

DATE 03/10/2009

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

PERMIT
000027676

APPLICANT PAUL SHORT PHONE 386 965-5707
ADDRESS 108 SW BURNETT LANE LAKE CITY FL 32024
OWNER PAUL C.SHORT PHONE 386 965-5707
ADDRESS 108 SW BURNETT LANE LAKE CITY FL 32024
CONTRACTOR OWNER BUILDER PHONE
LOCATION OF PROPERTY 47S, TL CR242,TL ON YOLANDA WAY,TL ON BURNETT LN,2ND LOT
ON RIGHT,(LOT ON RIGHT CORNER AT STOP SIGN)
TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 44600.00
HEATED FLOOR AREA 446.00 TOTAL AREA 892.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 3/12 FLOOR SLAB
LAND USE & ZONING RSF-2 MAX. HEIGHT 20
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 25-4S-16-03125-015 SUBDIVISION COUNTRY ACRES
LOT 7 BLOCK PHASE UNIT TOTAL ACRES 1.13

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 08-774 BK WR N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE

Check # or Cash 2041

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 225.00 CERTIFICATION FEE \$ 4.46 SURCHARGE FEE \$ 4.46
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 308.92
INSPECTORS OFFICE CLERKS OFFICE

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

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

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.

BOARD OF COUNTY COMMISSIONERS
OFFICE OF
BUILDING & ZONING
COLUMBIA COUNTY, FLORIDA

BUILDING PERMIT RECEIPT

RECEIPT NUMBER / PERMIT NUMBER 000028495 DATE 04/16/2010

APPLICANT PAUL SHORT

OWNER PAUL C.SHORT

CONTRACTOR OWNER BUILDER

PARCEL ID NUMBER 25-4S-16-03125-015 NUMBER OF EXISTING DWELLINGS 1

TYPE OF DEVELOPMENT RE-ISSUE ADD./27676

COMMENTS: _____

FEES:

BUILDING PERMIT 0.00 CERTIFICATION FEE 0.00

ZONING FEE _____ SURCHARGE FEE 0.00

FLOOD ZONE FEE _____ FLOOD DEVELOPMENT PERMIT _____

MOBILE HOME PERMIT _____ RELOCATION PERMIT _____

TRAVEL TRAILER PERMIT _____ RE-ISSUE PERMIT 112.50

UTILITY POLE PERMIT _____ WASTE ASSESSMENT FEE _____

FIRE FEE (5 ACRES OR LESS) _____ CULVERT PERMIT _____

FIRE FEE (MORE THAN 5 ACRES) _____

CHECK NUMBER **TOTAL FEES CHARGES** **112.50**

MAKE CHECKS PAYABLE TO: BCC (Board of County Commissioners)

NOTE: A SEPARATE CHECK IS REQUIRED FOR THE CULVERT WAIVER PERMITS

135 NE HERNANDO AVE.
SUITE B-21
LAKE CITY, FL 32055
Phone: 386-758-1008
Fax: 386-758-2160



Columbia County Building Permit Application

For Office Use Only Application # 0902-33 Date Received 2-24-09 By CH Permit # 27676
 Zoning Official BLK Date 09.03.09 Flood Zone X Land Use RES. Low Density Zoning RSF-2
 FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner WLD Date 3/4/09

Comments _____
☒ 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 NA - Addition to Existing STD

Septic Permit No. 08-0774E Fax _____

Name Authorized Person Signing Permit Paul Short Phone 755-8621

Address 108 SW Burnett Ln Lake City FL 32024

Owners Name Paul C Short Phone 755-8621

911 Address 108 SW Burnett Ln Lake City, FL 32024

Contractors Name owner/builder Phone _____

Address same as above

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Christian C Steputa, P.E. 1523 N.W. 16th Ave Gainesville, FL 32605

Mortgage Lenders Name & Address Citi Mortgage, Inc. P.O. Box 6006 The Lake, N.V. 88901-6006

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

Property ID Number 25-45-16-08125-015HX Estimated Cost of Construction 30,000

Subdivision Name Country Acres Lot 7 Block _____ Unit _____ Phase _____

Driving Directions South on St Rd 47 to 242 Rt on 242 go about 1 mile to

Golanda Way turn left go to stop sign left @ sign property on corner of

Number of Existing Dwellings on Property 1

Construction of Addition to existing house Total Acreage 1.130 Lot Size 1.130 AK

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 20'

Actual Distance of Structure from Property Lines - Front 98' N Side 152' W Side 30' E Rear 300' App

Number of Stories 2 Heated Floor Area 446 Total Floor Area 892 Roof Pitch 3/12

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.

left message 3/9/09

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 hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.


 Owners Signature

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.

 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 _____

 State of Florida Notary Signature (For the Contractor)

SEAL:



COLUMBIA COUNTY BUILDING DEPARTMENT

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

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

NOTARIZED DISCLOSURE STATEMENT

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

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

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

TYPE OF CONSTRUCTION

() Single Family Dwelling

(X) Other Addition

() Two-Family Residence

() Farm Outbuilding

() Addition, Alteration, Modification or other Improvement

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

Paul C. Short
Owner Builder Signature

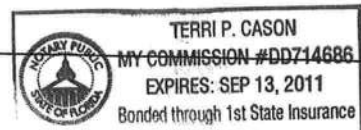
Date

FLORIDA NOTARY

The above signer is personally known to me or produced identification _____

Notary Signature Terri P. Cason

Date 2-23-09



FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7). Date _____ Building Official/Representative _____

Columbia County Property Appraiser

DB Last Updated: 10/21/2008

Attachment A

2008 Certified Values

Tax Record

Property Card

Interactive GIS Map

Print

Parcel: 25-4S-16-03125-015 HX

Search Result: 1 of 1

Owner & Property Info

| | | | |
|-------------------------|---|---------------------|----|
| Owner's Name | SHORT PAUL C & SHARON M | | |
| Site Address | BURNETT | | |
| Mailing Address | 108 SW BURNETT LN LAKE CITY, FL 32024 | | |
| Use Desc. (code) | SINGLE FAM (000100) | | |
| Neighborhood | 25416.00 | Tax District | 2 |
| UD Codes | MKTA06 | Market Area | 06 |
| Total Land Area | 1.130 ACRES | | |
| Description | COMM NW COR OF SW1/4 OF NW1/4, RUN N 57 DEG E 32.14 FT, E 209.23 FT, S 3.10 FT, E 400.10 FT TO W R/W OF A CO RD, S ALONG R/W 274.78 FT TO S R/W BURNETT CIR, RUN E ALONG R/W 83 FT FOR POB, CONT E 122 FT, S 424.46 FT, W 110.96 FT, N 424.06 FT TO POB. ORB 713-694, 749-2375, 795-466 | | |

GIS Aerial



Property & Assessment Values

| | | |
|------------------------------|----------|-------------|
| Mkt Land Value | cnt: (1) | \$18,034.00 |
| Ag Land Value | cnt: (0) | \$0.00 |
| Building Value | cnt: (1) | \$54,642.00 |
| XFOB Value | cnt: (0) | \$0.00 |
| Total Appraised Value | | \$72,676.00 |

| | |
|----------------------------|------------------------|
| Just Value | \$72,676.00 |
| Class Value | \$0.00 |
| Assessed Value | \$50,375.00 |
| Exempt Value | (code: HX) \$25,375.00 |
| Total Taxable Value | \$25,000.00 |

Sales History

| Sale Date | Book/Page | Inst. Type | Sale Vlmp | Sale Qual | Sale RCode | Sale Price |
|------------|-----------|------------|-----------|-----------|------------|------------|
| 12/17/1990 | 749/2375 | PR | I | U | 11 | \$0.00 |
| 12/1/1986 | 609/493 | WD | V | Q | | \$7,500.00 |
| 8/1/1985 | 570/628 | WD | V | U | 01 | \$3,500.00 |

Building Characteristics

| Bldg Item | Bldg Desc | Year Blt | Ext. Walls | Heated S.F. | Actual S.F. | Bldg Value |
|---|---------------------|----------|-----------------|-------------|-------------|-------------|
| 1 | SINGLE FAM (000100) | 1988 | Vinyl Side (31) | 1200 | 1352 | \$54,642.00 |
| Note: All S.F. calculations are based on exterior building dimensions. | | | | | | |

Extra Features & Out Buildings

| Code | Desc | Year Blt | Value | Units | Dims | Condition (% Good) |
|------|------|----------|-------|-------|------|--------------------|
| NONE | | | | | | |

Land Breakdown

| Lnd Code | Desc | Units | Adjustments | Eff Rate | Lnd Value |
|----------|-----------|----------|---------------------|-------------|-------------|
| 000100 | SFR (MKT) | 1.130 AC | 1.00/1.00/1.00/1.00 | \$15,960.00 | \$18,034.00 |

Columbia County Property Appraiser

DB Last Updated: 10/21/2008



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

PERMIT NO. 90514
DATE PAID: 12/16/08
FEE PAID: 125.00
RECEIPT #: 1085751

APPLICATION FOR:

[] New System [X] Existing System [] Holding Tank [] Innovative
[] Repair [X] Abandonment [] Temporary []

APPLICANT: Paul C. Short

AGENT: 108 S.W. Burnett Ln.

TELEPHONE: 306-755-8621

MAILING ADDRESS: 108 S.W. Burnett Ln.
Lake City, FL 32024

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.

PROPERTY INFORMATION

LOT: 7 BLOCK: N/A SUBDIVISION: Country Acres PLATTED: _____

PROPERTY ID #: 25-45-16-03125-015 ZONING: gen I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 1.130 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [] <=2000GPD [] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] mseptic DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 108 S.W. Burnett Ln. Lake City, FL 32024

DIRECTIONS TO PROPERTY: South on St. Rd 47 to 242 Rt on 242 go About
1 mile to Yolanda Way turn Left go to stop side Left @ sign
property on corner of Burnett's

BUILDING INFORMATION

[X] RESIDENTIAL

[] COMMERCIAL

| Unit No | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC |
|---------|-----------------------|-----------------|--------------------|--|
| 1 | existing | 3 | 1200 | <u>Original Attached</u> |
| 2 | Addition | X | 892.8 | |
| 3 | | | | |
| 4 | | | | |

[] Floor/Equipment Drains [] Other (Specify) _____

SIGNATURE: Paul C. Short

DATE: 12-12-08

@ CAM110M01 S CamaUSA Appraisal System Columbia County
 2/23/2009 16:08 Property Maintenance 16231 Land 001
 Year T Property Sel AG 000
 2009 R 25-4S-16-03125-015 ... * 53746 Bldg 001
 Owner SHORT PAUL C & SHARON M + Conf Xfea 000
 Addr 108 SW BURNETT LN HX 69977 TOTAL B*
 -Cap?- 1.130 Total Acres
 SOH 10% ApYr ERnwl ARnwl S/C Notc
 Y 1995
 City,St LAKE CITY FL Zip 32024 (PUD1) (PUD2) (PUD3) MKTA06
 Country (PUD4) (PUD5) (PUD6)
 Appr By TWHC Date 9/10/2008 AppCode UseCd 000100 SINGLE FAMILY
 TxDist Nbhd MktA ExCode Exemption/% TxCode Units Tp
 002 25416.00 06 HX 25000
 DIST 2
 House# 108 Street BURNETT MD LN Dir SW #
 - City LAKE CITY
 Subd N/A Condo .00 N/A
 Sect 25 Twn 4S Rnge 16 Subd Blk Lot
 Legals COMM NW COR OF SW1/4 OF NW1/4, RUN N 57 DEG E 32.14 FT, E
 209.23 FT, S 3.10 FT, E 400.10 FT TO W R/W OF A CO RD, S +
 Map# Mnt 10/07/2008 PINKY
 F1=Task F2=ExTx F3=Exit F4=Prompt F11=Docs F10=GoTo PgUp/PgDn F24=More



0902-33

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 25-45-16-03125-015 HX

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): see Attachment "A"
 - a) Street (job) Address: 108 SW Burnett Ln
2. General description of improvements: Addition to back of home lower area use as a dog upper level making kitchen bigger & making a family room
3. Owner Information
 - a) Name and address: PAUL C. Short 108 SW Burnett Ln Lake City, FL 32024
 - b) Name and address of fee simple titleholder (if other than owner) _____
 - c) Interest in property _____
4. Contractor Information
 - a) Name and address: PAUL Short 108 SW Burnett Ln Lake City FL 32024
 - b) Telephone No.: 386-755-8621 Fax No. (Opt.) (4) 386-965-5707
5. Surety Information
 - a) Name and address: _____
 - b) Amount of Bond: _____
 - c) Telephone No.: _____
6. Lender
 - a) Name and address: _____
 - b) Phone No.: _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
 - a) Name and address: _____
 - b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
 - a) Name and address: _____
 - b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): _____

Inst 200912002891 Date 2/23/2009 Time 4:35 PM
14 DC, P DeWitt Cason, Columbia County Page 1 of 2 B 1167 P 2298

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Paul C. Short
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
PAUL C. Short
Print Name

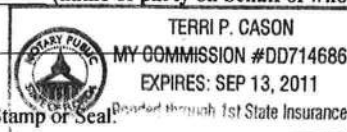
The foregoing instrument was acknowledged before me, a Florida Notary, this 23rd day of February, 2009, by:
Paul Short as _____ (type of authority, e.g. officer, trustee, attorney
fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known ☒ OR Produced Identification _____ Type _____

Notary Signature

TERRI P. CASON

Notary Stamp or Seal



—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Paul C. Short
Signature of Natural Person Signing (in line #10 above.)

