (4-5-11 max.): 1-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-14
I-Brace: 2 X 4 SYP No.3 - 2-14
T-Brace: 2 X 4 SYP No.3 - 2-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 7

REACTIONS (lb/size) 14=764/0-6-0, 8=764/Mechanical
Max Horz 14=-85(load case 7)
Max Uplift14=-261(load case 5), 8=-192(load case 5)

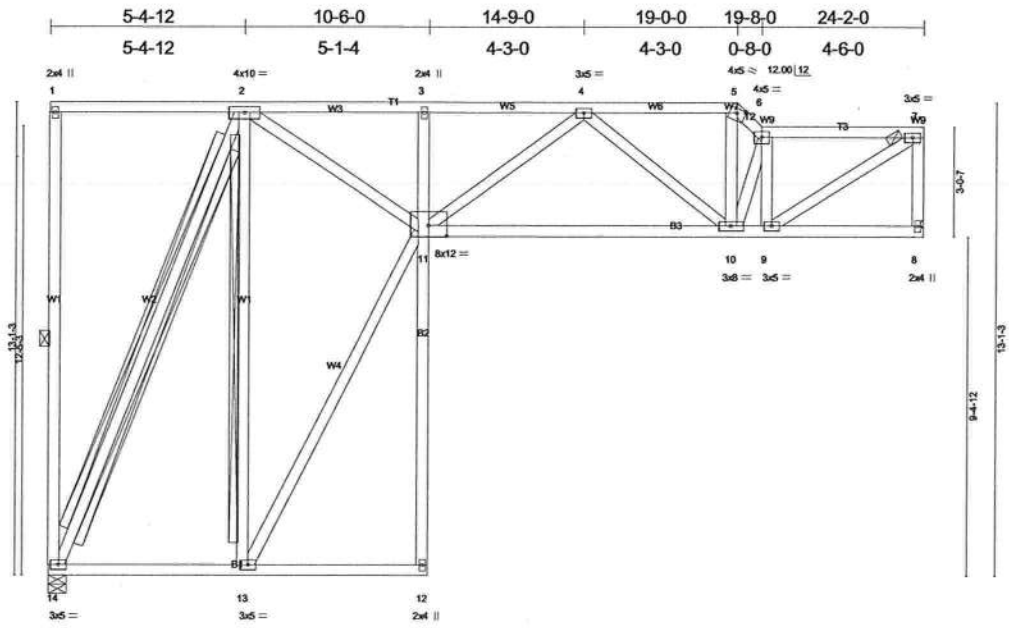
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-123/88, 1-2=-6/3, 2-3=-1325/528, 3-4=-1345/520, 4-5=-958/456, 5-6=-1312/533, 6-7=-1815/793, 7-8=-644/292
BOT CHORD 13-14=-90/257, 12-13=-2/3, 11-12=0/60, 3-11=-242/175, 10-11=-470/1279, 9-10=-854/1951, 8-9=-116/290
WEBS 2-14=-663/397, 2-13=-430/207, 11-13=-188/545, 2-11=-455/1297, 4-11=-22/142, 4-10=-419/227, 5-10=-218/657, 6-10=-1055/540, 6-9=-679/302, 7-9=-715/1609

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 14 and 192 lb uplift at joint 8.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T15	SPECIAL	1	1	L288061071
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:03 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.11	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.44	Vert(TL)	-0.23	10-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.16	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 210 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.1D, W2 2 X 4 SYP No.1D, W1 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-6 max.): 1-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-14
I-Brace: 2 X 4 SYP No.3 - 2-14
T-Brace: 2 X 4 SYP No.3 - 2-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 7

REACTIONS (lb/size) 14=764/0-6-0, 8=764/Mechanical
Max Horz 14=-14(load case 6)
Max Uplift14=-273(load case 4), 8=-258(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-123/88, 1-2=-6/3, 2-3=-1326/648, 3-4=-1346/642, 4-5=-953/472, 5-6=-1237/596, 6-7=-968/470, 7-8=-726/378
BOT CHORD 13-14=-108/257, 12-13=-2/3, 11-12=0/60, 3-11=-242/174, 10-11=-627/1278, 9-10=-487/1004, 8-9=-25/49
WEBS 2-14=-663/355, 2-13=-430/243, 11-13=-228/545, 2-11=-620/1297, 4-11=-7/140, 4-10=-423/239, 5-10=-299/668, 6-10=-280/198, 6-9=-670/301, 7-9=-533/1097

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 14 and 258 lb uplift at joint 8.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T16	SPECIAL	1	1	L288061072
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:05 2008 Page 1

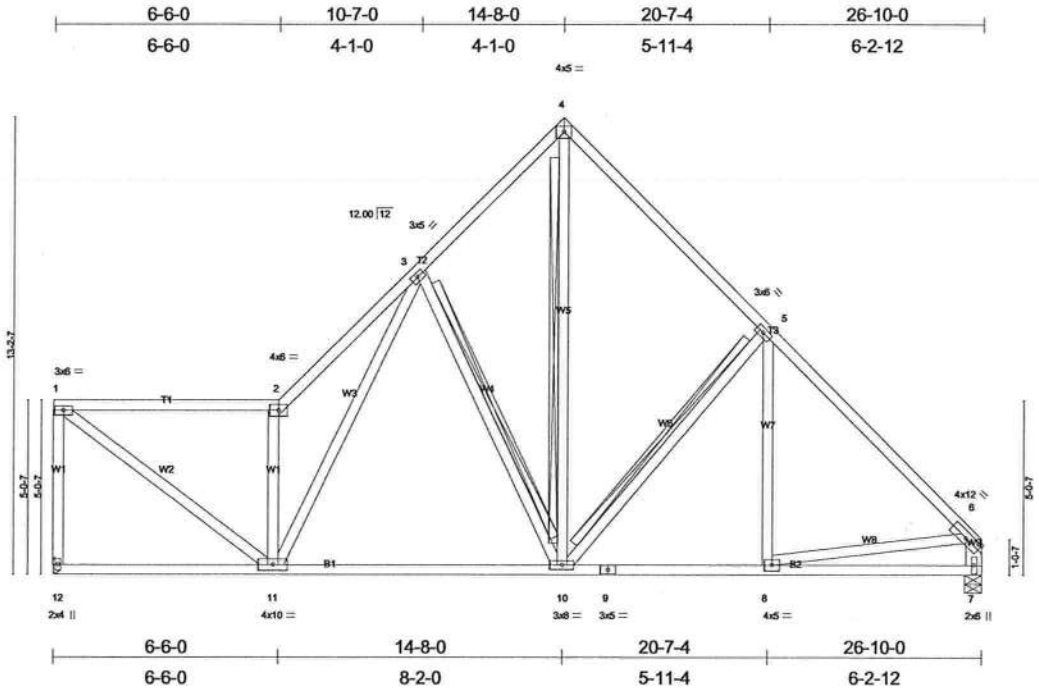


Plate Offsets (X,Y): [6:0-5-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.10	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.21	10-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 197 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.1D, W9 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-10, 4-10, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=847/Mechanical, 7=847/0-6-0
Max Horz 12=-328(load case 4)
Max Uplift12=-179(load case 6), 7=-148(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-810/431, 1-2=-880/435, 2-3=-1379/784, 3-4=-697/537, 4-5=-748/511, 5-6=-954/433, 6-7=-812/389
BOT CHORD 11-12=-235/311, 10-11=-150/614, 9-10=-165/594, 8-9=-165/594, 7-8=-219/224
WEBS 1-11=-521/1056, 2-11=-1209/750, 3-11=-417/700, 3-10=-392/366, 4-10=-535/605, 5-10=-248/324, 5-8=-9/122, 6-8=-61/374

NOTES (7-8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 12 and 148 lb uplift at joint 7.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T16A	SPECIAL	1	1	L288061073 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:07 2008 Page 1

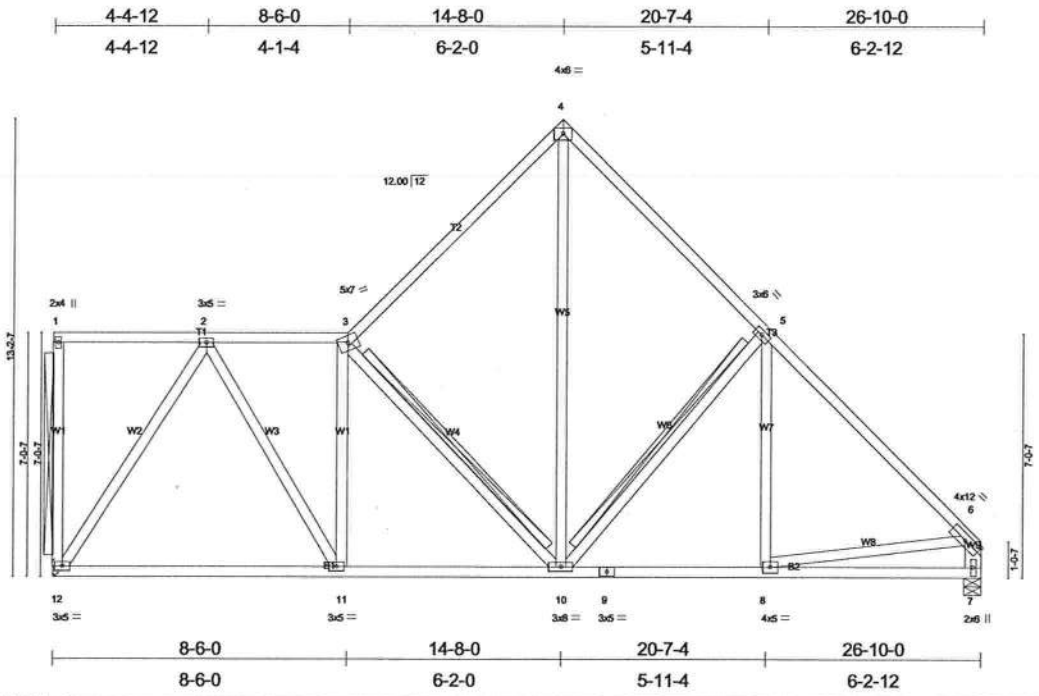


Plate Offsets (X,Y): [6:0-5-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.39	Vert(LL)	-0.10	11-12	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.18	11-12	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.02	7	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 199 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.1D, W9 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 1-12, 3-10, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=847/Mechanical, 7=847/0-6-0
Max Horz 12=-325(load case 4)
Max Uplift12=-227(load case 4), 7=-135(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-110/80, 1-2=-22/2, 2-3=-738/401, 3-4=-743/475, 4-5=-743/487, 5-6=-955/411, 6-7=-814/371
BOT CHORD 11-12=-170/453, 10-11=-154/746, 9-10=-147/593, 8-9=-147/593, 7-8=-229/226
WEBS 2-12=-824/460, 2-11=-304/561, 3-11=-408/313, 3-10=-441/310, 4-10=-432/553, 5-10=-252/311, 5-8=0/141, 6-8=-38/371

NOTES (7)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 12 and 135 lb uplift at joint 7.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T16B	SPECIAL	1	1	L288061074 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:08 2008 Page 1

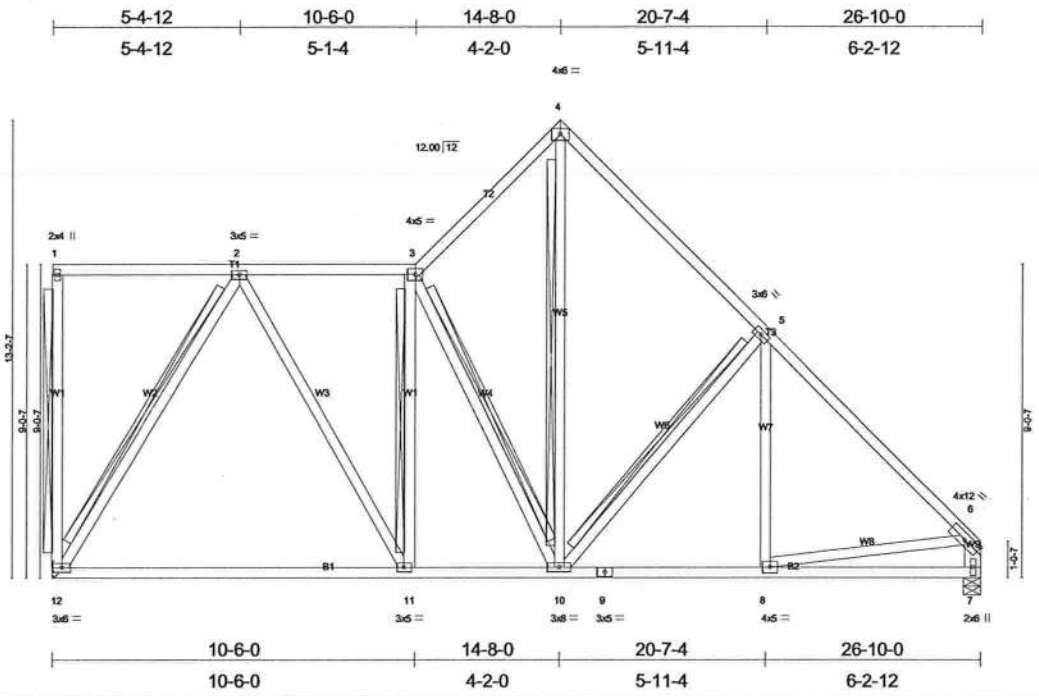


Plate Offsets (X,Y): [6:0-5-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.24	11-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.42	11-12	>749	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 211 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.1D, W9 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 1-12, 2-12, 3-11, 3-10, 4-10, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=847/Mechanical, 7=847/0-6-0
Max Horz 12=-323(load case 4)
Max Uplift12=-277(load case 4), 7=-121(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-127/86, 1-2=-25/0, 2-3=-623/363, 3-4=-691/482, 4-5=-743/461, 5-6=-956/383, 6-7=-815/348
BOT CHORD 11-12=-127/417, 10-11=-86/627, 9-10=-130/596, 8-9=-130/596, 7-8=-220/217
WEBS 2-12=-782/490, 2-11=-226/416, 3-11=-275/254, 3-10=-432/252, 4-10=-456/598, 5-10=-255/324, 5-8=0/153, 6-8=-31/383

NOTES (7-8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 12 and 121 lb uplift at joint 7.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T16C	SPECIAL	1	1	L288061075 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:10 2008 Page 1

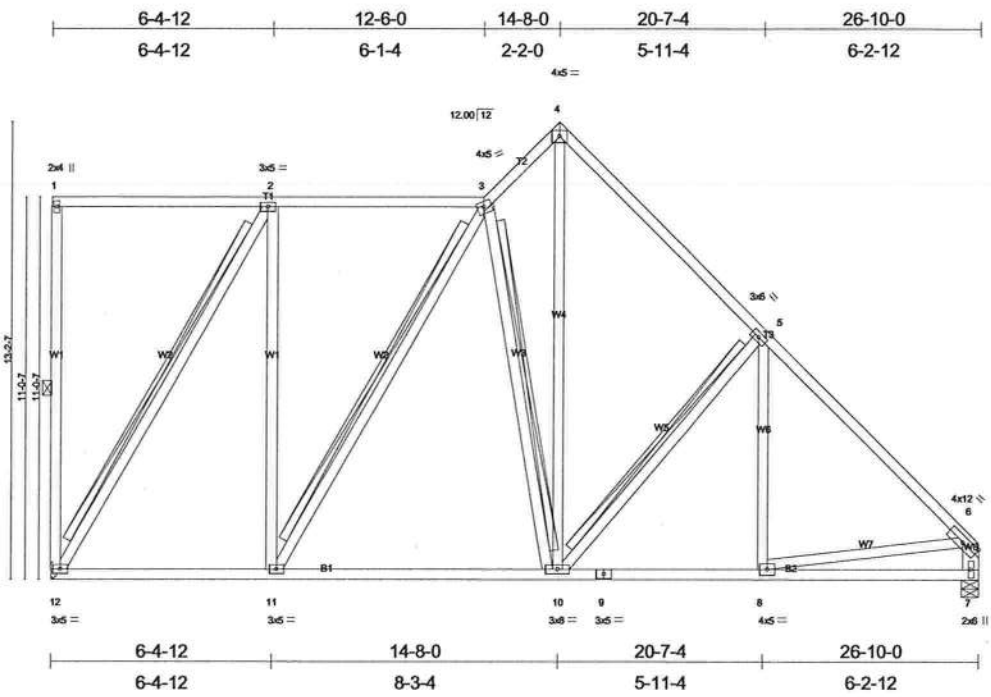


Plate Offsets (X,Y): [6:0-5-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.09	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.17	10-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 224 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W4 2 X 4 SYP No.1D, W8 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-12
T-Brace: 2 X 4 SYP No.3 - 2-12, 3-11, 3-10, 5-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=847/Mechanical, 7=847/0-6-0
Max Horz 12=-340(load case 7)
Max Uplift12=-320(load case 4), 7=-106(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-144/102, 1-2=-9/5, 2-3=-401/251, 3-4=-642/468, 4-5=-748/421, 5-6=-954/349, 6-7=-812/321
BOT CHORD 11-12=-75/401, 10-11=-45/523, 9-10=-106/594, 8-9=-106/594, 7-8=-214/221
WEBS 2-12=-780/490, 2-11=-144/370, 3-11=-247/226, 3-10=-427/233, 4-10=-438/637, 5-10=-246/333, 5-8=-7/124, 6-8=-23/377

NOTES (7-8)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 12 and 106 lb uplift at joint 7.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T16D	SPECIAL	1	1	L288061076 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:12 2008 Page 1

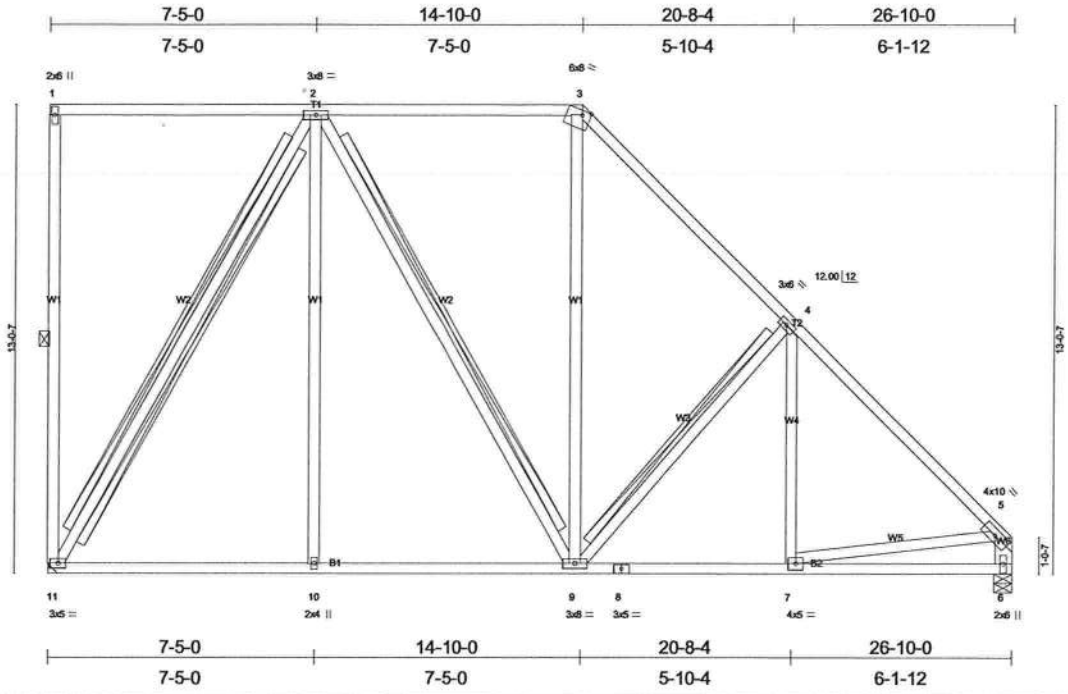


Plate Offsets (X,Y): [3:0-2-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.38	Vert(LL)	-0.06	10-11	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.10	10-11	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.02	6	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 219 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.1D *Except*
W3 2 X 4 SYP No.3, W4 2 X 4 SYP No.3, W6 2 X 6 SYP No.1D, W5 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-11
I-Brace: 2 X 4 SYP No.3 - 2-11
T-Brace: 2 X 4 SYP No.3 - 2-9, 4-9
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 11=847/Mechanical, 6=847/0-6-0
Max Horz 11=-379(load case 7)
Max Uplift11=-278(load case 4), 6=-88(load case 7)

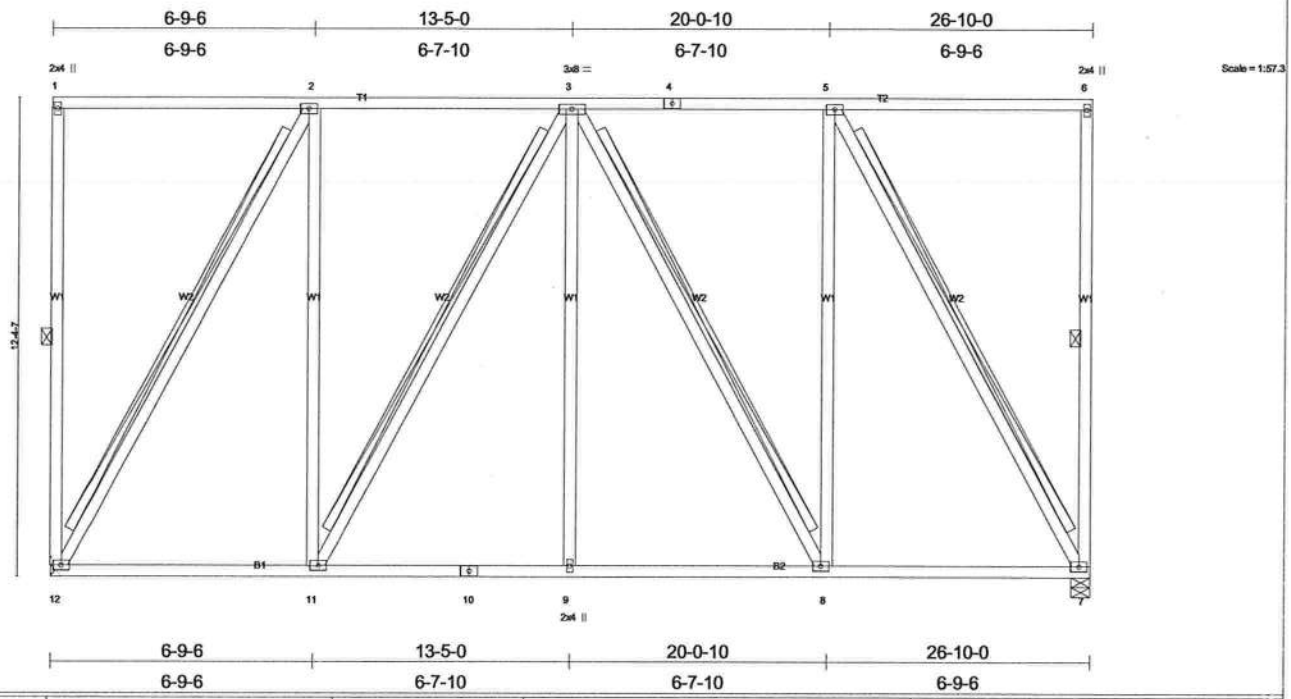
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-170/123, 1-2=-12/6, 2-3=-453/376, 3-4=-746/373, 4-5=-954/306, 5-6=-813/286
BOT CHORD 10-11=-93/376, 9-10=-93/376, 8-9=-78/593, 7-8=-78/593, 6-7=-210/223
WEBS 2-11=-735/517, 2-10=0/236, 2-9=-231/153, 3-9=-7/216, 4-9=-215/327, 4-7=-5/131, 5-7=-34/374

