

DATE 07/07/2010

Columbia County Building Permit  
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT  
000028711

APPLICANT JOEY NICKELSON PHONE 623-0235  
ADDRESS PO BOX 3248 LAKE CITY FL 32056  
OWNER JOEY NICKELSON PHONE 623-0235  
ADDRESS 610 SW MEADOW TERR LAKE CITY FL 32024  
CONTRACTOR OWNER PHONE \_\_\_\_\_  
LOCATION OF PROPERTY 47 S, L INTO SOUTHWOOD ESTATES, FOLLOW TO LITTLE DR TURN  
LEFT, R MEADOW LN, FOLLOW TO CUL-DE-SAC 1ST LOT ON RIGHT  
TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 74200.00  
HEATED FLOOR AREA 1404.00 TOTAL AREA 1484.00 HEIGHT 21.00 STORIES 1  
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB  
LAND USE & ZONING AG-3 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 12-5S-16-03585-009 SUBDIVISION \_\_\_\_\_  
LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 0.79

000001834

Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_  
WAIVER 10-0042 BK HD N  
Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

EXISTING SPECIAL FAMILY LOT PERMIT AFFIDAVIT ON FILE

Check # or Cash CASH

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 375.00 CERTIFICATION FEE \$ 7.42 SURCHARGE FEE \$ 7.42  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ \_\_\_\_\_  
FLOOD DEVELOPMENT FEE \$ \_\_\_\_\_ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ \_\_\_\_\_ TOTAL FEE 464.84

INSPECTORS OFFICE ZNH CLERKS OFFICE CH

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

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

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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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





**Columbia County Building Permit Application**

- ☒ 911 ADDRESS -

464.83  
50.00

**For Office Use Only** Application # 1002-25 Date Received 2-16-10 By LH Permit # 1834/28711  
 Zoning Official BLK Date 29.03.10 Flood Zone X Land Use A-3 Zoning A-3  
 FEMA Map # N/A Elevation N/A MFE 1st Land River N/A Plans Examiner HD Date 2-23-10  
 Comments Verify ownership is correct. Per below 60.3.13-14  
☒ 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 \_\_\_\_\_ Fire \_\_\_\_\_ Corr \_\_\_\_\_ Road/Code \_\_\_\_\_  
 School \_\_\_\_\_ = TOTAL N/A Suspended ☒ Owner Disclosure Statement  
☒ Application Fee

Septic Permit No. 10-0042  
 Name Authorized Person Signing Permit Joey Nickelson Phone 386-623-0235  
 Address PO Box 3248, Lake City, FL 32056 905-0930  
 Owners Name Joey Nickelson Phone 386-623-0235  
 911 Address 610 SW Meadow Terr, Lake City, FL 32024  
 Contractors Name Joey Nickelson Phone 386-623-0235  
 Address PO Box 3248, Lake City, FL 32056  
 Fee Simple Owner Name & Address Joey Nickelson, PO Box 3248, Lake City, FL 32056  
 Bonding Co. Name & Address N/A  
 Architect/Engineer Name & Address Nick Geisler, 1758 NW Brown rd, Lake City 32053  
 Mortgage Lenders Name & Address N/A

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

Property ID Number 12-55-16-03585-009 Estimated Cost of Construction 70,000.00

Subdivision Name N/A Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions Hwy 47 South, Past I-75, TL into Southwood Estates follow to Little dr, TL follow to Meadow lane, TR follow to cul-de-sac & private dr. 1st Lot on RT. Number of Existing Dwellings on Property 0

Construction of Single family Home Total Acreage 2.79 Lot Size 103'x332'

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 21'4"

Actual Distance of Structure from Property Lines - Front 20 Side 18.5 Side 18.5 Rear 218

Number of Stories 1 Heated Floor Area 1404 Total Floor Area 1484 Roof Pitch 7/12

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. **CODE:** Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.

left message  
3/29/10





**Columbia County Building Permit Application**

**TIME LIMITATIONS OF APPLICATION :** An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**TIME LIMITATIONS OF PERMITS:** 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 work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

**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.

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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.

**OWNERS CERTIFICATION:** I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

**NOTICE TO OWNER:** There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

  
Owners Signature

**\*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

**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 including all application and permit time limitations.

*Owner Disclosure Statement Included.*

\_\_\_\_\_  
Contractor's Signature (Permitee)

Contractor's License Number \_\_\_\_\_  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this \_\_\_\_ day of \_\_\_\_\_ 20\_\_.

Personally known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

SEAL:

\_\_\_\_\_  
State of Florida Notary Signature (For the Contractor)





## **COLUMBIA COUNTY BUILDING DEPARTMENT**

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

### **OWNER BUILDER DISCLOSURE STATEMENT**

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.





I understand that I 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 my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address <http://www.myflorida.com/dbpr/pro/cilb/index.html> for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

---

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of \$300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of \$100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.





Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

**TYPE OF CONSTRUCTION**

- ☒ Single Family Dwelling    ( ) Two-Family Residence    ( ) Farm Outbuilding  
( ) Addition, Alteration, Modification or other Improvement  
( ) Commercial, Cost of Construction \_\_\_\_\_ Construction of \_\_\_\_\_  
( ) Other \_\_\_\_\_

I, Joseph 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 allowing this exception for the construction permitted by Columbia County Building Permit.

[Signature]  
Owner Builder Signature

Date 2/16/10

**NOTARY OF OWNER BUILDER SIGNATURE**

The above signer is personally known to me or produced identification FL DL

Notary Signature L. Hodson

Date 2-16-10

(Seal)



**FOR BUILDING DEPARTMENT USE ONLY**

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative L. Hodson



**SUBCONTRACTOR VERIFICATION FORM**

APPLICATION NUMBER \_\_\_\_\_

CONTRACTOR Joey Nickelson

PHONE 386-623-0235

**THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT**

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

***Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.***

<b>ELECTRICAL</b>	Print Name <u>Joey Nickelson</u>	Signature <u>[Signature]</u>	Phone #: <u>386-623-0235</u>
<b>MECHANICAL/ A/C</b>	Print Name <u>Joey Nickelson</u>	Signature _____	Phone #: <u>386-623-0235</u>
<b>PLUMBING/ GAS</b>	Print Name <u>Joey Nickelson</u>	Signature _____	Phone #: <u>386-623-0235</u>
<b>ROOFING</b>	Print Name <u>Joey Nickelson</u>	Signature _____	Phone #: <u>386-623-0235</u>
<b>SHEET METAL</b>	Print Name _____	Signature _____	Phone #: _____
<b>FIRE SYSTEM/ SPRINKLER</b>	Print Name _____	Signature _____	Phone #: _____
<b>SOLAR</b>	Print Name _____	Signature _____	Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
CONCRETE FINISHER	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
FRAMING	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
INSULATION			
STUCCO			
DRYWALL	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
PLASTER			
CABINET INSTALLER	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
PAINTING	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
FLOOR COVERING	<u>n/a</u>	<u>Joey Nickelson</u>	<u>[Signature]</u>
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

**F. S. 440.103 Building permits; identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



2

2



STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
ONSITE SEWAGE TREATMENT AND DISPOSAL  
SYSTEM  
APPLICATION FOR CONSTRUCTION PERMIT

10-0042  
PERMIT NO. 950191  
DATE PAID: 1/23/10  
FEE PAID: 310.50  
RECEIPT #: 1232832

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative  
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Joseph Nickelson

AGENT: ROCKY FORD, A & B CONSTRUCTION

TELEPHONE: 386-497-2311

MAILING ADDRESS: P.O. BOX 39 FT. WHITE, FL, 32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3) (m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: na BLOCK: na SUB: na PLATTED: NA

PROPERTY ID #: 12-5S-16-03585-009 ZONING: Res I/M OR EQUIVALENT: ☒ Y ☒ N

PROPERTY SIZE: 1.58 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ <=2000GPD ☐ >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? ☒ Y ☒ N DISTANCE TO SEWER: — FT

PROPERTY ADDRESS: SW Meadow Terr, Lake City, FL, 32024

DIRECTIONS TO PROPERTY: 47 South, TL on Walter Road, TL on Little Road, TR on Meadow Terr, Property through gate on right (1<sup>st</sup> lot)

BUILDING INFORMATION

☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SF Residential	3	1404	
2				
3				

☒ Floor/Equipment Drains ☒ Other (Specify) Other

SIGNATURE: Rocky Ford DATE: 1/25/2010



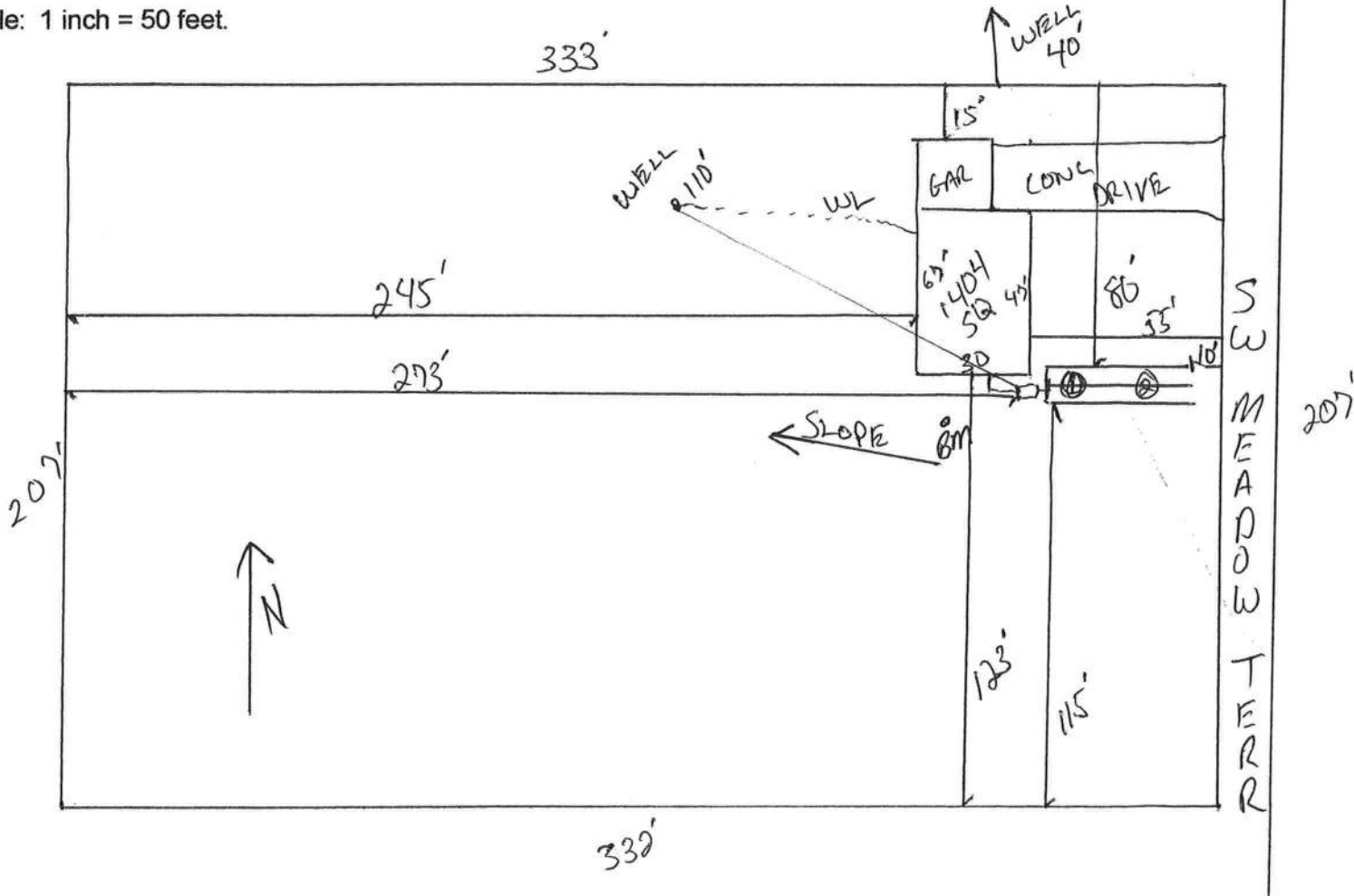


STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 10-0072

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

Scale: 1 inch = 50 feet.



Notes: \_\_\_\_\_

Site Plan submitted by: Rock D Ford

MASTER CONTRACTOR

Plan Approved X Not Approved \_\_\_\_\_

Date 2-2-10

By Sally Ford - EH Director

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



## Julius Lee Engineering

RE: 324115 - JOEY & LYDIA NICKELSON RES.

**1109 Coastal Bay Blvd.  
Boynton Beach, FL 33435**

### Site Information:

Project Customer: JOEY & LYDIA NICKELSON Project Name: 324115 Model: OWNER BLDR,  
Lot/Block: Subdivision:  
Address: 123 BLAYLOCK LANE  
City: COLUMBIA CTY State: FL

### Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:  
Address:  
City: State:

### General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2007/TPI2002 Design Program: MiTek 20/20 7.1  
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf  
Roof Load: 32.0 psf

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.  
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

**In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.**

No.	Seal#	Truss Name	Date
1	I4206906	T02	1/28/010
2	I4206907	T02G	1/28/010
3	I4206908	T03	1/28/010
4	I4206909	T04	1/28/010
5	I4206910	T04G	1/28/010
6	I4206911	T05	1/28/010
7	I4206912	T05G	1/28/010
8	I4206913	T06	1/28/010
9	I4206914	T07	1/28/010
10	I4206915	T08	1/28/010
11	I4206916	T09	1/28/010
12	I4206917	T09G	1/28/010
13	I4206918	V15	1/28/010

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Lake City).

Truss Design Engineer's Name: Julius Lee

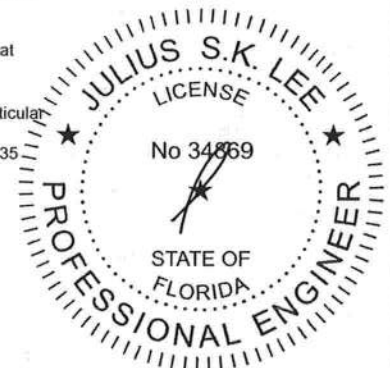
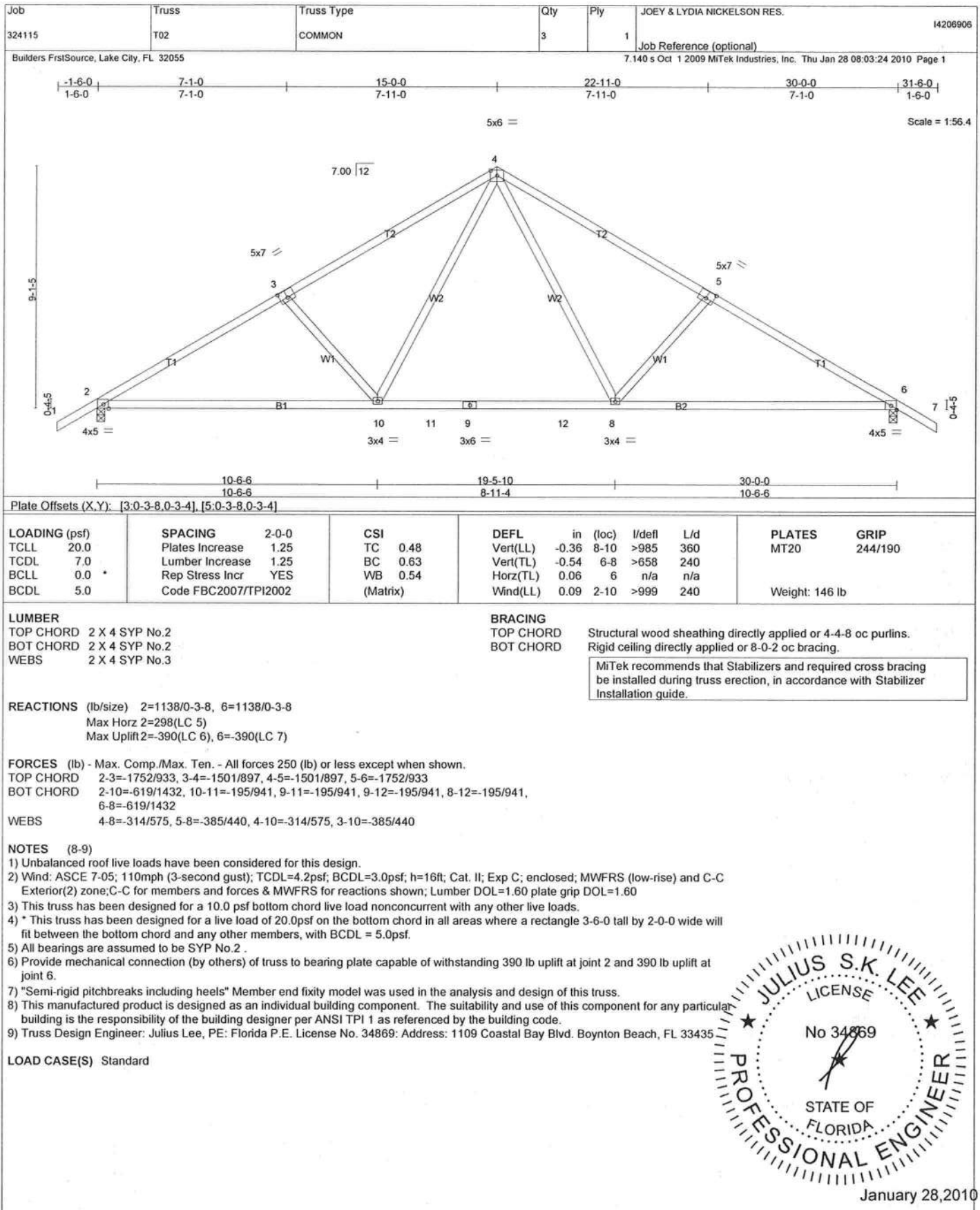
My license renewal date for the state of Florida is February 28, 2011.