TOTAL HEATING AND COOLING REQUIREMENTS

For:

Page 2

Name: SHORT ResidenceAddress: Addition

City: _____

| (✓) Check Constr. Type | ITEM | AREA SQUARE FEET | DESIGN TEMPERATURE DIFFERENCE | | | | | DESIGN TEMP | | HEATING (BTUH LOSS) | COOLING MULT. (CIRCLE) | | COOLING (BTUH GAIN) | |
|---------------------------|-------------------------------------|------------------------|-------------------------------------|-----|-----|-----|-----|----------------|-----|---------------------------|------------------------------|------|---------------------------|-----|
| | | | 30° | 35° | 40° | 45° | 50° | 90° | 95° | | | | | |
| | Gross Wall Area | 340 | | | | | | | | | | | | |
| | Glass Area (From page 1) | 115 | | | | | | | | 6350 | | | 5750 | |
| | Partitions, Frame | | | | | | | | | | | | | |
| | Finished 1 side, No Insulation | | 17 | 19 | 22 | 25 | 28 | | | | 6.5 | 10.0 | | |
| | Finished 2 sides, No Insulation | | 9 | 11 | 12 | 14 | 16 | | | | 4.5 | 6.0 | | |
| | Finished 2 sides, R-5 | | 4 | 5 | 5.5 | 6 | 7 | | | | 2.5 | 3.5 | | |
| | Finished 2 sides, R-11 | | 2 | 3 | 3 | 4 | 4 | | | | 2.0 | 2.5 | | |
| | Other | | | | | | | | | | | | | |
| | Doors (Excluding glass) | | | | | | | | | | | | | |
| | No weatherstripping | | 135 | 160 | 180 | 200 | 225 | | | | 10.0 | 13.0 | | |
| | Weatherstripped | | 70 | 85 | 95 | 110 | 120 | | | | 10.0 | 13.0 | | |
| | R-5 Insulation, No weatherstripping | | 123 | 144 | 164 | 185 | 205 | | | | 4.3 | 5.5 | | |
| | R-5 Insulation, weatherstripping | | 68 | 79 | 90 | 101 | 113 | | | | 4.0 | 5.0 | | |
| | Other | | | | | | | | | | | | | |
| | Net Exterior Walls | | | | | | | | | | | | | |
| | CBS Furred, No Insulation | | 9 | 10 | 12 | 13 | 14 | | | | 4.5 | 6.0 | | |
| | CBS Furred, R-3 Insulation | | 5 | 6 | 7 | 8 | 8 | | | | 3.0 | 4.2 | | |
| | CBS Furred, R-4 Insulation | | 4 | 5 | 6 | 6 | 7 | | | | 2.7 | 3.8 | | |
| | CBS Furred, R-5 Insulation | | 4 | 5 | 5 | 6 | 6 | | | | 2.5 | 3.5 | | |
| | Frame, No Insulation | | 8 | 9 | 10 | 11 | 13 | | | | 5.5 | 7.0 | | |
| | Frame, R-11 Insulation | 425 | 2 | 2 | 3 | 3 | 4 | | | 1275 | 2.5 | 3.0 | 1275 | |
| | Frame, R-14 Insulation | | 1.5 | 1.7 | 2 | 2.5 | 3 | | | | 2 | 2.8 | | |
| | Other | | | | | | | | | | | | | |
| | Ceiling under attic | | | | | | | | | | | | | |
| | No Insulation | DK LT | 18 | 21 | 24 | 27 | 30 | | | | 9 | 7 | 10 | 8.5 |
| | R-11 Insulation | DK LT | 2.4 | 2.8 | 3.2 | 3.5 | 3.9 | | | | 2.5 | 2 | 3 | 2.5 |
| | R-19 Insulation | DK LT | 1.5 | 1.7 | 1.9 | 2.2 | 2.4 | | | | 1.5 | 1.5 | 2 | 1.5 |
| | R-22 Insulation | DK LT | 1.2 | 1.5 | 1.7 | 1.9 | 2.1 | | | | 1.5 | 1.0 | 1.5 | 1.5 |
| | R-26 Insulation | DK LT | 1.1 | 1.3 | 1.4 | 1.6 | 1.8 | | | | 1.3 | 1 | 1.5 | 1.2 |
| | R-30 Insulation | DK LT | 1 | 1.1 | 1.3 | 1.4 | 1.6 | | | 603 | 1.1 | .9 | 1.3 | 1.0 |
| | Other | | | | | | | | | | | | 464 | |
| | Floor, Concrete Slab | | | | | | | | | | | | | |
| | No Edge Insulation | Perimeter Ft. | 35 | 40 | 40 | 45 | 45 | | | | 0 | 0 | | |
| | Other | 464 Sq Ft R30 | | | | | | | | 603 | | | 464 | |
| | Subtotal | | | | | | | | | 8831 | | | 7953 | |
| | People @ 300 & Appl. @ 1200 x4 | | | | | | | | | | | | 6000 | |
| | Sensible BTUH Gain | | | | | | | | | | | | | |
| | Duct BTUH Loss & Gain | | | | | | | | | 8831 | | | 13953 | |
| | 2 In. Flex. or 1 In. Rigid | | | | | | | | | 883 | | | 1375 | |
| | 1 1/2 In. Rigid | | | | | | | | | | .10 | | | |
| | Total BTUH Loss | | | | | | | | | | .075 | | | |
| | Subtotal BTUH Gain | | | | | | | | | 9714 | | | 15345 | |
| | x 1.3 = Total BTUH Gain | | | | | | | | | | | | 19952 | |

Calculated Heating Requirements

Size of Unit Chosen

% Oversized

% Undersized

BTUH

BTUH

Calculated Cooling Requirements

Size of Unit Chosen

% Oversized

% Undersized

BTUH

BTUH

RESIDENTIAL HEATING AND COOLING REQUIREMENTS*

Page 1



HEATING AND COOLING REQUIREMENTS DUE TO GLASS AREA

| DESIGN TEMPERATURE DIFFERENCE | | | | |
|-------------------------------------|-----|-----|-----|-----|
| 30° | 35° | 40° | 45° | 50° |

| WINDOWS & GLASS DOORS | AREA SQUARE FEET | HEATING MULTIPLIER (CIRCLE ONE) | | | | | HEATING (BTUH LOSS) |
|--|------------------------|---------------------------------------|----|-----|-----|-----|---------------------------|
| Glass Doors, Infiltration less than 1.0 CFM/FT | | | | | | | |
| Single Glass | | 50 | 60 | 70 | 75 | 85 | |
| Double Glass | | 40 | 45 | 50 | 55 | 60 | |
| Other Sliding Glass Doors | | | | | | | |
| Single Glass | | 75 | 85 | 100 | 115 | 125 | |
| Double Glass | 40 | 60 | 70 | 80 | 90 | 100 | 3200 |
| Windows, Infiltration less than 0.50 CFM/FT | | | | | | | |
| Single Glass | | 40 | 50 | 55 | 60 | 70 | |
| Double Glass | 90 | 25 | 30 | 35 | 40 | 45 | 3150 |
| Windows, Infiltration less than 0.75 CFM/FT | | | | | | | |
| Single Glass | | 45 | 50 | 60 | 65 | 75 | |
| Double Glass | | 30 | 35 | 40 | 45 | 50 | |
| Other Windows | | | | | | | |
| Single Glass | | 75 | 90 | 105 | 115 | 130 | |
| Double Glass | | 60 | 70 | 80 | 90 | 105 | |
| Fixed or Picture Windows | | | | | | | |
| Single Glass | | 40 | 50 | 55 | 60 | 70 | |
| Double Glass | | 25 | 30 | 35 | 40 | 45 | |
| Other | | | | | | | |
| Total BTUH Loss (Enter on Line 2, Page 2) | | | | | | | 6350 |

| WINDOWS & GLASS DOORS | AREA SQUARE FEET | COOLING MULTIPLIER (CIRCLE) | | | | | | | | | | | | COOLING (BTUH GAIN) | |
|----------------------------------|------------------------|-----------------------------|----|----|-----|----|----|--------------|----|----|-----|----|----|---------------------------|------|
| | | SINGLE GLASS | | | | | | DOUBLE GLASS | | | | | | | |
| | | 90° | | | 95° | | | 90° | | | 95° | | | | |
| | | C | T | R | C | T | R | C | T | R | C | T | R | | |
| No Shading | | | | | | | | | | | | | | | |
| N | | 30 | 22 | 20 | 30 | 26 | 25 | 20 | 14 | 13 | 25 | 17 | 16 | | |
| NE & NW | | 60 | 41 | 36 | 65 | 45 | 41 | 50 | 29 | 24 | 50 | 32 | 27 | | |
| E & W | | 85 | 60 | 53 | 90 | 64 | 57 | 70 | 44 | 36 | 75 | 47 | 39 | | |
| SE & SW | | 75 | 51 | 45 | 80 | 55 | 50 | 60 | 37 | 30 | 65 | 40 | 33 | | |
| S | | 45 | 31 | 28 | 50 | 35 | 33 | 35 | 21 | 18 | 40 | 24 | 21 | | |
| Draperies or Blinds | | | | | | | | | | | | | | | |
| N | 0 | 20 | 17 | 16 | 25 | 21 | 20 | 15 | 11 | 11 | 20 | 14 | 14 | | |
| NE & NW | | 35 | 33 | 30 | 40 | 37 | 34 | 30 | 22 | 21 | 35 | 25 | 24 | | |
| E & W | 100 | 55 | 48 | 43 | 55 | 52 | 47 | 45 | 32 | 30 | 50 | 35 | 33 | 5000 | |
| SE & SW | | 45 | 39 | 35 | 50 | 43 | 39 | 40 | 26 | 25 | 40 | 29 | 28 | | |
| S | 30 | 30 | 26 | 24 | 30 | 30 | 28 | 25 | 17 | 16 | 25 | 20 | 19 | 750 | |
| Roller Shades | | | | | | | | | | | | | | | |
| N | | 25 | 19 | 17 | 25 | 23 | 22 | 20 | 12 | 11 | 20 | 15 | 14 | | |
| NE & NW | | 45 | 36 | 32 | 50 | 40 | 37 | 40 | 26 | 22 | 45 | 29 | 25 | | |
| E & W | | 65 | 53 | 47 | 70 | 57 | 51 | 55 | 37 | 32 | 60 | 40 | 35 | | |
| SE & SW | | 55 | 44 | 39 | 60 | 48 | 44 | 50 | 32 | 27 | 50 | 35 | 30 | | |
| S | | 35 | 28 | 25 | 40 | 32 | 30 | 30 | 20 | 16 | 35 | 23 | 19 | | |
| Awnings, Porches, Etc. | | | | | | | | | | | | | | | |
| All Directions | | 25 | 22 | 20 | 30 | 26 | 25 | 15 | 14 | 13 | 20 | 17 | 16 | | |
| Other | | | | | | | | | | | | | | | |
| Total BTUH Gain (Line 2, Page 2) | | | | | | | | | | | | | | | 5750 |

* REFERENCE A.C.C.A. MANUAL "J"

(C - Clear T - Tinted R - Reflective)



STRUCTURAL DIMENSIONS, INC.
CONSULTING • ENGINEERING • TESTING • RESEARCH

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1745 HOLLYWOOD AVENUE, WINTER PARK, FLORIDA 32789-4016

TELEPHONE (407) 645-1121
FACSIMILE (407) 645-3099

e-mail: visions@magicnet.net

Website: <http://www.magicnet.net/~visions>

Paul Short
108 S.W. Burnett Lane
Lake City, Florida
Tel. 386.965.5707
Fax. 386.965.5707



November 24, 2008

Attention: Mr. Paul Short, Owner & Plans Examiner at Building Department

Subject: Professional Engineering Visual Site-Inspection Services with Bearing Capacity Determinations for proposed Paul Short Building Addition, at 108 S.W. Burnett Lane, in Lake City - Florida.