NOTES (6-7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 11 and 88 lb uplift at joint 6.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
7) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T17	SPECIAL	1	1	L288061077
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:14 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC 0.32		Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC 0.23		Vert(TL)	-0.08	7-8	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB 0.67		Horz(TL)	0.02	7	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 247 lb	

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

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-12, 6-7
T-Brace: 2 X 4 SYP No.3 - 2-12, 3-11, 3-8, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 6

REACTIONS (lb/size) 12=849/Mechanical, 7=849/0-6-0
Max Uplift12=-235(load case 4), 7=-235(load case 4)

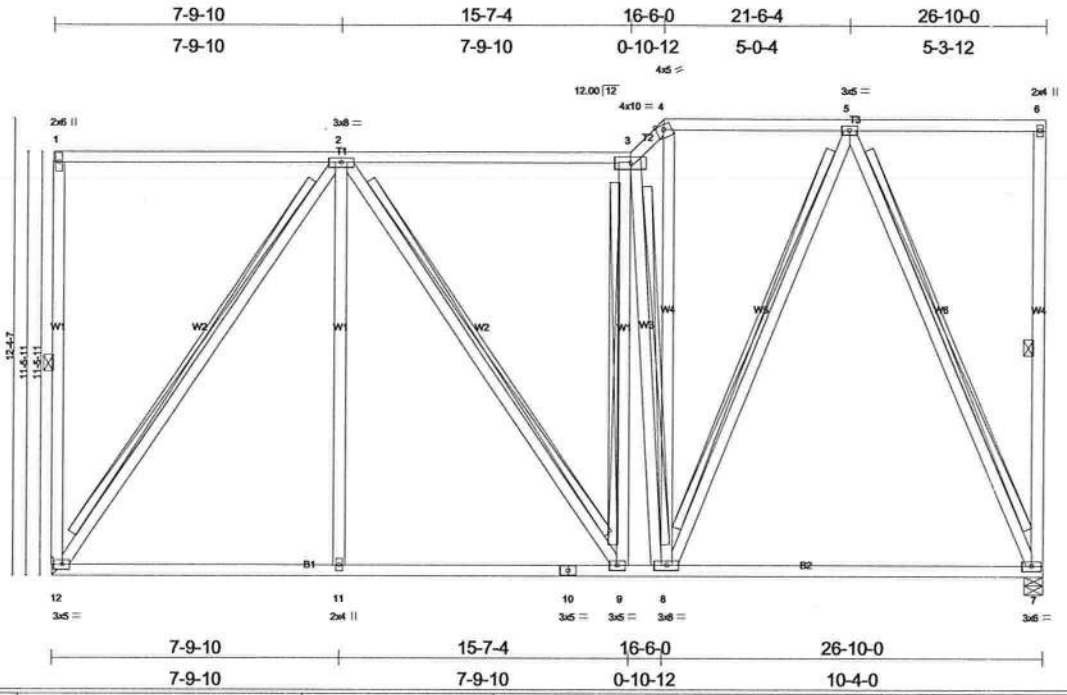
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-157/112, 1-2=-11/5, 2-3=-372/191, 3-4=-372/191, 4-5=-372/191, 5-6=-11/5, 6-7=-157/112
BOT CHORD 11-12=-191/372, 10-11=-248/484, 9-10=-248/484, 8-9=-248/484, 7-8=-191/372
WEBS 2-12=-750/385, 2-11=-57/354, 3-11=-234/120, 3-9=0/192, 3-8=-234/120, 5-8=-57/354, 5-7=-750/385

NOTES (8-9)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 3x5 MT20 unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 12 and 235 lb uplift at joint 7.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
9) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T17A	SPECIAL	1	1	L288061078
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:15 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.45	Vert(LL)	-0.20	7-8	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.35	7-8	>920	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 258 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-12, 6-7
T-Brace: 2 X 4 SYP No.3 - 2-12, 2-9, 3-9, 5-8, 5-7, 3-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 6

REACTIONS (lb/size) 12=849/Mechanical, 7=849/0-6-0
Max Horz 12=28(load case 6)
Max Uplift12=-296(load case 4), 7=-289(load case 4)

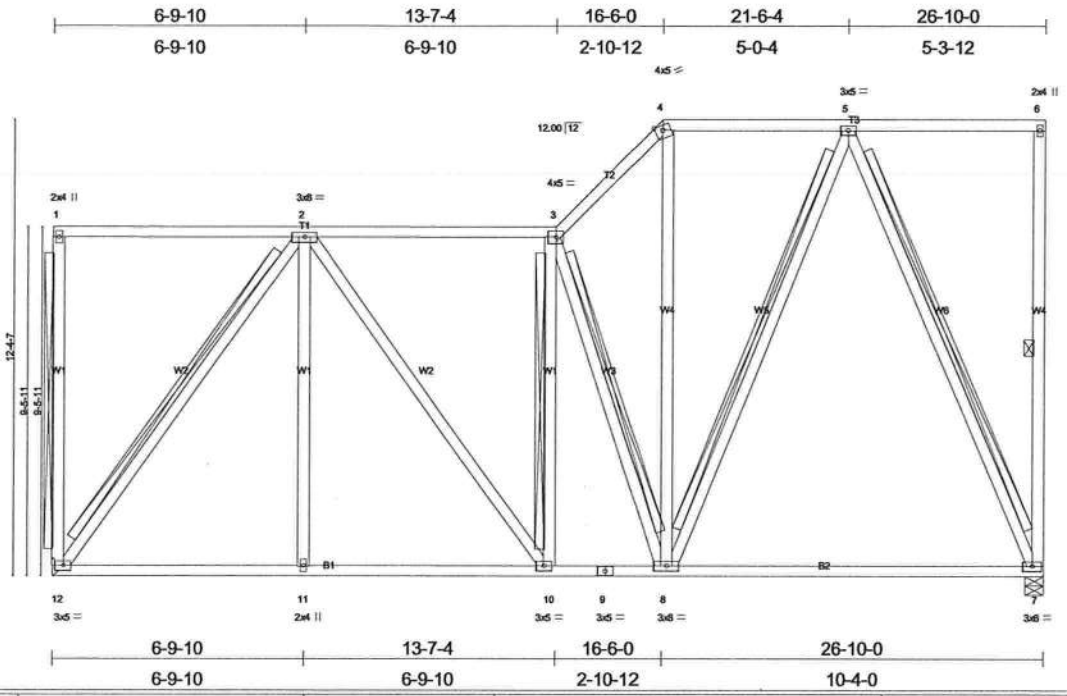
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-179/128, 1-2=-16/8, 2-3=-508/235, 3-4=-700/353, 4-5=-455/238, 5-6=-16/0, 6-7=-125/85
BOT CHORD 11-12=-256/448, 10-11=-256/448, 9-10=-256/448, 8-9=-274/509, 7-8=-168/299
WEBS 2-12=-765/370, 2-11=0/254, 2-9=-32/106, 3-9=-103/25, 4-8=-174/361, 5-8=-187/415, 5-7=-737/427, 3-8=-633/413

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 12 and 289 lb uplift at joint 7.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T17B	SPECIAL	1	1	L288061079
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:17 2008 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.35	Vert(LL)	-0.22	7-8	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.39	7-8	>818	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 241 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W4 2 X 4 SYP No.1D, W4 2 X 4 SYP No.1D, W5 2 X 4 SYP No.1D
W6 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7
T-Brace: 2 X 4 SYP No.3 - 1-12, 2-12, 3-10, 3-8, 5-8, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 6

REACTIONS (lb/size) 12=849/Mechanical, 7=849/0-6-0
Max Horz 12=93(load case 6)
Max Uplift12=-262(load case 4), 7=-245(load case 4)

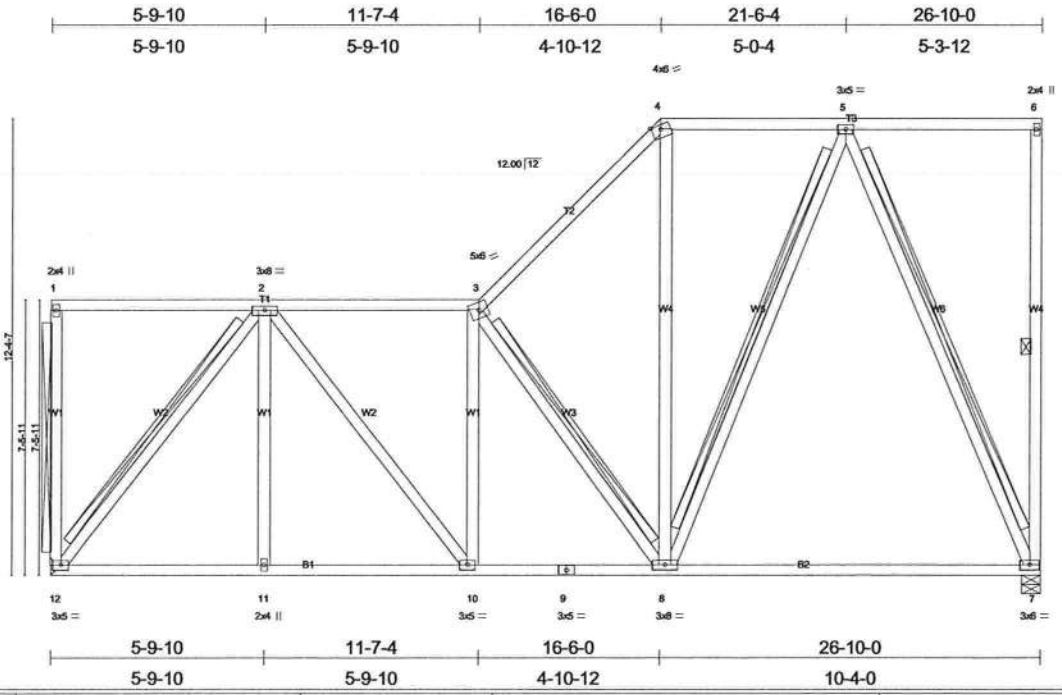
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-154/110, 1-2=-13/7, 2-3=-628/243, 3-4=-700/298, 4-5=-450/261, 5-6=-17/0, 6-7=-123/84
BOT CHORD 11-12=-338/493, 10-11=-338/493, 9-10=-371/630, 8-9=-371/630, 7-8=-181/300
WEBS 2-12=-817/350, 2-11=0/229, 2-10=-54/228, 3-10=-159/55, 3-8=-581/347, 4-8=-72/266, 5-8=-216/401, 5-7=-737/460

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 12 and 245 lb uplift at joint 7.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T17C	SPECIAL	1	1	L288061080 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:19 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.23	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.40	7-8	>799	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 225 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W4 2 X 4 SYP No.1D, W4 2 X 4 SYP No.1D, W5 2 X 4 SYP No.1D
W6 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-6.
BOT CHORD Rigid ceiling directly applied or 8-10-14 oc bracing.
WEBS 1 Row at midpt 6-7
T-Brace: 2 X 4 SYP No.3 - 1-12, 2-12, 3-8, 5-8, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 6

REACTIONS (lb/size) 12=849/Mechanical, 7=849/0-6-0
Max Horz 12=157(load case 6)
Max Uplift12=-221(load case 4), 7=-221(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-134/98, 1-2=-14/8, 2-3=-786/275, 3-4=-732/270, 4-5=-454/287, 5-6=-17/1, 6-7=-126/88
BOT CHORD 11-12=-427/554, 10-11=-427/554, 9-10=-491/790, 8-9=-491/790, 7-8=-190/299
WEBS 2-12=-873/334, 2-11=0/193, 2-10=-100/373, 3-10=-254/98, 3-8=-589/353, 4-8=-44/246, 5-8=-261/413, 5-7=-734/481

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 12 and 221 lb uplift at joint 7.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T17D	SPECIAL	1	1	L288061081
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:20 2008 Page 1

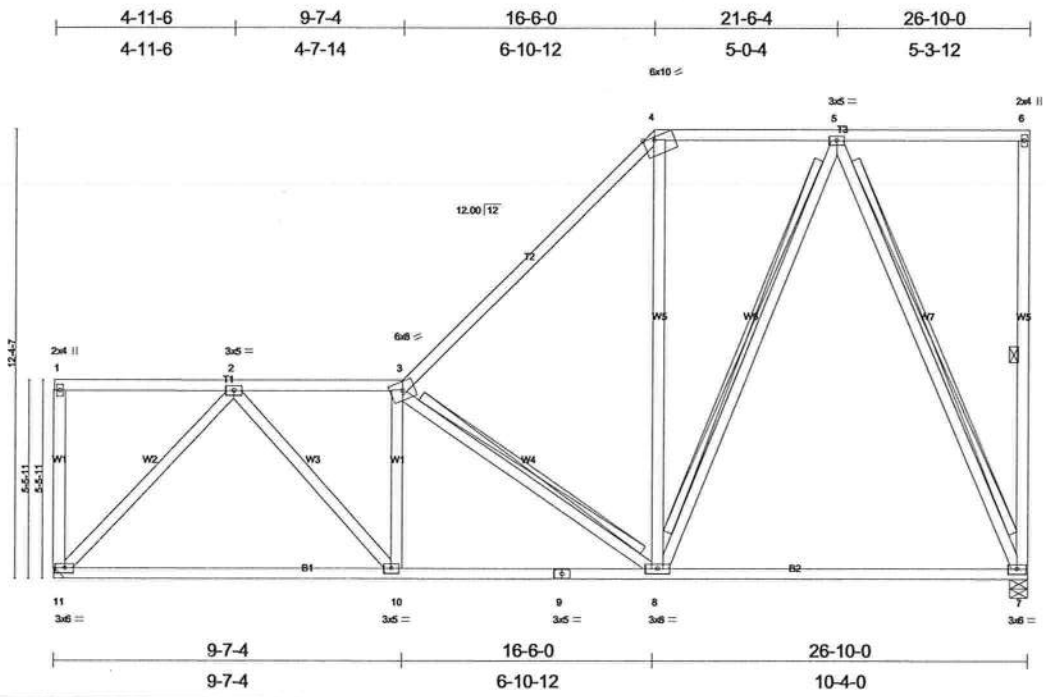


Plate Offsets (X,Y): [4:0-3-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.23	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.41	7-8	>776	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 204 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.1D, W5 2 X 4 SYP No.1D, W6 2 X 4 SYP No.1D
W7 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 1-3, 4-6.
BOT CHORD Rigid ceiling directly applied or 7-9-2 oc bracing.
WEBS 1 Row at midpt 6-7
T-Brace: 2 X 4 SYP No.3 - 3-8, 5-8, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 6

REACTIONS (lb/size) 11=849/Mechanical, 7=849/0-6-0
Max Horz 11=221(load case 6)
Max Uplift11=-174(load case 4), 7=-233(load case 5)

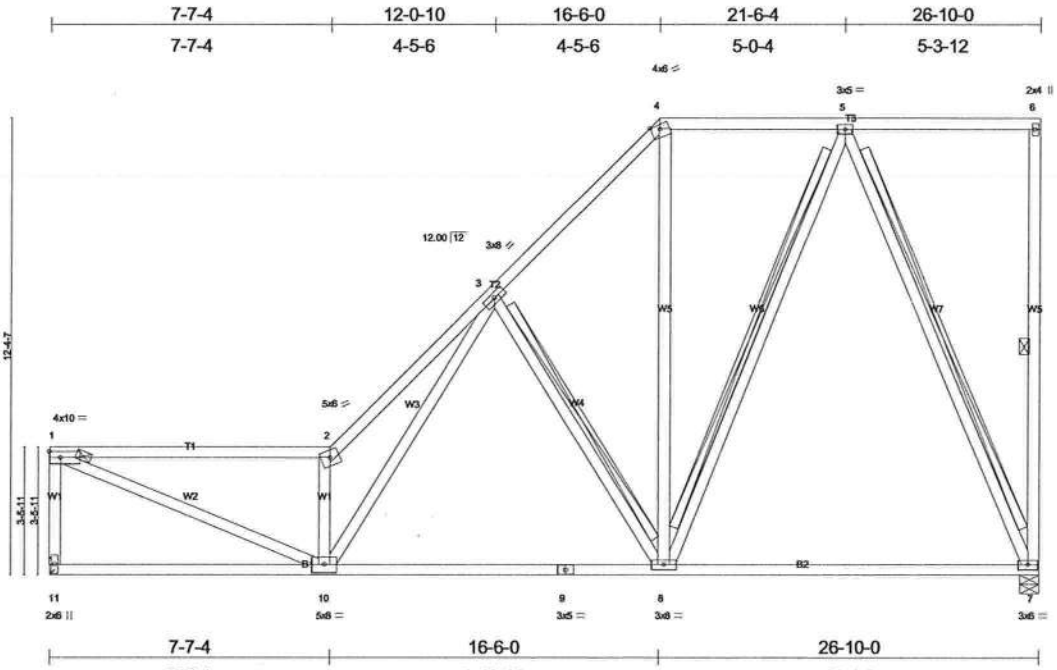
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-127/94, 1-2=-43/4, 2-3=-1037/348, 3-4=-779/249, 4-5=-461/312, 5-6=-17/1, 6-7=-131/95
BOT CHORD 10-11=-541/651, 9-10=-653/1046, 8-9=-653/1046, 7-8=-195/297
WEBS 2-11=-918/349, 2-10=-163/585, 3-10=-364/174, 3-8=-728/421, 4-8=-28/227, 5-8=-314/436, 5-7=-728/492

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 11 and 233 lb uplift at joint 7.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T18	SPECIAL	1	1	L288061082 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:22 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.88	Vert(LL)	-0.21	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.37	7-8	>856	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.92	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 204 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.1D, W5 2 X 4 SYP No.1D, W6 2 X 4 SYP No.1D
W7 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-11 max.): 1-2, 4-6.
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.
WEBS 1 Row at midpt 6-7
T-Brace: 2 X 4 SYP No.3 - 3-8, 5-8, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 1, 6

REACTIONS (lb/size) 11=849/Mechanical, 7=849/0-6-0
Max Horz 11=285(load case 6)
Max Uplift11=-130(load case 6), 7=-242(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-801/318, 1-2=-1464/454, 2-3=-2276/843, 3-4=-725/316, 4-5=-456/309, 5-6=-16/0, 6-7=-124/87
BOT CHORD 10-11=-435/101, 9-10=-530/741, 8-9=-530/741, 7-8=-202/300
WEBS 1-10=-444/1485, 2-10=-1866/814, 3-10=-674/1558, 3-8=-556/426, 4-8=-38/260, 5-8=-286/415, 5-7=-739/513

NOTES (7-8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 11 and 242 lb uplift at joint 7.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T19	MONO HIP	3	1	L288061083
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:24 2008 Page 1

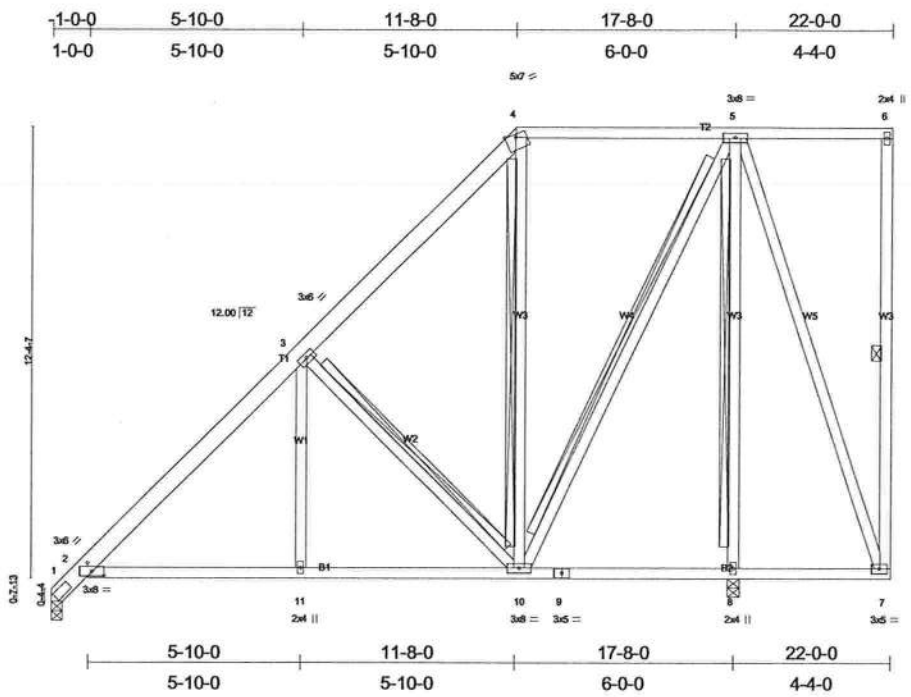


Plate Offsets (X,Y): [2:0-4-0,0-1-7], [4:16-6-0,0-0-0]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.29	Vert(LL)	0.12	2-11	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase 1.25	BC 0.32	Vert(TL)	-0.14	2-11	>999	240		
BCLL 10.0	*	Rep Stress Incr YES	WB 0.58	Horz(TL)	0.05	8	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002	(Matrix)						Weight: 201 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
WEBS 2 X 4 SYP No.1D *Except* W1 2 X 4 SYP No.3, W2 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-7
T-Brace: 2 X 4 SYP No.3 - 3-10, 4-10, 5-10, 5-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 1=564/0-3-8, 8=891/0-4-0
Max Horz 1=407(load case 6)
Max Uplift1=-9(load case 6), 8=-421(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-422/0, 2-3=-651/31, 3-4=-382/70, 4-5=-180/147, 5-6=-1/4, 6-7=-80/62
BOT CHORD 2-11=-452/439, 10-11=-452/440, 9-10=-31/51, 8-9=-31/51, 7-8=-31/51
WEBS 3-11=-7/206, 3-10=-371/427, 4-10=-121/171, 5-10=-457/477, 5-8=-827/777, 5-7=-165/97

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 9 lb uplift at joint 1 and 421 lb uplift at joint 8.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T20	MONO HIP	6	1	L288061084
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:25 2008 Page 1