**NOTE:** The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.









January 28, 2010



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BC511 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	JOEY & LYDIA NICKELSON RES.
324115	T02G	GABLE	1	1	
Builders FirstSource, Lake City, FL 32055					
7,140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:26 2010 Page 1					
Job Reference (optional)					

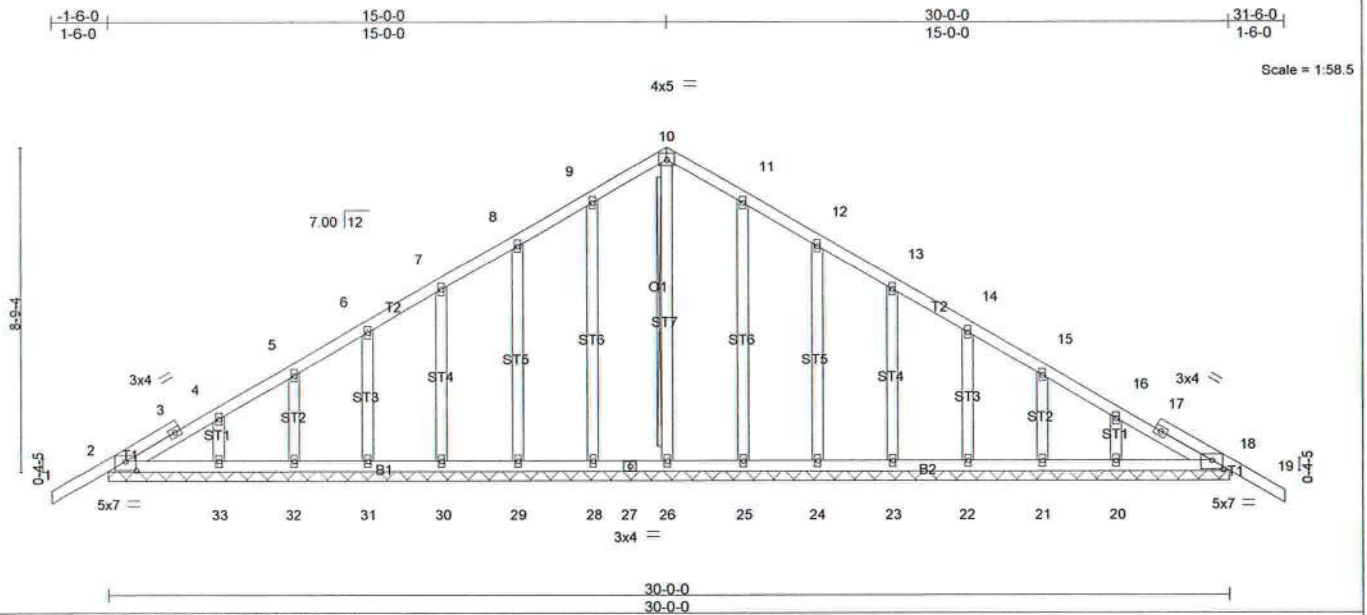


Plate Offsets (X,Y): [2:0-3-8,0-3-0], [18:0-3-8,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.22	Vert(LL)	-0.01	19	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	-0.01	19	n/r	90		
BCLL 0.0	Rep Stress Incr	NO	WB 0.17	Horz(TL)	0.01	18	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)							
										Weight: 193 lb

#### LUMBER

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

#### BRACING

TOP CHORD  
BOT CHORD  
WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.  
T-Brace: 2 X 4 SYP No.3 - 10-26  
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

#### REACTIONS

All bearings 30-0-0.  
(lb) - Max Horz 2=366(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=-177(LC 6), 18=-208(LC 7), 28=-164(LC 6), 29=-170(LC 6), 30=-166(LC 6), 31=-165(LC 6), 32=-174(LC 6), 33=-140(LC 6), 25=-160(LC 7), 24=-172(LC 7), 23=-166(LC 7), 22=-165(LC 7), 21=-173(LC 7), 20=-149(LC 7)  
Max Grav All reactions 250 lb or less at joint(s) 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except 2=302(LC 1), 18=302(LC 1)

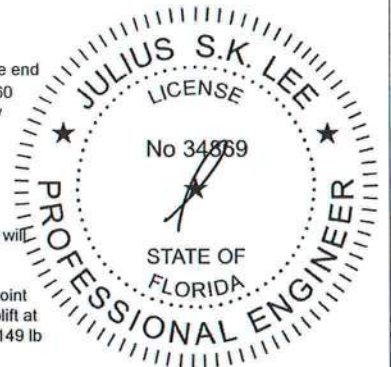
#### FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-285/226, 3-4=-291/224, 8-9=-62/283, 9-10=-66/331, 10-11=-66/328, 11-12=-62/260

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SYP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2, 208 lb uplift at joint 18, 164 lb uplift at joint 28, 170 lb uplift at joint 29, 166 lb uplift at joint 30, 165 lb uplift at joint 31, 174 lb uplift at joint 32, 140 lb uplift at joint 33, 160 lb uplift at joint 25, 172 lb uplift at joint 24, 166 lb uplift at joint 23, 165 lb uplift at joint 22, 173 lb uplift at joint 21 and 149 lb uplift at joint 20.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Continued on page 2



January 28, 2010



#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	JOEY & LYDIA NICKELSON RES.	14206907
324115	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:26 2010 Page 2

#### NOTES (14-15)

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

14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

15) 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: 1-10=-87(F=-33), 10-19=-87(F=-33), 2-18=-10



January 28, 2010



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-89 and BC511 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435



Job 324115	Truss T03	Truss Type SPECIAL	Qty 4	Ply 1	JOEY & LYDIA NICKELSON RES. Job Reference (optional)	I4206908
Builders FrstSource, Lake City, FL 32055			7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:27 2010 Page 1			

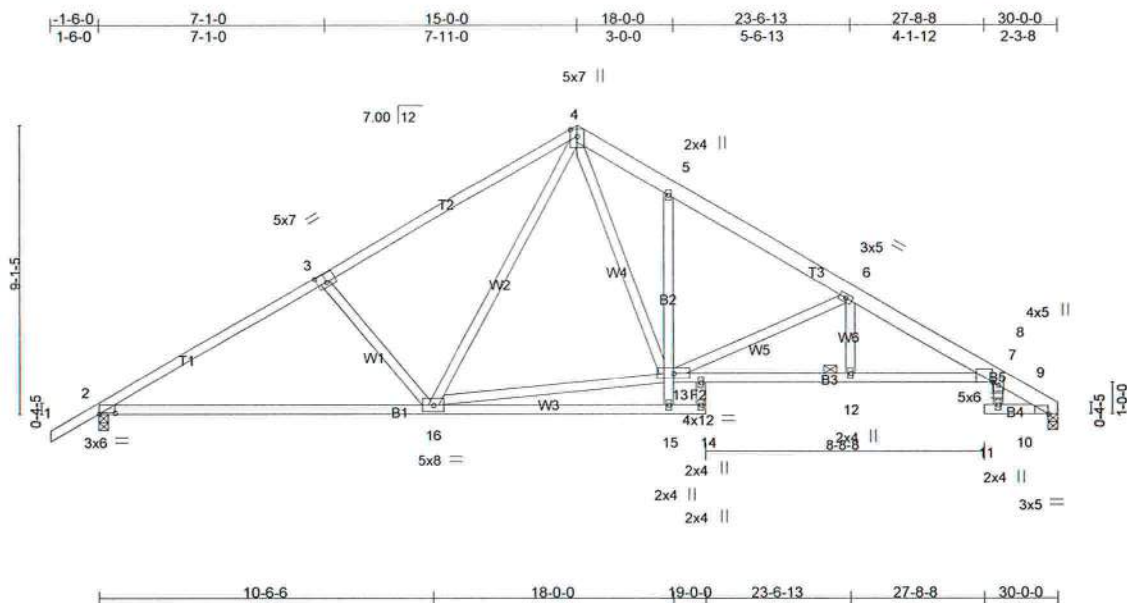


Plate Offsets (X,Y): [2:0-6-1,0-0-6], [3:0-3-8,0-3-4], [7:0-0-4,0-0-0]						
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.72	Vert(LL) -0.29 2-16 >999 360		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Vert(TL) -0.55 2-16 >642 240		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)	Horz(TL) 0.25 9 n/a n/a		
				Wind(LL) 0.24 7-12 >999 240		
					Weight: 184 lb	

**LUMBER**

TOP CHORD 2 X 4 SYP No.2 \*Except\*  
T3: 2 X 6 SYP No.1D

BOT CHORD 2 X 4 SYP No.2 \*Except\*  
B2,B5: 2 X 4 SYP No.3

WEBS 2 X 4 SYP No.3

**REACTIONS** (lb/size) 2=1037/0-3-8, 9=949/0-3-8  
Max Horz 2=317(LC 5)  
Max Uplift 2=386(LC 6), 9=288(LC 7)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1539/925, 3-4=-1290/893, 4-5=-1282/979, 5-6=-1392/877, 6-7=-2019/1178, 8-9=-799/483

BOT CHORD 2-16=-680/1252, 12-13=-973/1832, 7-12=-973/1832

WEBS 3-16=-380/436, 4-16=-275/365, 13-16=-254/807, 4-13=-458/670, 6-13=-802/590

**NOTES** (10-11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SYP No.2 .
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 2 and 288 lb uplift at joint 9.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

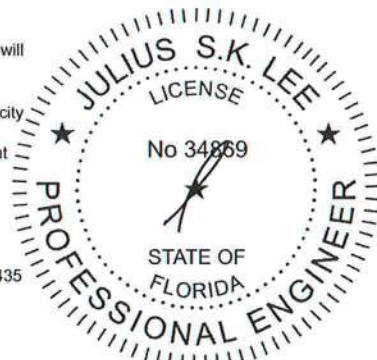
**LOAD CASE(S)** Standard

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
7-7-14 oc bracing: 2-16.  
6-2-0 oc bracing: 7-13  
10-0-0 oc bracing: 13-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.



January 28, 2010



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435



Job	Truss	Truss Type	Qty	Ply	JOEY & LYDIA NICKELSON RES.	14206909
324115	T04	SCISSOR	6	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:28 2010 Page 1

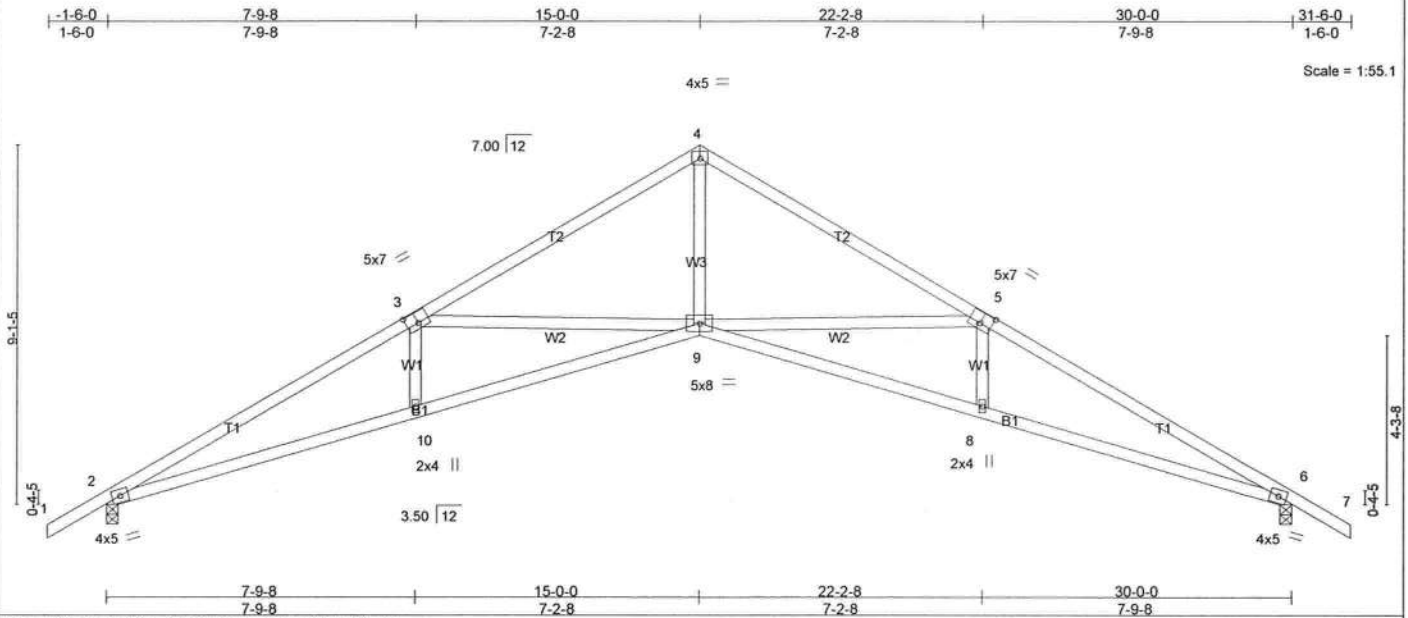


Plate Offsets (X,Y): [3.0-3-8,0-3-4], [5.0-3-8,0-3-4]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.58	Ver(TL) -0.26 9 >999 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.74	Ver(TL) -0.52 9-10 >680 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.42 6 n/a n/a		
	Code FBC2007/TPI2002		Wind(LL) 0.30 9 >999 240		
				Weight: 137 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  
 BOT CHORD

Structural wood sheathing directly applied or 3-1-11 oc purlins.  
 Rigid ceiling directly applied or 5-9-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

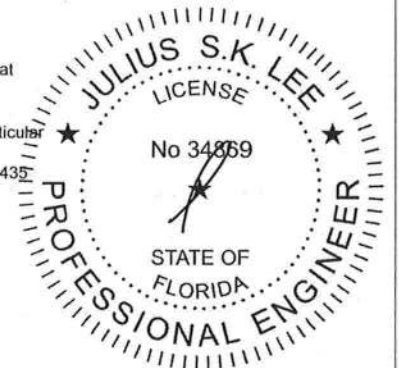
**REACTIONS** (lb/size) 2=1040/0-3-8, 6=1040/0-3-8  
 Max Horz 2=300(LC 5)  
 Max Uplift 2=-390(LC 6), 6=-390(LC 7)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2845/1494, 3-4=-1944/946, 4-5=-1944/946, 5-6=-2845/1494  
 BOT CHORD 2-10=-1135/2464, 9-10=-1136/2460, 8-9=-1136/2460, 6-8=-1135/2464  
 WEBS 4-9=-654/1502, 5-9=-805/716, 5-8=0/251, 3-9=-805/716, 3-10=0/251

#### NOTES (9-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SYP No.2.
- 6) Bearing at joint(s) 2, 6 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 390 lb uplift at joint 2 and 390 lb uplift at joint 6.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 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