Dear Mr. Short:

In response to discussions with you, and meetings with your Architect/Building Designer, and per our site-visit, in November 2008, Structural Dimensions, Inc. has completed the requested Professional Engineering Visual Site-Inspection Services with relatively shallow probings (to ten feet in depths) for Bearing Capacity determination, at the subject project site, as requested by you. The proposed Paul Short Residence Building-Addition Region is located at 108 S.W. Burnett Lane, in Lake City, Florida, and is further documented in the Architectural/Building Design Drawings (by other/s). This report presents an overview of the visual field inspection services, and soil probing results at the foundation perimeter regions only, as completed for the subject project, and is also intended to establish Ultimate Soil Bearing Capacity criteria for the Architectural/Building Design completion phase of this project. The Truss Manufacturer's signed & sealed Truss Engineering Package with Shop-Drawings and Load Reaction Summaries shall also be provided to the Architect/Building Designer, and Structural Engineer of Record prior to drawing/s finalization.

1.0 PROJECT DESCRIPTION

The proposed Paul Short Residence Building-Addition Region is located at 108 S.W. Burnett Lane, in Lake City, Florida, and is further documented in the Architectural/Building Design Drawings (by other/s). Hurricane Wind Region Loading requirements are applicable per FBC 2004 with '05, '06 & '07 Supplements, as well as per ASCE 7-05 Wind Load Criteria & Requirements for Building Structures. The required site Survey for the permitting-phase will be provided by other/s.

2.0 EXISTING SITE CONDITIONS, PROBING & BEARING CAPACITY RESULTS

At the time the site inspection/s and field testing was performed in November 2008, the subject site consisted of predominantly grassed & cleared regions. Therefore, since this is an existing and currently developed site (existing 1-story building structure), elevation grade levels appear to vary to some extent, and by several feet (sloping) adjacent to the proposed Building Structure Addition Region. Grade Elevation changes appear to be approximately several feet from lowest grade to highest grade. The actual elevations (grade differences) however will need to be confirmed by others (Builder and/or Professional Surveyor/s) prior to any expansion work (excavation/filling) at the proposed Paul Short Residence Building-Addition Region. The site was observed in a relatively dry condition, at the time of the site inspection with probing was conducted, in November 2008.

ABOVE AND BELOW GROUND

2.0 EXISTING SITE CONDITIONS, PROBING & BEARING CAPACITY RESULTS (CONT.)

Based upon our on-site visit in November 2008, and the conducted Professional Engineering Visual Site Inspection with proposed foundation perimeter probing only, we are of the opinion that the proposed Paul Short Residence Building-Addition can be constructed without any major constraints, provided that any clayey soils that may be encountered in the immediate vicinity of the perimeter strip-type foundation system be removed and replaced with a builder-type sand (i.e. good compaction and density characteristics). Furthermore, any site-slope changes that may be encountered in and/or near strip-type and isolated column-type foundation regions have to be addressed, and should be conveyed to the Architect/Building Designer and Structural Engineer of Record for review, prior to foundation-pour.

As per your request, the Soil Bearing Capacity for the tested slightly silty sandy soil layer has been determined and is 2,150 psf. respectively, i.e. 2,000 psf. can be conservatively utilized. Please note that should plastic-type clay strata and/or clayey soil strata be encountered the above computed Soil Bearing Capacity will be significantly reduced.

3.0 LIMITATIONS


The Preliminary Professional Engineering Visual Site-Inspection with Probing findings, submitted herein, are based on the field site-visits in November only, as addressed in this report. This report does not reflect variations which may occur adjacent to or away from the actual viewed visual locations nor the probed locations. The nature and extend of the variations between the viewed and probed locations may not become evident until during construction. Should variations appear evident during construction, it will be necessary to contact Structural Dimensions, Inc. immediately so that we may re-evaluate the recommendations presented in this report after performing on-site observations during the construction period and noting the characteristics of any reported variations and soil conditions. This Preliminary Professional Engineering Visual Site-Inspection Report does not include testing for any potential Sinkhole Activity on this site, nor does it include any Geotechnical Engineering Report, it strictly presents local Soil Bearing Capacity determinations.

4.0 CLOSURE

Structural Dimensions, Inc. appreciates the opportunity to provide our services on this project and we trust that the information presented is sufficient for your immediate needs. Should you have further questions concerning the contents of this report, or as we may be of further assistance during the construction phase, please feel free to contact us at your convenience. We may be contacted in **Gainesville, Florida** at **Tel. 352.335.6100**, and/or **Fax. 352.335.3010**.

Sincerely,

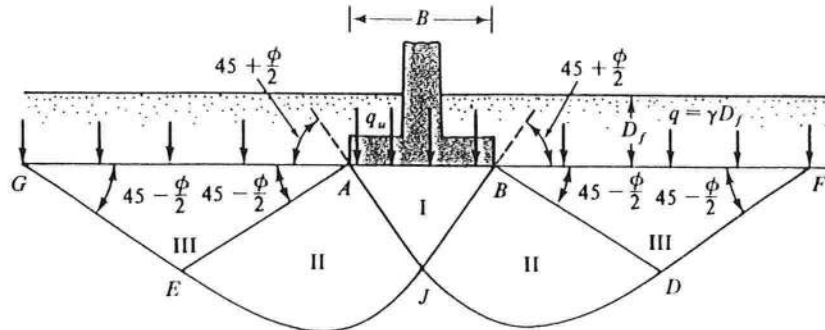
Structural Dimensions, Inc.

 ; 11-24-2008
C.O.P. # 6780 .
Christian C. Steputat, P.E.
Principal Engineer
Fl. Registration No. 46762

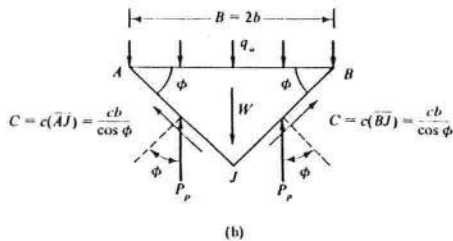
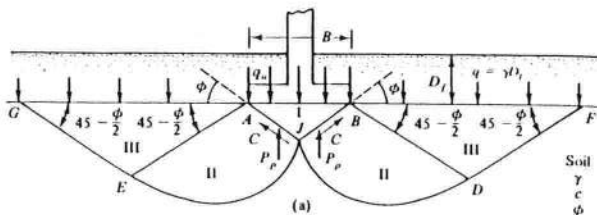


A Maximum Allowable Bearing Pressure of 2,150 pounds per square foot (psf.) is feasible, provided removal of adverse soils (e.g. debris, rubble, muck, clay, etc.), suitable compaction of native soils and engineered fill is conducted, for the Paul Short Residence Addition, in Lake City, Florida.

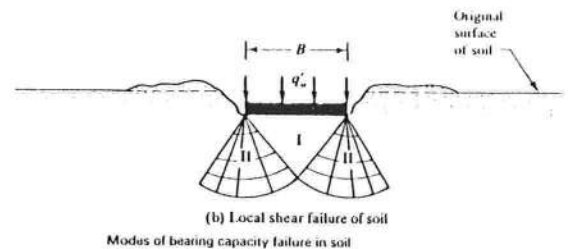
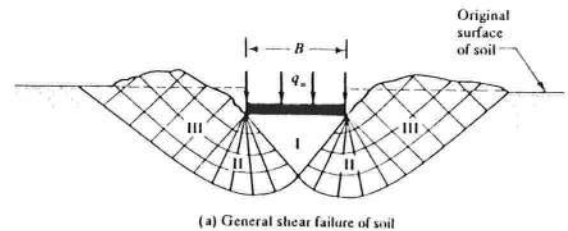
$$q_u = q_c + q_q + q_\gamma$$



Soil-bearing capacity calculation—general shear failure

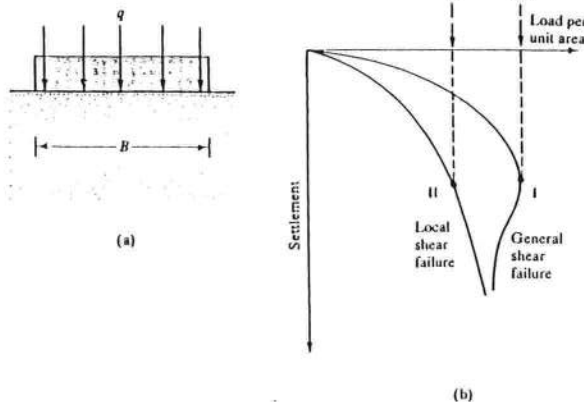


Terzaghi's bearing capacity analysis



$$q_u = c\lambda_{cs}\lambda_{cd}\lambda_{ci}N_c + q\lambda_{qs}\lambda_{qd}\lambda_{qi}N_q + \frac{1}{2}\lambda_{\gamma s}\lambda_{\gamma d}\lambda_{\gamma i}\gamma BN_\gamma$$

λ_{cs} , λ_{qs} , and $\lambda_{\gamma s}$ = shape factors
 λ_{cd} , λ_{qd} , and $\lambda_{\gamma d}$ = depth factors
 λ_{ci} , λ_{qi} , and $\lambda_{\gamma i}$ = inclination factors



Ultimate soil-bearing capacity for shallow foundation: (a) model footing; (b) load-settlement relationship



STRUCTURAL DIMENSIONS, INC.
 STRUCTURAL, GEOTECHNICAL, CONSTRUCTION AND
 FOUNDATION ENGINEERING CONSULTANTS

BEARING CAPACITY PROVISIONS

Paul Short Building Addition
108 S.W. Burnett Lane
Lake City, Florida

| | | |
|------------------------|--------------------|-------------------|
| DRAWN BY: C.C.S. | CHECKED BY: C.C.S. | DATE: 11-24-2008 |
| PROJECT No: 2008-5-401 | SCALE: NOTED | FIGURE No: APP. 1 |

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

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

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

GENERAL REQUIREMENTS:

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

Site Plan information including:

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

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

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

Elevations Drawing including:

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

Floor Plan including:

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

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

Foundation Plans Per FRC 403:

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

CONCRETE SLAB ON GRADE Per FRC R506

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

PROTECTION AGAINST TERMITES Per FRC 320:

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

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

- Show all materials making up walls, wall height, and Block size, mortar type
 - Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement
- Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect**

Floor Framing System: First and/or second story

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

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms
- Notarized Disclosure Statement for Owner Builders
- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