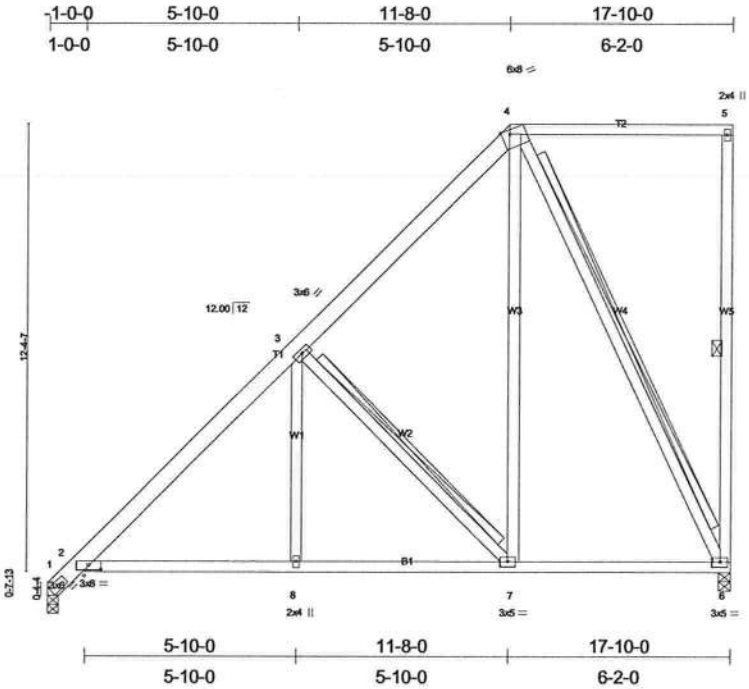


Plate Offsets (X,Y): [2:0-4-0,0-1-7], [4:0-2-11,Edge], [5:21-1-7,3-10-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	0.13	2-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.14	2-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 153 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
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 4 SYP No.2, W3 2 X 4 SYP No.1D, W4 2 X 4 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 8-3-15 oc bracing.
WEBS 1 Row at midpt 5-6
T-Brace: 2 X 4 SYP No.3 - 3-7, 4-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 5

REACTIONS (lb/size) 1=595/0-3-8, 6=593/0-4-0
Max Horz 1=407(load case 6)
Max Uplift1=-12(load case 6), 6=-243(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-398/0, 2-3=-697/93, 3-4=-427/132, 4-5=-11/3, 5-6=-142/96
BOT CHORD 2-8=-496/472, 7-8=-496/472, 6-7=-200/218
WEBS 3-8=-7/203, 3-7=-366/425, 4-7=-248/364, 4-6=-469/438

NOTES (7)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 12 lb uplift at joint 1 and 243 lb uplift at joint 6.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T20A	MONO HIP	1	1	L288061085 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:27 2008 Page 1

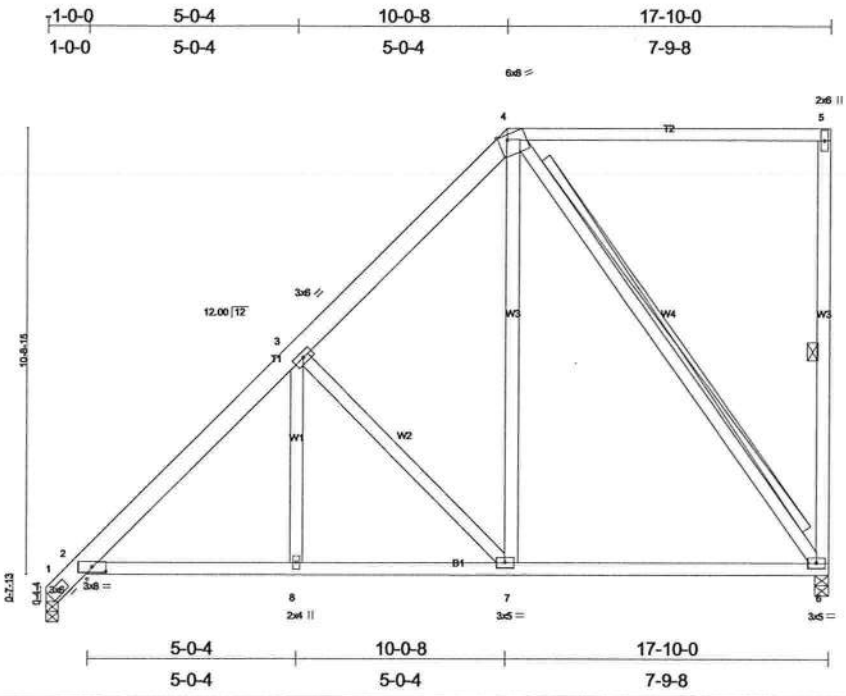


Plate Offsets (X,Y): [2:0-4-0,0-1-7], [4:0-2-11,Edge], [5:19-11-12,5-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.37	Vert(LL)	0.10	2-8	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.14	6-7	>999	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.05	6	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 142 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
WEBS 2 X 4 SYP No.1D *Except*
W1 2 X 4 SYP No.3, W2 2 X 4 SYP No.3, W4 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-5 oc bracing.
WEBS 1 Row at midpt 5-6
T-Brace: 2 X 4 SYP No.3 - 4-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=595/0-3-8, 6=593/0-4-0
Max Horz 1=354(load case 6)
Max Uplift1=-39(load case 6), 6=-208(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-347/0, 2-3=-722/176, 3-4=-485/201, 4-5=-21/8, 5-6=-186/130
BOT CHORD 2-8=-501/497, 7-8=-501/497, 6-7=-246/287
WEBS 3-8=-19/163, 3-7=-303/366, 4-7=-200/358, 4-6=-452/399

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 39 lb uplift at joint 1 and 208 lb uplift at joint 6.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T20B	MONO HIP	1	1	L288061086
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:28 2008 Page 1

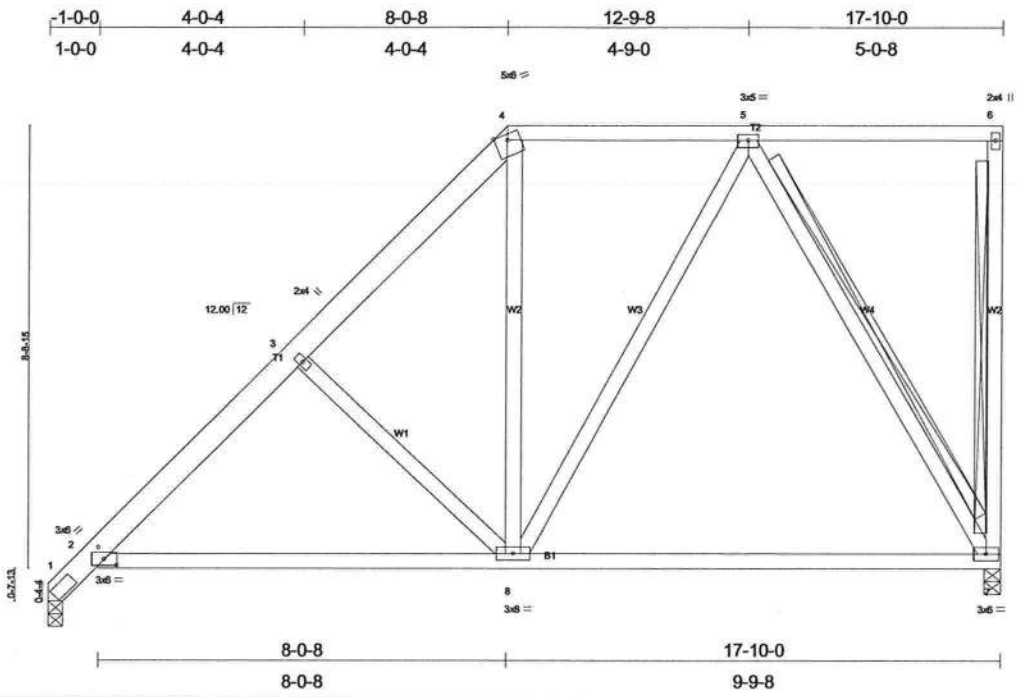


Plate Offsets (X,Y): [2:0-3-0,0-1-7], [4:11-4-8,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.16	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.28	7-8	>801	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 132 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
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-11 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-7, 5-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=595/0-3-8, 7=593/0-4-0
Max Horz 1=290(load case 6)
Max Uplift1=-63(load case 6), 7=-194(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-347/0, 2-3=-743/261, 3-4=-590/284, 4-5=-349/270, 5-6=-20/0, 6-7=-118/80
BOT CHORD 2-8=-515/539, 7-8=-197/262
WEBS 3-8=-267/335, 4-8=-44/212, 5-8=-157/206, 5-7=-500/392

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 63 lb uplift at joint 1 and 194 lb uplift at joint 7.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T20C	MONO HIP	1	1	L288061087 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:30 2008 Page 1

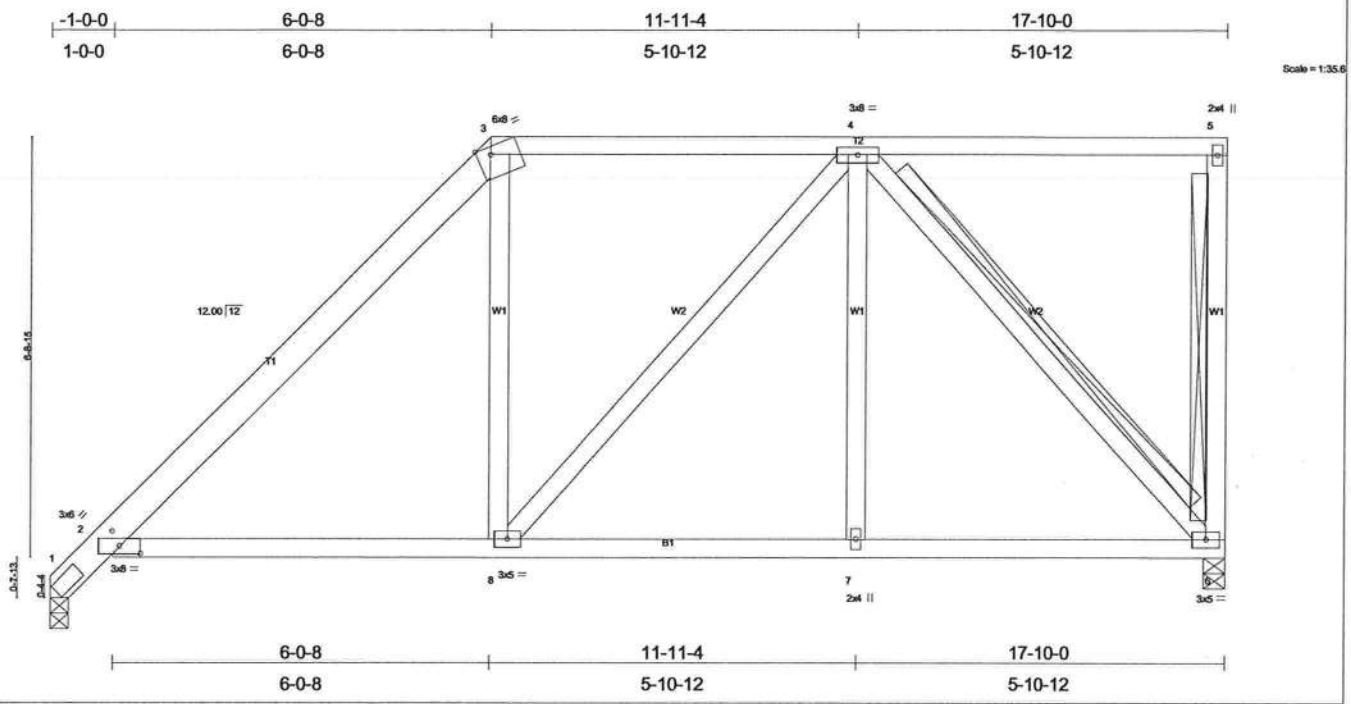


Plate Offsets (X,Y): [2:0-4-0,0-1-7], [3:8-6-8,0-0-0], [3:0-2-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	0.14	2-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.16	2-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 120 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
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-7 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-6, 4-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=595/0-3-8, 6=593/0-4-0
Max Horz 1=226(load case 6)
Max Uplift1=-78(load case 5), 6=-182(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-347/10, 2-3=-680/263, 3-4=-453/339, 4-5=-18/10, 5-6=-143/104
BOT CHORD 2-8=-342/449, 7-8=-245/389, 6-7=-245/389
WEBS 3-8=-7/159, 4-8=-143/91, 4-7=0/171, 4-6=-558/352

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 78 lb uplift at joint 1 and 182 lb uplift at joint 6.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T20D	MONO HIP	1	1	L288061088
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:31 2008 Page 1

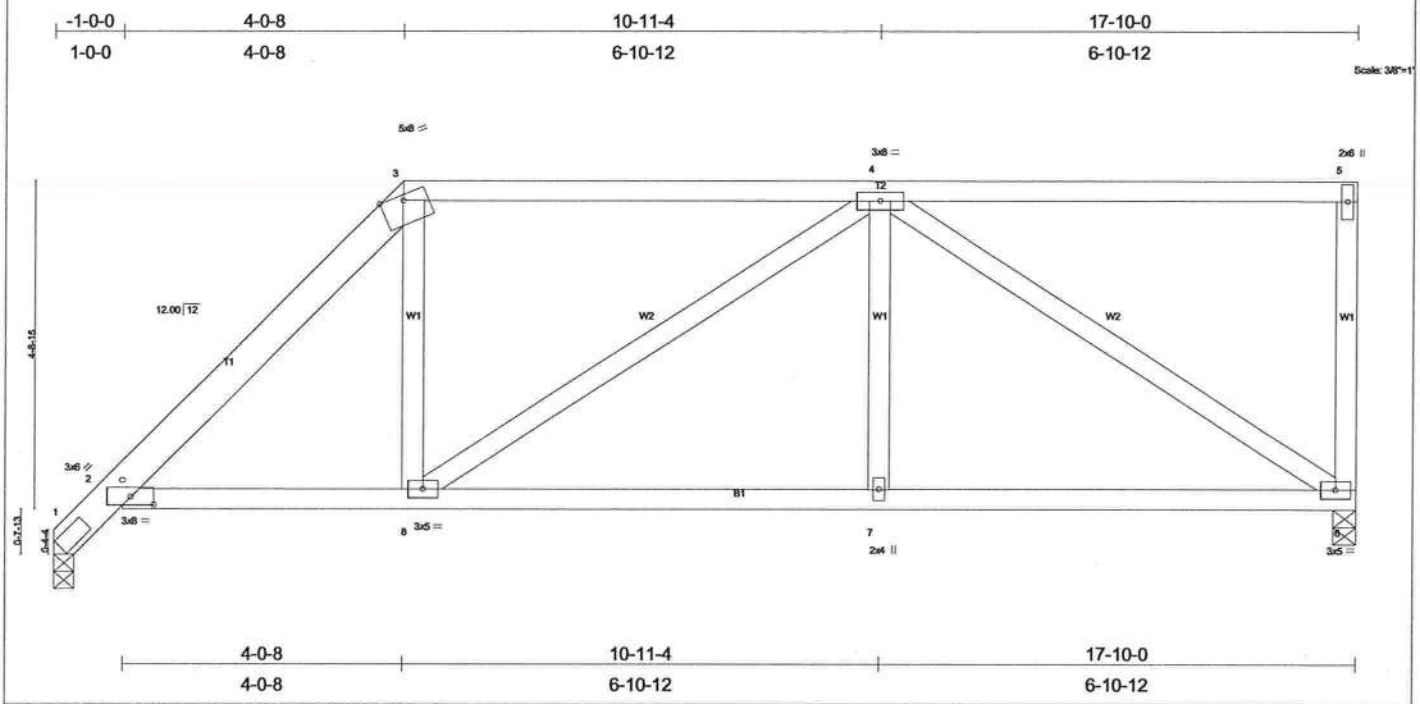


Plate Offsets (X,Y): [2:0-4-0,0-1-7], [3:5-8-9,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	0.07	2-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.08	7-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 106 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
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-14 oc bracing.

REACTIONS (lb/size) 1=595/0-3-8, 6=593/0-4-0
Max Horz 1=162(load case 6)
Max Uplift1=-106(load case 5), 6=-191(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-347/39, 2-3=-785/352, 3-4=-559/377, 4-5=-41/22, 5-6=-168/120
BOT CHORD 2-8=-378/551, 7-8=-362/627, 6-7=-362/627
WEBS 3-8=-14/234, 4-8=-85/90, 4-7=0/212, 4-6=-702/407

NOTES (6)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 106 lb uplift at joint 1 and 191 lb uplift at joint 6.
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

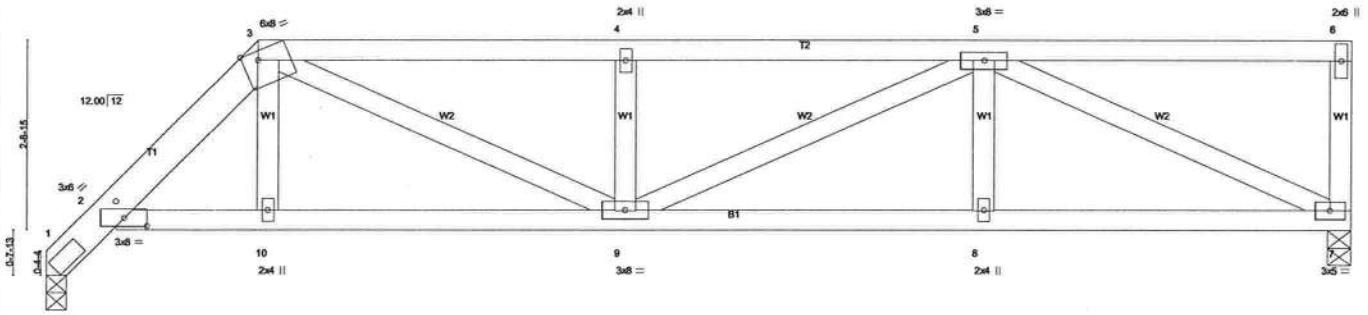
Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T21	MONO HIP	1	1	L288061089 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:33 2008 Page 1

-1-0-0 | 2-0-8 | 7-4-4 | 12-6-4 | 17-10-0

1-0-0 | 2-0-8 | 5-3-12 | 5-2-0 | 5-3-12

Scale: 3/8"=1'



2-0-8 | 7-4-4 | 12-6-4 | 17-10-0

2-0-8 | 5-3-12 | 5-2-0 | 5-3-12

Plate Offsets (X,Y): [2:0-4-0,0-1-7], [3:2-10-10,0-0-0], [3:0-2-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.06	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	-0.12	8-9	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 97 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
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-11 oc bracing.

REACTIONS (lb/size) 1=670/0-3-8, 7=696/0-4-0
Max Horz 1=99(load case 5)
Max Uplift1=-203(load case 4), 7=-306(load case 3)

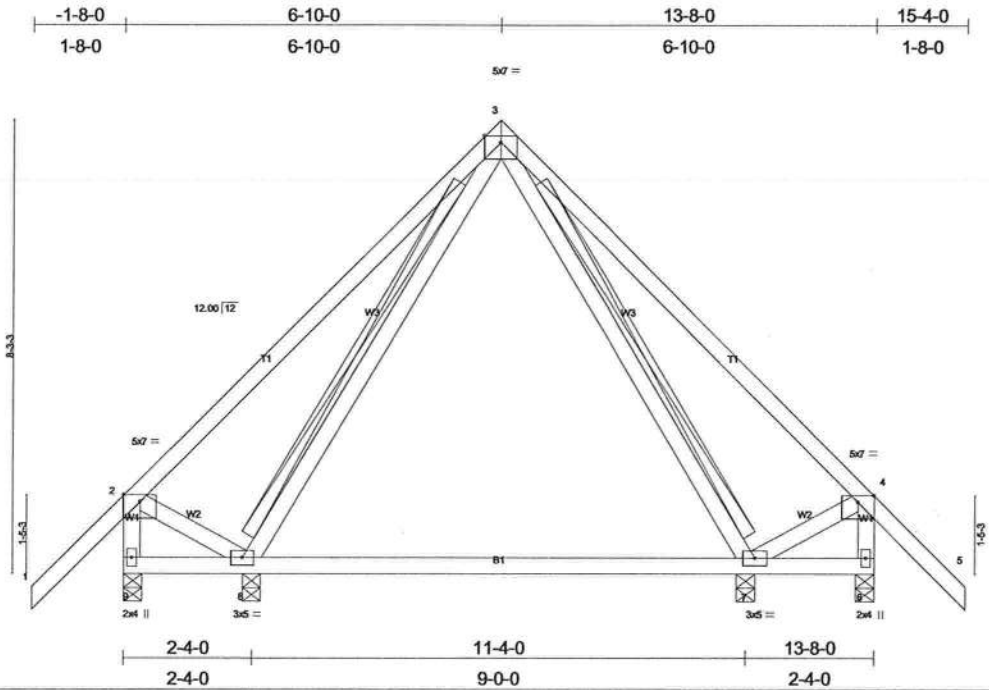
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-391/115, 2-3=-1028/365, 3-4=-1350/569, 4-5=-1346/571, 5-6=-66/29, 6-7=-159/101
BOT CHORD 2-10=-318/787, 9-10=-318/795, 8-9=-486/1116, 7-8=-486/1116
WEBS 3-10=0/188, 3-9=-304/604, 4-9=-299/203, 5-9=-102/255, 5-8=0/165, 5-7=-1163/505

NOTES (8)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 203 lb uplift at joint 1 and 306 lb uplift at joint 7.
6) Girder carries hip end with 0-0-0 right side setback, 2-0-8 left side setback, and 3-0-0 end setback.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-66, 2-3=-54, 3-6=-64(F=-10), 2-10=-10, 7-10=-12(F=-2)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T22	COMMON	3	1	L288061090 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:35 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC 0.43		Vert(LL)	-0.11	7-8	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase	1.25	BC 0.36		Vert(TL)	-0.19	7-8	>588	240		
BCLL 10.0	*	Rep Stress Incr	YES	WB 0.08		Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 93 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-8, 3-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 9=296/0-4-0, 6=296/0-4-0, 8=230/0-4-0, 7=230/0-4-0
Max Horz 9=183(load case 5)
Max Uplift9=-119(load case 4), 6=-117(load case 7), 8=-106(load case 6), 7=-95(load case 7)
Max Grav 9=296(load case 1), 6=296(load case 1), 8=302(load case 2), 7=302(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-201/140, 3-4=-201/140, 4-5=0/69, 2-9=-313/148, 4-6=-313/148
BOT CHORD 8-9=-336/287, 7-8=-28/164, 6-7=-156/113
WEBS 3-8=-151/46, 3-7=-151/52, 2-8=-134/329, 4-7=-127/329

NOTES (5)
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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 9, 117 lb uplift at joint 6, 106 lb uplift at joint 8 and 95 lb uplift at joint 7.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T22G	GABLE	1	1	L288061091 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:37 2008 Page 1