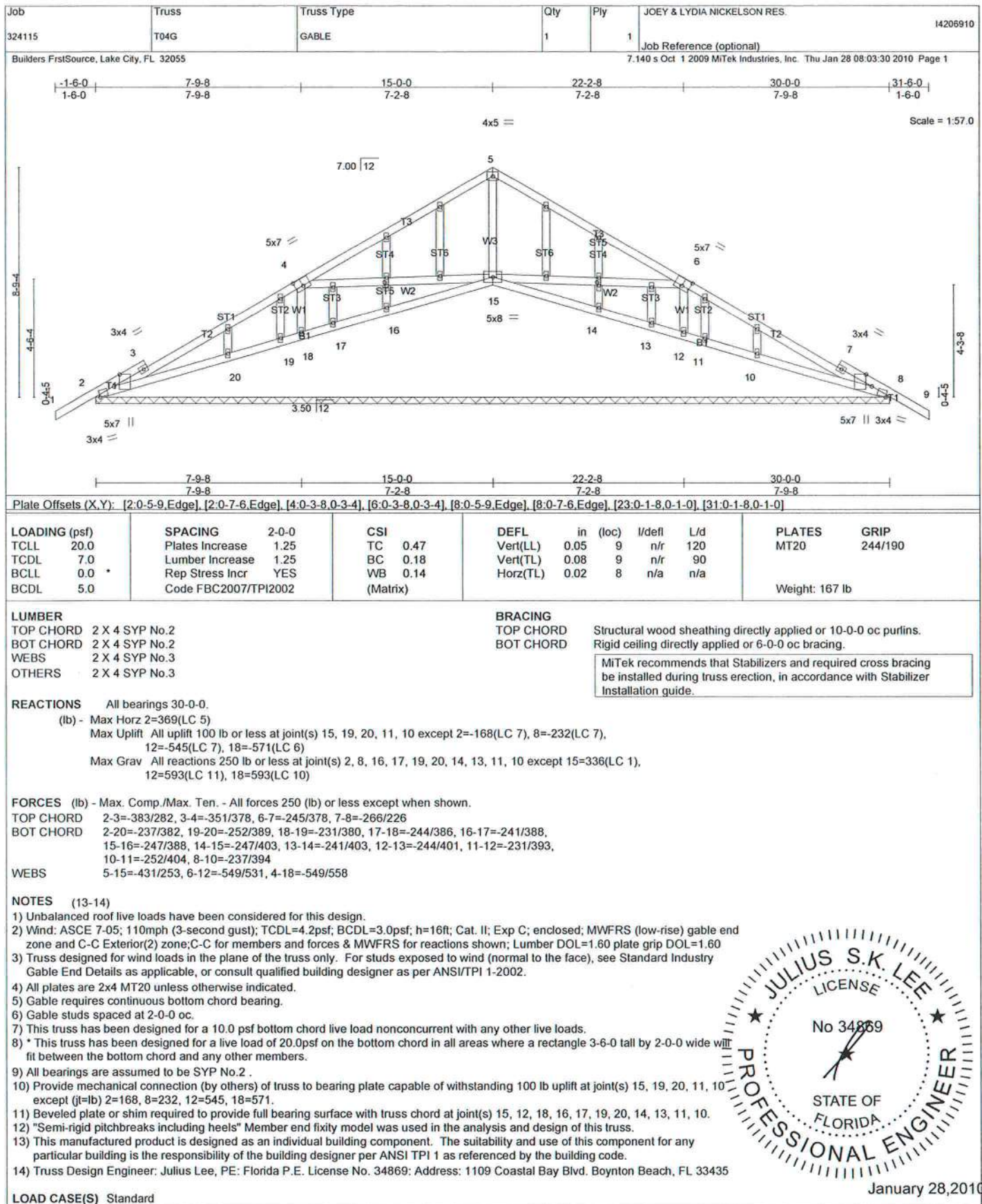
January 28, 2010



#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

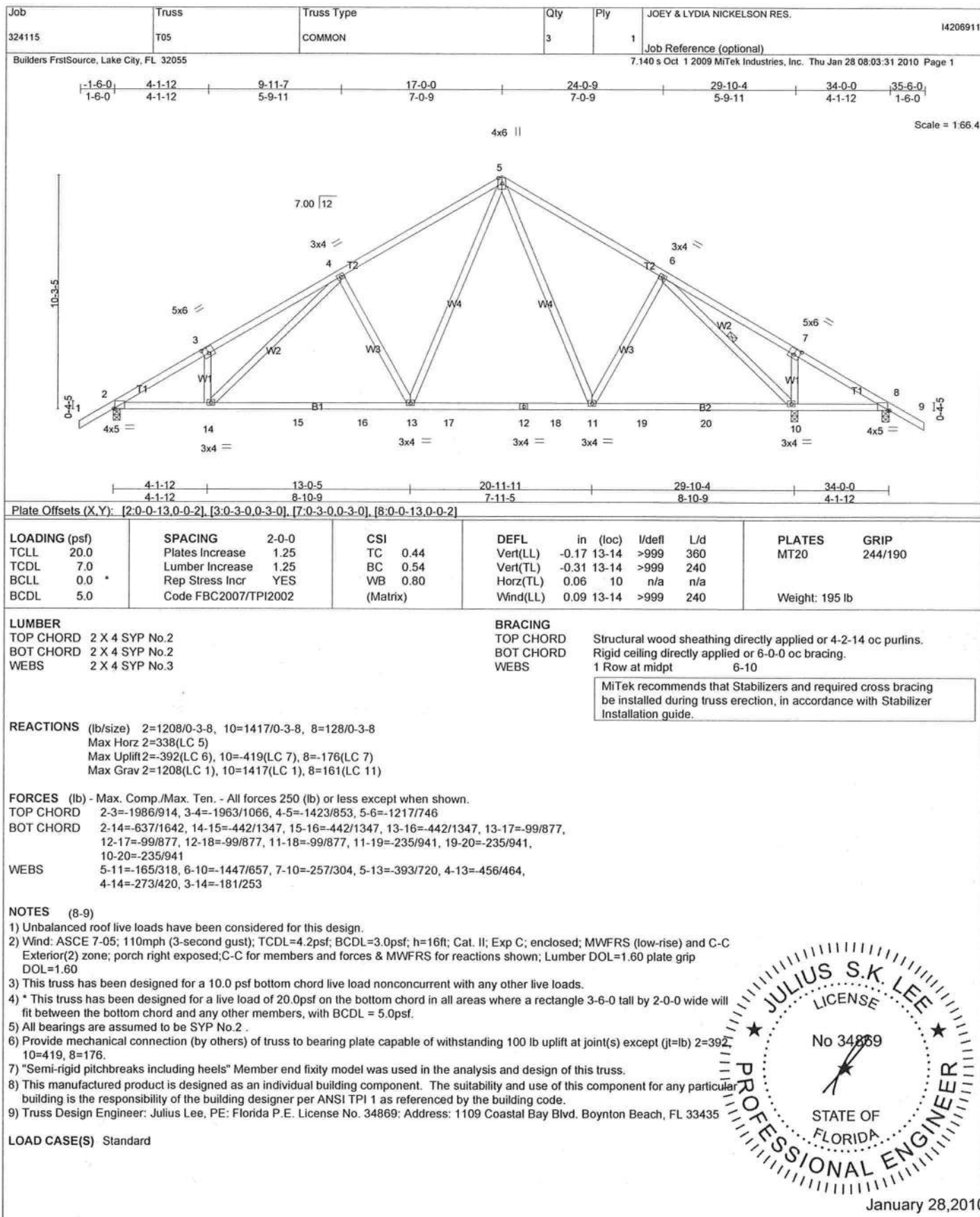
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onotofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Oonofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435





Job	Truss	Truss Type	Qty	Ply	JOEY & LYDIA NICKELSON RES.	I4208912
324115	T05G	GABLE	1	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

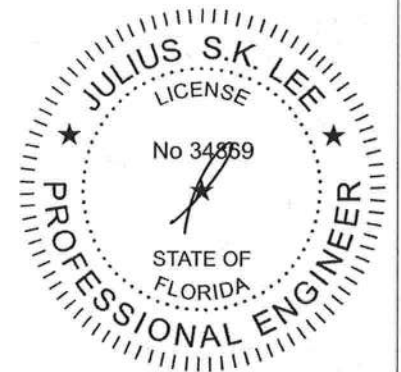
7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:32 2010 Page 2

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-6=-87(F=-33), 6-11=-87(F=-33), 2-36=-10, 36-37=-50, 37-38=-10, 38-39=-50, 39-40=-10, 40-41=-50, 10-41=-10



January 28, 2010

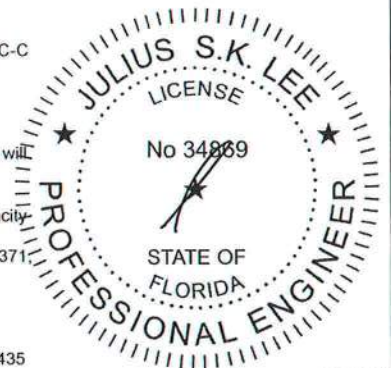
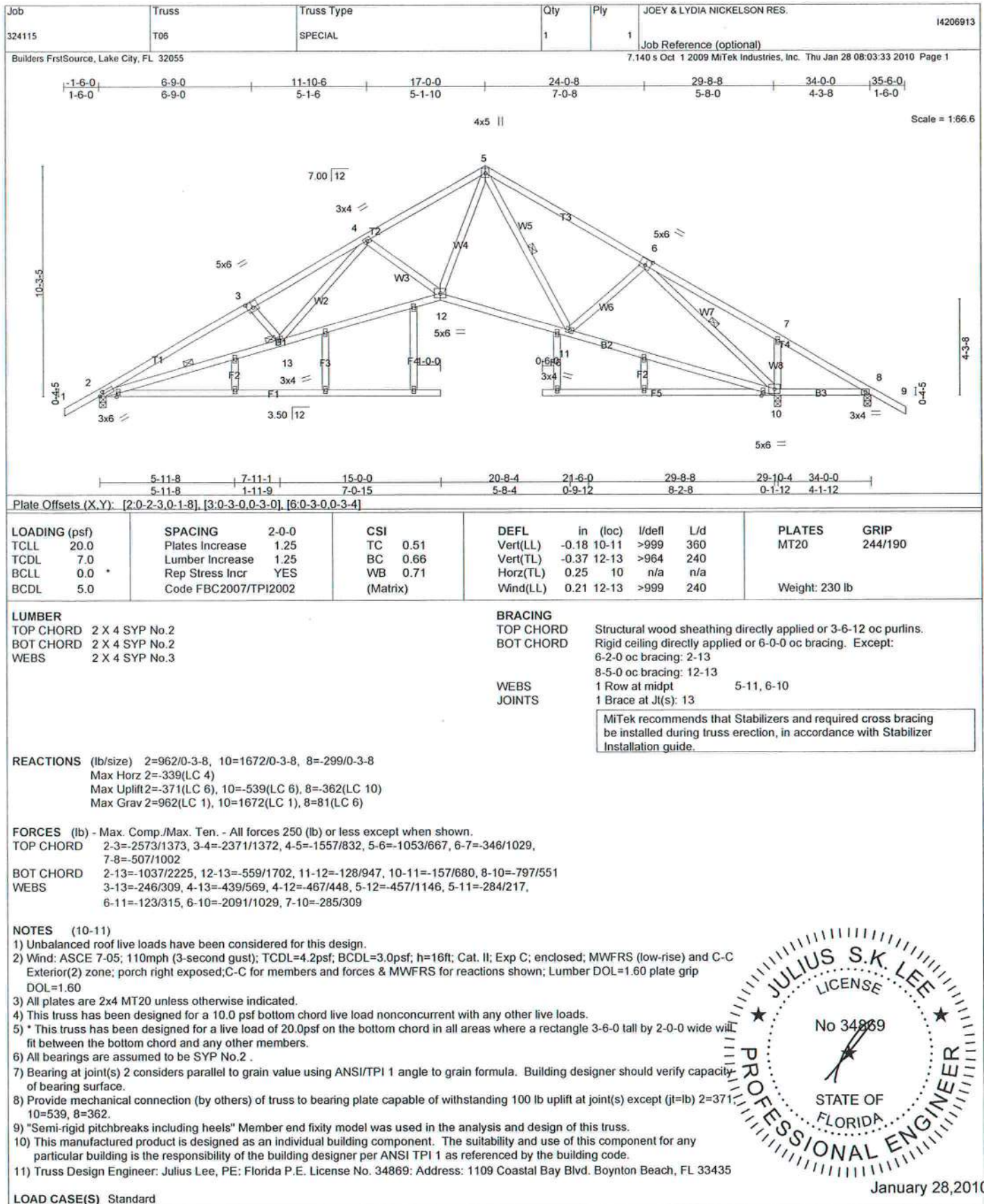


## **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Oroffio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435





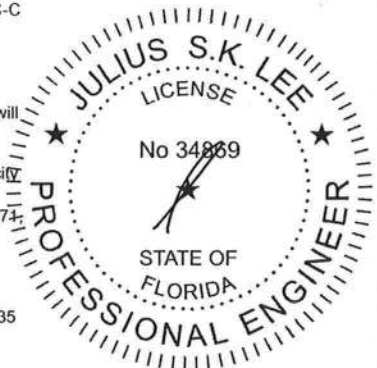
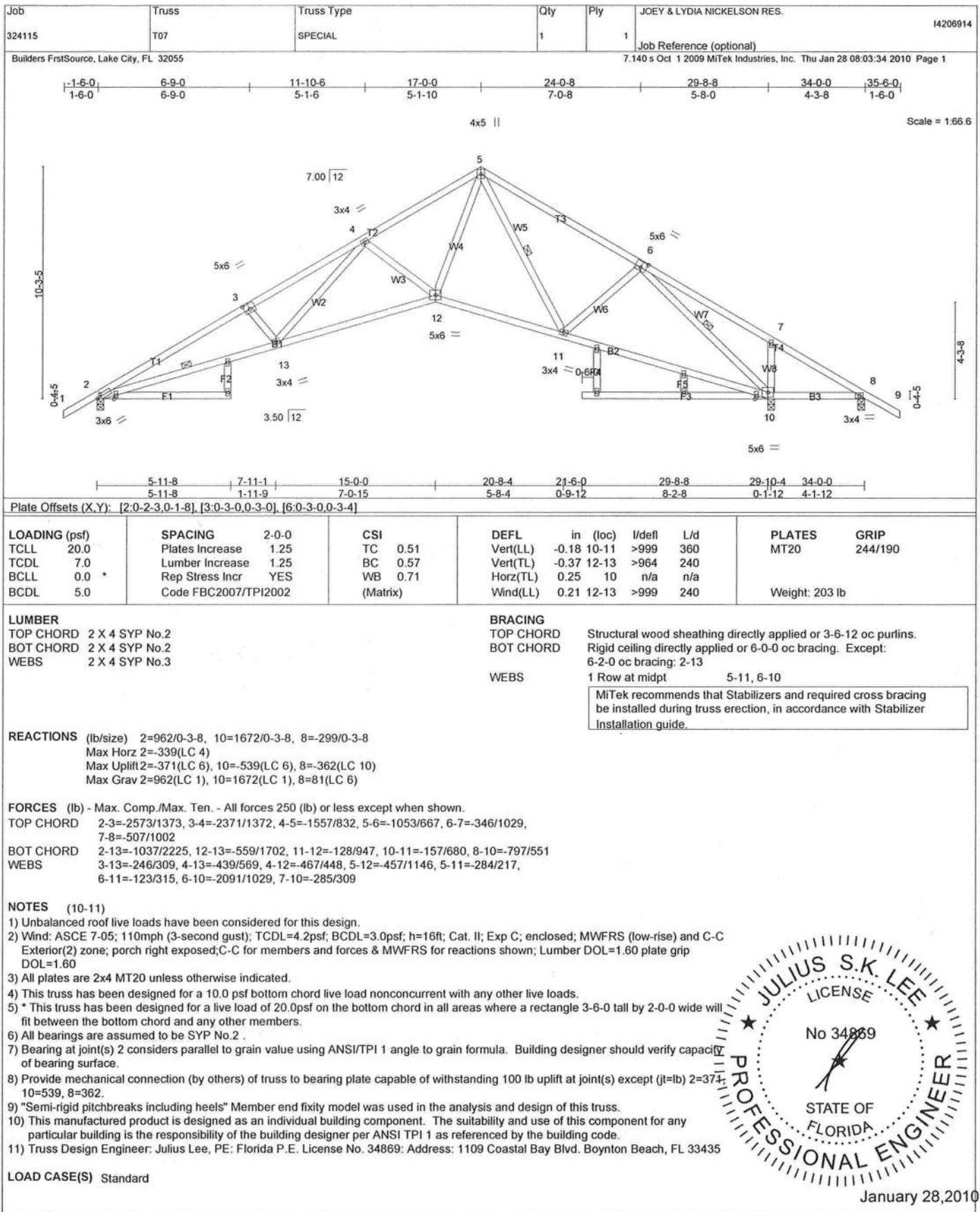
January 28, 2010

LOAD CASE(S) Standard



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Oroff Drive, Madison, WI 53719.