Private Potable Water

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.
- Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
- Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)
- City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
- Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.** A development permit will also be required. The permit cost is \$50.00.
- Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.
- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

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

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

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

| Category/Subcategory | Manufacturer | Product Description | Approval Number(s) |
|----------------------------|-----------------|---------------------|--------------------|
| A. EXTERIOR DOORS | | | |
| 1. Swinging | Reliable | | FL18 |
| 2. Sliding | Better Bilt | | FL663 |
| 3. Sectional | | | |
| 4. Roll up | | | |
| 5. Automatic | | | |
| 6. Other | | | |
| B. WINDOWS | | | |
| 1. Single hung | Better Bilt | | FL663 |
| 2. Horizontal Slider | | | |
| 3. Casement | | | |
| 4. Double Hung | | | |
| 5. Fixed | | | |
| 6. Awning | | | |
| 7. Pass-through | | | |
| 8. Projected | | | |
| 9. Mullion | | | |
| 10. Wind Breaker | | | |
| 11. Dual Action | | | |
| 12. Other | | | |
| C. PANEL WALL | | | |
| 1. Siding | JAMES HARDY | | FL889.5 |
| 2. Soffits | Georgia Pacific | | FL1146 |
| 3. EIFS | | | |
| 4. Storefronts | | | |
| 5. Curtain walls | | | |
| 6. Wall louver | | | |
| 7. Glass block | | | |
| 8. Membrane | | | |
| 9. Greenhouse | | | |
| 10. Other | | | |
| D. ROOFING PRODUCTS | | | |
| 1. Asphalt Shingles | | | |
| 2. Underlayments | | | |
| 3. Roofing Fasteners | | | |
| 4. Non-structural Metal Rf | | | |
| 5. Built-Up Roofing | | | |
| 6. Modified Bitumen | | | |
| 7. Single Ply Roofing Sys | | | |
| 8. Roofing Tiles | | | |
| 9. Roofing Insulation | | | |
| 10. Waterproofing | | | |
| 11. Wood shingles /shakes | | | |
| 12. Roofing Slate | | | |

| Category/Subcategory (cont.) | Manufacturer | Product Description | Approval Number(s) |
|--|------------------|-------------------------|--------------------|
| 13. Liquid Applied Roof Sys | | | |
| 14. Cements-Adhesives – Coatings | | | |
| 15. Roof Tile Adhesive | | | |
| 16. Spray Applied Polyurethane Roof | | | |
| 17. Other | <i>butylcast</i> | <i>tin</i> | <i>7099.2</i> |
| E. SHUTTERS | | | |
| 1. Accordion | | | |
| 2. Bahama | | | |
| 3. Storm Panels | | | |
| 4. Colonial | | | |
| 5. Roll-up | | | |
| 6. Equipment | | | |
| 7. Others | | | |
| F. SKYLIGHTS | | | |
| 1. Skylight | | | |
| 2. Other | | | |
| G. STRUCTURAL COMPONENTS | | | |
| 1. Wood connector/anchor | | <i>see plans</i> | |
| 2. Truss plates | | <i>see truss plans.</i> | |
| 3. Engineered lumber | | | |
| 4. Railing | | | |
| 5. Coolers-freezers | | | |
| 6. Concrete Admixtures | | | |
| 7. Material | | | |
| 8. Insulation Forms | | | |
| 9. Plastics | | | |
| 10. Deck-Roof | | | |
| 11. Wall | | | |
| 12. Sheds | | | |
| 13. Other | | | |
| H. NEW EXTERIOR ENVELOPE PRODUCTS | | | |
| 1. | | | |
| 2. | | | |

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

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

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # (FOR STAFF USE ONLY)

02/02/04 – 2 of 2

Website:

Effective April 1, 2004

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

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

ROOF SYSTEMS:

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

Conventional Roof Framing Layout Per FRC 802:

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

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

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

ROOF ASSEMBLIES FRC Chapter 9

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

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

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

HVAC information shown

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

Plumbing Fixture layout shown

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

Electrical layout shown including:

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



STRUCTURAL DIMENSIONS, INC.
CONSULTING • ENGINEERING • TESTING • RESEARCH

P.O. BOX 1910, WINTER PARK, FLORIDA 32790-1910
1745 HOLLYWOOD AVENUE, WINTER PARK, FLORIDA 32789-4016

" 27676

TELEPHONE (407) 645-1121
FACSIMILE (407) 645-3099

e-mail: visions@magicnet.net
Website: <http://www.magicnet.net/~visions>

Paul Short
108 S.W. Burnett Lane
Lake City, Florida 38024

Tel. 386.965.5707
Fax. 386.755.8621

April 09, 2009

Attention: Mr. & Mrs. Short & Plans Examiner/s at Building Department

Subject: Strip-Foundation Footing Changes from Stem-Wall to Monolithic type, as requested by Owner, for "Revised" Short Residence, located at 108 S.W. Burnett Lane, in Lake City, Florida 38024.

To Whom It May Concern:

As per our most recent discussions with the owners, we understand that the Owner/Builder has made some construction changes to the original construction plans and project documents. Please note the following project requirements:

1.0 Foundation Strip-Foundation Footing System by Owner/Builder per FBC-2007 with 2009 Supplements:

Foundation Changes: Please note that we understand that the Owner/Builder will construct the building structure with 20" (deep) x 16" (wide) x Continuous **Monolithic type** Strip-Foundation Footings reinforced with 3 # 5 Rebars (2-Story Construction requirements are applicable), instead of the 12" x 24" x Continuous Stem-Wall type Strip Foundation Footings reinforced with 3 # 5 Rebars (2-Story Construction requirements are applicable), at only the 3-Sides of the residence (non-common walls only). A minimum of 8" will have to be above currently existing grade (see Flood Elevation Survey Levels by other/s). The existing residence-side (common-wall) of the "in-place" building structure will still require a stem-wall type footing with concrete-wall construction, as shown in the plans (un-altered). Do not utilize a monolithic-edge at the common-wall side, since a retaining wall type of footing with concrete (not CMU) wall needs to be constructed, to retain the "in-place" earth (soils). **The foundation footing change from Stem-Wall type to Monolithic-type is acceptable, only on the 3-sides (i.e. at non-common walls).** Other 2-Story requirements will apply.

Furthermore, any building loading changes by truss manufacturer and/or other/s, iff applicable, will have to be provided to the project structural engineer of record for review. Additional isolated column-type foundations, structural column-type supports, and/or structural beams may be required for additional loading conditions. All construction is to be in accordance to Standard Construction Industry Practices and per Manufacturer's Installation guidelines and requirements.

Nailing Spacing of the Roof-Sheathing shall be at 4" (Max.) on-center at perimeters, and 6" (Max.) in-field. 4" (Max.) on-center and at perimeters is preferred. Utilize **8d Ring Shank Roof-Sheathing Nails with Full Heads**, for the 110 MPH (3 sec. Gust) requirements, per **R803.2.3.1**. Please refer to Construction Documents for additional drawing details.

All construction is to be per Construction Industry Standard Practices, and as specified in the most recent Florida Building Code [FBC-2007 with 2009 Supplements]. **ASTM-Reference Standards shall also be adhered to.**

Structural Dimensions, Inc. appreciates the opportunity to provide our services on this project and we trust that the information presented is sufficient for your immediate needs. Should you have further questions concerning the contents of this report, or as we may be of further assistance during the construction phase, please feel free to contact us at your convenience. We may be contacted in **Gainesville, Florida** at Tel. **352.335.6100**, and/or Fax. **352.335.3010**.

Sincerely,

Structural Dimensions, Inc.
Certificate of Authorization No. EB-0006780

; **04-09-2009**

Christian C. Steputat, P.E.
Principal Engineer
Florida Registration No. 46762



ABOVE AND BELOW GROUND

Notice of Treatment

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

Address: 536 SE BAY AVE

City LAKE CITY

Phone 752 1703

Site Location: Subdivision _____

Lot # _____

Block# _____

Permit # 27676

Address 108 SW BURNETT LN

Product used

Active Ingredient

% Concentration

☐ Premise

Imidacloprid

0.1%

☒ Termidor

Fipronil

0.12%

☐ Bora-Care

Disodium Octaborate Tetrahydrate

23.0%

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Abortion

446

102

2.5

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

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

6/17/09

Date

1415

Time

James D. Parker

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

| | | | | | |
|---|-------|------------|-----|-----|--|
| Job | Truss | Truss Type | Qty | Ply | PAUL SHORT ADD. / ROOF |
| 293749 | T01 | COMMON | 11 | 1 | 293749001 |
| Builders FirstSource, Lake City, FL 32055 | | | | | Job Reference (optional) |
| | | | | | 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Dec 04 08:20:05 2008 Page 1 |

| | | | | | |
|--------|-------|--------|--------|--------|--------|
| -2-0-0 | 5-5-8 | 9-10-0 | 14-2-8 | 19-8-0 | 21-8-0 |
| 2-0-0 | 5-5-8 | 4-4-8 | 4-4-8 | 5-5-8 | 2-0-0 |

Scale = 1:38.8

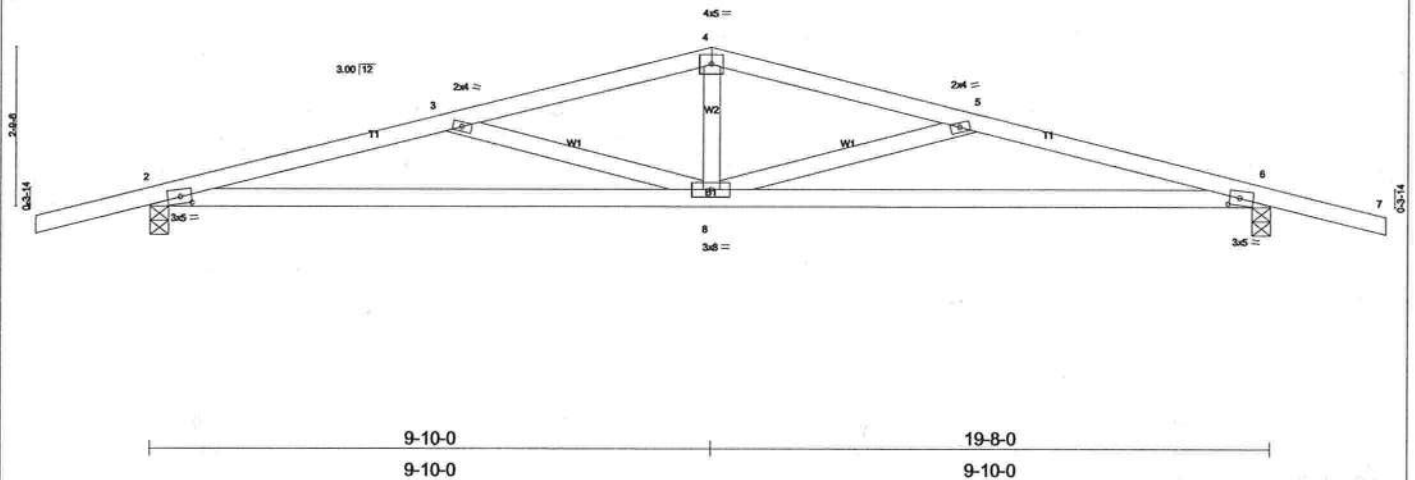


Plate Offsets (X,Y): [2-0-2-4,0-1-8], [6-0-2-4,0-1-8]

| LOADING (psf) | SPACING | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0 | 2-0-0 | TC 0.31 | Vert(LL) | -0.17 | 6-8 | >999 | 360 | MT20 | 244/190 |
| TCDL 7.0 | Plates Increase 1.25 | BC 0.54 | Vert(TL) | -0.33 | 6-8 | >702 | 240 | | |
| BCLL 10.0 | Lumber Increase 1.25 | WB 0.19 | Horz(TL) | 0.05 | 6 | n/a | n/a | | |
| BCDL 5.0 | Rep Stress Incr YES | (Matrix) | | | | | | | |
| | Code FBC2004/TPI2002 | | | | | | | | |
| | | | | | | | | Weight: 83 lb | |

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-10 oc bracing.