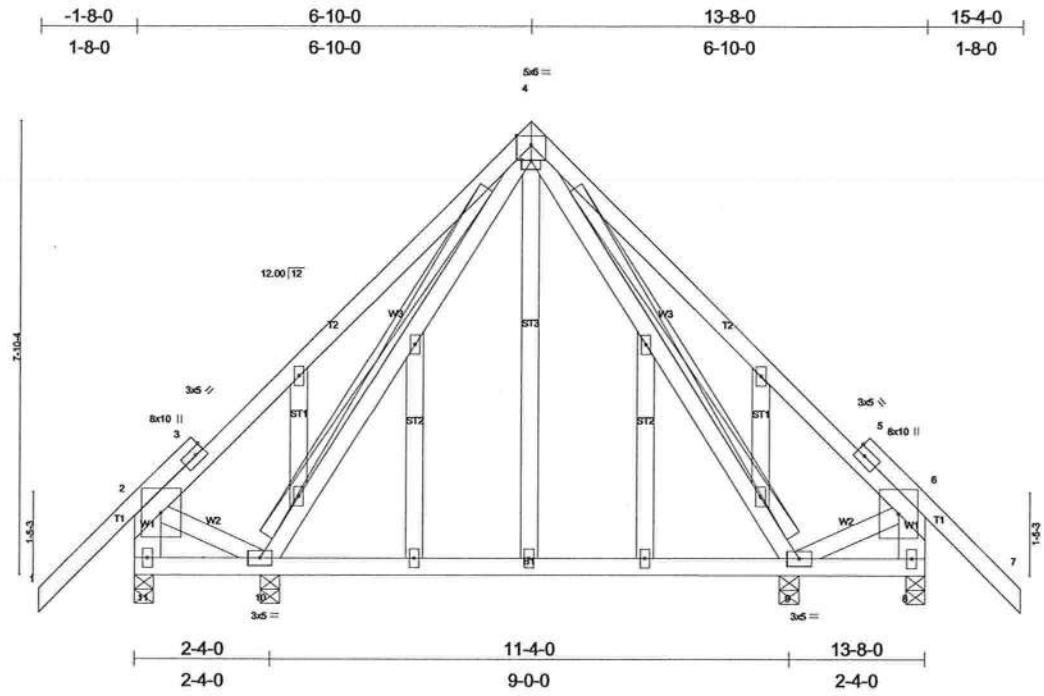


Plate Offsets (X,Y): [4:0-2-0,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.10	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.18	9-10	>606	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 126 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-10, 4-9
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 11=225/0-4-0, 8=225/0-4-0, 10=300/0-4-0, 9=300/0-4-0
Max Horz 11=231(load case 5)
Max Uplift11=-168(load case 4), 8=-147(load case 5), 10=-287(load case 6), 9=-273(load case 7)
Max Grav 11=225(load case 1), 8=225(load case 1), 10=327(load case 2), 9=327(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-157/62, 3-4=-133/99, 4-5=-133/77, 5-6=-157/42, 6-7=0/68, 2-11=-256/111, 6-8=-256/93
BOT CHORD 10-11=-470/361, 9-10=-46/216, 8-9=-246/177
WEBS 4-10=-161/80, 4-9=-161/80, 2-10=-204/543, 6-9=-199/538

NOTES (8)
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) 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 11, 147 lb uplift at joint 8, 287 lb uplift at joint 10 and 273 lb uplift at joint 9.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T23	SPECIAL	1	1	L288061092
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:39 2008 Page 1

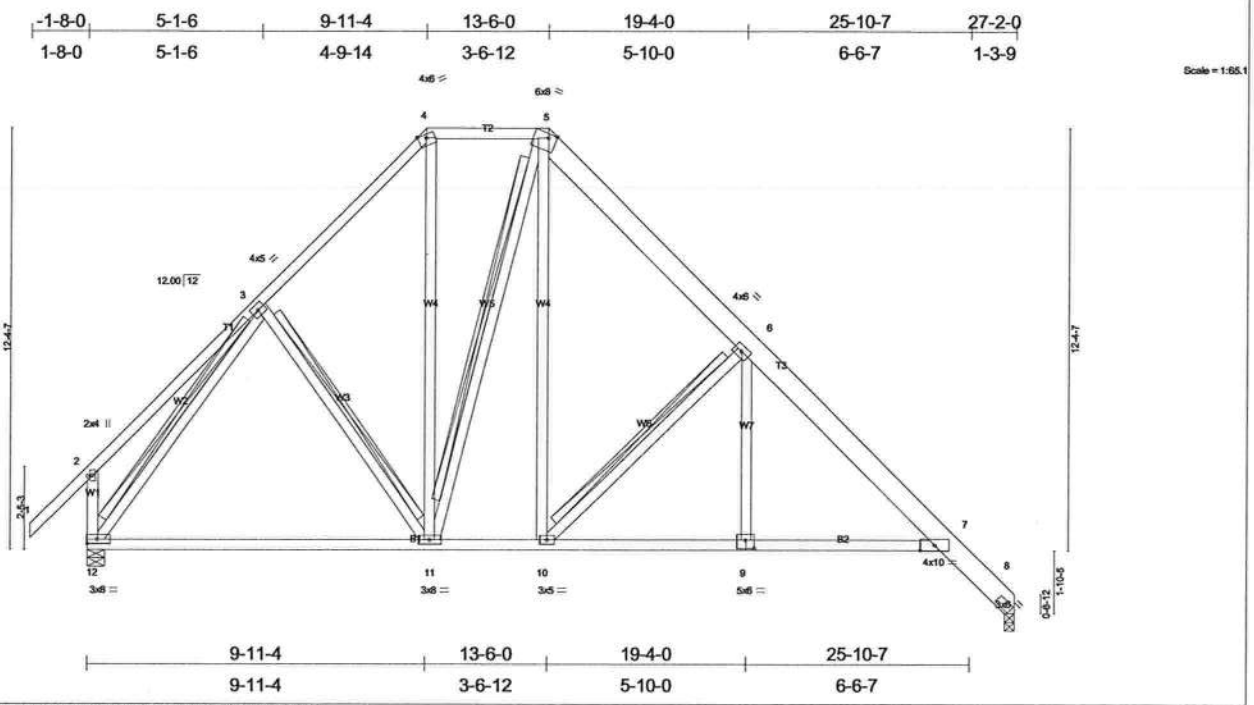


Plate Offsets (X,Y): [4:0-0-0,14-0-10], [5:0-2-11,Edge], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	0.19	7-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.33	11-12	>981	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.23	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 229 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T3 2 X 8 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-11, 5-11, 6-10, 3-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 8=863/0-3-8, 12=961/0-6-0
Max Horz 12=-377(load case 4)
Max Uplift8=-184(load case 7), 12=-216(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-197/333, 3-4=-736/544, 4-5=-458/476, 5-6=-854/566, 6-7=-1157/525, 7-8=-554/281, 2-12=-290/416
BOT CHORD 11-12=-251/480, 10-11=-99/482, 9-10=-235/893, 7-9=-235/891
WEBS 3-11=-100/258, 4-11=-211/257, 5-11=-185/176, 5-10=-311/412, 6-10=-581/485, 6-9=0/232, 3-12=-752/140

NOTES (8)
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 and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 8 and 216 lb uplift at joint 12.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T23A	SPECIAL	1	3	L288061093 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:40 2008 Page 1

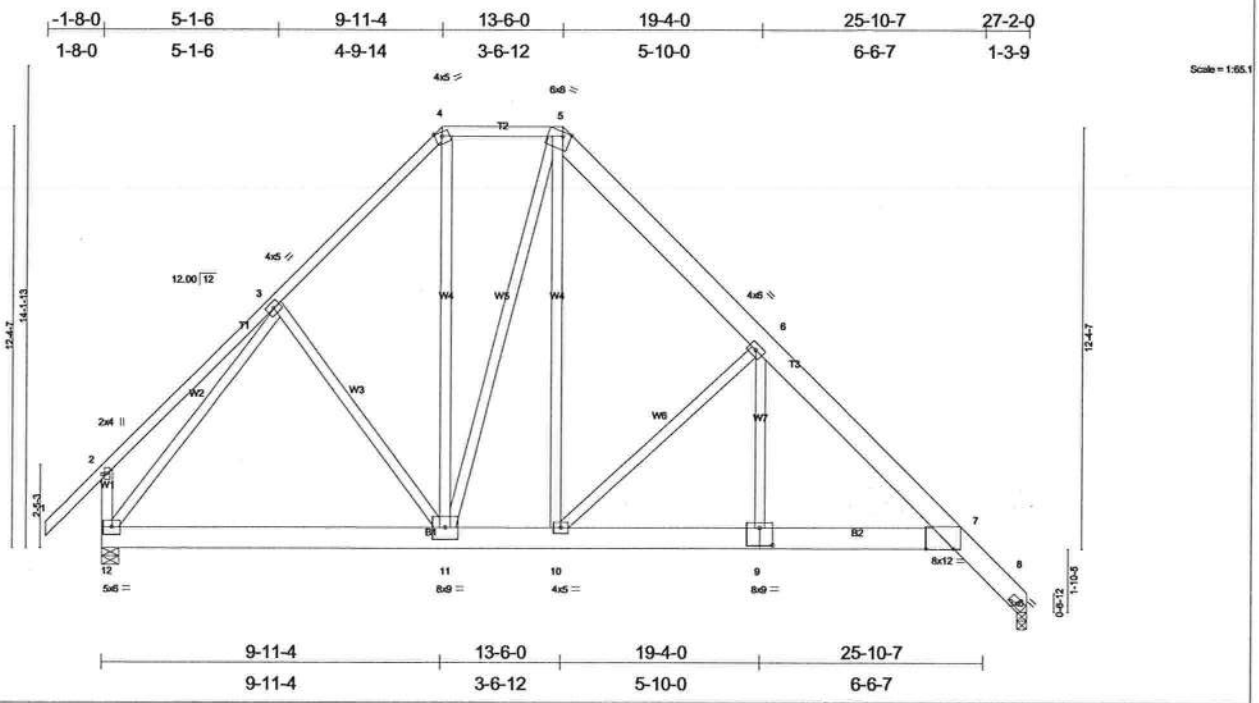


Plate Offsets (X,Y): [4:0-0-0,14-0-10], [5:0-2-11,Edge], [7:0-9-12,0-0-0], [9:0-4-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.78	Vert(LL)	-0.16	7-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.30	7-9	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.32	Horz(TL)	0.23	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 796 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T3 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 8=3909/0-3-8, 12=4498/0-6-0
Max Horz 12=-374(load case 3)
Max Uplift8=-1296(load case 6), 12=-1508(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-847/468, 3-4=-3599/1329, 4-5=-2513/989, 5-6=-3708/1320, 6-7=-6091/2014, 7-8=-2665/909, 2-12=-788/462
BOT CHORD 11-12=-894/2256, 10-11=-825/2467, 9-10=-1417/4601, 7-9=-1405/4566
WEBS 3-11=-222/487, 4-11=-870/2277, 5-11=-220/301, 5-10=-843/2209, 6-10=-2980/1173, 6-9=-1002/3002, 3-12=-3044/926

NOTES (11)
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1296 lb uplift at joint 8 and 1508 lb uplift at joint 12.
9) Girder carries tie-in span(s): 18-10-0 from 0-0-0 to 25-10-7
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-5=-54, 5-7=-54, 7-8=-68, 7-12=-275(F=-265)

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T23G	GABLE	1	1	L288061094 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:43 2008 Page 1

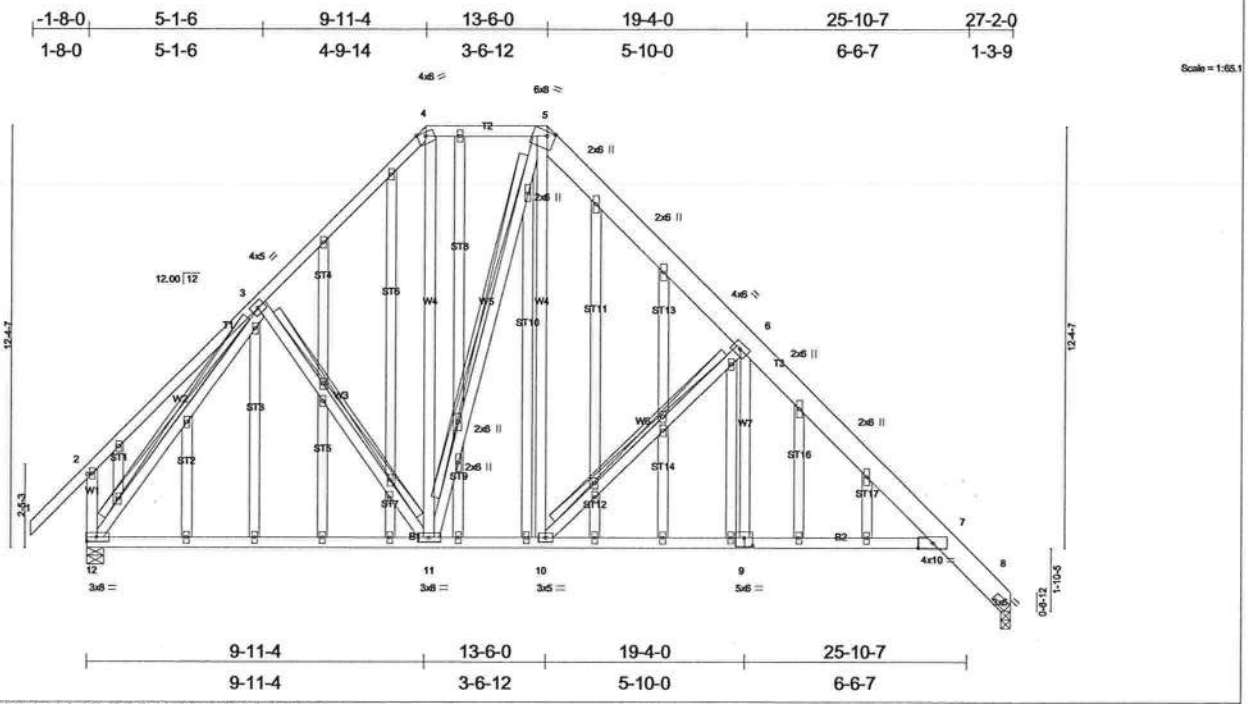


Plate Offsets (X,Y): [4:0-0-0,14-0-10], [5:0-2-11,Edge], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	0.19	7-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.33	11-12	>981	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.23	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 351 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T3 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-11, 5-11, 6-10, 3-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 8=863/0-3-8, 12=961/0-6-0
Max Horz 12=-480(load case 4)
Max Uplift8=-363(load case 7), 12=-412(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/69, 2-3=-197/333, 3-4=-736/544, 4-5=-458/476, 5-6=-854/566, 6-7=-1157/525, 7-8=-554/281, 2-12=-290/416
BOT CHORD 11-12=-346/480, 10-11=-168/482, 9-10=-235/893, 7-9=-235/891
WEBS 3-11=-100/298, 4-11=-212/257, 5-11=-185/223, 5-10=-320/412, 6-10=-581/496, 6-9=0/232, 3-12=-752/223

NOTES (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 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) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 8 and 412 lb uplift at joint 12.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T24	SPECIAL	1	1	L288061095 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:45 2008 Page 1

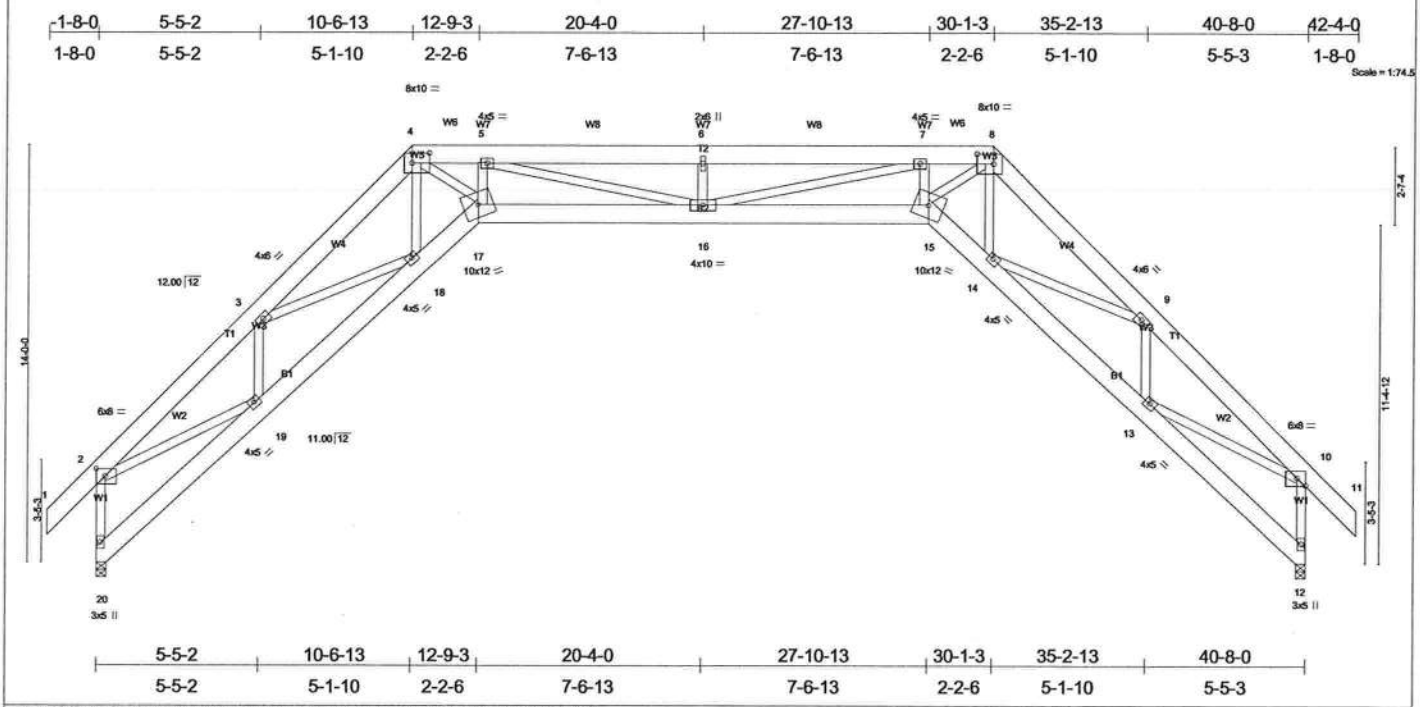


Plate Offsets (X,Y): [2:0-3-8,0-3-0], [4:0-6-12,0-4-0], [8:0-6-12,0-4-0], [10:0-3-8,0-3-0]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.34	16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.65	16	>742	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.82	Horz(TL)	1.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 419 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-9 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 20=926/0-4-0, 12=926/0-4-0
Max Horz 20=269(load case 5)
Max Uplift20=-182(load case 6), 12=-182(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-1689/745, 3-4=-2531/1108, 4-5=-3676/1594, 5-6=-4229/1574, 6-7=-4229/1574, 7-8=-3676/1144, 8-9=-2531/675, 9-10=-1689/564, 10-11=0/44, 2-20=-878/443, 10-12=-878/443
BOT CHORD 19-20=-324/352, 18-19=-914/1536, 17-18=-1077/2260, 16-17=-1608/3685, 15-16=-1175/3685, 14-15=-620/2260, 13-14=-294/1536, 12-13=-42/79
WEBS 3-19=-600/268, 3-18=-182/662, 4-18=-206/43, 4-17=-1017/2547, 5-17=-253/285, 5-16=-370/669, 6-16=-281/181, 7-16=-429/669, 7-15=-253/200, 8-15=-900/2547, 8-14=-206/130, 9-14=-286/662, 9-13=-600/144, 2-19=-464/1227, 10-13=-230/1227

NOTES (8)
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 and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Bearing at joint(s) 20, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 20 and 182 lb uplift at joint 12.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T24A	SPECIAL	9	1	L288061096 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:48 2008 Page 1

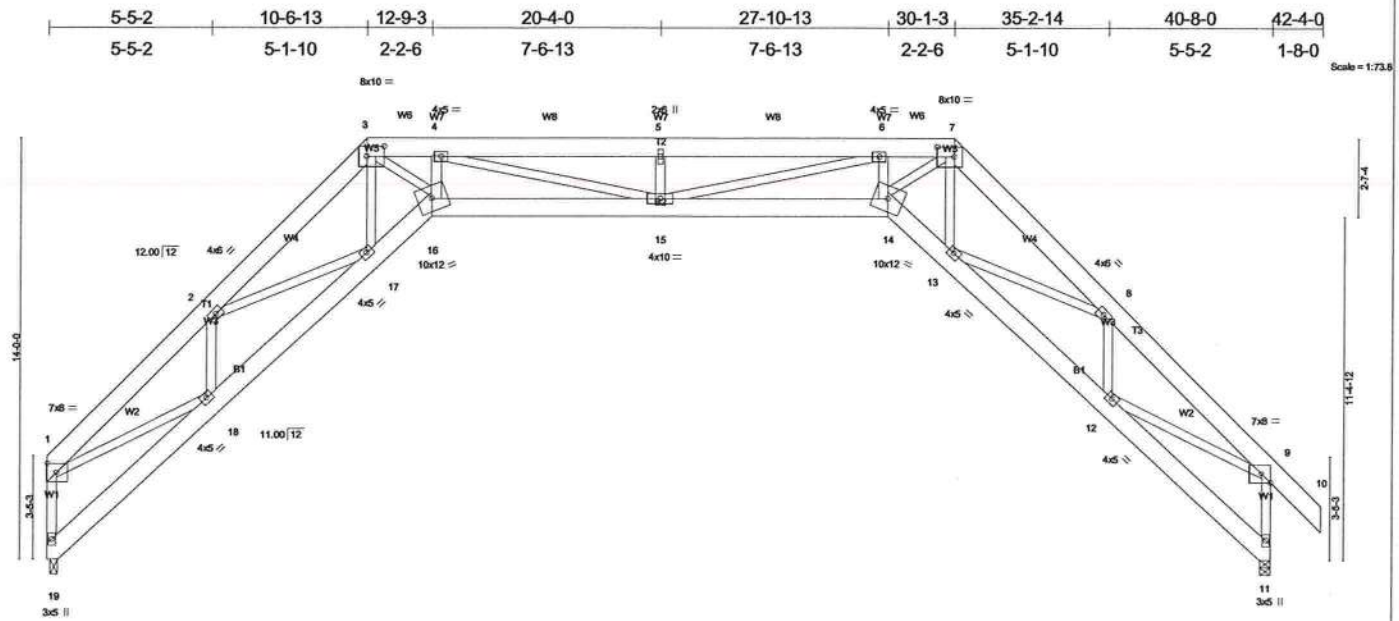


Plate Offsets (X,Y): [3:0-6-12,0-4-0], [7:0-6-12,0-4-0], [9:0-3-8,Edge]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	0.49	15-16	>986	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.65	15	>740	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.82	Horz(TL)	1.04	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 411 lb	

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

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

REACTIONS (lb/size) 19=862/0-3-0, 11=928/0-4-0
Max Horz 19=-292(load case 4)
Max Uplift19=-565(load case 5), 11=-576(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1709/1796, 2-3=-2549/1914, 3-4=-3696/2690, 4-5=-4244/2897, 5-6=-4244/2897, 6-7=-3686/2286, 7-8=-2537/1846, 8-9=-1692/1824, 9-10=0/44, 1-19=-820/898, 9-11=-880/1018
BOT CHORD 18-19=-248/432, 17-18=-1357/1562, 16-17=-1564/2274, 15-16=-2480/3705, 14-15=-2052/3695, 13-14=-1113/2265, 12-13=-979/1539, 11-12=-43/193
WEBS 2-18=-607/326, 2-17=-285/654, 3-17=-359/0, 3-16=-1701/2559, 4-16=-252/310, 4-15=-604/667, 5-15=-281/158, 6-15=-658/674, 6-14=-254/222, 7-14=-1586/2555, 7-13=-358/50, 8-13=-389/664, 8-12=-601/189, 9-12=-1158/1229, 1-18=-1208/1238

NOTES (10)
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 and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Special provisions shall be made by the building designer to allow for 0.77in of horizontal movement due to live load and 1.04in due to total load.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 19, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 19 and 576 lb uplift at joint 11.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T24B	SPECIAL	3	1	L288061097 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:50 2008 Page 1