Julius Lee Engineering  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435



January 28, 2010

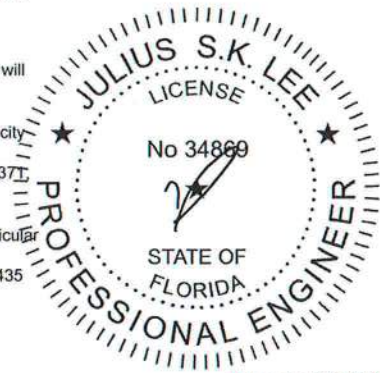
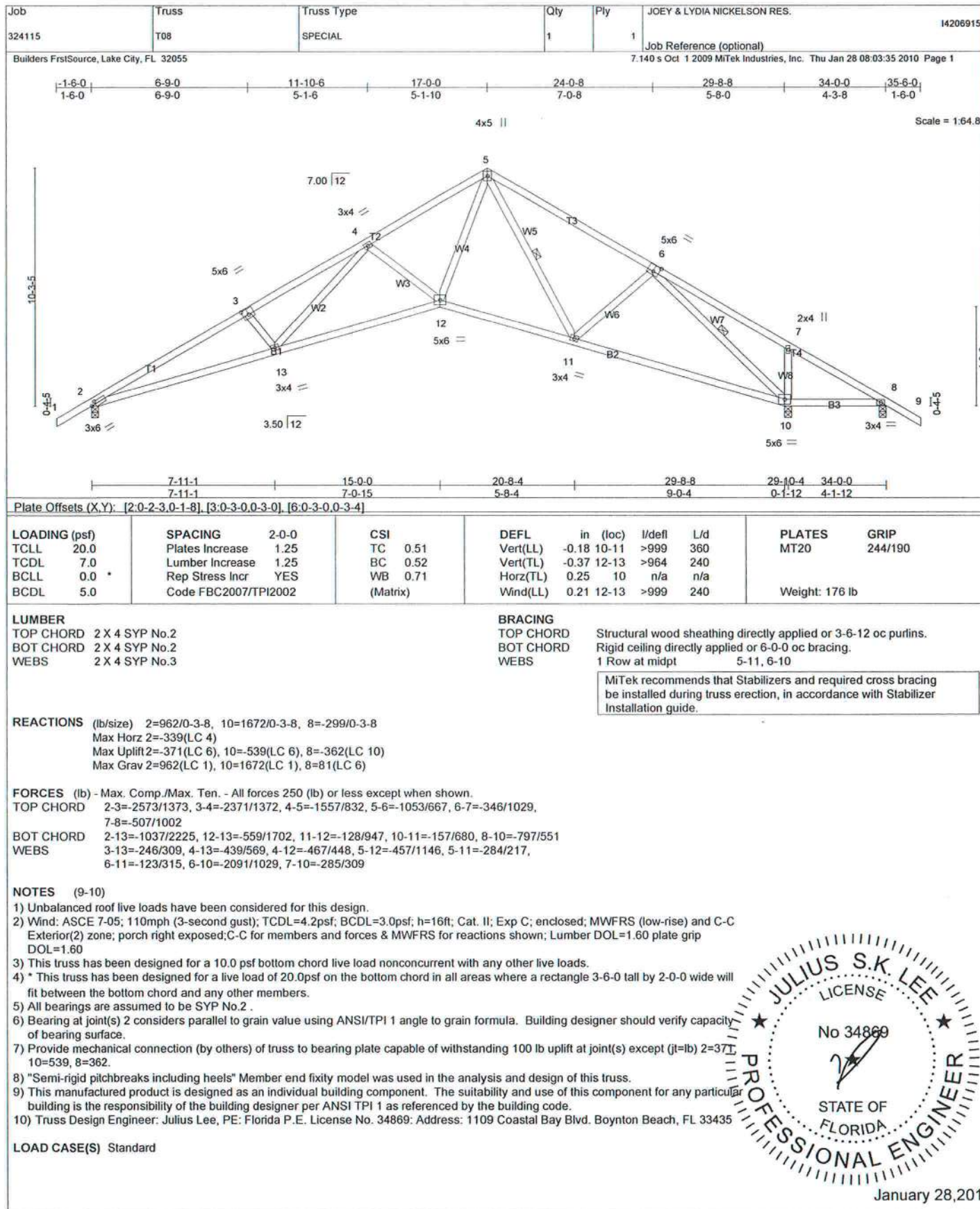


**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onotofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435





January 28, 2010



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	JOEY & LYDIA NICKELSON RES.
324115	T09	SPECIAL	3	1	

14206916

Builders FrstSource, Lake City, FL 32055

7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:36 2010 Page 1

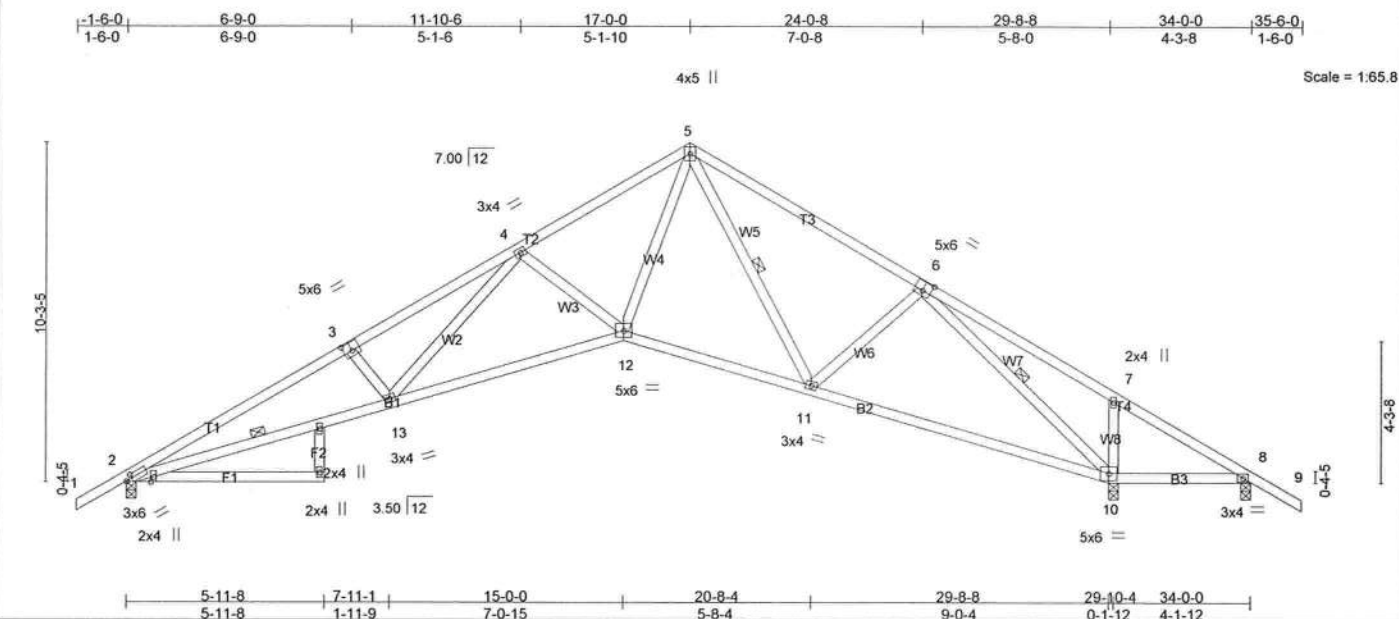


Plate Offsets (X,Y): [2:0-2-3,0-1-8], [3:0-3-0,0-3-0], [6:0-3-0,0-3-4]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.51	Vert(LL)	-0.18	10-11	>999	360	MT20
TCDL 7.0	Lumber Increase 1.25	BC 0.57	Vert(TL)	-0.37	12-13	>964	240	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(TL)	0.25	10	n/a	n/a	
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Wind(LL)	0.21	12-13	>999	240	Weight: 186 lb

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
 6-2-0 oc bracing: 2-13  
 WEBS 1 Row at midpt 5-11, 6-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=962/0-3-8, 10=1672/0-3-8, 8=299/0-3-8  
 Max Horz 2=-339(LC 4)  
 Max Uplift 2=-371(LC 6), 10=-539(LC 6), 8=-362(LC 10)  
 Max Grav 2=962(LC 1), 10=1672(LC 1), 8=81(LC 6)

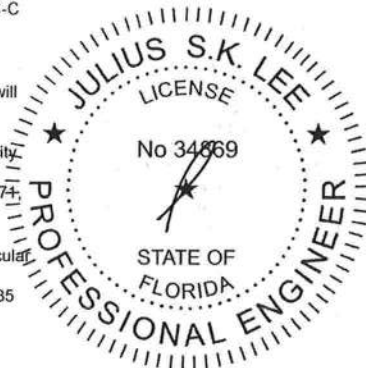
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2573/1373, 3-4=-2371/1372, 4-5=-1557/832, 5-6=-1053/667, 6-7=-346/1029,  
 7-8=-507/1002  
 BOT CHORD 2-13=-1037/2225, 12-13=-559/1702, 11-12=-128/947, 10-11=-157/680, 8-10=-797/551  
 WEBS 3-13=-246/309, 4-13=-439/569, 4-12=-467/448, 5-12=-457/1146, 5-11=-284/217,  
 6-11=-123/315, 6-10=-2091/1029, 7-10=-285/309

**NOTES** (9-10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SYP No.2
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=374, 10=539, 8=362.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 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



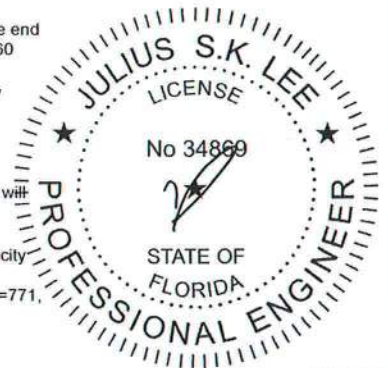
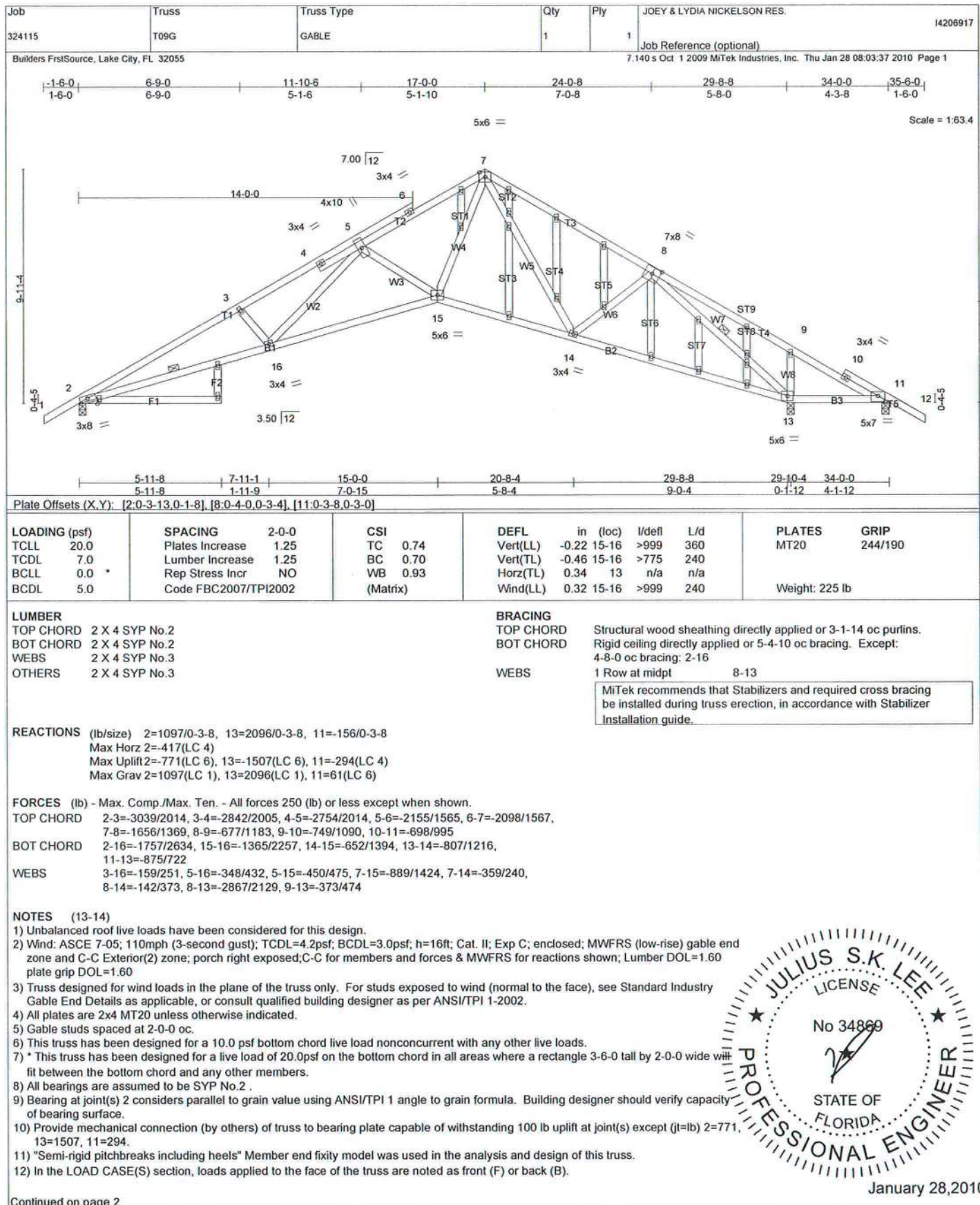
January 28, 2010

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and 8CSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435





January 28, 2010

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-87 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435



Job	Truss	Truss Type	Qty	Ply	JOEY & LYDIA NICKELSON RES.	I4206917
324115	T09G	GABLE	1	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jan 28 08:03:37 2010 Page 2

13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

14) 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, 2-6=-54, 6-7=-87(F=-33), 7-12=-87(F=-33), 2-15=-10, 13-15=-10, 11-13=-10