REACTIONS (lb/size) 2=736/0-4-0, 6=736/0-4-0
Max Horz 2=47(load case 6)
Max Uplift 2=243(load case 4), 6=243(load case 5)

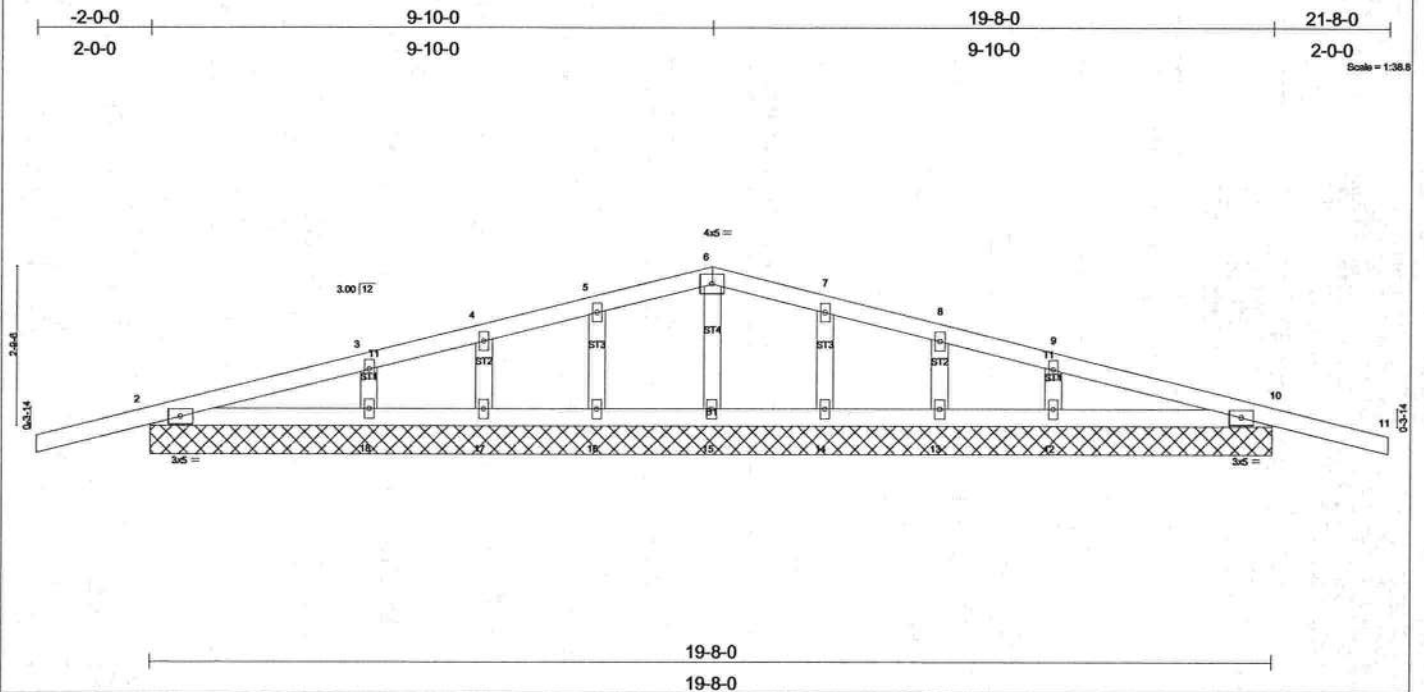
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=1738/947, 3-4=1292/679, 4-5=1292/679, 5-6=1738/947, 6-7=0/25
BOT CHORD 2-8=831/1646, 6-8=831/1646
WEBS 3-8=479/321, 4-8=101/407, 5-8=479/321

NOTES (5)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2 and 243 lb uplift at joint 6.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

| | | | | | |
|---|---------------|---------------------|--|----------|---|
| Job 293749 | Truss T01G | Truss Type GABLE | Qty 1 | Ply 1 | PAUL SHORT ADD. / ROOF 293749003 Job Reference (optional) |
| Builders FirstSource, Lake City, FL 32055 | | | 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Dec 04 08:20:19 2008 Page 1 | | |



| | | | | | |
|----------------------|----------------------|------------|---------------------------|---------------|-------------|
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP |
| TCCL 20.0 | 2-0-0 | TC 0.22 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCCL 7.0 | Plates Increase 1.25 | BC 0.07 | Vert(LL) -0.02 11 n/r 120 | | |
| BCCL 10.0 | Lumber Increase 1.25 | WB 0.03 | Vert(TL) -0.03 11 n/r 90 | | |
| BCDL 5.0 | Rep Stress Incr YES | (Matrix) | Horz(TL) 0.00 10 n/a n/a | | |
| | Code FBC2004/TPI2002 | | | Weight: 80 lb | |

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

REACTIONS (lb/size) 2=246/19-8-0, 10=246/19-8-0, 15=124/19-8-0, 16=134/19-8-0, 17=105/19-8-0, 18=190/19-8-0, 14=134/19-8-0, 13=105/19-8-0, 12=190/19-8-0
Max Horz 2=60(load case 4)
Max Uplift 2=197(load case 6), 10=203(load case 7), 15=21(load case 6), 16=69(load case 4), 17=74(load case 6), 18=68(load case 4), 14=69(load case 5), 13=74(load case 7), 12=68(load case 5)
Max Grav 2=246(load case 1), 10=246(load case 1), 15=124(load case 1), 16=139(load case 10), 17=105(load case 1), 18=190(load case 10), 14=139(load case 11), 13=105(load case 1), 12=190(load case 11)

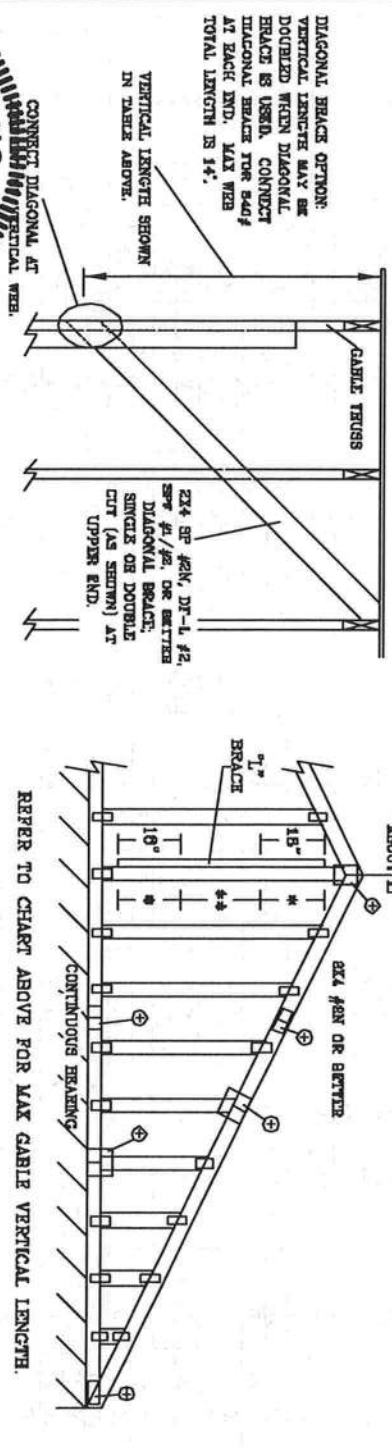
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=31/41, 3-4=20/62, 4-5=15/78, 5-6=16/104, 6-7=16/104, 7-8=15/78, 8-9=20/53, 9-10=31/21, 10-11=0/25
BOT CHORD 2-18=0/53, 17-18=0/53, 16-17=0/53, 15-16=0/53, 14-15=0/53, 13-14=0/53, 12-13=0/53, 10-12=0/53
WEBS 6-15=104/37, 5-16=118/92, 4-17=87/85, 3-18=164/115, 7-14=118/92, 8-13=87/85, 9-12=164/115

NOTES (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; for wind loads in the plane of the truss only. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 203 lb uplift at joint 10, 21 lb uplift at joint 15, 69 lb uplift at joint 16, 74 lb uplift at joint 17, 68 lb uplift at joint 18, 69 lb uplift at joint 14, 74 lb uplift at joint 13 and 68 lb uplift at joint 12.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

| MAX GABLE VERTICAL LENGTH | | 2X4 | | BRACE | | NO | | (1) 1X4 "L" BRACE * | | (1) 2X4 "L" BRACE * | | (2) 2X4 "L" BRACE ** | | (1) 2X6 "L" BRACE * | | (2) 2X6 "L" BRACE * | |
|---------------------------|---------|---------|-------|-------|--------|---------|---------|---------------------|---------|---------------------|---------|----------------------|---------|---------------------|---------|---------------------|---------|
| GABLE VERTICAL | SPACING | SPECIES | GRADE | BRACE | NO | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B |
| 12" O.C. | SPF | #1 / #2 | STUD | 3' 4" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| 16" O.C. | SPF | #1 / #2 | STUD | 3' 4" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| 24" O.C. | SPF | #1 / #2 | STUD | 3' 4" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" | 6' 10" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |
| | | | | | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" | 4' 11" |



| BRACING GROUP SPECIES AND GRADES: | | GROUP A: | | GROUP B: | |
|-----------------------------------|----------|----------|----------|----------|----------|
| SPRUCES-PINE-LARCHE | #1 / #2 | STUD | STUD | STUD | STUD |
| | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD |
| DOUGLAS FIR-LARCHE | #1 / #2 | STUD | STUD | STUD | STUD |
| | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD |



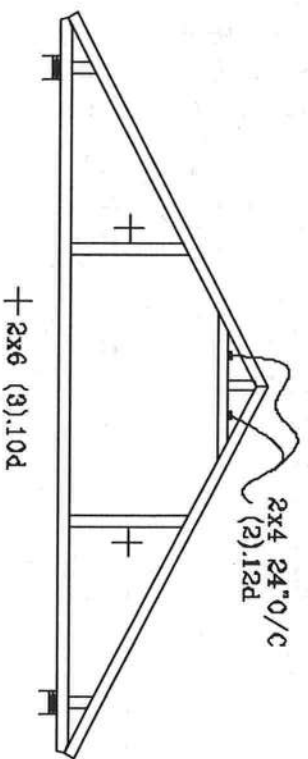
REVIEWED
By Julius Lee at 12:00 pm, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1405 AT 44th AVENUE
DELRAY BEACH, FL 33444-8161

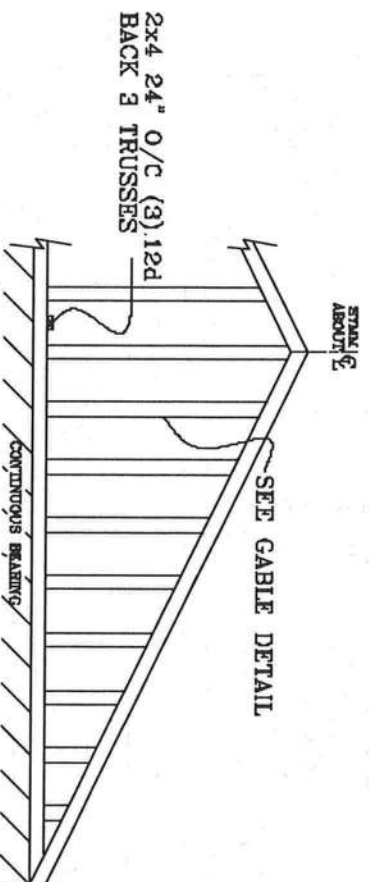
MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF ASCE 7-02-GAB13015
DATE 11/26/03
DRWG MTRK STD CABLE 15 E ET
-ENG