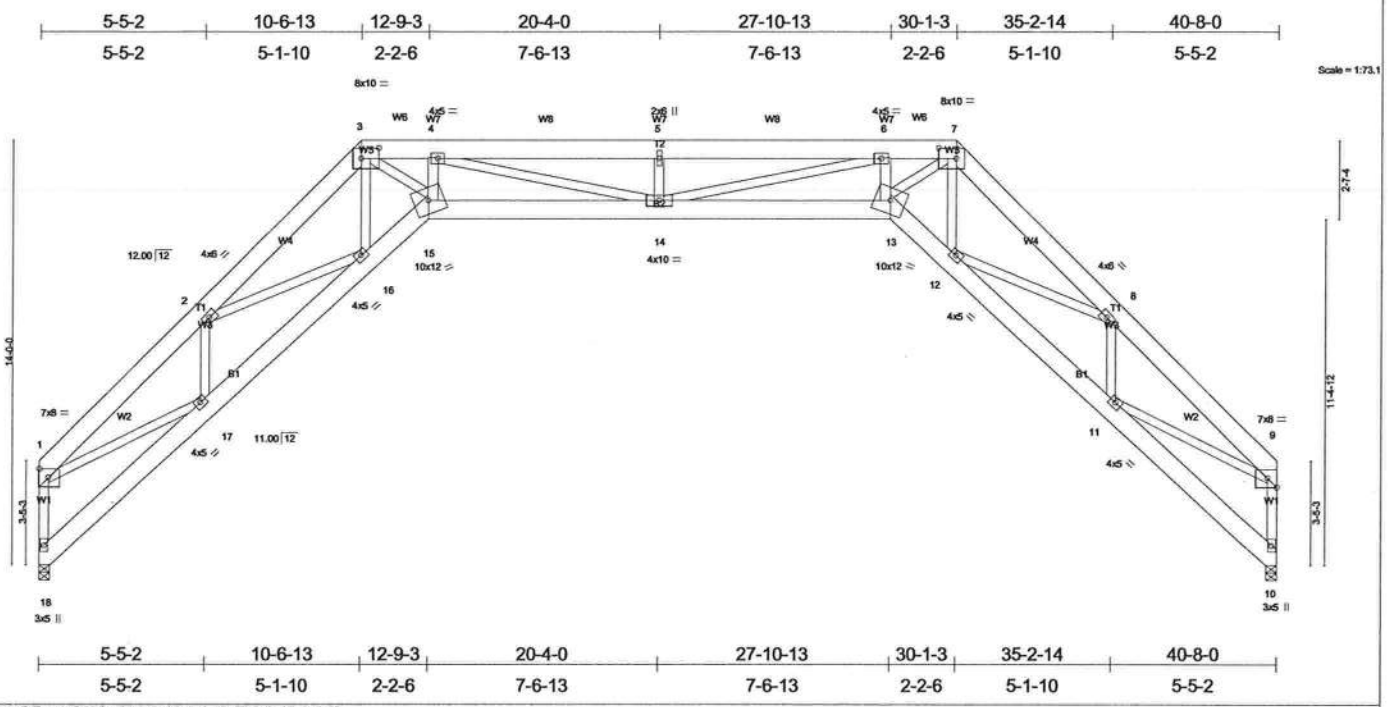


Plate Offsets (X,Y): [3:0-6-12,0-4-0], [7:0-6-12,0-4-0]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.51	14	>948	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.66	14	>737	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.82	Horz(TL)	1.05	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 404 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-6 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 5-10-6 oc bracing.

REACTIONS (lb/size) 18=863/0-4-0, 10=863/0-4-0
Max Horz 18=-271(load case 4)
Max Uplift18=-565(load case 5), 10=-565(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1712/1940, 2-3=-2555/2101, 3-4=-3706/2814, 4-5=-4259/3220, 5-6=-4259/3220, 6-7=-3706/2681, 7-8=-2555/2101, 8-9=-1712/1940, 1-18=-822/964, 9-10=-822/964
BOT CHORD 17-18=-279/404, 16-17=-1431/1565, 15-16=-1668/2280, 14-15=-2627/3715, 13-14=-2194/3715, 12-13=-1211/2280, 11-12=-1207/1565, 10-11=-40/171
WEBS 2-17=-609/343, 2-16=-313/656, 3-16=-335/0, 3-15=-1789/2567, 4-15=-253/303, 4-14=-606/673, 5-14=-281/164, 6-14=-665/673, 6-13=-253/217, 7-13=-1673/2567, 7-12=-335/58, 8-12=-418/656, 8-11=-609/235, 1-17=-1319/1240, 9-11=-1319/1240

NOTES (9)
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 and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Special provisions shall be made by the building designer to allow for 0.80in of horizontal movement due to live load and 1.05in due to total load.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 18, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 18 and 565 lb uplift at joint 10.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T24G	GABLE	1	1	L288061098
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:53 2008 Page 1

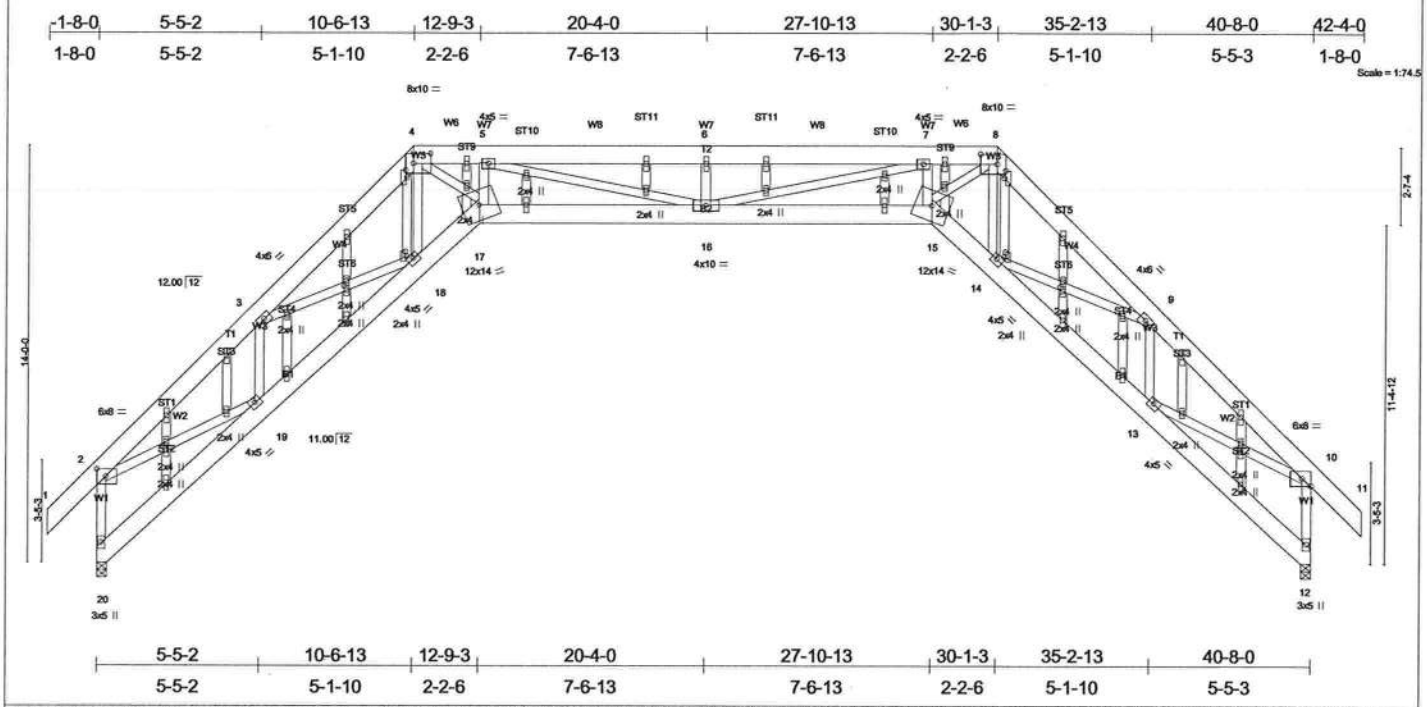


Plate Offsets (X,Y): [2:0-3-8,0-3-0], [4:0-6-12,0-4-0], [8:0-6-12,0-4-0], [10:0-3-8,0-3-0], [14:0-2-0,0-0-8], [18:0-2-0,0-0-8], [27:0-3-0,0-0-8], [28:0-1-12,0-1-0], [35:0-1-12,0-1-0], [43:0-0-0,0-0-0], [44:0-3-0,0-0-8], [47:0-1-12,0-1-0], [54:0-1-12,0-1-0]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.62	16-17	>776	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.65	16	>742	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	1.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 466 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-9 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 5-1-2 oc bracing.

REACTIONS (lb/size) 20=926/0-4-0, 12=926/0-4-0
Max Horz 20=345(load case 5)
Max Uplift20=-704(load case 6), 12=-704(load case 7)

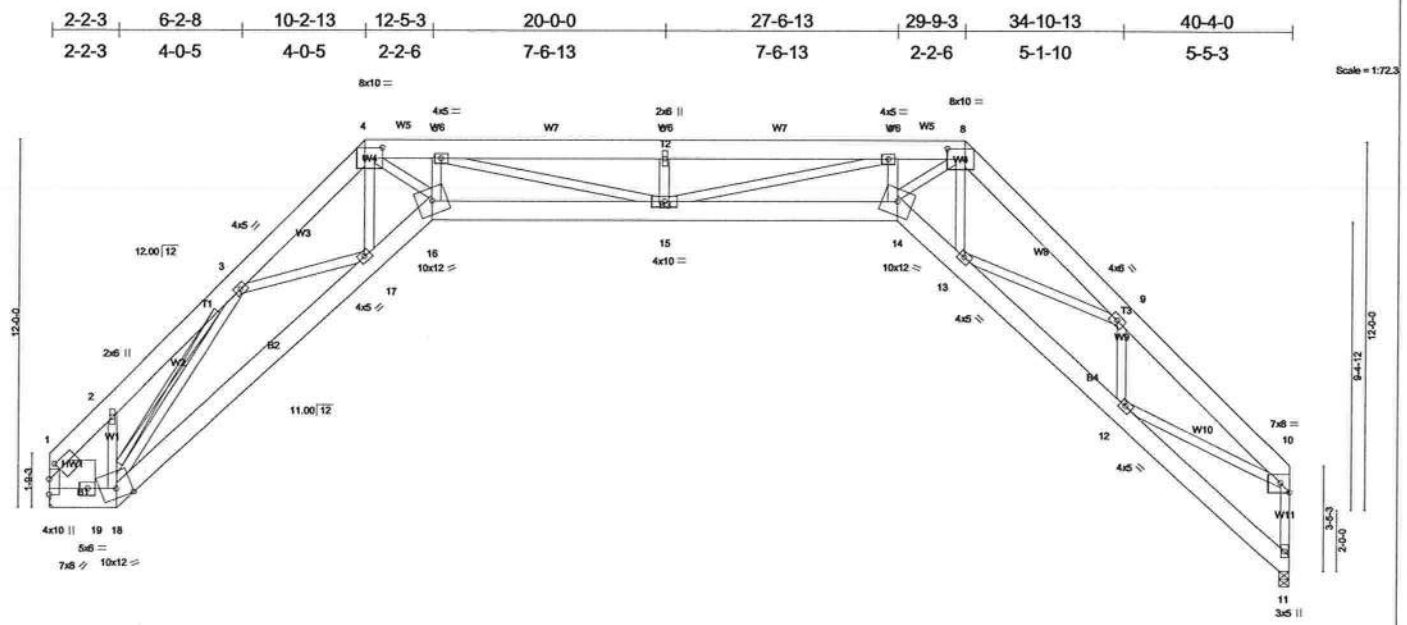
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-1689/1828, 3-4=-2531/2537, 4-5=-3676/3639, 5-6=-4229/3931, 6-7=-4229/3931, 7-8=-3676/3075, 8-9=-2531/1994, 9-10=-1689/1828, 10-11=0/44, 2-20=-878/1019, 10-12=-878/1019
BOT CHORD 19-20=-362/503, 18-19=-1788/1536, 17-18=-2181/2260, 16-17=-3462/3685, 15-16=-2920/3685, 14-15=-1608/2260, 13-14=-1013/1536, 12-13=-42/193
WEBS 3-19=-600/456, 3-18=-457/662, 4-18=-357/14, 4-17=-2363/2547, 5-17=-253/421, 5-16=-786/669, 6-16=-281/225, 7-16=-862/669, 7-15=-253/312, 8-15=-2217/2547, 8-14=-357/126, 9-14=-587/662, 9-13=-600/298, 2-19=-1235/1227, 10-13=-1161/1227

NOTES (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Special provisions shall be made by the building designer to allow for 0.98in of horizontal movement due to live load and 1.04in due to total load.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All plates are 2x6 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) Bearing at joint(s) 20, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 704 lb uplift at joint 20 and 704 lb uplift at joint 12.
11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	NICKELSON RES.
L288061	T25	SPECIAL	5	1	L288061099 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 29 08:39:55 2008 Page 1



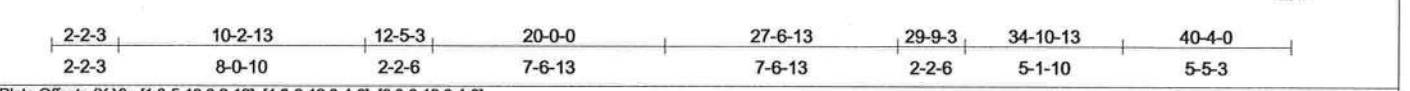


Plate Offsets (X,Y): [1:0-5-13,0-2-12], [4:0-6-12,0-4-0], [8:0-6-12,0-4-0]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.50	15	>970	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.65	15	>742	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.96	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 403 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 12 SYP No.2 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-8 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-18
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=856/Mechanical, 11=861/0-4-0
Max Horz 1=-280(load case 4)
Max Uplift1=-575(load case 5), 11=-577(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1069/1561, 2-3=-1039/1466, 3-4=-2479/2159, 4-5=-3672/2658, 5-6=-4232/3207, 6-7=-4232/3207, 7-8=-3689/2673, 8-9=-2544/2096, 9-10=-1706/1937, 10-11=-819/962
BOT CHORD 1-19=-715/651, 18-19=-728/649, 17-18=-1325/1684, 16-17=-1539/2268, 15-16=-2449/3679, 14-15=-2107/3698, 13-14=-1163/2270, 12-13=-1204/1559, 11-12=-40/171
WEBS 2-18=-181/43, 3-18=-1198/798, 3-17=-314/509, 4-17=-451/0, 4-16=-1674/2559, 5-16=-230/279, 5-15=-571/681, 6-15=-282/162, 7-15=-617/664, 7-14=-251/208, 8-14=-1608/2554, 8-13=-336/50, 9-13=-400/653, 9-12=-606/234, 10-12=-1317/1236

NOTES (9-10)
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 and C-C Exterior(2) zone; end vertical right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 575 lb uplift at joint 1 and 577 lb uplift at joint 11.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
10) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

STEPDOWN CORNER SET

TOP CHORD 2X4 SO. PINE #2 or Better
BOT CHORD 2X4 SO. PINE #2 or Better
WEBS 2X4 SO. PINE #3 or Better

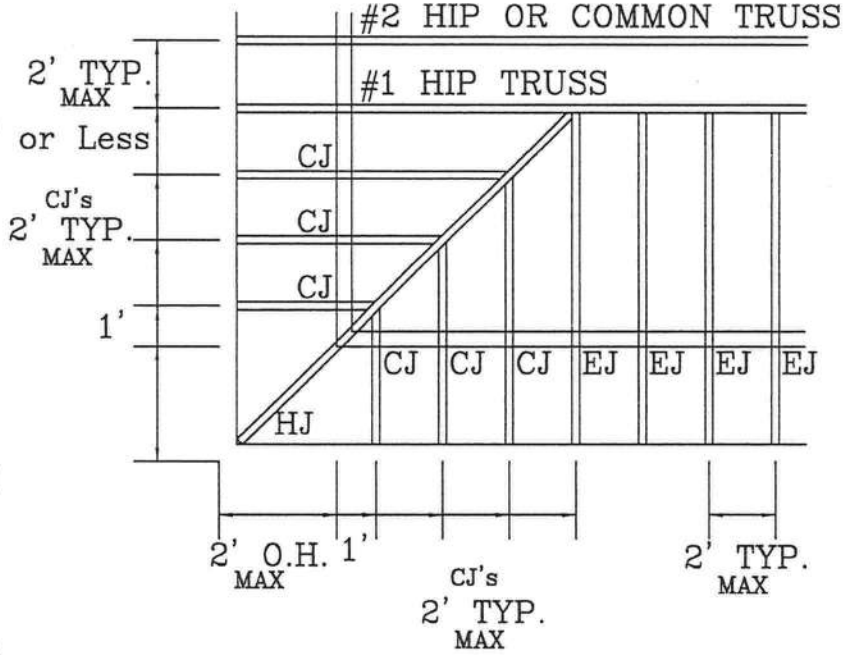
120 MPH MAX

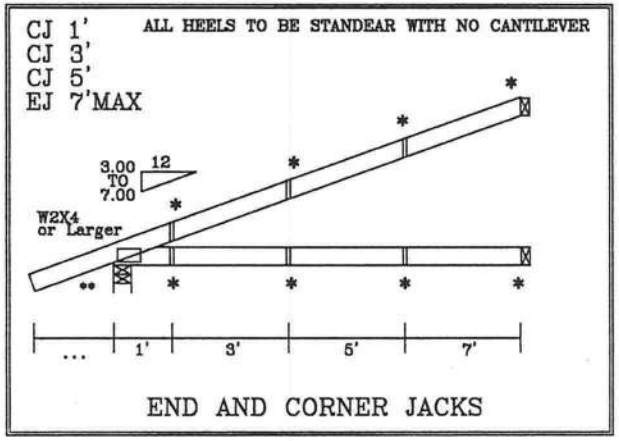
Setback 7' or Less

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

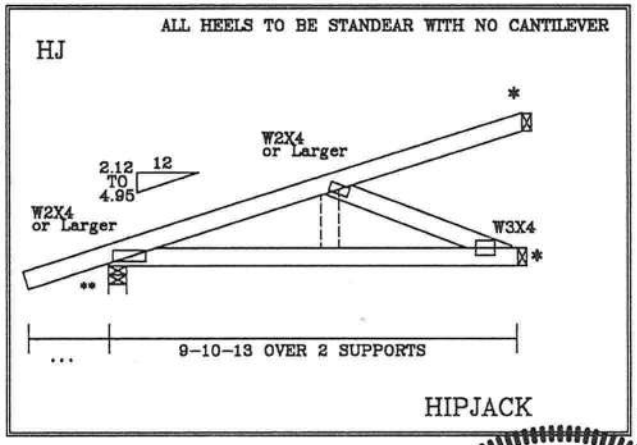
PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "B" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)





END AND CORNER JACKS



HIPJACK

* (3) 16d TOENAILS

** SEE EOR FOR TIE DOWN

UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

CORNER SET SETBACK
7'0" MAX

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W,K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

JULIUS LEE CONS. ENGINEERS, P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2101

PROFESSIONAL ENGINEER
No. 54869
STATE OF FLORIDA

SHINGLE		
TC LL	20	MAX PSF
TC DL	7	MAX PSF
BC LL	10*	MAX PSF
BC DL	5	MAX PSF
TILE		
TC LL	20	MAX PSF
TC DL	20	MAX PSF
BC LL	10*	MAX PSF
BC DL	5	MAX PSF
DUR. FAC.	1.25	
SPACING	2'	MAX

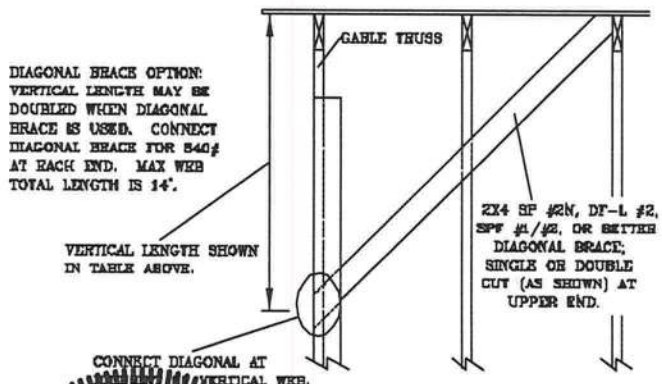
REF	7'MAX STBK CS
DATE	Jun./27/2008
DRWG	
-ENG	

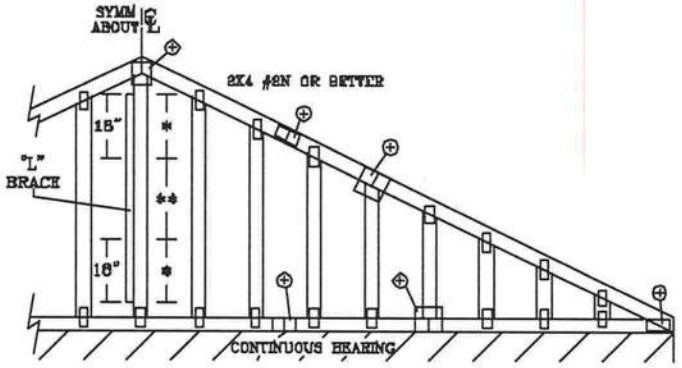
REVIEWED
By julius lee at 10:52 am, Jun 27, 2008

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 4"	6' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"
		STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"
	SP DFL	#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#3	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"
		STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"
16" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 6"	9' 8"	12' 6"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 10"	6' 10"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 6"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 2"	9' 6"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	10' 6"	10' 8"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STANDARD	4' 2"	6' 11"	6' 11"	7' 10"	7' 10"	10' 6"	10' 6"	12' 3"	12' 3"	14' 0"	14' 0"
	SP DFL	#1	4' 8"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	10' 6"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 2"	7' 2"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 1"	7' 1"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 8"	12' 6"	12' 6"	14' 0"	14' 0"





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 90% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR, SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 12:00 pm, Jun 11, 2008

JULIUS LEE'S CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

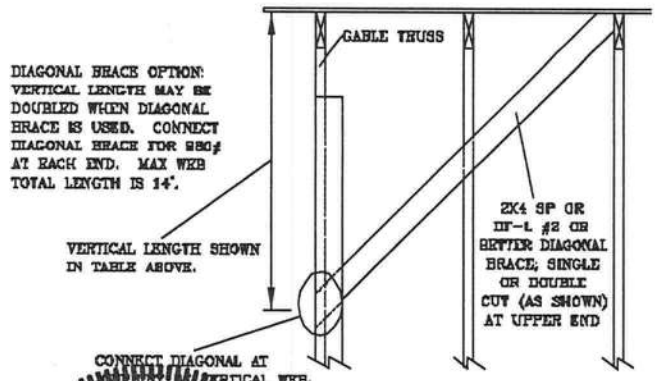
MAX. SPACING 24.0"