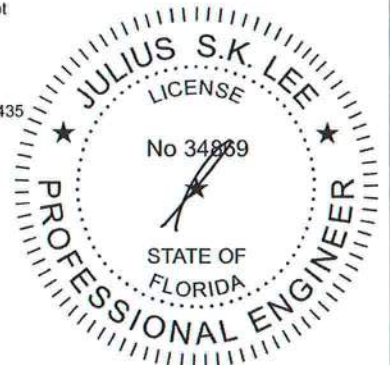
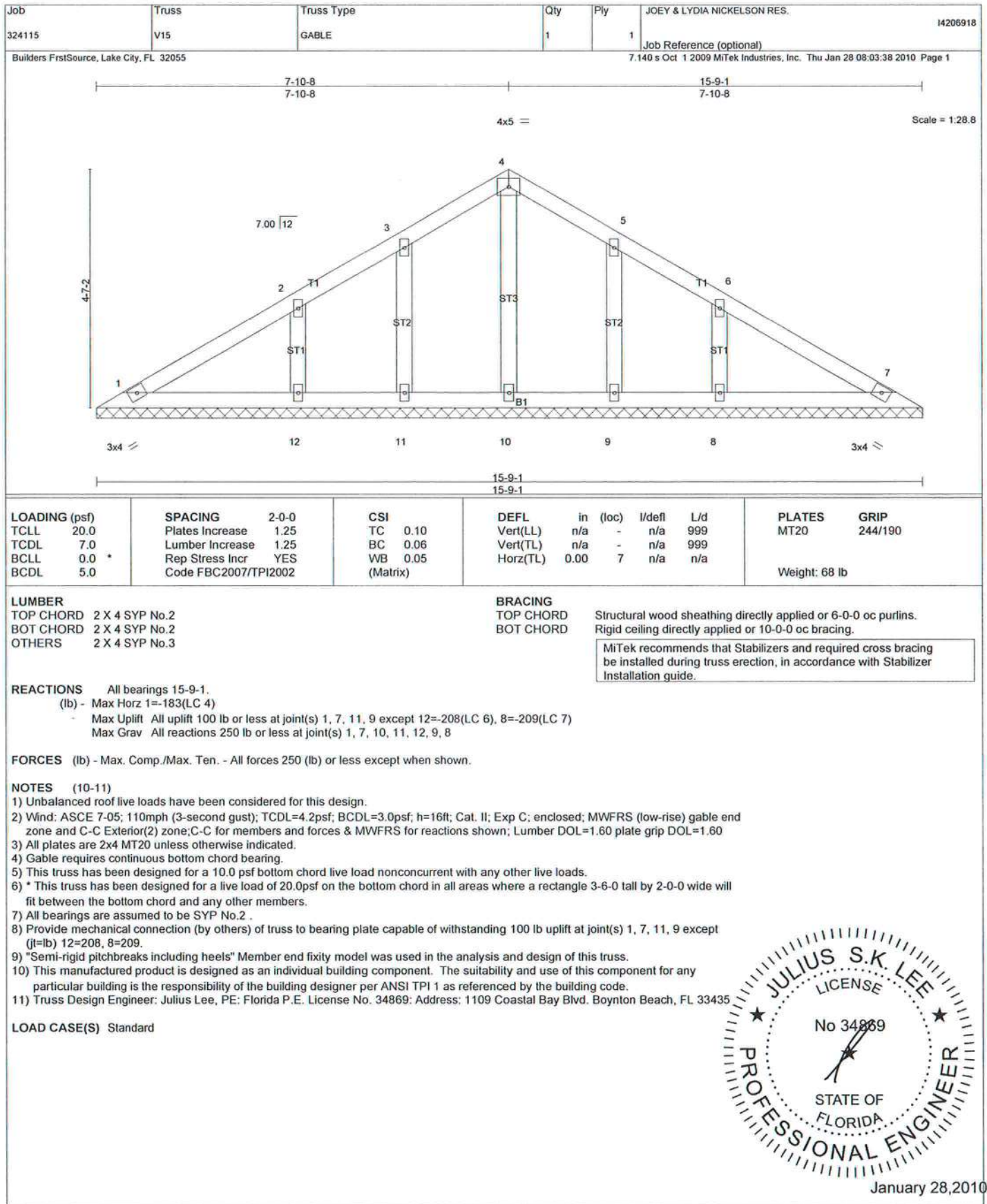
January 28, 2010



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-89 and BC511 Building Component Safety Information** available from Truss Plate Institute, 583 D'Oonofrio Drive, Madison, WI 53719.

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435



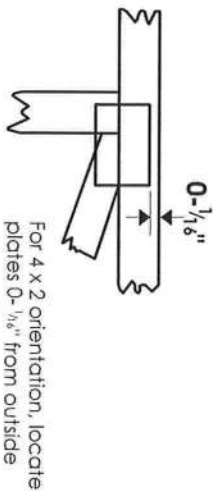
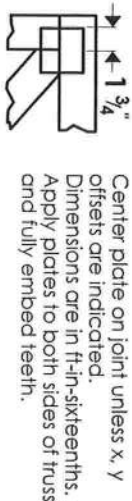
January 28, 2010

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Ondria Drive, Madison, WI 53719.

Julius Lee Engineering  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435

# Symbols

## PLATE LOCATION AND ORIENTATION



\* Plate location details available in Mitek 20/20 software or upon request.

## PLATE SIZE

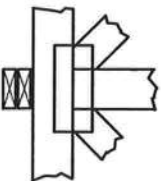
4 X 4  
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I, or Eliminator bracing if indicated.

## BEARING

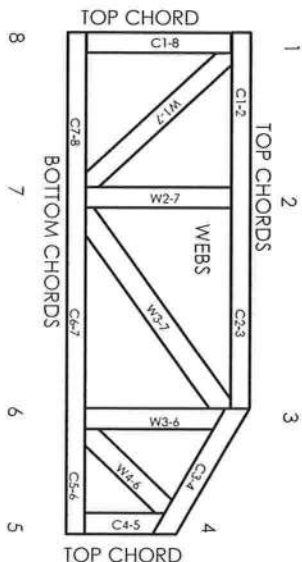


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

## Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Brocing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A  
NER-487, NER-561  
95110, 84-32, 96-67, ER-3907, 9432A

© 2006 Mitek® All Rights Reserved

Julius Lee Engineering  
1109 Coastal Bay Blvd.  
Boynton, FL 33435



# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and worn or joint locations are regulated by ANSI/TP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP11 Quality Criteria.



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

2' TYP.  
MAX

#2 HIP OR COMMON TRUSS
#1 HIP TRUSS

#1 HIP TRUSS

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED

UPLIFT: 400# or Less

UP/LIFT 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. THE

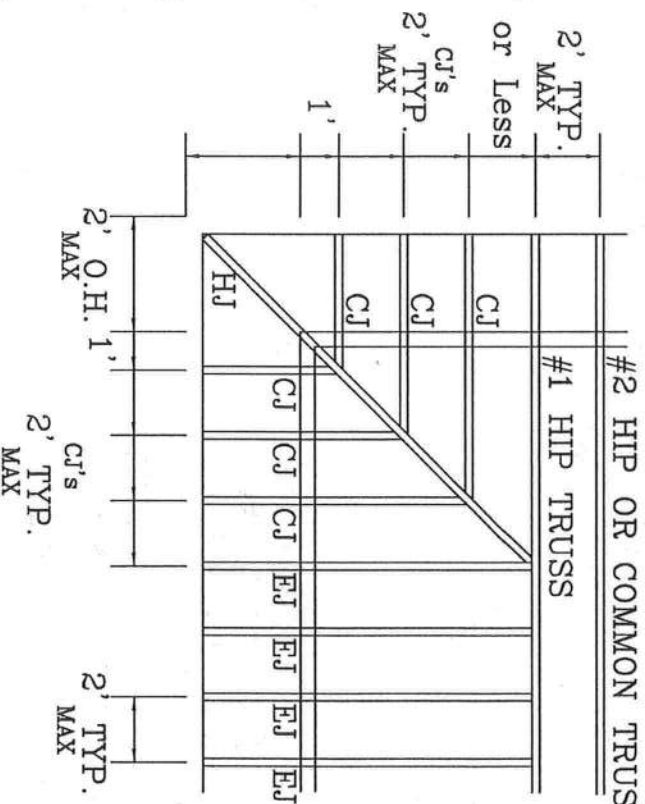
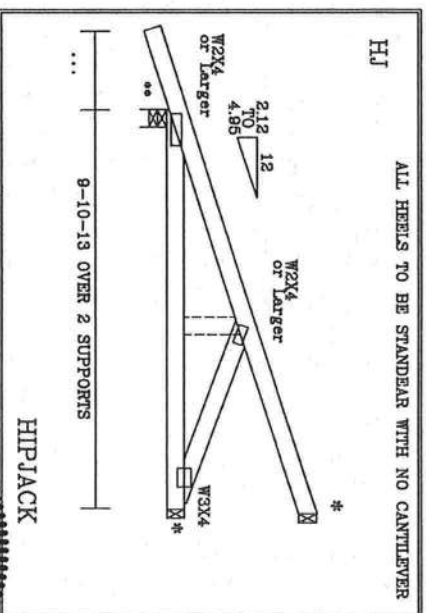
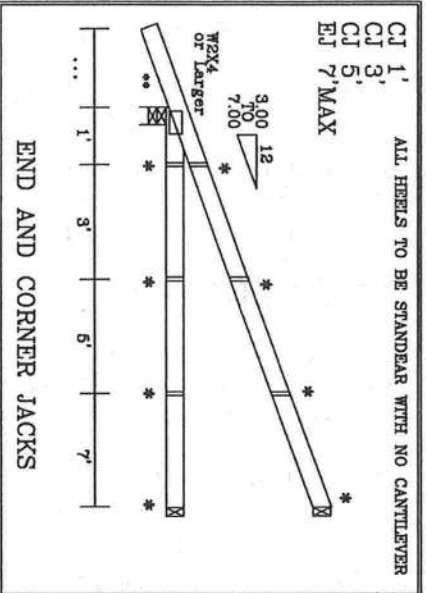
UPLIFT: 400# or Less  
BRG LOC: \*

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

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 FOR FOR THE DOWN  
 看看

UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED

BC LIVE LOAD IS NON CONCURRENT 10%

CORNER SET  
SETBACK

7'0" MAX

[illegible]

CONS. ENGINEERS, P.  
1605 ST 4th AVENUE  
BIRMINGHAM, ALA 35203  
NO. 247834-210

RAY BECHTEL  
NO. 24869

STATE OF

[illegible]

-ENG

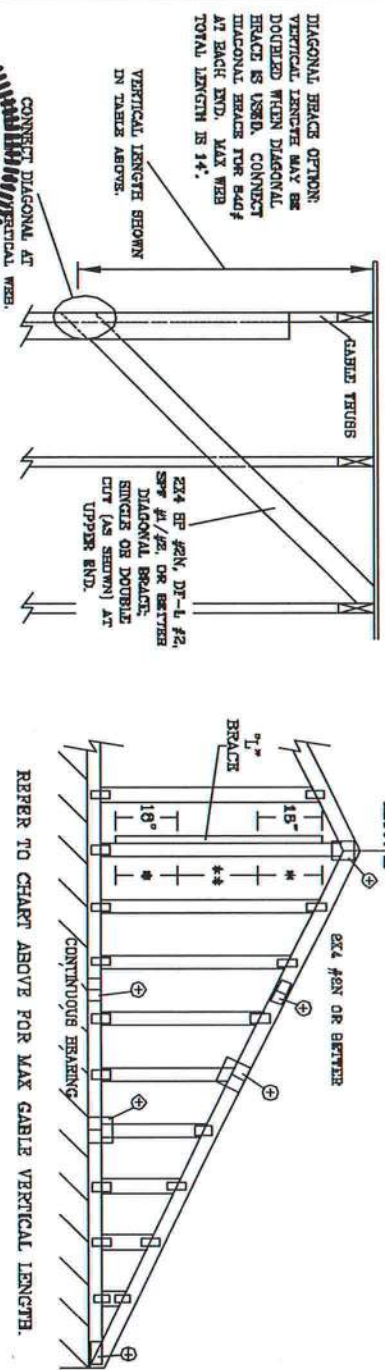
REVIEWED

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															
CABLE VERTICAL SPACING	2x4 VERTICAL SPECIES	BRACE	NO BRACES	(1) 1x4 "L" BRACE *		(1) 2x4 "L" BRACE *		(2) 2x4 "L" BRACE **		(1) 2x6 "L" BRACE *		(2) 2x6 "L" BRACE *		(2) 2x8 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF	#1 / #2	3' 4"	5' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 5"	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"	9' 3"	9' 3"	11' 8"	11' 8"	
	HF	#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"	
			STUD	3' 6"	5' 0"	6' 0"	6' 8"	6' 8"	8' 3"	8' 3"	10' 4"	10' 4"	12' 11"	13' 7"	
			#3	3' 6"	5' 0"	6' 0"	6' 7"	6' 7"	8' 3"	8' 3"	10' 3"	10' 3"	12' 11"	13' 7"	
	DFL	STUD	3' 6"	5' 0"	5' 0"	5' 8"	6' 7"	8' 3"	8' 5"	10' 3"	10' 3"	12' 11"	13' 7"		
			STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 6"	7' 6"	9' 10"	9' 10"	12' 0"	12' 0"	
			#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	12' 4"	12' 4"	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"	
16" O.C.	SPF	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"	8' 2"	8' 2"	10' 7"	10' 7"	14' 0"	14' 0"	
			#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' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
	HF	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 2"	9' 5"	9' 11"	12' 5"	12' 5"	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"	8' 4"	8' 4"	10' 10"	10' 10"	14' 0"	14' 0"	
			#1 / #2	4' 3"	7' 4"	7' 4"	8' 9"	8' 11"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"	
	SPF	STUD	4' 3"	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"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
			#1	4' 2"	6' 11"	6' 11"	7' 10"	7' 10"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"	
			#2	4' 2"	6' 11"	6' 11"	7' 10"	7' 10"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"	
DFL	STUD	4' 4"	7' 4"	7' 4"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"			
		STANDARD	4' 4"	7' 4"	7' 4"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
		#1	4' 4"	7' 4"	7' 4"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
		#2	4' 4"	7' 4"	7' 4"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
12" O.C.	SPF	STUD	4' 4"	7' 1"	7' 1"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
			STANDARD	4' 4"	7' 1"	7' 1"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
			#1	4' 4"	7' 1"	7' 1"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
			#2	4' 4"	7' 1"	7' 1"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
DFL	STUD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"			
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
		#1	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
		#2	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		



REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH.

CABLE 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"	2X6

ATTACH EACH "L" BRACE WITH 10d NAILS.  
 \* FOR (1) "L" BRACE: SPACE NAILS AT 8" 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 60% OF WEB MEMBER LENGTH.

LIVE LOAD DEPLETION COEFFICIENT IS 0.75/0.40.  
 PROVIDE UPLIFT CONNECTIONS FOR 136 PSF OVER CONTINUOUS BEARING (6 PSF TO DEAD LOAD).  
 CABLE END SUPPORTS LOAD FROM 4' 0" OUTLEAKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

CABLE TRUSS DETAIL NOTES:

GROUP A:

SOUTHERN PINE

#1

#2

GROUP B:

HEM-FIR

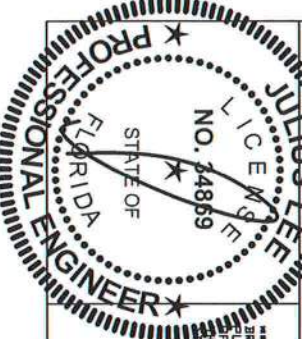
#1

#2

DOUGLAS FIR-LARCH

#1

#2



REVIEWED  
 By Julius Lee at 12:00 pm, Jun 11, 2008

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SECS 1-63 (BUILDING CONVENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 1600 BURNING WOOD DRIVE, SUITE 200, MADISON, WI 53703) AND VITA (WOOD TRUSS CONSTRUCTION, 1600 BURNING WOOD DRIVE, SUITE 200, MADISON, WI 53703) FOR ADDITIONAL INFORMATION. ALL TRUSSES SHALL BE DESIGNED TO BE USED IN ACCORDANCE WITH THE TRUSS MANUFACTURERS ASSOCIATION (TMA) STANDARD SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF WOOD TRUSSES. ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND EDGEBAND SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S  
 CONSULTING ENGINEERS P.A.  
 1455 SW 4th Avenue  
 Delray Beach, FL 33444-2161

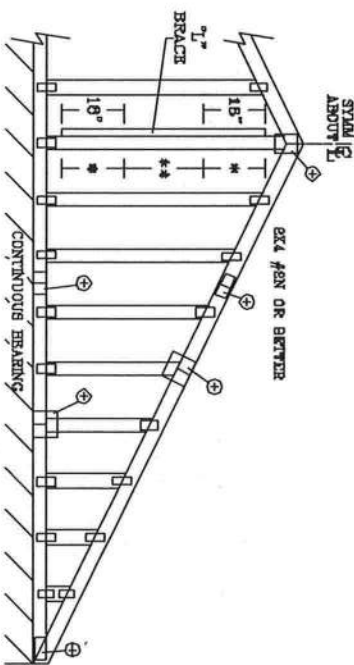
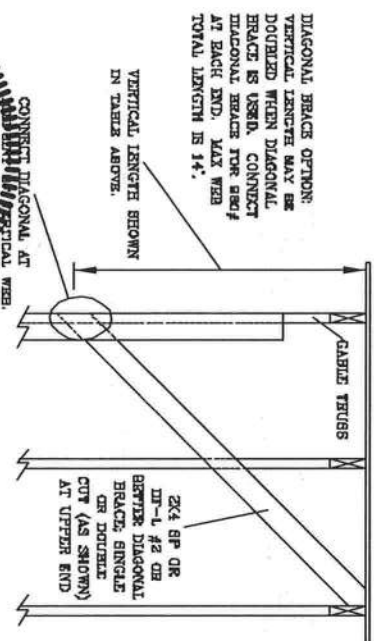
No. 34869  
 STATE OF FLORIDA

MAX. TOT. LD. 60 PSF  
 MAX. SPACING 24.0"