TYPICAL ATTIC TRUSS BRACING

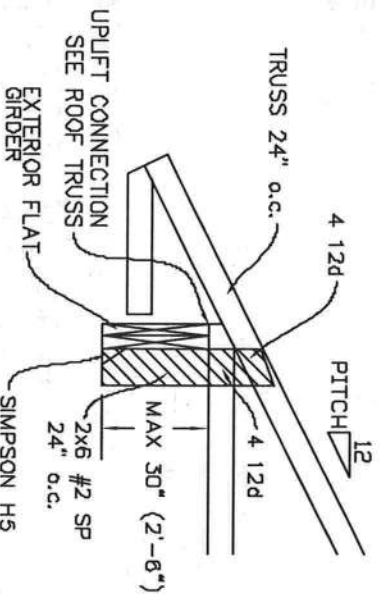


GABLE END TRUSS DETAIL

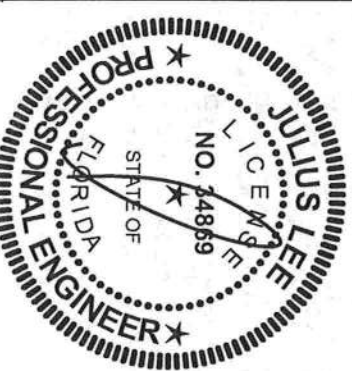
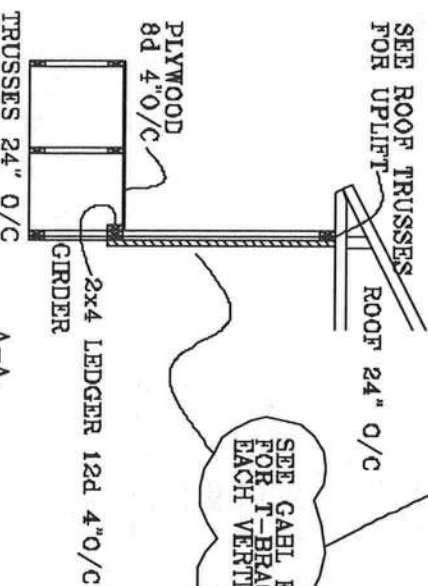
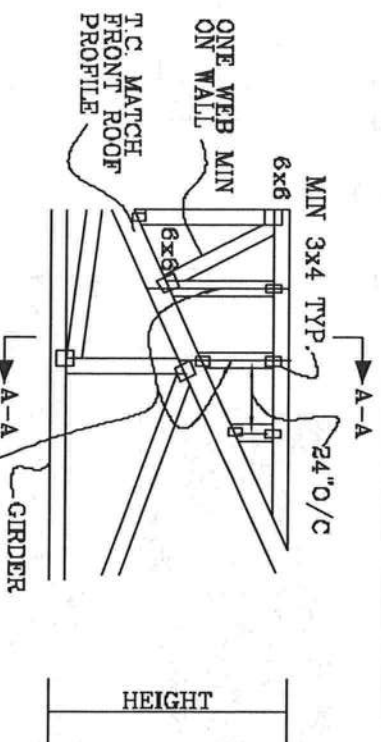


MINIMUM BC BRACING ON GABLE TRUSSES. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOB

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



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

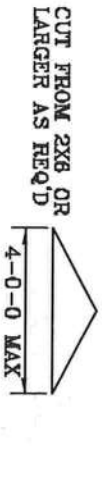
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 435 AVENUE
OZARK BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

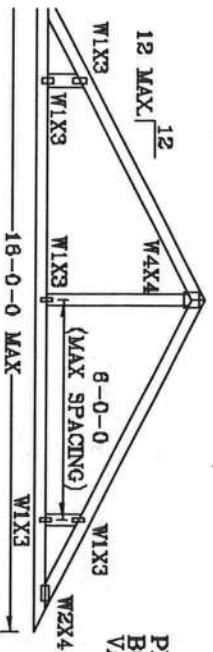
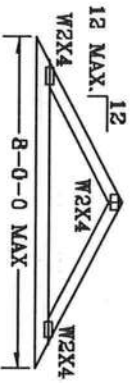
TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
VEES 2X4 SP #3 OR BETTER.

ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

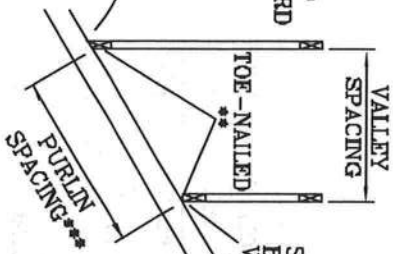
(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
FBC 2004 110 MPH. ASCE 7-02 110 MPH WIND OR (3) 16d FOR
ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED
BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=6 PSF.



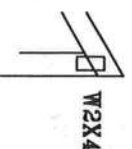
CUT FROM 2X6 OR
LARGER AS REQ'D



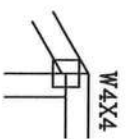
PITCHED CUT BOTTOM CHORD VALLEY



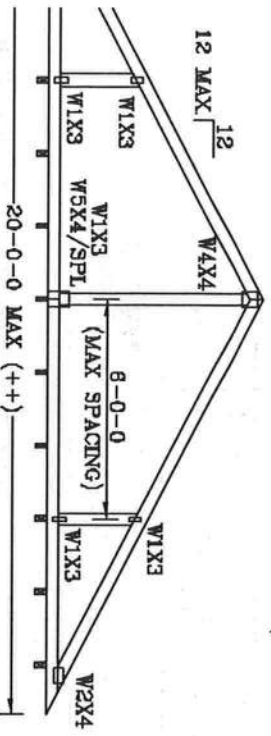
SQUARE CUT
BOTTOM CHORD
VALLEY



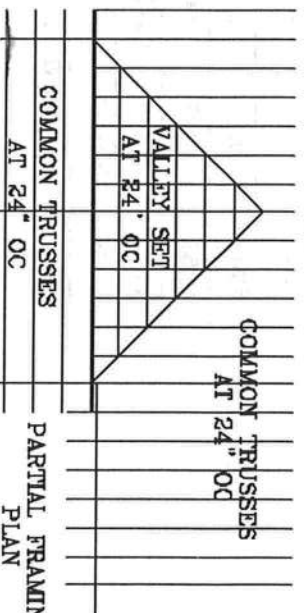
OPTIONAL STUB
END DETAIL



OPTIONAL HIP JOINT DETAIL



-20-0-0 MAX (++)-----
TRUSSES AT 24" OC MAXIMUM SPACING.



COMMON TRUSSES
AT 24" OC

IMON TRUSSES
AT 24" OC

PARTIAL FRAMING PLAN

THIS DRAWING REPLACES DRAWING A105

| 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 |

MANAGEMENT. THEY REQUIRE EXTENSIVE CARE IN ASSEMBLING, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. REFER TO LIST-10, BUILDING CONSTRUCTION, ROOFING, SATELLITE, AND COMMUNICATIONS EQUIPMENT INSTITUTE, 580 DOWNEY RD., SUITE 200, WESTFIELD, MA 01099, AND VIDEO CODES: 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 16

REVIEWED

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

No: 34869
STATE OF FLORIDA

STATE OF FLORIDA

DUR.FAC.1.25
SPACING

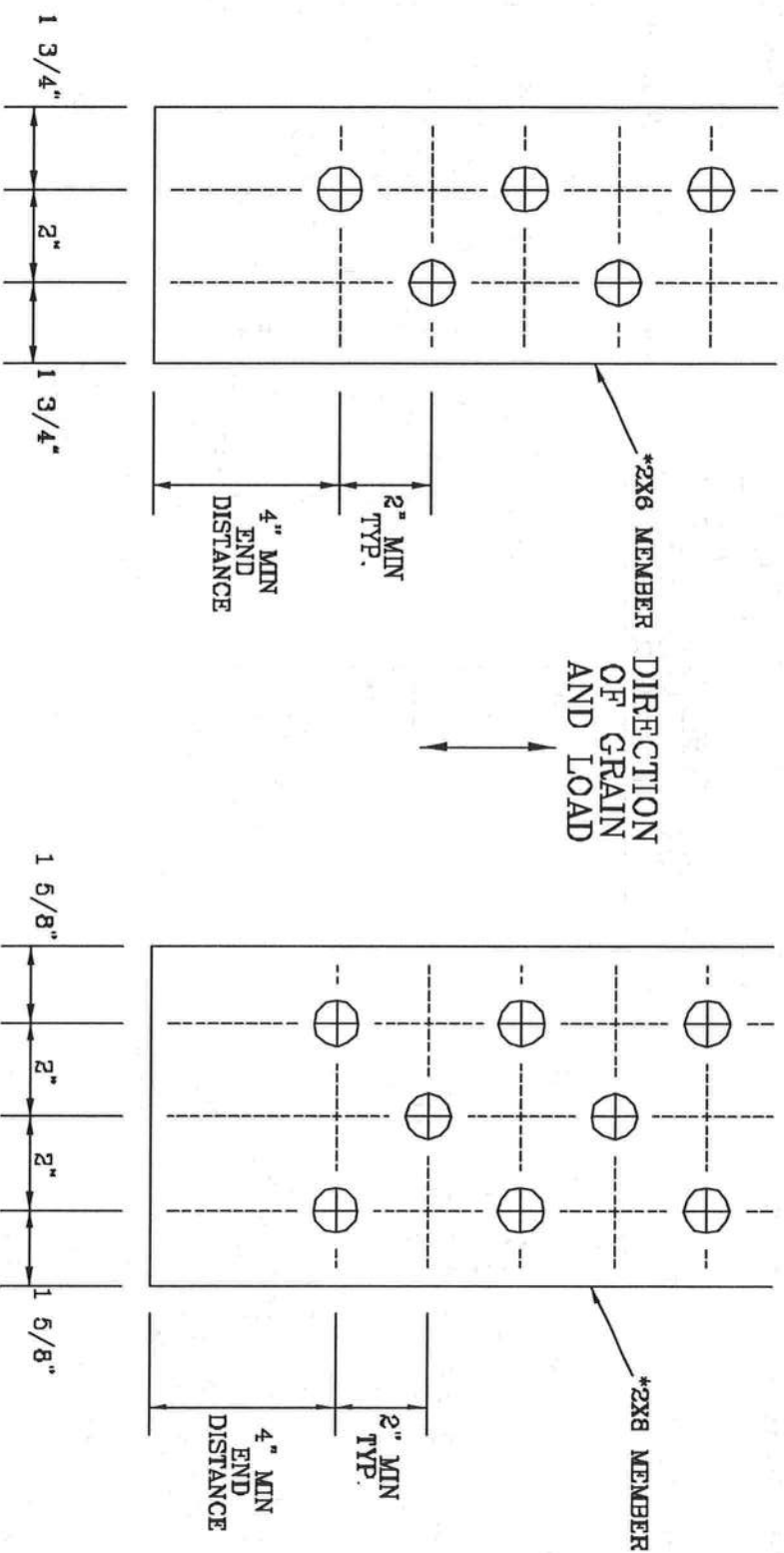
| |
|------|
| 1.25 |
| 24 |

10

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.