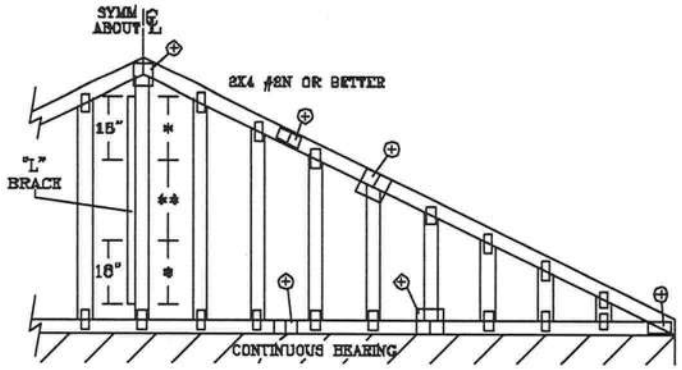
REF	ASCE7-02-GAB13015
DATE	11/26/03
DRWG	MITEK STD GABLE 15 E HT
	-ENG

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	6' 8"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 9"	3' 9"	6' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	10' 7"	10' 7"
	SP DFL	#1	3' 8"	5' 8"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#2	3' 5"	5' 6"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#3	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 6"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 6"
		STANDARD	3' 0"	3' 10"	3' 10"	5' 1"	5' 1"	6' 11"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"
16" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	6' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 6"	4' 6"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 6"	11' 5"	11' 6"	14' 0"	14' 0"
		STUD	3' 8"	5' 6"	5' 8"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	13' 3"
12" O.C.	SPF HF	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	13' 4"	14' 0"	14' 0"
		#3	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 10"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 5"	6' 11"	7' 6"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#2	4' 4"	6' 11"	7' 6"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#3	4' 2"	6' 5"	6' 5"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 3"	14' 0"	14' 0"
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 5"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"	14' 0"
		STANDARD	4' 0"	5' 6"	5' 6"	7' 3"	7' 3"	9' 9"	9' 9"	11' 4"	11' 4"	14' 0"	14' 0"





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 12:00 pm, Jun 11, 2008

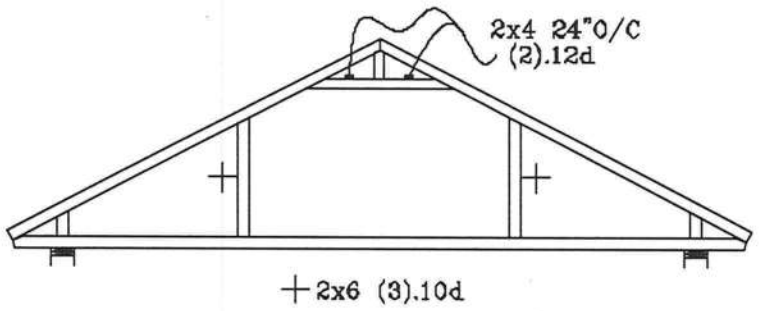
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

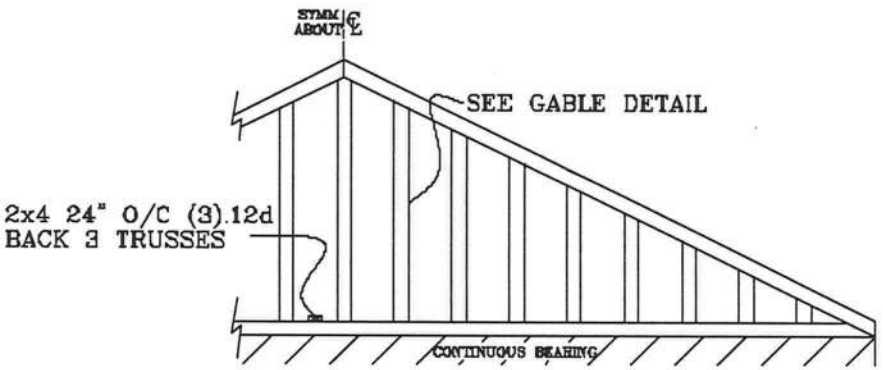
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MiTek STD GABLE 90' E M7
-ENG

TYPICAL ATTIC TRUSS BRACING

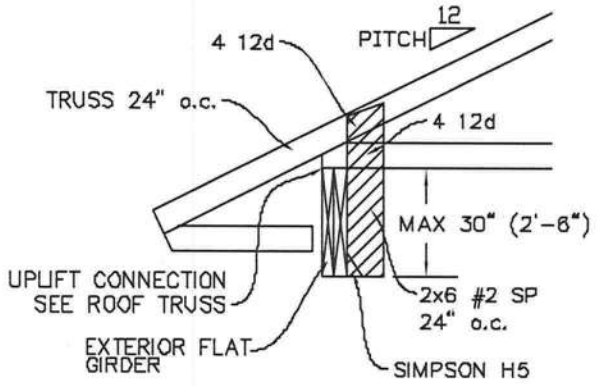


GABLE END TRUSS DETAIL



MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

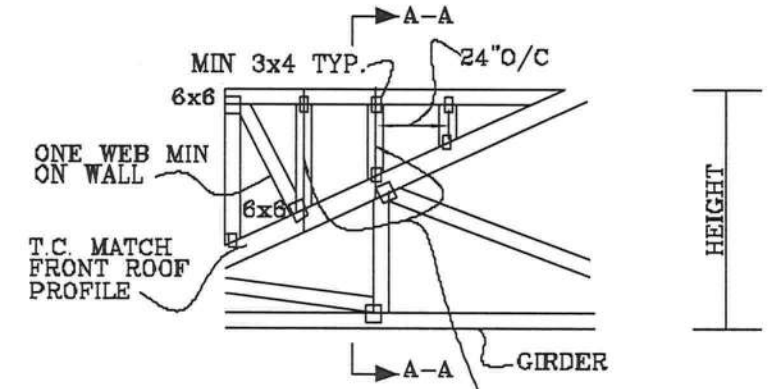
TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

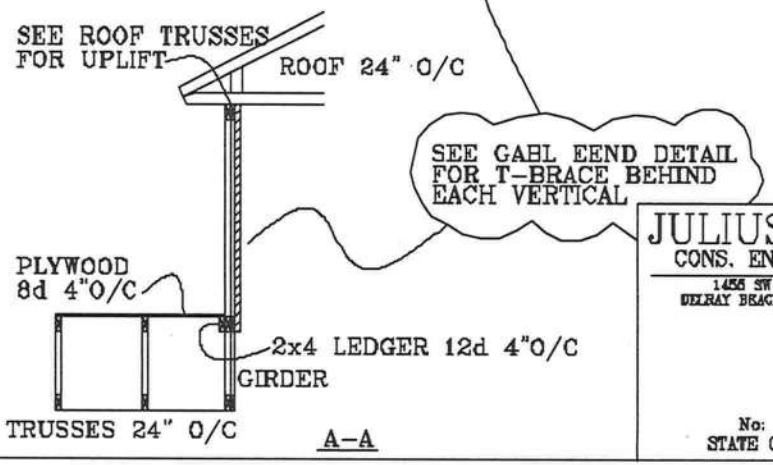


REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE
LICENSE
NO. 34869
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

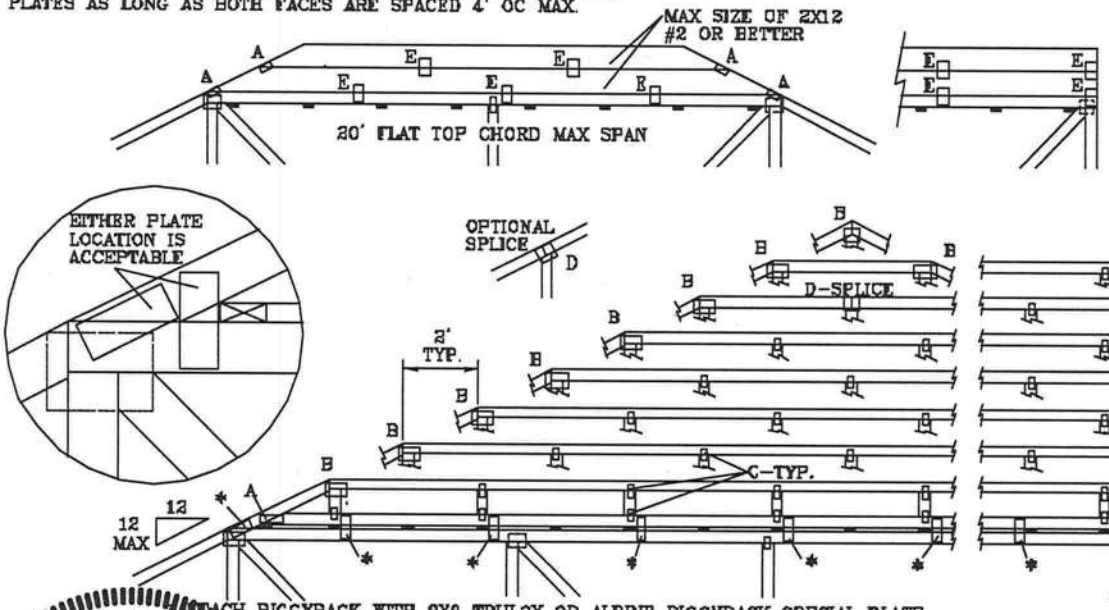
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

- 110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

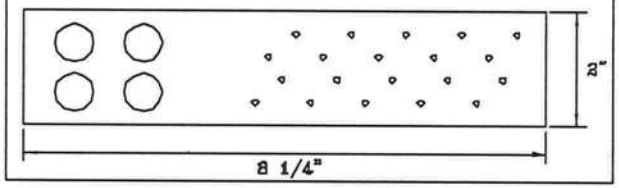


ATTACH PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF PIGGYBACK
DATE 09/12/07
DRWG MITEK STD PIGGY
-ENG JL

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

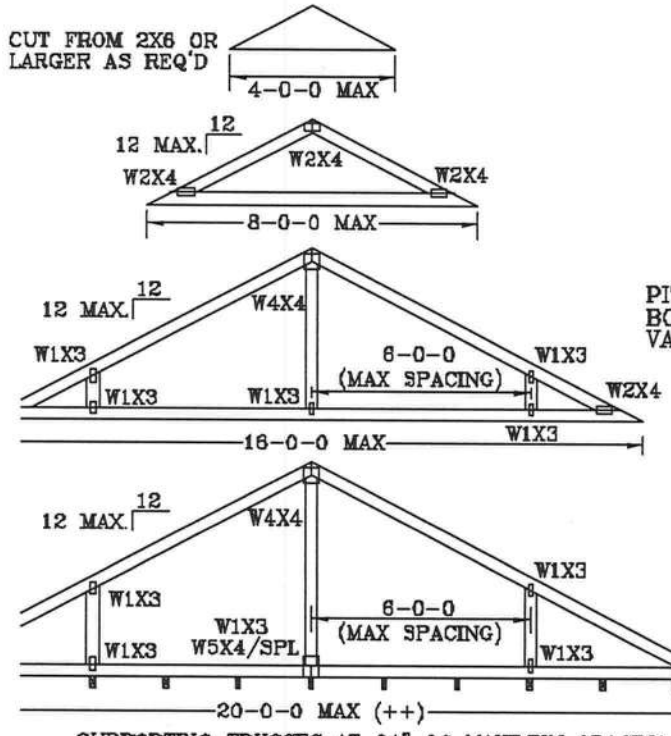
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

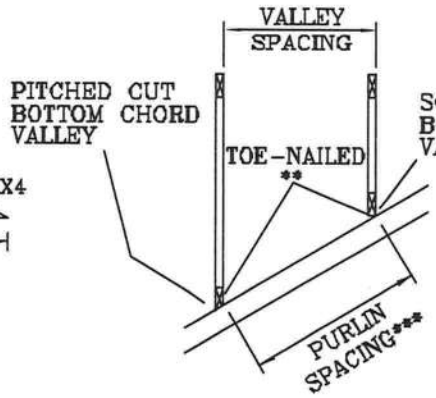
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

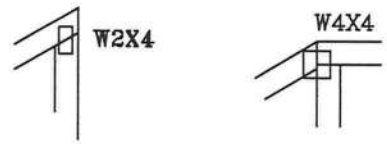
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

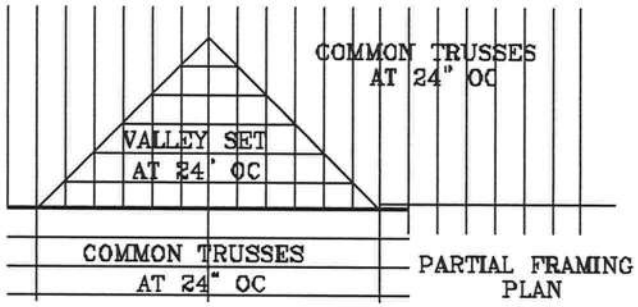
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2101

No: 34869
STATE OF FLORIDA

TC LL	20	20	PSF	REF VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/03
BC DL	5	5	PSF	DRWG VALTRUSS1103
BC LL	0	0	PSF	-ENG JL
TOT. LD.	32	40	PSF	
DUR.FAC. 1.25		1.25		
SPACING		24"		

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

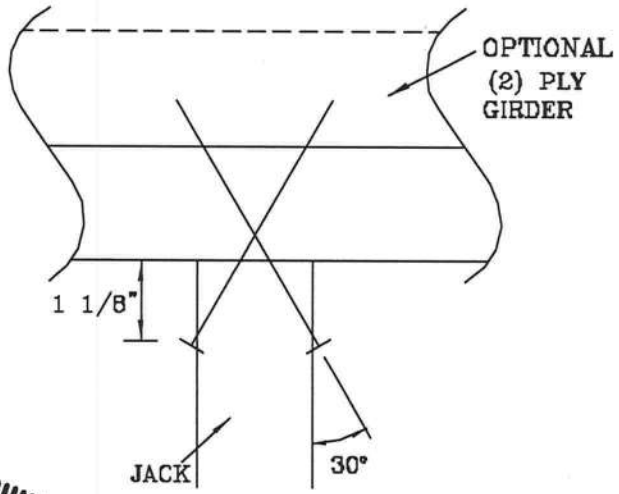
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

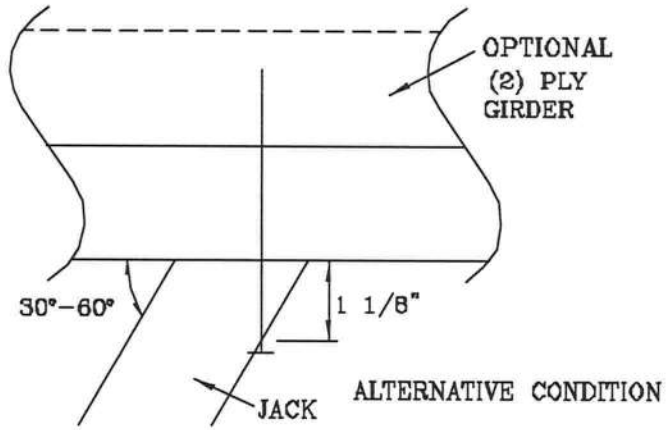
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

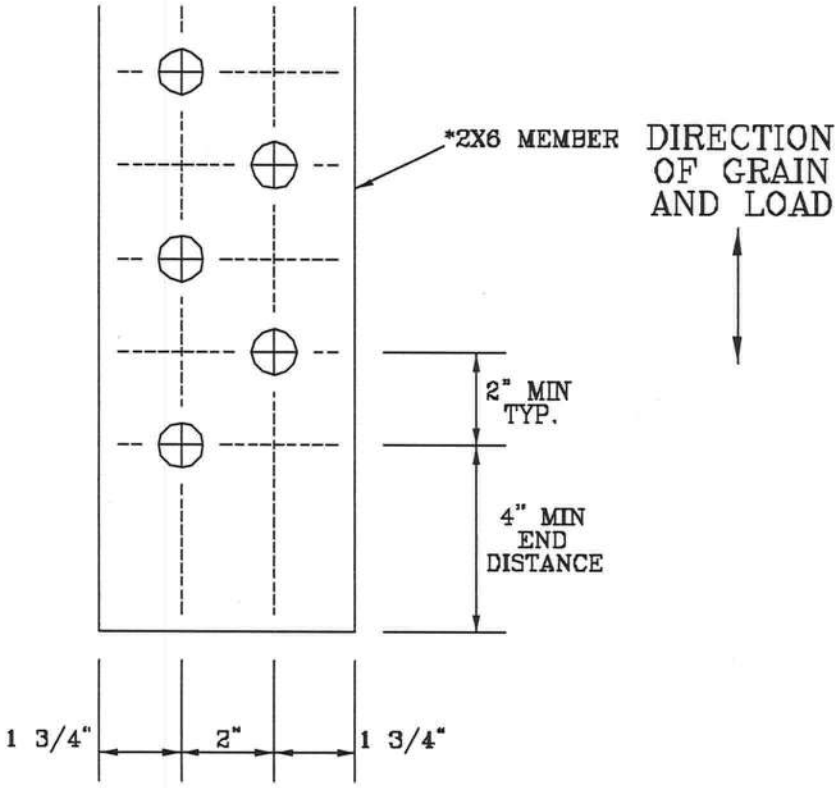
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

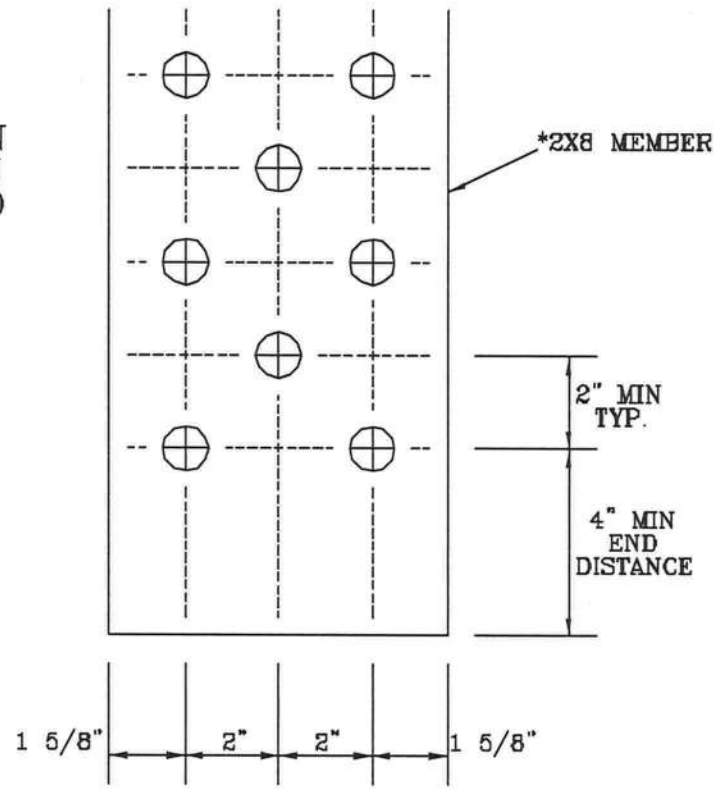
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF BOLT SPACING
TC DL	PSF	DATE 11/26/03
BC DL	PSF	DRWG CNBOLTSP1103
BC LL	PSF	-ENG JL
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

TRULOX CONNECTION DETAIL

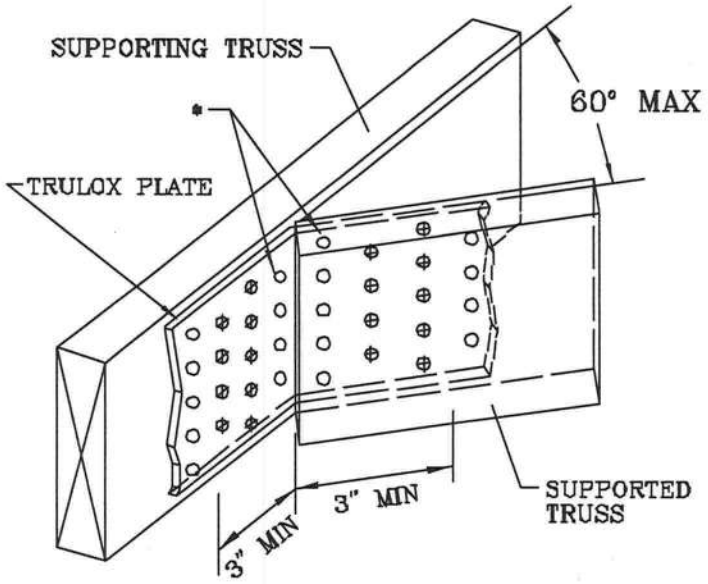
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

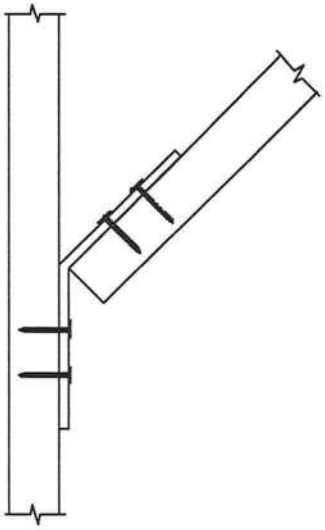
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

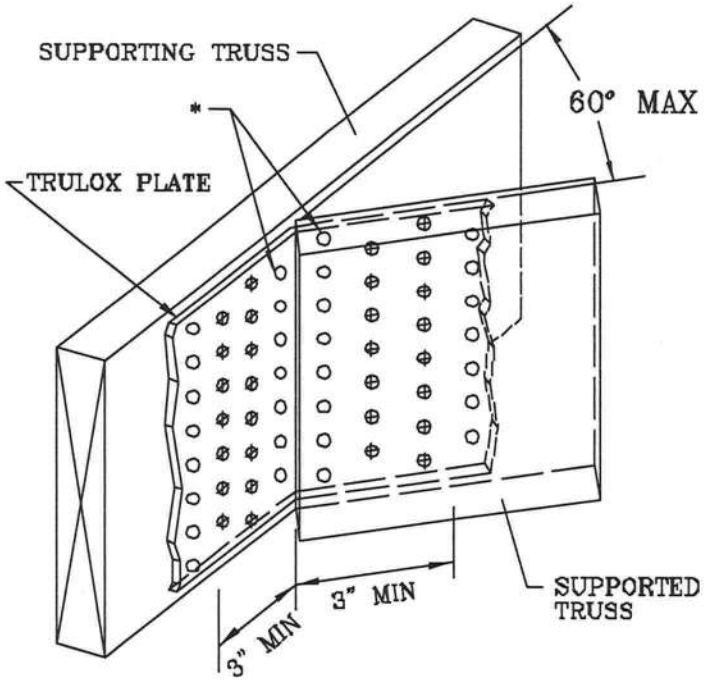
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	15	990#

REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524

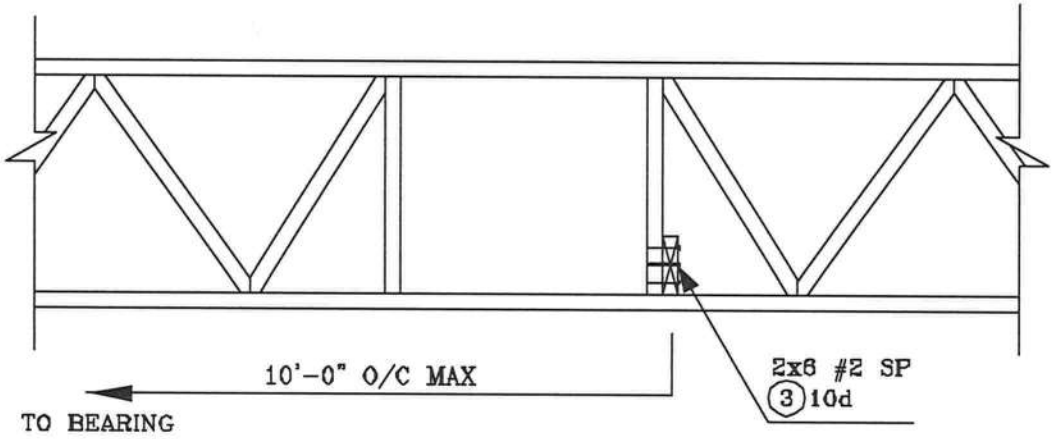
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

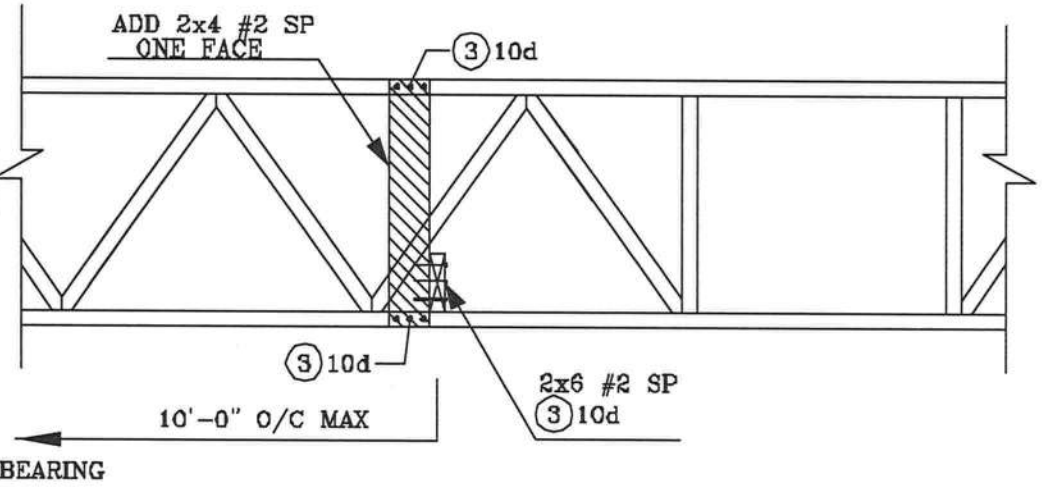
No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

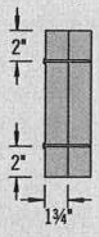
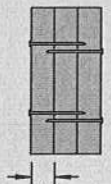
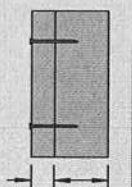
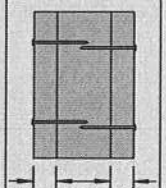
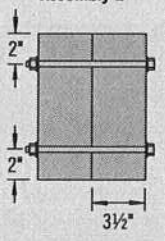
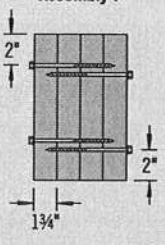
JULIUS LEE
LICENSE
NO. 34869
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A 	Assembly B 	Assembly C 	Assembly D 	Assembly E 	Assembly F 
			3½" 2-ply	5¼" 3-ply	5¼" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail[1]	2	12"	370	***280***	280	***245***		
	3	12"	555	***415***	415	***370***		
½" A307 Through Bolts[2][4]	2	24"	505	380	520	465	860	340
		19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
SDS ¼" x 3½"[4]	2	24"	680	***510***	510	***455***		
		19.2"	850	***640***	640	***565***		
		16"	1,020	***765***	765	***680***		
SDS ¼" x 6"[3][4]	2	24"				***455***	***465***	***455***
		19.2"				***565***	***580***	***565***
		16"				***680***	***695***	***680***
USP WS35 [4]	2	24"	480	***360***	360	***320***		
		19.2"	600	***450***	450	***400***		
		16"	715	***540***	540	***480***		
USP WS6 [3][4]	2	24"				***350***	***525***	***350***
		19.2"				***440***	***660***	***440***
		16"				***525***	***790***	***525***
3⅛" TrussLok[4]	2	24"	635	***475***	475	***425***		
		19.2"	795	***595***	595	***530***		
		16"	955	***715***	715	***635***		
5" TrussLok[4]	2	24"		***500***	500	***445***	***480***	***445***
		19.2"		***625***	625	***555***	***600***	***555***
		16"		***750***	750	***665***	***725***	***665***
6¾" TrussLok[4]	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665

(1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

(2) Washers required. Bolt holes to be 9⁄16" maximum.

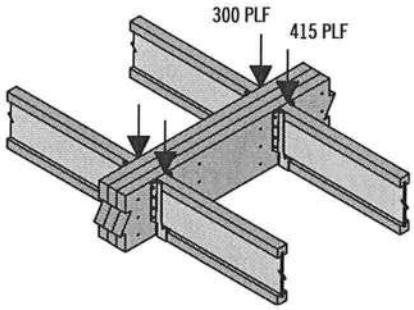
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(4) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- ***Bold Italic*** cells indicate **Connector Pattern** must be installed on both sides. Stagger fasteners on opposite side of beam by ½ the required **Connector Spacing**.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example

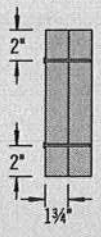
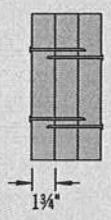
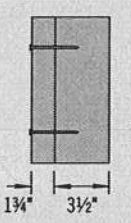
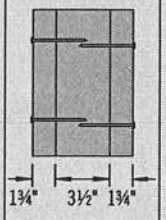
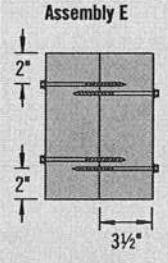
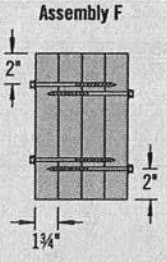


First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1¾" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:
Two rows of ½" bolts or SDS ¼" x 3½" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	Connector Pattern: Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3½" 2-ply	5¼" 3-ply	5¼" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail	6	1,110	***835***	835	***740***		
	12	2,225	***1,670***	1,670	***1,485***		
	18	3,335	***2,505***	2,505	***2,225***		
	24	4,450	***3,335***	3,335	***2,965***		
SDS Screws ¼" x 3½" or WS35 ¼" x 6" or WS6(1)	4	1,915	1,435(4)	1,435	***1,275***	***1,860(2)***	***1,405(2)***
	6	2,870	2,150 (4)	2,150	***1,915***	***2,785(2)***	***2,110(2)***
	8	3,825	2,870 (4)	2,870	***2,550***	***3,715(2)***	***2,810(2)***
3⅜" or 5" TrussLok™	4	2,545	1,910 (4)	1,910	***1,695***	***1,925(3)***	***1,775(3)***
	6	3,815	2,860 (4)	2,860	***2,545***	***2,890(3)***	***2,665(3)***
	8	5,090	3,815 (4)	3,815	***3,390***	***3,855(3)***	***3,550(3)***

(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

See General Notes on page 38

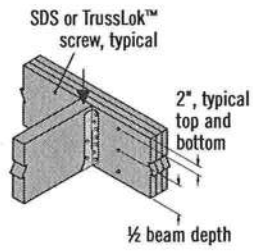
(2) 6" long screws required.

(3) 5" long screws required.

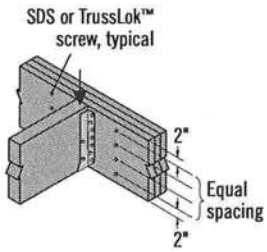
(4) 3½" and 3⅜" long screws must be installed on both sides.

Connections

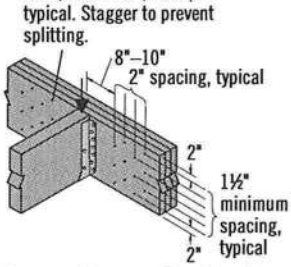
4 or 6 or Screw Connection



8 Screw Connection

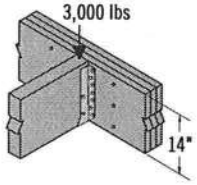


Nail Connection



There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1¾" x 14" beam is capable of supporting the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply 1¾" assembly, eight 3⅜" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

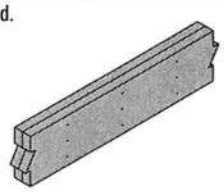
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1¾" Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d–16d (0.148"–0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3⅜" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3½" Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of ½" bolts at 24" on-center staggered.



L6 ***Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"***

Residential System Sizing Calculation

Summary

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

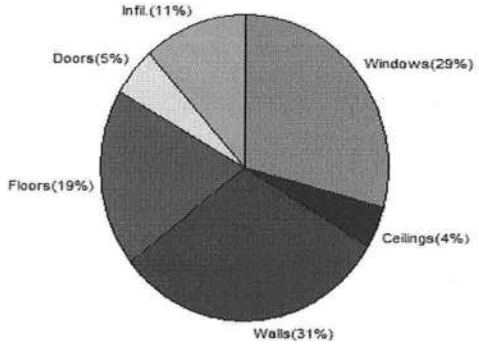
12/4/2008

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	**81822**	**Btuh**	**Total cooling load calculation**	**73469**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (LP Gas Heat Pump)	44.0	36000	Sensible (SHR = 0.75)	39.8	27000
Heat Pump + Auxiliary(0.0kW)	44.0	36000	Latent	161.5	9000
			Total (LP Gas Heat Pump)	49.0	36000

WINTER CALCULATIONS

Winter Heating Load (for 3600 sqft)

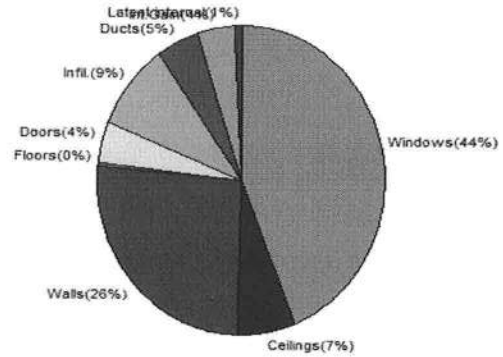
Load component			Load	
Window total	512	sqft	24039	Btuh
Wall total	3514	sqft	25212	Btuh
Door total	208	sqft	4156	Btuh
Ceiling total	2958	sqft	3486	Btuh
Floor total	See detail report		15694	Btuh
Infiltration	228	cfm	9235	Btuh
Duct loss			0	Btuh
Subtotal			**81822**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**81822**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3600 sqft)

Load component			Load	
Window total	512	sqft	32157	Btuh
Wall total	3514	sqft	19166	Btuh
Door total	208	sqft	3145	Btuh
Ceiling total	2958	sqft	4899	Btuh
Floor total			290	Btuh
Infiltration	120	cfm	2233	Btuh
Internal gain			3090	Btuh
Duct gain			2918	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**67898**	**Btuh**
Latent gain(ducts)			586	Btuh
Latent gain(infiltration)			4385	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			600	Btuh
Total latent gain			**5571**	**Btuh**
TOTAL HEAT GAIN			**73469**	**Btuh**



Powered by ACCA MANUAL J

Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Dora L. Terry
DATE: 12/4/08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

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

12/4/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	E	12.0	47.0	564 Btuh
2	1, Clear, Metal, 1.27	E	13.3	47.0	626 Btuh
3	1, Clear, Metal, 1.27	E	17.5	47.0	822 Btuh
4	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
5	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
6	1, Clear, Metal, 1.27	E	16.5	47.0	775 Btuh
7	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
8	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
9	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
10	1, Clear, Metal, 1.27	E	16.5	47.0	775 Btuh
11	1, Clear, Metal, 1.27	E	34.0	47.0	1598 Btuh
12	1, Clear, Metal, 1.27	W	9.0	47.0	423 Btuh
13	1, Clear, Metal, 1.27	W	68.8	47.0	3231 Btuh
14	1, Clear, Metal, 1.27	W	48.0	47.0	2256 Btuh
15	1, Clear, Metal, 1.27	W	66.0	47.0	3101 Btuh
16	1, Clear, Metal, 1.27	N	12.0	47.0	564 Btuh
17	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
18	1, Clear, Metal, 1.27	S	32.0	47.0	1504 Btuh
19	1, Clear, Metal, 1.27	S	44.0	47.0	2068 Btuh
	Window Total		512(sqft)		24039 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	1117	3.5	3919 Btuh
2	Frame - Wood - Ext(0.24)	0.0	2398	8.9	21293 Btuh
	Wall Total		3514		25212 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		48	20.0	959 Btuh
2	Wood - Exterior		64	20.0	1279 Btuh
3	Wood - Exterior		24	20.0	480 Btuh
4	Wood - Exterior		48	20.0	959 Btuh
5	Wood - Exterior		24	20.0	480 Btuh
	Door Total		208		4156Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2958	1.2	3486 Btuh
	Ceiling Total		2958		3486Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Adj	3.5	150.0 sqft	6.0	893 Btuh
2	Slab On Grade	0	339.0 ft(p)	43.7	14801 Btuh
	Floor Total		489		15694 Btuh
			Envelope Subtotal:		72587 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.38	36000	3514 228.0	9235 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

12/4/2008

Ductload	(DLM of 0.000)	0 Btuh
All Zones	**Sensible Subtotal All Zones**	**81822 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	81822 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	81822 Btuh

EQUIPMENT

1. LP Gas Heat Pump	#	36000 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)

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

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

12/4/2008

Component Loads for Zone #1: 2nd Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
7	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
8	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
9	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
10	1, Clear, Metal, 1.27	E	16.5	47.0	775 Btuh
11	1, Clear, Metal, 1.27	E	34.0	47.0	1598 Btuh
	Window Total		112(sqft)		5239 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	1117	3.5	3919 Btuh
	Wall Total		1117		3919 Btuh
Doors	Type		Area X	HTM=	Load
4	Wood - Exterior		48	20.0	959 Btuh
	Door Total		48		959Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Adj	3.5	150.0 sqft	6.0	893 Btuh
	Floor Total		150		893 Btuh
			Zone Envelope Subtotal:		11010 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.38	6420	1117 72.4	2934 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.000)				0 Btuh
Zone #1			**Sensible Zone Subtotal**		**13944 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

12/4/2008

Component Loads for Zone #2: 1st Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	E	12.0	47.0	564 Btuh
2	1, Clear, Metal, 1.27	E	13.3	47.0	626 Btuh
3	1, Clear, Metal, 1.27	E	17.5	47.0	822 Btuh
4	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
5	1, Clear, Metal, 1.27	E	16.0	47.0	752 Btuh
6	1, Clear, Metal, 1.27	E	16.5	47.0	775 Btuh
12	1, Clear, Metal, 1.27	W	9.0	47.0	423 Btuh
13	1, Clear, Metal, 1.27	W	68.8	47.0	3231 Btuh
14	1, Clear, Metal, 1.27	W	48.0	47.0	2256 Btuh
15	1, Clear, Metal, 1.27	W	66.0	47.0	3101 Btuh
16	1, Clear, Metal, 1.27	N	12.0	47.0	564 Btuh
17	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
18	1, Clear, Metal, 1.27	S	32.0	47.0	1504 Btuh
19	1, Clear, Metal, 1.27	S	44.0	47.0	2068 Btuh
	Window Total		400(sqft)		18800 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
2	Frame - Wood - Ext(0.24)	0.0	2398	8.9	21293 Btuh
	Wall Total		2398		21293 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		48	20.0	959 Btuh
2	Wood - Exterior		64	20.0	1279 Btuh
3	Wood - Exterior		24	20.0	480 Btuh
5	Wood - Exterior		24	20.0	480 Btuh
	Door Total		160		3197Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2958	1.2	3486 Btuh
	Ceiling Total		2958		3486Btuh
Floors	Type	R-Value	Size X	HTM=	Load
2	Slab On Grade	0	339.0 ft(p)	43.7	14801 Btuh
	Floor Total		339		14801 Btuh
			Zone Envelope Subtotal:		61576 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=
	Natural	0.38	29580	2398	155.6	6301 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.000)				0 Btuh
Zone #2	**Sensible Zone Subtotal**				**67878 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

12/4/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	81822 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	81822 Btuh

EQUIPMENT

1. LP Gas Heat Pump	#	36000 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)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 12/4/2008

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	12.0	0.0	12.0	29	70	845 Btuh
2	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	13.3	0.0	13.3	29	70	938 Btuh
3	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	17.5	0.0	17.5	29	70	1232 Btuh
4	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	30.0	0.0	30.0	29	70	2112 Btuh
5	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.0	0.0	16.0	29	70	1126 Btuh
6	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.5	0.0	16.5	29	70	1162 Btuh
7	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	15.0	0.0	15.0	29	70	1056 Btuh
8	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	30.0	0.0	30.0	29	70	2112 Btuh
9	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.0	0.0	16.0	29	70	1126 Btuh
10	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.5	0.0	16.5	29	70	1162 Btuh
11	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	34.0	0.0	34.0	29	70	2394 Btuh
12	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	9.0	0.0	9.0	29	70	634 Btuh
13	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	68.8	0.0	68.8	29	70	4840 Btuh
14	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	48.0	0.0	48.0	29	70	3379 Btuh
15	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	66.0	0.0	66.0	29	70	4647 Btuh
16	1, Clear, 1.27, B-M, N,N	N	0ft.	0ft.	12.0	0.0	12.0	29	29	351 Btuh
17	1, Clear, 1.27, B-M, N,N	N	0ft.	0ft.	15.0	0.0	15.0	29	29	439 Btuh
18	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	32.0	0.0	32.0	29	34	1096 Btuh
19	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	44.0	0.0	44.0	29	34	1507 Btuh
	Window Total				512 (sqft)					32157 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	11.0/0.09	1116.5	2.5	2765 Btuh
2	Frame - Wood - Ext	0.0/0.24	2397.9	6.8	16402 Btuh
	Wall Total		3514 (sqft)		19166 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Wood - Exterior	48.0	15.1	726 Btuh
2	Wood - Exterior	64.0	15.1	968 Btuh
3	Wood - Exterior	24.0	15.1	363 Btuh
4	Wood - Exterior	48.0	15.1	726 Btuh
5	Wood - Exterior	24.0	15.1	363 Btuh
	Door Total	208 (sqft)		3145 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2958.0	1.7	4899 Btuh
	Ceiling Total		2958 (sqft)		4899 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Adj	3.5	150 (sqft)	1.9	290 Btuh
2	Slab On Grade	0.0	339 (ft(p))	0.0	0 Btuh
	Floor Total		489.0 (sqft)		290 Btuh

			Envelope Subtotal:		59656 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.20	36000	3514	228.0	2233 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	3	X 230	+	2400	3090 Btuh

	Sensible Envelope Load:		64980 Btuh
Duct load		(DGM of 0.045)	2918 Btuh
		Sensible Load All Zones	**67898 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

12/4/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**64980 Btuh**
	Sensible Duct Load	2918 Btuh
	Total Sensible Zone Loads	**67898 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**67898 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4385 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	586 Btuh
	Latent occupant gain (3 people @ 200 Btuh per person)	600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5571 Btuh**
	TOTAL GAIN	**73469 Btuh**

EQUIPMENT

1. Central Unit	#	36000 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)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 12/4/2008

Component Loads for Zone #1: 2nd Floor

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
7	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	15.0	0.0	15.0	29	70	1056 Btuh
8	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	30.0	0.0	30.0	29	70	2112 Btuh
9	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.0	0.0	16.0	29	70	1126 Btuh
10	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.5	0.0	16.5	29	70	1162 Btuh
11	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	34.0	0.0	34.0	29	70	2394 Btuh
	Window Total				112 (sqft)					7850 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	11.0/0.09	1116.5	2.5	2765 Btuh
	Wall Total		1117 (sqft)		2765 Btuh
Doors	Type		Area (sqft)	HTM	Load
4	Wood - Exterior		48.0	15.1	726 Btuh
	Door Total		48 (sqft)		726 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Adj	3.5	150 (sqft)	1.9	290 Btuh
	Floor Total		150.0 (sqft)		290 Btuh
				Zone Envelope Subtotal:	11630 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)		CFM=	Load
	SensibleNatural	0.20	6420	1117		38.1	710 Btuh
Internal gain		Occupants	Btuh/occupant			Appliance	Load
		3	X 230	+		2400	3090 Btuh
					Sensible Envelope Load:		15429 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.045)		693 Btuh
					Sensible Zone Load		**16122 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

12/4/2008

Component Loads for Zone #2: 1st Floor

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	12.0	0.0	12.0	29	70	845 Btuh
2	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	13.3	0.0	13.3	29	70	938 Btuh
3	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	17.5	0.0	17.5	29	70	1232 Btuh
4	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	30.0	0.0	30.0	29	70	2112 Btuh
5	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.0	0.0	16.0	29	70	1126 Btuh
6	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	16.5	0.0	16.5	29	70	1162 Btuh
12	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	9.0	0.0	9.0	29	70	634 Btuh
13	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	68.8	0.0	68.8	29	70	4840 Btuh
14	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	48.0	0.0	48.0	29	70	3379 Btuh
15	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	66.0	0.0	66.0	29	70	4647 Btuh
16	1, Clear, 1.27, B-M, N,N	N	0ft.	0ft.	12.0	0.0	12.0	29	29	351 Btuh
17	1, Clear, 1.27, B-M, N,N	N	0ft.	0ft.	15.0	0.0	15.0	29	29	439 Btuh
18	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	32.0	0.0	32.0	29	34	1096 Btuh
19	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	44.0	0.0	44.0	29	34	1507 Btuh
	Window Total				400 (sqft)					24307 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
2	Frame - Wood - Ext	0.0/0.24	2397.9	6.8	16402 Btuh
	Wall Total		2398 (sqft)		16402 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Wood - Exterior	48.0	15.1	726 Btuh
2	Wood - Exterior	64.0	15.1	968 Btuh
3	Wood - Exterior	24.0	15.1	363 Btuh
5	Wood - Exterior	24.0	15.1	363 Btuh
	Door Total	160 (sqft)		2419 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2958.0	1.7	4899 Btuh
	Ceiling Total		2958 (sqft)		4899 Btuh

Floors	Type	R-Value	Size	HTM	Load
2	Slab On Grade	0.0	339 (ft(p))	0.0	0 Btuh
	Floor Total		339.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:		48027 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.20	29580	2398	81.9	1524 Btuh

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

	Sensible Envelope Load:	49551 Btuh

Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.045)	2225 Btuh

	Sensible Zone Load	**51776 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson SW Emory Wood Glen Lake City, Fl	Project Title: Dan and Gail Nickelson	Code Only Professional Version Climate: North 12/4/2008

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

Code Only
Professional Version
Climate: North

12/4/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**64980 Btuh**
	Sensible Duct Load	2918 Btuh
	Total Sensible Zone Loads	**67898 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**67898 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4385 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	586 Btuh
	Latent occupant gain (3 people @ 200 Btuh per person)	600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5571 Btuh**
	TOTAL GAIN	**73469 Btuh**

EQUIPMENT

1. Central Unit	#	36000 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)

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Dan and Gail Nickelson
SW Emory Wood Glen
Lake City, Fl