REF ASCE 7-02-CHB13045  
 DATE 11/26/03  
 DRWG MTRK STD CABLE 16 E BT  
 -ENG



MAX GABLE VERTICAL LENGTH																						
2x4 GABLE VERTICAL SPECIES	BRACE	NO BRACES	(1) 1X4 "L" BRACE *				(1) 2X4 "L" BRACE *				(2) 2X4 "L" BRACE **				(1) 2X6 "L" BRACE *				(2) 2X8 "L" BRACE *			
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B				
24" O.C.	SPF	#1 / #2	3' 2"	5' 6"	6' 5"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"									
			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' 6"	4' 6"	5' 10"	6' 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	#1	3' 6"	5' 6"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"								
	#2		3' 6"	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' 3"									
	DFL	STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 3"									
			STANDARD	3' 0"	3' 10"	3' 10"	6' 1"	6' 1"	8' 11"	8' 11"	8' 0"	8' 0"	10' 10"	10' 10"								
		SPF	#1 / #2	3' 8"	6' 4"	6' 4"	7' 6"	7' 8"	7' 8"	9' 2"	11' 6"	12' 1"	14' 0"	14' 0"								
STUD			3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"									
STANDARD			3' 7"	5' 6"	5' 6"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"									
16" O.C.	SPF	#1	4' 0"	8' 4"	8' 4"	8' 10"	7' 8"	6' 1"	8' 11"	8' 7"	11' 9"	12' 8"	14' 0"	14' 0"								
			STUD	3' 7"	4' 6"	4' 6"	8' 5"	8' 2"	6' 8"	8' 3"	6' 3"	9' 7"	8' 7"	12' 11"	12' 11"							
		SP	#2	3' 11"	6' 4"	6' 4"	8' 10"	7' 6"	8' 1"	8' 11"	8' 7"	11' 9"	12' 8"	14' 0"	14' 0"							
			STUD	3' 8"	5' 6"	5' 6"	6' 7"	7' 3"	7' 3"	8' 11"	8' 5"	11' 4"	11' 4"	14' 0"	14' 0"							
			STANDARD	3' 8"	4' 9"	4' 9"	6' 7"	7' 3"	7' 3"	8' 5"	8' 5"	9' 8"	9' 8"	13' 3"	13' 3"							
	DFL	#1 / #2	4' 0"	6' 11"	6' 11"	7' 2"	8' 3"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	13' 4"	14' 0"	14' 0"							
			STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"							
		HF	STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	8' 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"								
			#1	4' 5"	6' 11"	6' 11"	7' 6"	8' 3"	8' 3"	8' 11"	8' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"						
12" O.C.	SP	#2	4' 4"	6' 11"	6' 11"	7' 6"	8' 3"	8' 3"	8' 11"	13' 11"	13' 11"	14' 0"	14' 0"									
		#3	4' 2"																			



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH

BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPRUCE-PINE-TIR	RED-PTR
#1 / #2	#12
STANDARD	STUD
#3	#13
STUD	STANDARD
DOUGLAS FIR-LARGE	
#2	#23
STUD	STUD
STANDARD	STANDARD
GROUP B:	
KID-PTR	
#1 & BITE	
#1	
DOUGLAS FIR-LARGE	
#1	
#2	

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF VC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4' 0"

OUTDOCKERS WITH 2' 0" OVERHANG, OR 12" PLAYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

\* FOR (1) 7" BRACE, SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES

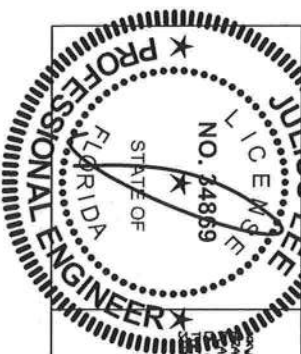
\*\* FOR (2) "L" BRACKETS: SPACE NAILS AT 3" O.C.  
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES

7. BRACING MUST BE A MINIMUM OF 80% OF WEB

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO BRIDGE
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  
PLATE, STUD, AND BEEL PLATES.

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



MANUFACTURER'S REQUIRE EXTREME CARE IN FABRICATING, HANDLING, STORING, INSTALLING AND MAINTAINING. REFER TO BOST-1403 OUTLINED COMPONENT SAFETY INFORMATION, PUBLISHED BY THE STEEL RESEARCH INSTITUTE, 383 DUNDAS ST. W., SUITE 200, MISSISSAUGA, ONT. L4V 1N3 AND AISC (AISC TRUSS COUNCIL OF AMERICA), 6600 ROCKVIEW AVE., MOISTEN, VA 53179 FOR SHEET 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 ROOF CEILING.

REVIEWED

By Julius Lee at 12:00 pm, Jun 11, 2008

**JULIUS LEE'S**  
CONS ENGINEERS P.A.

DELBAY BEACH, FL. 33444-2161

No: 34869  
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

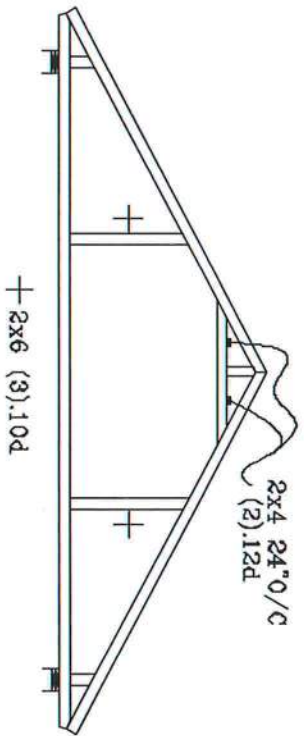
REF ASST-02-CAB13030

DATE 11/26/03

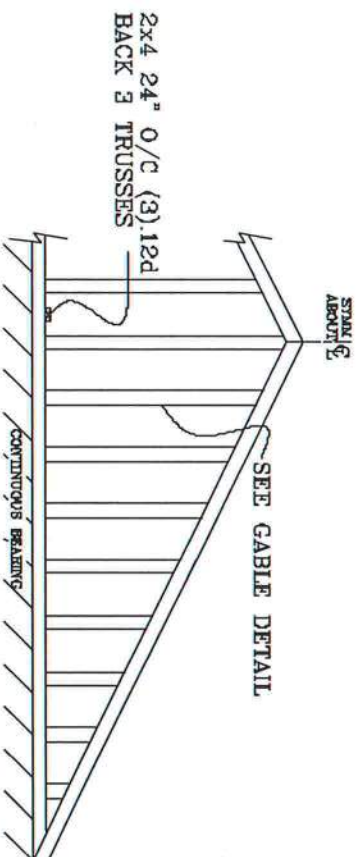
DWG. KITEK STD GABLE 30' E. N7

—ENG

# TYPICAL ATTIC TRUSS BRACING

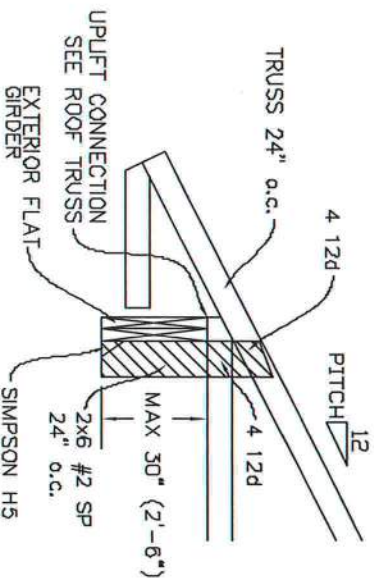


# GABLE END TRUSS DETAIL

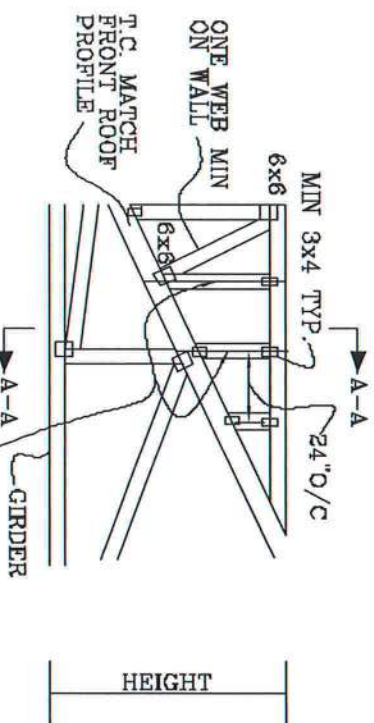


MINIMUM BR BRACING ON GABLE TRUSSES. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

# TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

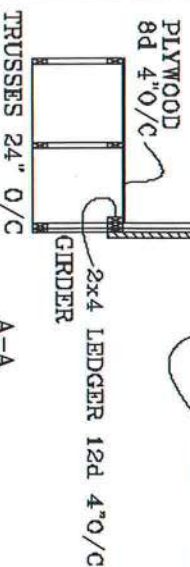


# TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT. ROOF 24" O/C

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL

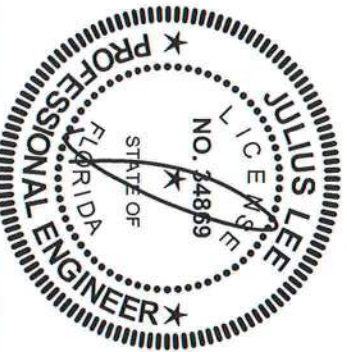


JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1455 SW 4th AVENUE  
DIKRAY BEACH, FL 33444-2601

No: 34869  
STATE OF FLORIDA

REVIEWED

By Julius Lee at 11:59 am, Jun 11, 2008



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

# PIGGYBACK DETAIL

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 SPICE 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.

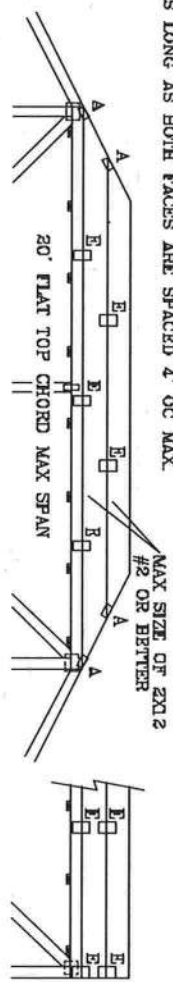
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

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 1, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF  
110 MPH WIND, 30' MEAN HGT, PBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF  
WIND TC DL=5 PSF, WIND BC DL=5 PSF

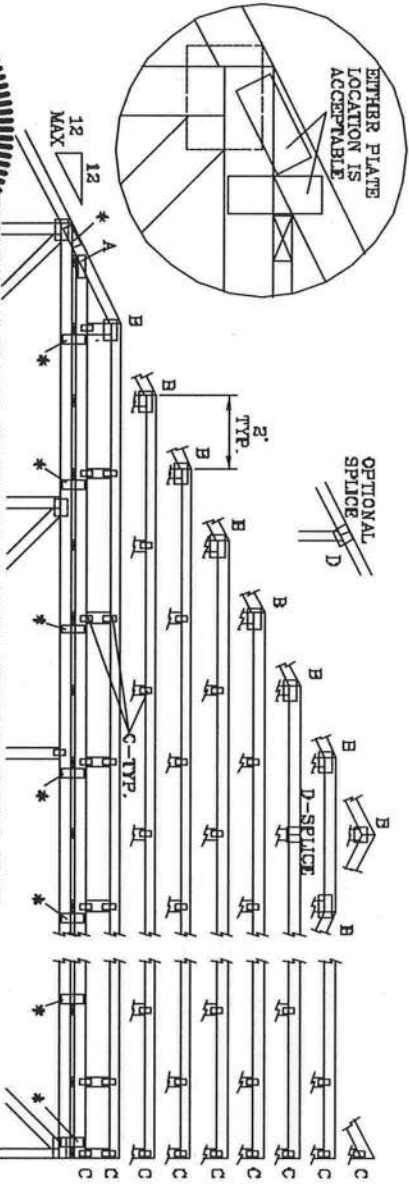
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF

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



EITHER PLATE LOCATION IS ACCEPTABLE

OPTIONAL SPICE



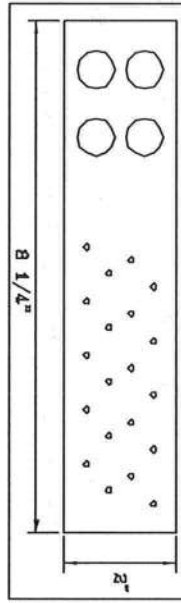
THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X8 OR 3X8 TRUSS AT 4' OC, ROTATED VERTICALLY			

ATTACH TRUSS 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 TRUSS INFORMATION.

WEB LENGTH	WEB BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "n" 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.



**JULIUS LEE'S**  
CONS. ENGINEERS P.A.  
1400 SW 4th AVENUE  
ORLANDO, FL 32801-2161

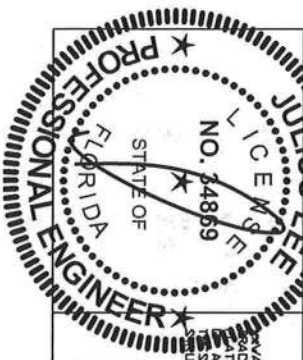
MAX LOADING

65 PSF AT  
1.33 DUR. FAC.  
50 PSF AT  
1.25 DUR. FAC.  
47 PSF AT  
1.15 DUR. FAC.

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

No. 34868  
STATE OF FLORIDA

SPACING 24.0"



**REVIEWED**  
By Julius Lee at 11:59 am, Jun 11, 2008



# 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=6 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".

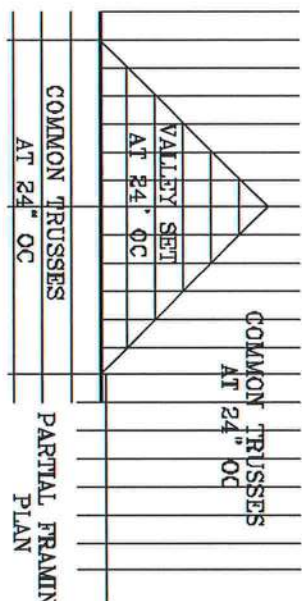
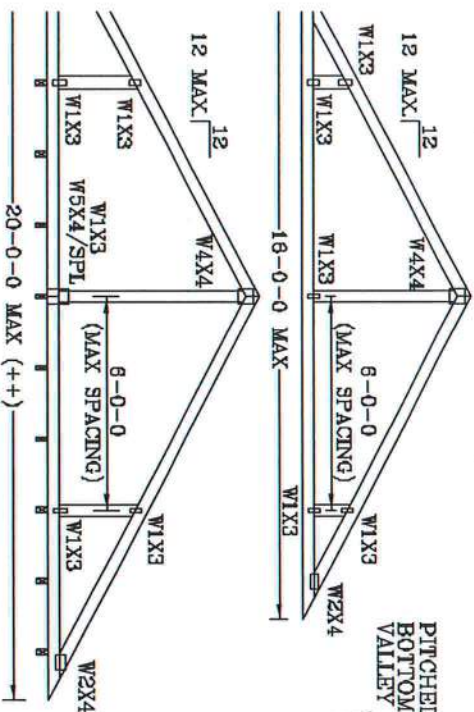
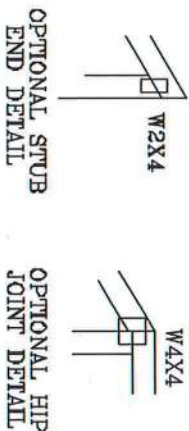
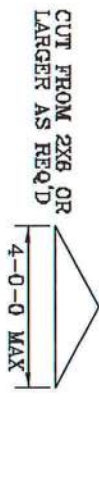
TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:  
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS  
INSTALLATION

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.



THIS DRAWING REPLACES DRAWING A105

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".

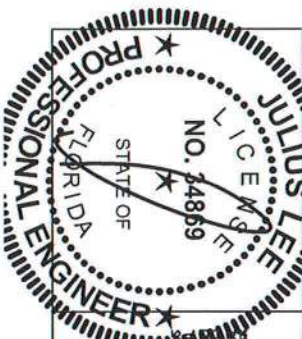
JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1455 SW 4th AVENUE  
DEALY BRICK, FL 33444-8101

TC IL	20	20	PSF	REF	VALLEY DETAIL
TC DL	7	15	PSF	DATE	11/26/03
BC DL	5	5	PSF	DRWG	VALTRUSS1103
BC IL	0	0	PSF	-ENG	JL
TOT. LD.	32	40	PSF		

REVIEWED  
By Julius Lee at 11:59 am, Jun 11, 2008

No. 34868  
STATE OF FLORIDA

DURFAC 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."