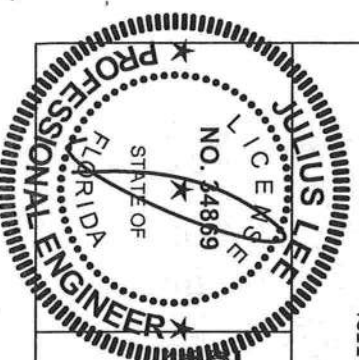
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A626.016



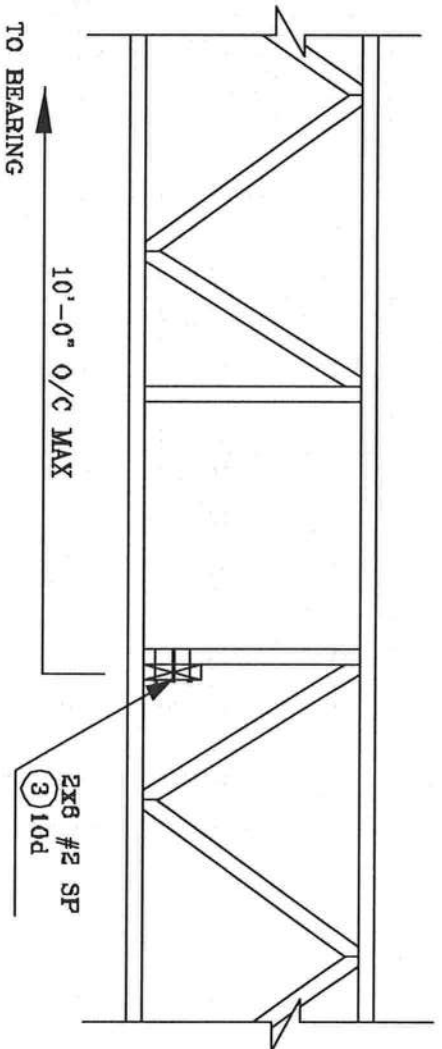
WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO WEST-80 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 3800 DOWNSIDE DR., SUITE 200, MADISON, WI 53719 AND AISC/CESG TRUSS COUNCIL FOR FINISHES. UNLESS OTHERWISE INDICATED, THE ABOVE SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOLTS OR NUTS SHALL HAVE A PROPERLY ATTACHED RIGID GELING.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2006

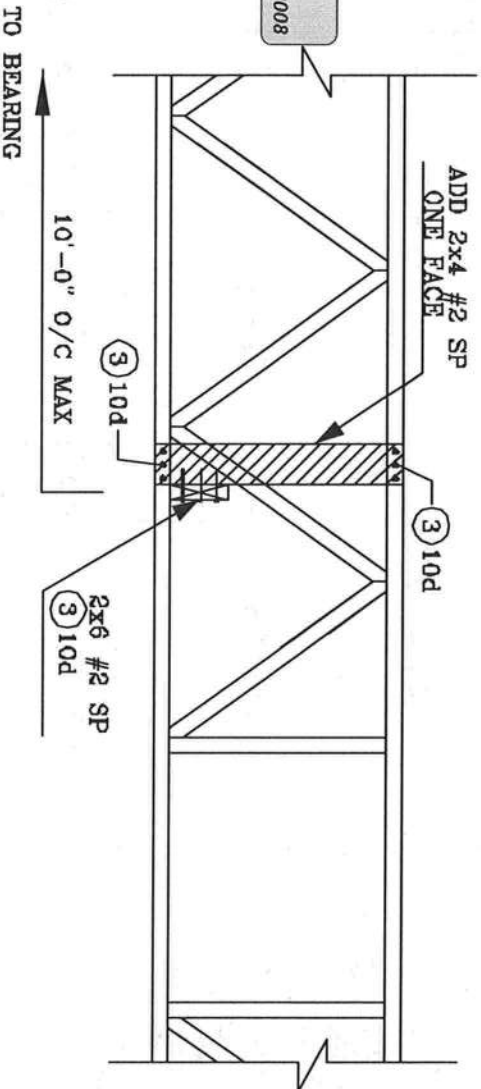
JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 ST 4th AVENUE
DELAFT BEACH, FL 33444-2161
No. 34869
STATE OF FLORIDA

| | | | |
|-----------|-----|------|--------------|
| TC LL | PSF | REF | BOLT SPACING |
| TC DL | PSF | DATE | 11/26/03 |
| BC DL | PSF | DRWG | CNBOLTSF1103 |
| BC LL | PSF | ENG | JL |
| TOT. LD. | PSF | | |
| DUR. FAC. | | | |
| SPACING | | | |

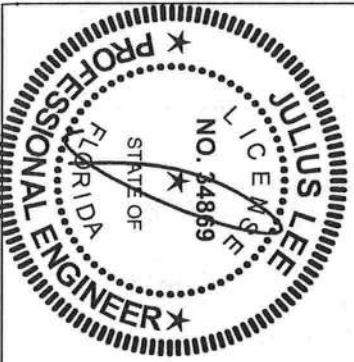
STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



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 41st AVENUE
DIKEWAY BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

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 1/2" or WS35 1/4" x 6" or WS6(1) | 4 | 1,915 | 1,435(4) | 1,435 | 1,275 | 1,860(2) | 1,405(2) |
| | 6 | 2,870 | 2,150 (4) | 2,150 | 1,915 | 2,785(2) | 2,110(2) |
| | 8 | 3,825 | 2,870 (4) | 2,870 | 2,550 | 3,715(2) | 2,810(2) |
| 3 3/8" or 5" TrussLok™ | 4 | 2,545 | 1,910 (4) | 1,910 | 1,695 | 1,925(3) | 1,775(3) |
| | 6 | 3,815 | 2,860 (4) | 2,860 | 2,545 | 2,890(3) | 2,665(3) |
| | 8 | 5,090 | 3,815 (4) | 3,815 | 3,390 | 3,855(3) | 3,550(3) |

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

See General Notes on page 38

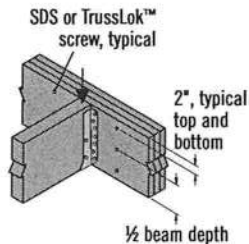
(2) 6" long screws required.

(3) 5" long screws required.

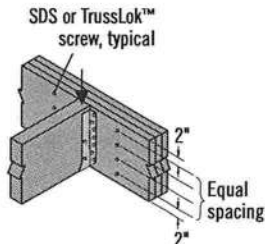
(4) 3 1/2" and 3 3/8" long screws must be installed on both sides.

Connections

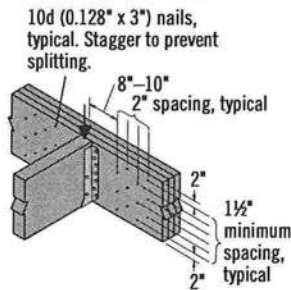
4 or 6" Screw Connection



8 Screw Connection

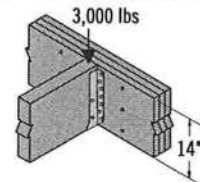


Nail Connection



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

Point Load Design Example



First, verify that a 3-ply 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 3/8" 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 3/8" 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.

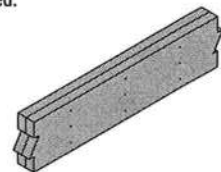
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

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.



L6

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

| | | | | | |
|---|--------------|---------------------|--|----------|--|
| Job 294094 | Truss F01 | Truss Type FLOOR | Qty 17 | Ply 1 | PAUL SHORT ADD. 7 FLOOR 294094001 Job Reference (optional) |
| Builders FirstSource, Lake City, FL 32055 | | | 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Dec 04 08:26:21 2008 Page 1 | | |

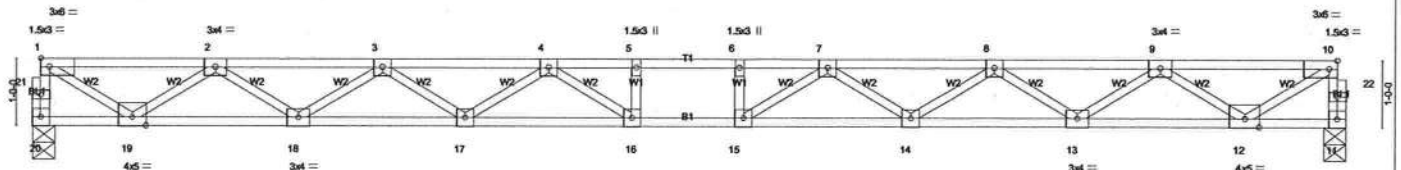
0-1-8

1-3-0

1-5-0

0-1-8

Scale = 1:33.2



| | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|
| 1-6-0 | 4-0-0 | 6-6-0 | 13-2-0 | 15-8-0 | 18-2-0 | 19-8-0 |
| 1-6-0 | 2-6-0 | 2-6-0 | 6-8-0 | 2-6-0 | 2-6-0 | 1-6-0 |

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

| LOADING (psf) | SPACING | 1-4-0 | CSI | DEFL | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|---------------|---------|
| TCLL 40.0 | Plates Increase | 1.00 | TC 0.33 | Vert(LL) | -0.38 15-16 | >607 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber Increase | 1.00 | BC 0.88 | Vert(TL) | -0.60 15-16 | >389 | 240 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.46 | Horz(TL) | 0.08 11 | n/a | n/a | | |
| BCDL 5.0 | Code FBC2004/TPI2002 | | (Matrix) | | | | | | |
| | | | | | | | | Weight: 95 lb | |

LUMBER

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

BRACING

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

REACTIONS (lb/size) 20=708/0-4-0, 11=708/0-4-0

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 20-21=704/0, 1-21=702/0, 11-22=704/0, 10-22=702/0, 1-2=998/0, 2-3=2495/0, 3-4=3439/0, 4-5=3910/0, 5-6=3910/0, 6-7=3910/0, 7-8=3439/0, 8-9=2495/0, 9-10=998/0
BOT CHORD 19-20=0/50, 18-19=0/1882, 17-18=0/3085, 16-17=0/3769, 15-16=0/3910, 14-15=0/3769, 13-14=0/3085, 12-13=0/1882, 11-12=0/50
WEBS 10-12=0/1139, 1-19=0/1139, 9-12=1079/0, 2-19=1079/0, 9-13=0/748, 2-18=0/748, 8-13=720/0, 3-18=720/0, 8-14=0/432, 3-17=0/432, 7-14=403/0, 4-17=403/0, 7-15=138/445, 4-16=138/445, 5-16=174/29, 6-15=174/29

NOTES (4)

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 MT20 unless otherwise indicated.
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 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

STEPPDOWN CORNER SET

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

120 MPH MAX

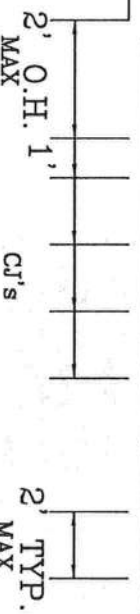
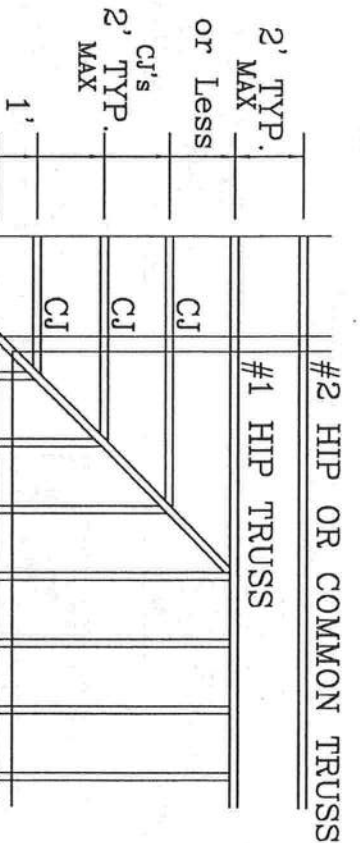
Setback 7' or Less

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

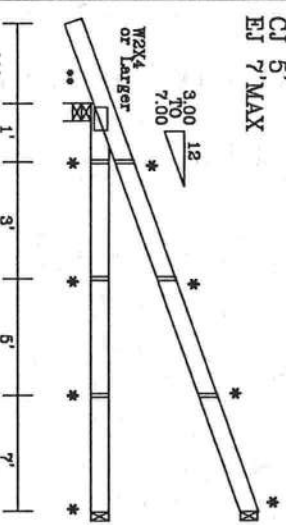
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