Project Title:
Dan and Gail Nickelson

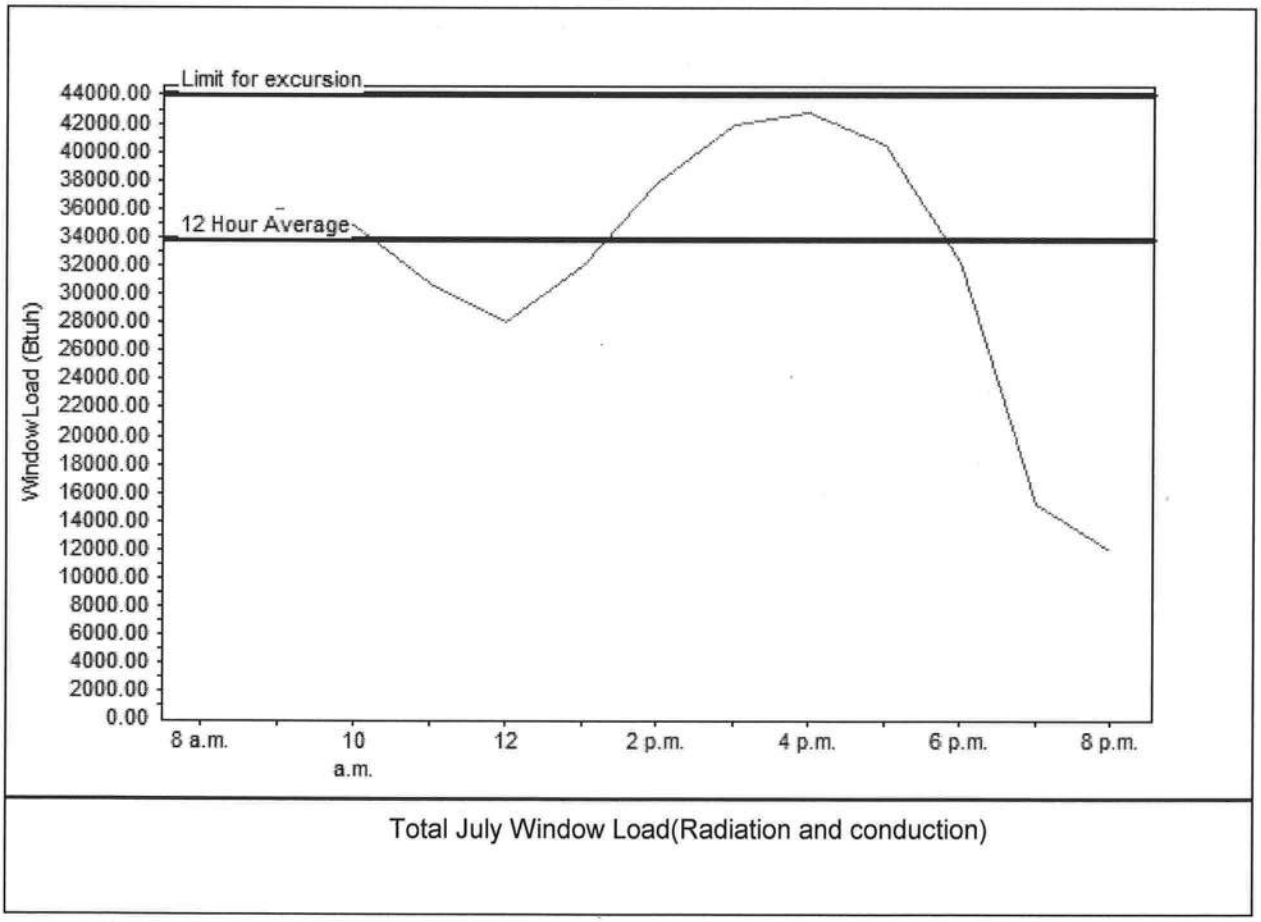
Code Only
Professional Version
Climate: North

12/4/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	33862 Btu
Summer setpoint	75 F	Peak window load for July	42797 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	44020 Btu
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

The midsummer window load for this house does not exceed the window load excursion limit.
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: Nora L. Terry
DATE: 12/4/08

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

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

11 DECEMBER 2008

JOE HALTIWANGER, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: DAN NICKELSON RESIDENCE
PERMIT Nr.: _____

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CLARIFICATIONS FOR THE ABOVE REFERENCED RESIDENTIAL PROJECT:

1. DORMERS SHALL BE CONSTRUCTED IN THE MANNER AS INDICATED ON THE ATTACHED DETAIL.

2. THE REAR BALCONY WAS PLANNED TO BE FRAMED WITH STEPPED FLOOR TRUSSES, HOWEVER THE TRUSS MANUFACTURER DID NOT INCLUDE THIS AREA IN THEIR FRAMING PLANS. tHE BALCONY FLOOR SHALL BE CONSTRUCTED WITH 2X10 LUMBER JOISTS @ 16" O.C., WITH A CURVED, BACK-SAWN, EDGE BAND AND A CONTINUOUS LEDGER AT THE BEARING HEADER OF THE FLOOR TRUSSES. THE HEADER SHALL BE ANCHORED TO THE SUPPORTING STRUCTURE W/ 1/2"ϕ LAG SCREWS & 1 1/2"ϕ WASHERS @ 24" O.C. THE JOISTS SHALL BE ATTACHED TO THE LEDGER WITH "SIMPSON" LUS28 HANGERS AND WITH "SIMPSON" H2.5a STRAPS AT THE CURVED EXTERIOR BEARING WALL, BELOW.

3. THE DECK AT THE REAR BALCONY SHALL BE 3/4" T&G OSB SHEATHING, WITH A TORCH APPLIED MODIFIED BITUMEN ROOFING, COVERED WITH MUD SET FLOOR TILES.

4. THE SAFEGUARD RAILING AT THE REAR BALCONY SHALL BE AS PER THE MANUFACTURERS SHOP DRAWINGS INCLUDING THE FOLLOWING FEATURES:
   HEIGHT ABOVE WALKING SURFACE SHALL BE NOT LESS THAN 42"
   ALL OPENINGS SHALL REJECT A 4"ϕ BALL
   HANDRAIL SHALL MEET OR EXCEED ALL CODE MANDATED LOADING

5. THE WINDOWS AT THE DORMERS AND THE CENTER WINDOW OF THE WINDOW GROUP IN BEDROOM Nr.2 AT THE 2nd FLOOR SHALL BE DESIGNATED AS "EGRESS" WINDOWS AND SHALL MEET OR EXCEED ALL CODE MANDATED SIZE REQUIREMENTS FOR THE EGRESS OPENING.

6. MISSING FOUNDATION SIZES AT THE FRONT ENTRY AND THE DECORATIVE COLUMNS AS WELL AS THE WING WALL EXTENSION SHALL BE AS PER THE ATTACHED PARTIAL FOUNDATION PLAN.

7. THE CURVED BEAM ABOVE THE EXTERIOR WALL FORMING THE BREAKFAST NOOK SHALL BE BACK-SAWN 2X10 FACE MEMBERS ALONG WITH A 1/2" PLYWOOD FLITCH PLATE. THE FACE MEMBERS SHALL BE GLUED AND NAILED @ 12" O.C., STAGGERED, TOP AND BOTTOM, EACH SIDE W/ 16d NAILS.

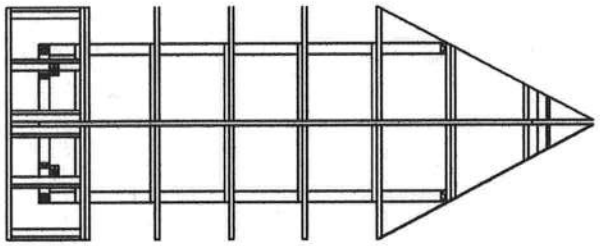
SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

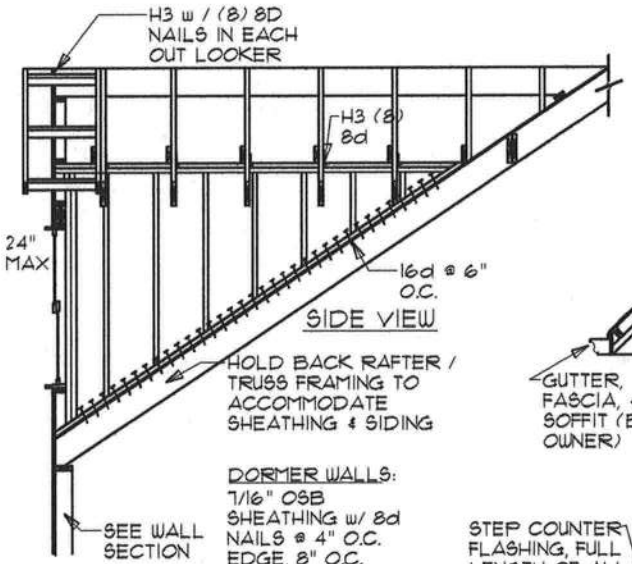
NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

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

NOTE!
ALTERNATE TO FRAMING SHOWN AT THE ROOF: IT IS PERMISSABLE TO FRAME WITH A SINGLE MEMBER OR SHAPED 2X10 ie: CURVED ROOF



FRAMING PLAN



DORMER WALLS:
7/16" OSB SHEATHING w/ 8d NAILS @ 4" O.C. EDGE, 8" O.C. FIELD

2x4 FRAMING w/ INSULATION.

INTERIOR FINISH (BY OWNER) TO BOTTOM OF SUPPORT TRUSSES / RAFTERS.

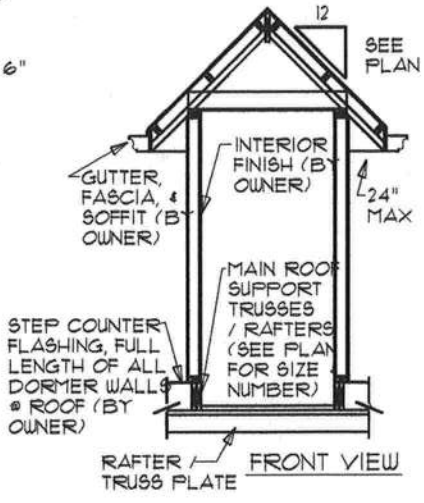
DORMER ROOF:
ROOFING (BY OWNER)

15lb. FELT OVER 7/16" OSB

TRUSSES / RAFTERS (SEE ROOF FRAMING PLAN FOR SIZE & SPACING) TO RIDGE BOARD (FULL DEPTH OF RAFTER CUT).

CEILING JOISTS

CEILING FINISH (BY OWNER)



Dormer Framing DETAIL

A

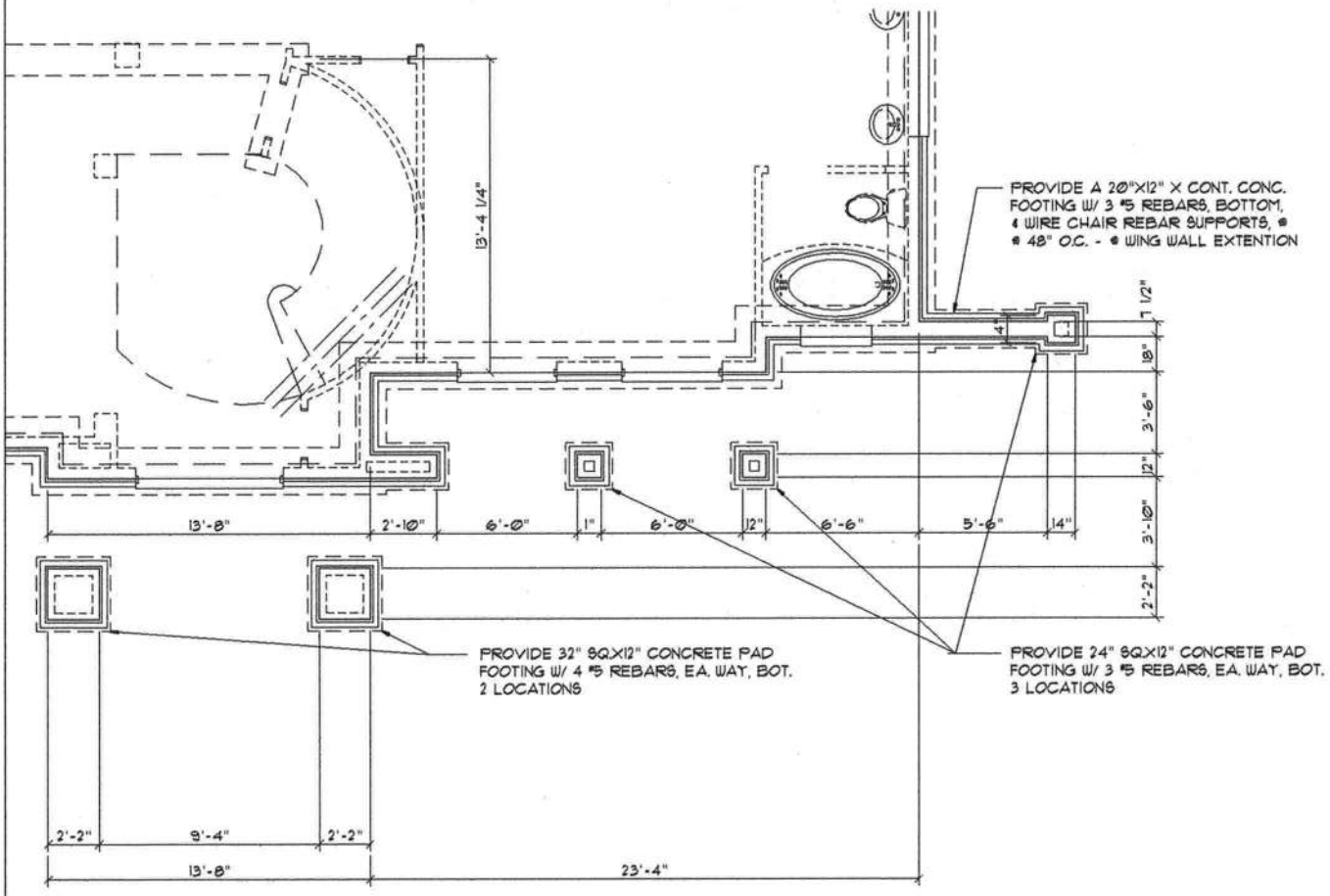
SCALE: N.T.S.

RE: DAN NICKELSON RESIDENCE
PERMIT Nr.: _____

AR17005
12 Dec 2008

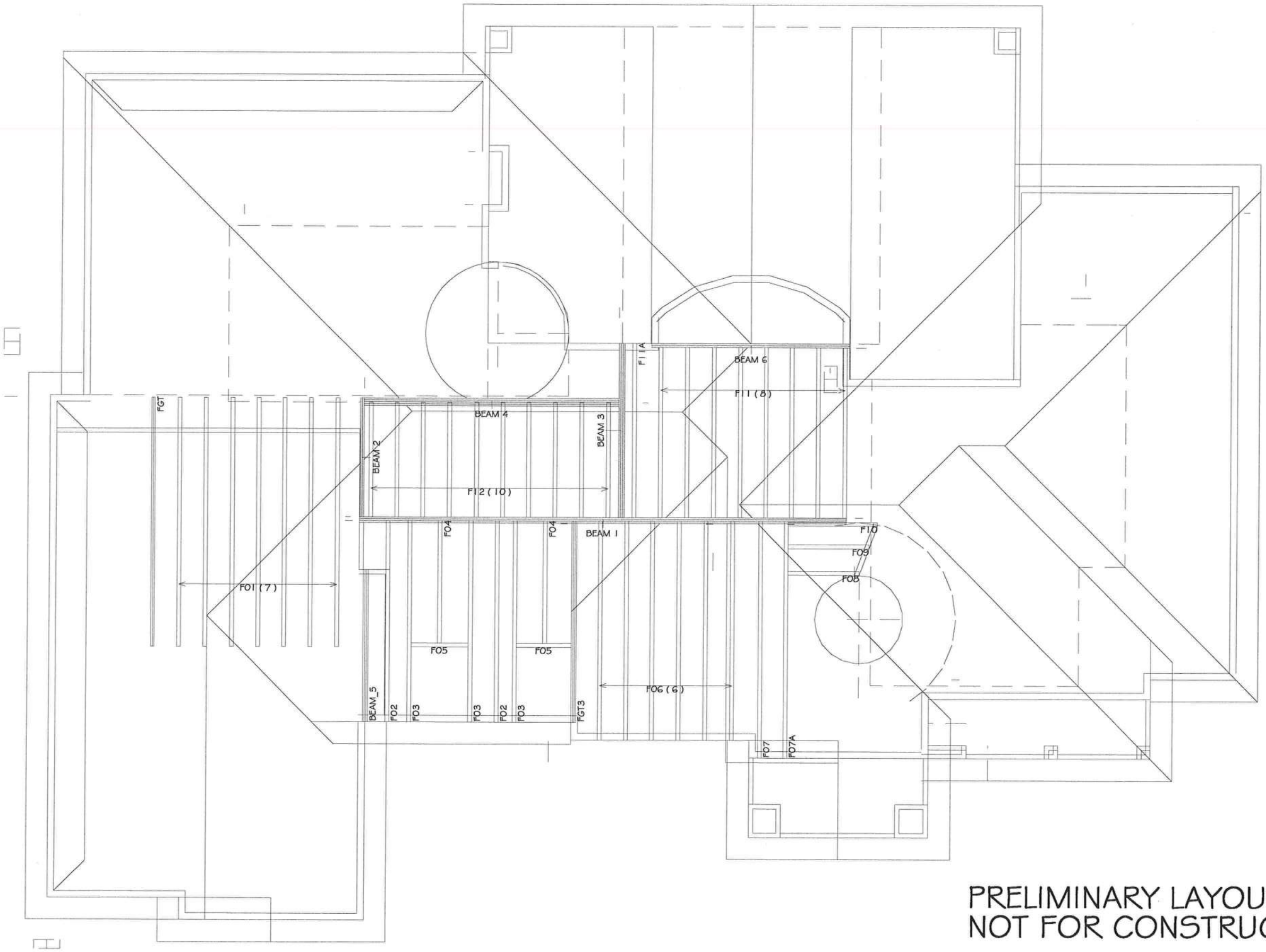
NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

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



RE: DAN NICKELSON RESIDENCE
PERMIT Nr.: _____

AR7005
12D



PRELIMINARY LAYOUT
NOT FOR CONSTRUCTION

BEARING HEIGHT SCHEDULE

NOTES:

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

2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

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

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

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

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

7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

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

SHOP DRAWING APPROVAL

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

Requested Delivery Date: _____

Approved By: _____ Date: _____

Builders FirstSource

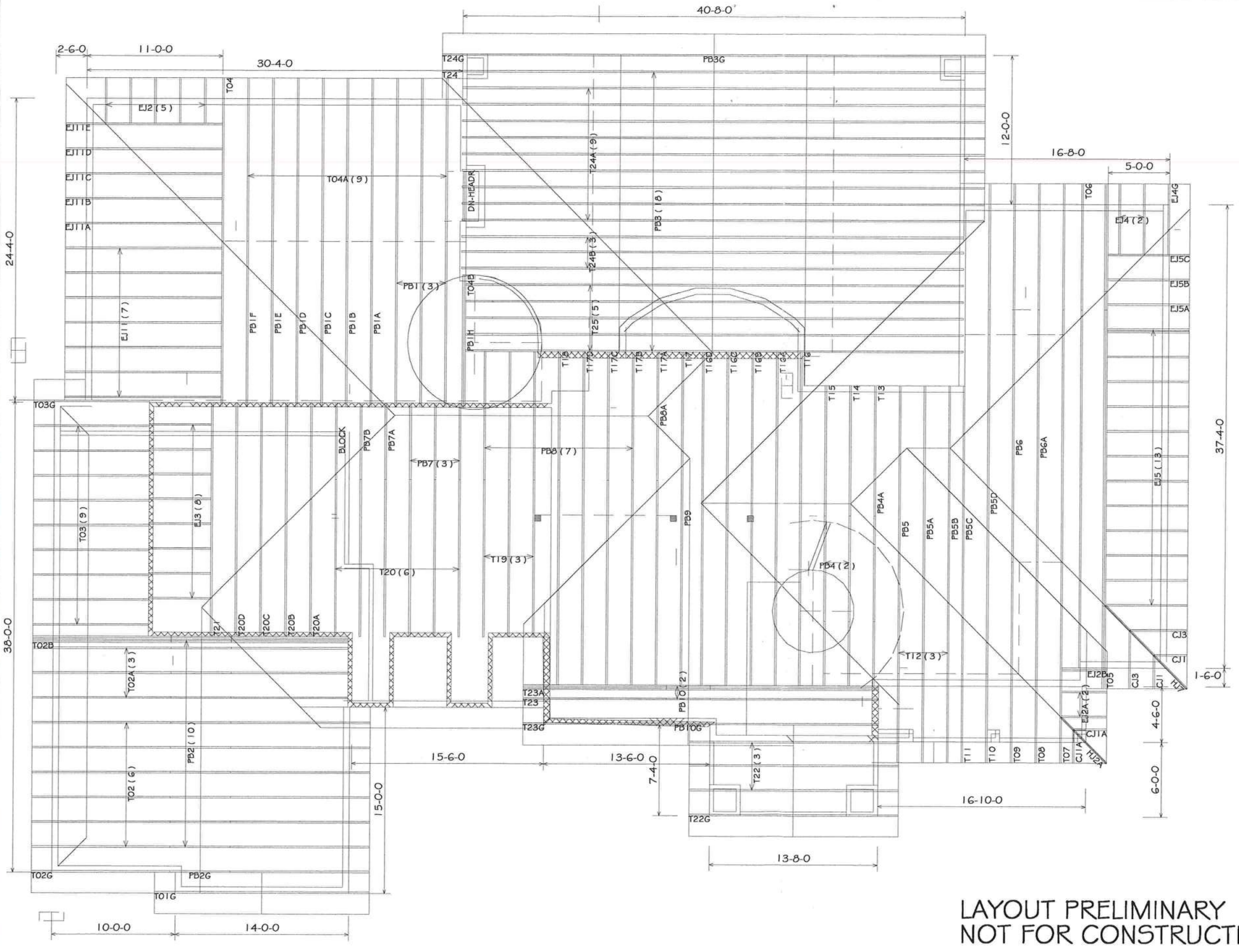
Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

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

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322-9593

BUILDER:	N/A
LEGAL ADDRESS:	COLUMBIA CTY., FL.
MODEL:	NICKELSON RES.
REVISION:	
SCALE:	NTS
DATE:	10/28/08
DRAWN BY:	JP
JOB #:	L2880618



BEARING HEIGHT SCHEDULE

VERIFICATION AFTER REVIEW

NOTES:

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

2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

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

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

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

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

7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

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

SHOP DRAWING APPROVAL

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

Requested Delivery Date: _____

Approved by: _____ Date: _____

Builders FirstSource

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

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

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

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

BUILDER:	N/A
LEGAL ADDRESS:	COLUMBIA, CTY. FL
MODEL:	NICKELSON RES.
REVISION:	
SCALE:	NTS
DATE:	10/28/08
DRAWN BY:	JP
JOB #:	L288061

LAYOUT PRELIMINARY
NOT FOR CONSTRUCTION