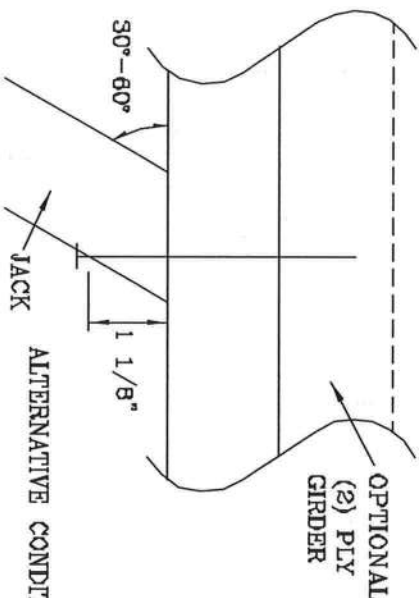
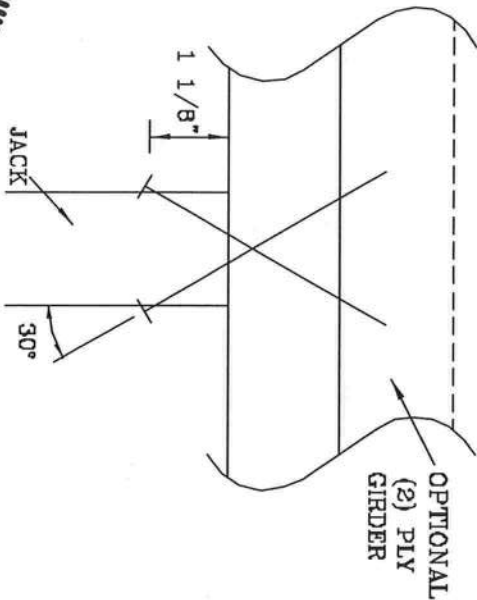
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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

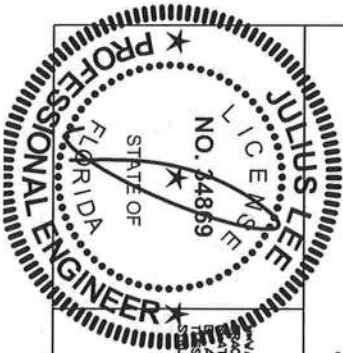
NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

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



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTION. REFER TO BEST PRACTICES FOR TRUSS COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS ASSOCIATION, 588 PINEHURST DR., SUITE 200, NATION, VA 22091 AND AISC (WOOD TRUSS DESIGN) FOR TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL REMAIN UNALTERED IN ORDER TO MAINTAIN THE ORIGINAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIBBON CEILING.

REVIEWED  
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S  
CONS. ENGINEERS P.A.

1409 SW 4TH AVENUE  
DELRAY BEACH, FL 33444-2161

No. 34869  
STATE OF FLORIDA

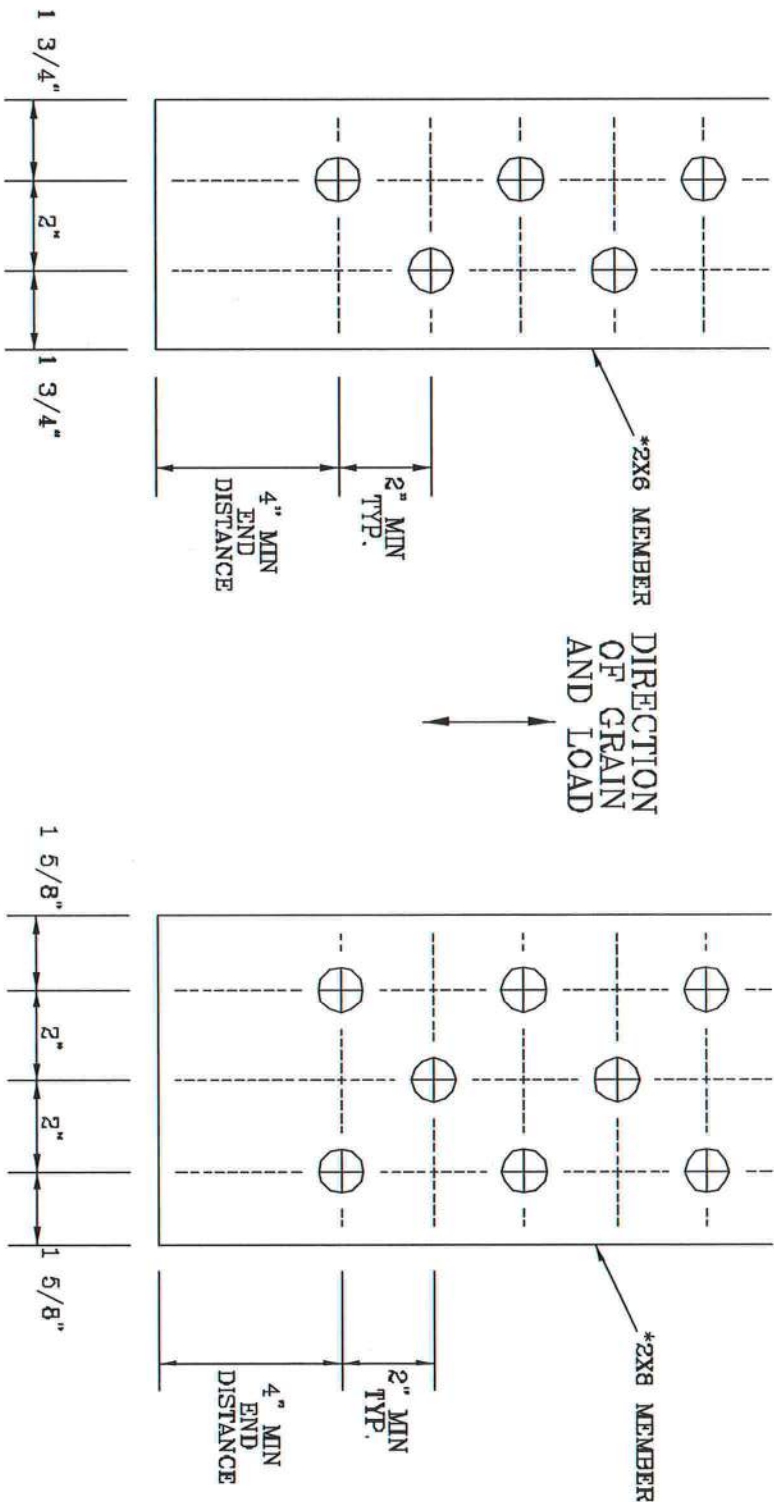
TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



# 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.

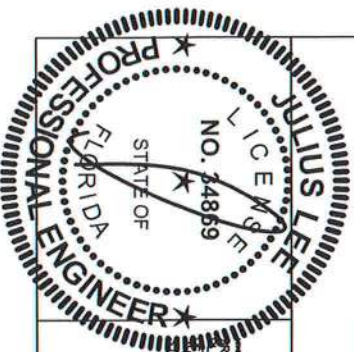
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.  
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A0628.016



VARIOUS TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO POST-1-90 GUIDELINE COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS ASSOCIATION, 1000 W. 10TH AVE., SUITE 200, GAINESVILLE, FL 32609. ALL PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, THE OWNER 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.

1400 97 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	CNBOLTP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

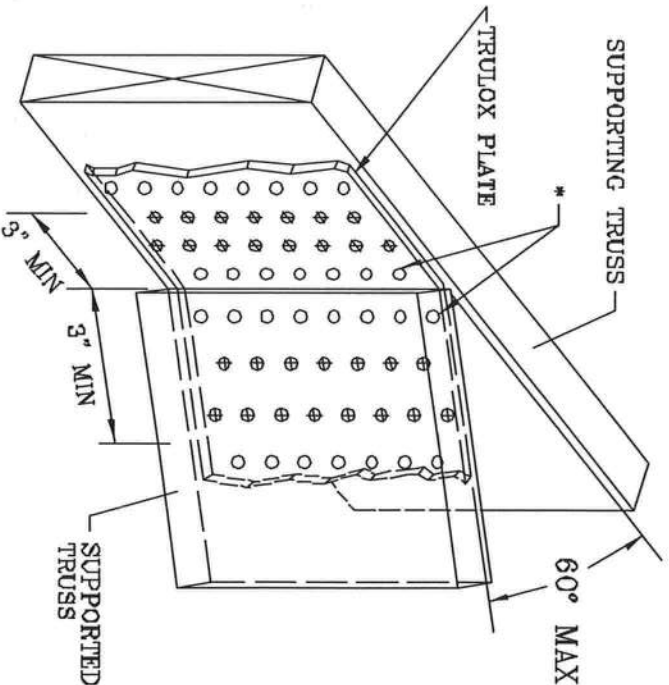
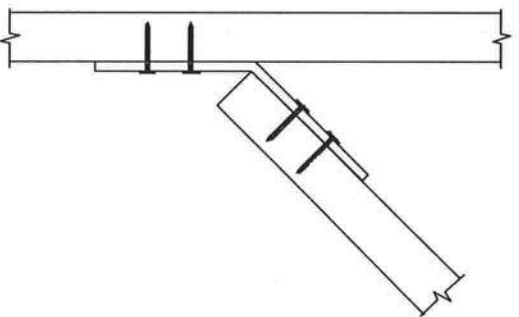
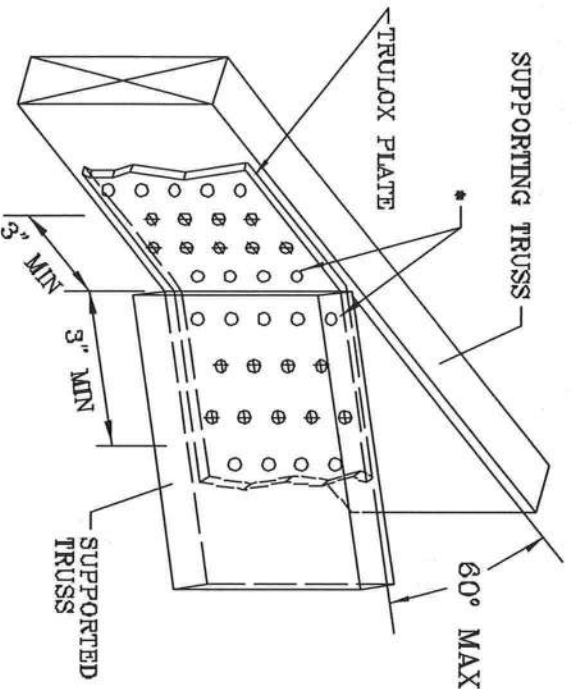
# TRULOX CONNECTION DETAIL

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

\* 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.



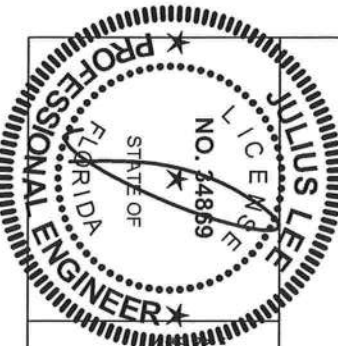
MINIMUM 3X6 TRULOX PLATE

MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	16	990#

REVIEWED  
By Julius Lee at 11:58 am, Jun 11, 2008

THIS DRAWING REPLACES DRAWINGS 1,158,889 1,158,988/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 SE31-1-03 (BUILDING DEPARTMENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS ASSOCIATION, 3861 PONDVIEW DR., SUITE 800, MARIETTA, GA 30067) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. OTHER THAN INDICATED, TRUSSES SHALL HAVE PROTECTIVE ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROTECTIVE ATTACHED ROOF CEILING.

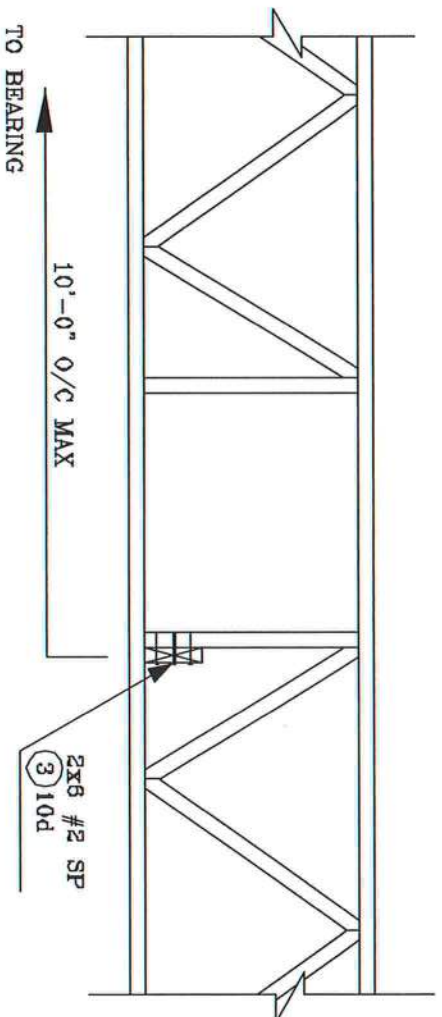
JULIUS LEE'S  
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE  
DELRAY BEACH, FL 33444-2181

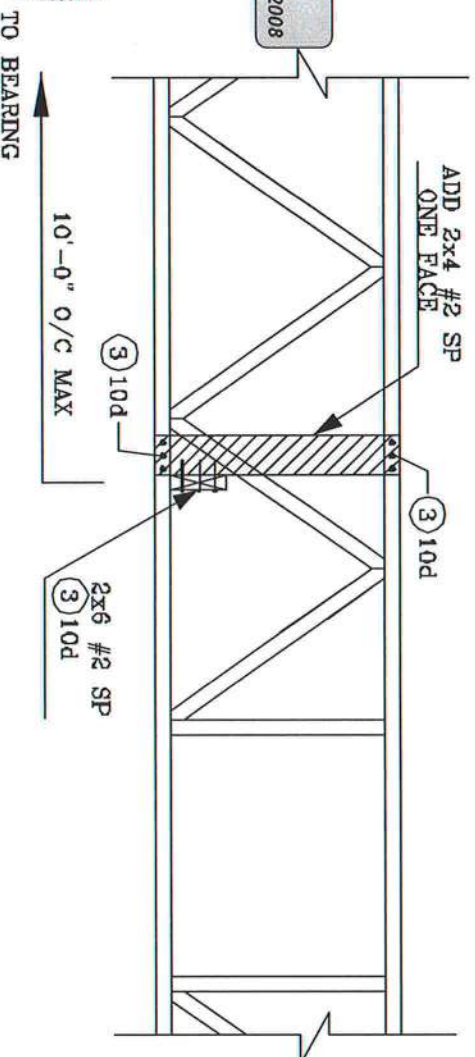
NO: 34869  
STATE OF FLORIDA

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

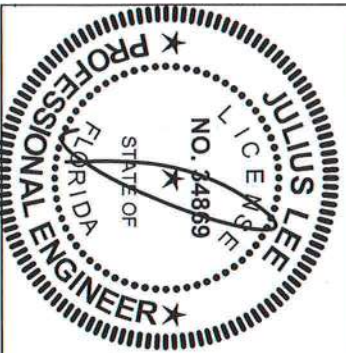
# STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



## ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



**REVIEWED**  
By Julius Lee at 11:58 am, Jun 11, 2008






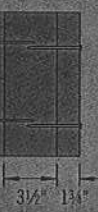

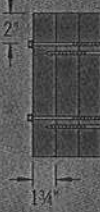
**JULIUS LEE'S**  
CONS. ENGINEERS P.A.  
1455 SW 42ND AVENUE  
DELRAY BEACH, FL 33444-2061

No. 34869  
STATE OF FLORIDA



# MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

## Maximum Uniform Load Applied to Either Outside Member (PLF)

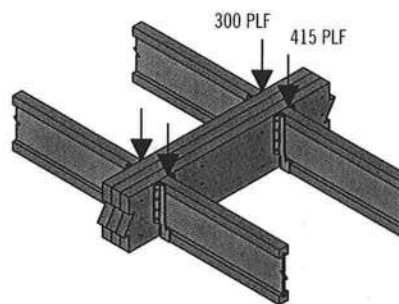
Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
								
			3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail <sup>(1)</sup>	2	12"	370	<b>280</b>	280	<b>245</b>		
	3	12"	555	<b>415</b>	415	<b>370</b>		
1/2" A307 Through Bolts <sup>(2)(4)</sup>	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 1/4" x 3 1/2" <sup>(4)</sup>	2	24"	680	<b>510</b>	510	<b>455</b>		
		19.2"	850	<b>640</b>	640	<b>565</b>		
		16"	1,020	<b>765</b>	765	<b>680</b>		
SDS 1/4" x 6" <sup>(3)(4)</sup>	2	24"				<b>455</b>	<b>465</b>	<b>455</b>
		19.2"				<b>565</b>	<b>580</b>	<b>565</b>
		16"				<b>680</b>	<b>695</b>	<b>680</b>
USP WS35 <sup>(4)</sup>	2	24"	480	<b>360</b>	360	<b>320</b>		
		19.2"	600	<b>450</b>	450	<b>400</b>		
		16"	715	<b>540</b>	540	<b>480</b>		
USP WS6 <sup>(3)(4)</sup>	2	24"				<b>350</b>	<b>525</b>	<b>350</b>
		19.2"				<b>440</b>	<b>660</b>	<b>440</b>
		16"				<b>525</b>	<b>790</b>	<b>525</b>
3 3/8" TrussLok <sup>(4)</sup>	2	24"	635	<b>475</b>	475	<b>425</b>		
		19.2"	795	<b>595</b>	595	<b>530</b>		
		16"	955	<b>715</b>	715	<b>635</b>		
5" TrussLok <sup>(4)</sup>	2	24"		<b>500</b>	500	<b>445</b>	<b>480</b>	<b>445</b>
		19.2"		<b>625</b>	625	<b>555</b>	<b>600</b>	<b>555</b>
		16"		<b>750</b>	750	<b>665</b>	<b>725</b>	<b>665</b>
6 3/4" TrussLok <sup>(4)</sup>	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 1/16" 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 1/2 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 1 3/4" 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 1/2" bolts or SDS 1/4" x 3 1/2" 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
		3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 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 1/4" x 3 1/4" or WS35 1/4" x 6" or WS6 <sup>(1)</sup>	4	1,915	1,435 <sup>(4)</sup>	1,435	1,275	1,860 <sup>(2)</sup>	1,405 <sup>(2)</sup>
	6	2,870	2,150 <sup>(4)</sup>	2,150	1,915	2,785 <sup>(2)</sup>	2,110 <sup>(2)</sup>
	8	3,825	2,870 <sup>(4)</sup>	2,870	2,550	3,715 <sup>(2)</sup>	2,810 <sup>(2)</sup>
3 3/4" or 5" TrussLok™	4	2,545	1,910 <sup>(4)</sup>	1,910	1,695	1,925 <sup>(2)</sup>	1,775 <sup>(3)</sup>
	6	3,815	2,860 <sup>(4)</sup>	2,860	2,545	2,890 <sup>(3)</sup>	2,665 <sup>(3)</sup>
	8	5,090	3,815 <sup>(4)</sup>	3,815	3,390	3,855 <sup>(3)</sup>	3,550 <sup>(3)</sup>

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

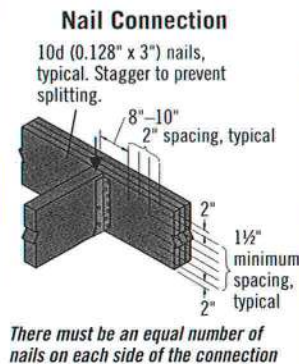
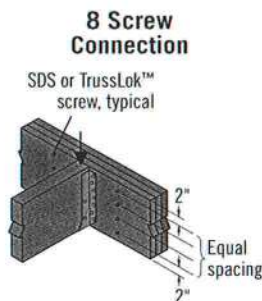
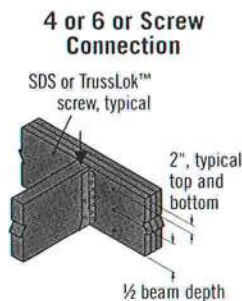
(2) 6" long screws required.

(3) 5" long screws required.

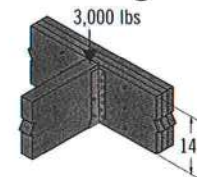
(4) 3 1/2" and 3 3/4" long screws must be installed on both sides.

See General Notes on page 38

## Connections



## Point Load Design Example



First, verify that a 3-ply 1 3/4" 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 1 3/4" assembly, eight 3 3/4" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

# MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

## 1 3/4" 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 3 3/4" 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 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

## 3 1/2" 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 1/2 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 1/2" bolts at 24" on-center staggered.

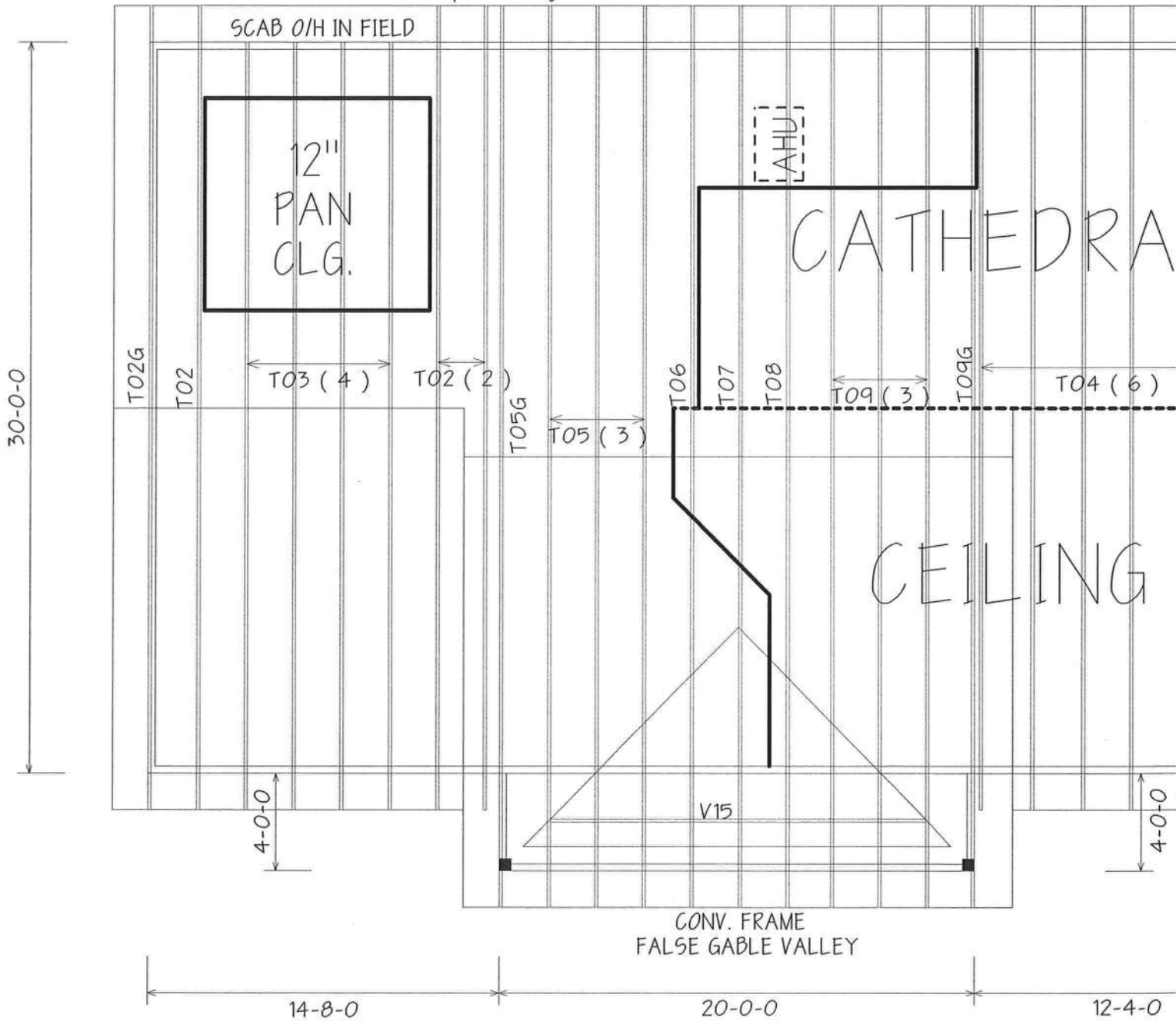


Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

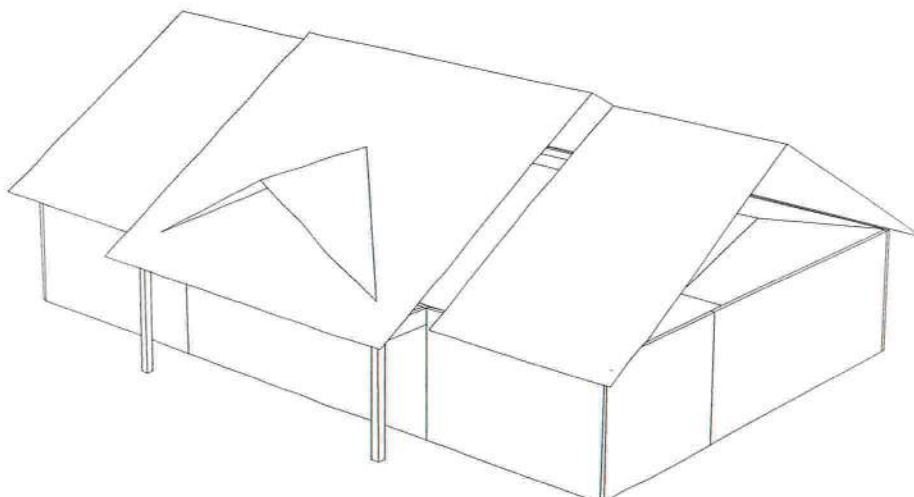


47-0-0

T08 - Left Filler Out to give more room for AHU Duct.  
If odd spaced you would need to add 2 more trusses.



7/12 PITCH  
1'-6" O/H



BEARING HEIGHT SCHEDULE

  8'-1 1/8"

NOTES:

- 1) REFER TO HD 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: \_\_\_\_\_



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:

JOEY & LYDIA NICKELSON

LEGAL ADDRESS:

MODEL: CUSTOM

REVISION: SCALE: NTS

DATE: 1-25-10

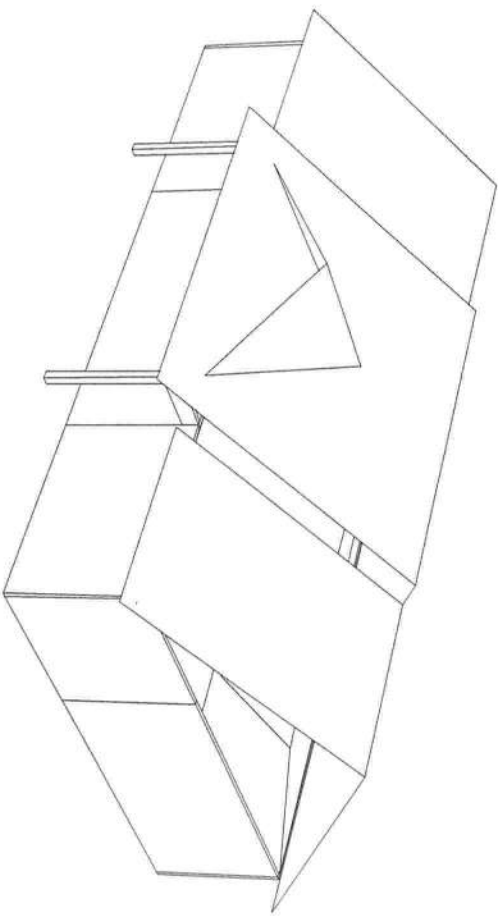
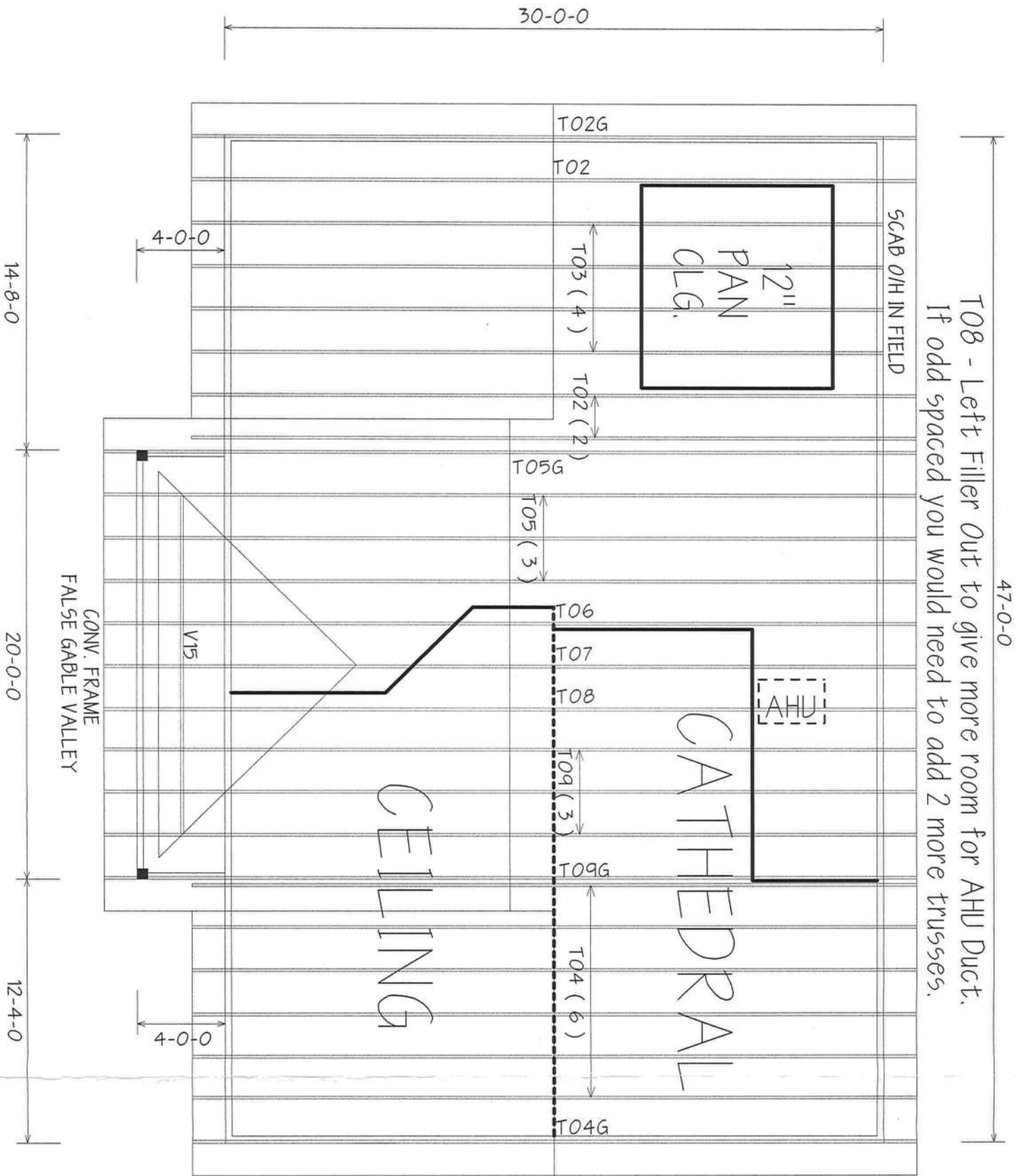
DRAWN BY: K.L.H.

JOB #: 324115

BEARING HEIGHT SCHEDULE

8'-1 1/8"

T08 - Left Filler Out to give more room for AHU Duct.  
If odd spaced you would need to add 2 more trusses.



NOTES:

- 1) REFER TO SUP. RECOMMENDATIONS FOR HANGING 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 V09 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) S/Y42 TRUSSES MUST BE INSTALLED WITH THE TOP BEARING UP.
- 7) ALL ROOF TRUSSES HANGERS TO BE SIMPSON HT1026 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSSES HANGERS TO BE SIMPSON TH4422 UNLESS OTHERWISE NOTED.
- 8) BEAMHANGER/INTEL. (HQR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND V009. 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.

Engineered Drawing Date: \_\_\_\_\_

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Bunnell

Jacksonville

PHONE: 904-437-3349 FAX: 904-437-3494

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

Lake City

PHONE: 386-755-6894 FAX: 386-755-7973

Sanford

PHONE: 407-322-0094 FAX: 407-322-9553

BUILDER:

JOEY & LYDIA NICKELSON

TEAL ADDRESS:

MODEL: CUSTOM

REVISION: NTS

DATE: 1-25-10

DESIGNED BY: K.L.H.

324115