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

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

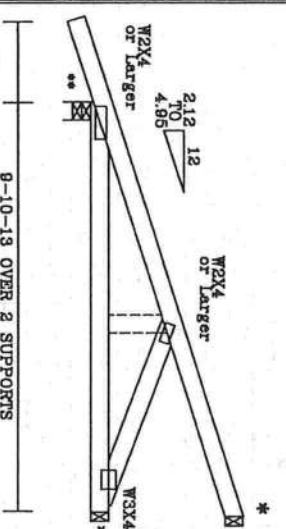


ALL HEELS TO BE STANDEAR WITH NO CANTILEVER
Cj 1'
Cj 3'
Cj 5'
Ej 7' MAX



END AND CORNER JACKS

ALL HEELS TO BE STANDEAR WITH NO CANTILEVER
HJ



HIPJACK

(3) 16d TOENAILS
** SEE FOR FOR THE DOWN

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

CORNER SET
SETBACK
7'0" MAX

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DUST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS INSTITUTE, 583 BROADWAY DR., SUITE 200, HANSON, VA 22060, AND A/C (C) TRUSS INSTITUTE. THESE TRUSSES ARE DESIGNED FOR THE FOLLOWING CONDITIONS: 1. ALL TRUSSES SHALL BE PROPERLY ATTACHED TO THE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. 2. ALL TRUSSES SHALL BE PROPERLY ATTACHED TO THE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. 3. ALL TRUSSES SHALL BE PROPERLY ATTACHED TO THE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

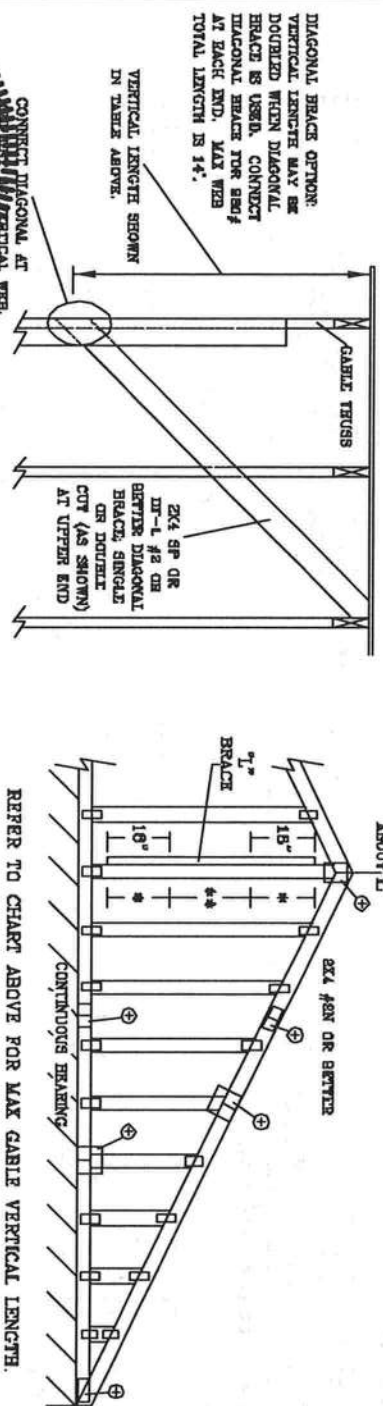
DESIGNER: J. L. LEE
NO. 34859-411
STATE OF ALABAMA
PROFESSIONAL ENGINEER

| ITEM | QTY | UNIT | PRICE | TOTAL |
|-----------------|-----|------------|-------|------------|
| 1. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 2. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 3. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 4. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 5. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 6. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 7. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 8. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 9. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 10. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 11. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 12. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 13. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 14. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 15. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 16. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 17. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 18. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 19. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 20. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 21. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 22. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 23. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 24. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 25. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 26. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 27. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 28. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 29. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 30. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 31. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 32. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 33. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 34. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 35. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 36. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 37. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 38. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 39. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 40. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 41. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 42. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 43. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 44. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 45. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 46. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 47. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 48. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 49. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 50. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 51. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 52. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 53. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 54. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 55. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 56. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 57. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 58. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 59. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 60. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 61. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 62. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 63. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 64. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 65. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 66. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 67. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 68. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 69. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 70. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 71. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 72. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 73. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 74. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 75. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 76. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 77. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 78. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 79. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 80. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 81. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 82. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 83. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 84. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 85. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 86. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 87. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 88. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 89. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 90. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 91. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 92. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 93. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 94. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 95. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 96. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 97. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 98. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 99. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |
| 100. 20 MAX PSF | 1 | 20 MAX PSF | 1.25 | 20 MAX PSF |

REVIEWED
By Julius Lee at 10:52 am, Jun 27, 2008

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

| MAX GABLE VERTICAL LENGTH | | | | | | | | | | | | | | | | |
|---------------------------|----------------|----------------|--------------|--------------------|---------|--------------------|---------|---------------------|---------|--------------------|---------|--------------------|---------|---------------------|--|--|
| CABLE VERTICAL SPACING | 2x4 SPECIES | BRACE GRADE | NO BRACES | (1) 1x4 T" BRACE * | | (1) 2x4 T" BRACE * | | (2) 2x4 T" BRACE ** | | (1) 2x6 T" BRACE * | | (2) 2x6 T" BRACE * | | (2) 2x8 T" BRACE ** | | |
| | | | | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | | | |
| 24" O.C. | SPF | #1 / #2 | 3' 2" | 5' 6" | 6' 8" | 6' 6" | 6' 9" | 7' 10" | 8' 0" | 10' 3" | 10' 7" | 12' 3" | 12' 7" | | | |
| | | #3 | 3' 1" | 4' 5" | 4' 5" | 6' 10" | 5' 10" | 7' 10" | 7' 10" | 9' 1" | 9' 1" | 12' 3" | 12' 3" | | | |
| | | STUD | 3' 1" | 4' 6" | 4' 5" | 5' 10" | 6' 10" | 7' 10" | 7' 10" | 9' 1" | 9' 1" | 12' 3" | 12' 3" | | | |
| | HF | STANDARD | 2' 11" | 3' 6" | 3' 9" | 6' 0" | 5' 0" | 6' 9" | 6' 9" | 7' 10" | 7' 10" | 10' 7" | 10' 7" | | | |
| | | #1 | 3' 6" | 5' 8" | 5' 11" | 6' 8" | 7' 0" | 7' 10" | 8' 5" | 10' 3" | 11' 1" | 12' 3" | 13' 2" | | | |
| | | #2 | 3' 6" | 5' 11" | 6' 5" | 7' 0" | 7' 10" | 8' 5" | 10' 3" | 11' 1" | 12' 3" | 13' 2" | 13' 2" | | | |
| | SP | #3 | 3' 3" | 4' 6" | 4' 6" | 6' 0" | 6' 0" | 7' 10" | 8' 1" | 9' 4" | 9' 4" | 12' 3" | 12' 6" | | | |
| | | STUD | 3' 3" | 4' 6" | 4' 6" | 6' 0" | 6' 0" | 7' 10" | 8' 1" | 9' 4" | 9' 4" | 12' 3" | 12' 6" | | | |
| | | STANDARD | 3' 0" | 3' 10" | 3' 10" | 5' 11" | 5' 11" | 7' 10" | 8' 0" | 9' 3" | 9' 3" | 12' 3" | 12' 6" | | | |
| | 16" O.C. | SPF | #1 / #2 | 3' 8" | 6' 4" | 6' 6" | 7' 6" | 7' 8" | 8' 11" | 9' 2" | 11' 6" | 12' 1" | 14' 0" | 14' 0" | | |
| #3 | | | 3' 7" | 5' 5" | 5' 5" | 7' 2" | 7' 2" | 8' 11" | 8' 11" | 11' 2" | 11' 2" | 14' 0" | 14' 0" | | | |
| STUD | | | 3' 7" | 5' 5" | 5' 5" | 7' 2" | 7' 2" | 8' 11" | 8' 11" | 11' 2" | 11' 2" | 14' 0" | 14' 0" | | | |
| HF | | STANDARD | 3' 7" | 4' 8" | 4' 8" | 6' 2" | 6' 2" | 8' 3" | 8' 3" | 9' 7" | 9' 7" | 12' 11" | 12' 11" | | | |
| | | #1 | 4' 0" | 8' 4" | 8' 10" | 7' 8" | 8' 11" | 9' 7" | 11' 9" | 12' 8" | 14' 0" | 14' 0" | 14' 0" | | | |
| | | #2 | 3' 11" | 8' 4" | 8' 10" | 7' 8" | 8' 11" | 9' 7" | 11' 9" | 12' 8" | 14' 0" | 14' 0" | 14' 0" | | | |
| SP | | #3 | 3' 9" | 5' 7" | 6' 7" | 7' 4" | 7' 4" | 8' 11" | 9' 6" | 11' 5" | 11' 6" | 14' 0" | 14' 0" | | | |
| | | STUD | 3' 8" | 5' 6" | 5' 6" | 7' 3" | 7' 3" | 8' 11" | 9' 6" | 11' 5" | 11' 6" | 14' 0" | 14' 0" | | | |
| | | STANDARD | 3' 8" | 4' 9" | 4' 9" | 6' 3" | 6' 3" | 8' 5" | 8' 5" | 9' 9" | 9' 9" | 13' 3" | 13' 3" | | | |
| 12" O.C. | | SPF | #1 / #2 | 4' 0" | 6' 11" | 7' 2" | 6' 3" | 6' 6" | 9' 10" | 10' 1" | 12' 11" | 13' 4" | 14' 0" | 14' 0" | | |
| | #3 | | 3' 11" | 6' 3" | 6' 3" | 8' 3" | 8' 3" | 9' 10" | 9' 10" | 12' 11" | 12' 11" | 14' 0" | 14' 0" | | | |
| | STUD | | 3' 11" | 6' 3" | 6' 3" | 8' 3" | 8' 3" | 9' 10" | 9' 10" | 12' 11" | 12' 11" | 14' 0" | 14' 0" | | | |
| | HF | STANDARD | 3' 11" | 5' 4" | 5' 4" | 7' 1" | 7' 1" | 9' 6" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | 14' 0" | | | |
| | | #1 | 4' 5" | 6' 11" | 7' 6" | 8' 3" | 8' 11" | 9' 10" | 10' 7" | 12' 11" | 13' 11" | 14' 0" | 14' 0" | | | |
| | | #2 | 4' 4" | 6' 11" | 7' 6" | 8' 3" | 8' 11" | 9' 10" | 10' 7" | 12' 11" | 13' 11" | 14' 0" | 14' 0" | | | |
| | SP | #3 | 4' 2" | 6' 4" | 6' 5" | 8' 3" | 8' 6" | 9' 10" | 10' 4" | 12' 11" | 13' 3" | 14' 0" | 14' 0" | | | |
| | | STUD | 4' 2" | 6' 4" | 6' 4" | 8' 3" | 8' 6" | 9' 10" | 10' 4" | 12' 11" | 13' 1" | 14' 0" | 14' 0" | | | |
| | | STANDARD | 4' 0" | 5' 6" | 5' 6" | 7' 3" | 7' 3" | 8' 9" | 9' 9" | 11' 4" | 11' 4" | 14' 0" | 14' 0" | | | |



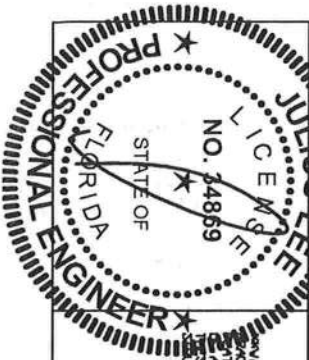
| BRACING GROUP SPECIES AND GRADES: | | GROUP A: | | GROUP B: | |
|-----------------------------------|------|----------|------|----------|------|
| SPRUCE-PINE-YR | STUD | #1 / #2 | STUD | #1 / #2 | STUD |
| DOUGLAS FIR-LARCH | STUD | #1 / #2 | STUD | #1 / #2 | STUD |
| STANDARD | STUD | STANDARD | STUD | STANDARD | STUD |

CABLE TRUSS DETAIL NOTES:
 LIVE LOAD DEADLOAD COMBINATION IS L/240.
 PROVIDE UPLIFT CONNECTIONS FOR 150 PSF OVER
 CONTINUOUS BRACING (6 PSF VC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM 4' 0"
 OUTLOOKERS WITH 8' 0" OVERHANG, OR 12"
 PLYWOOD OVERHANG.
 ATTACH EACH T" BRACE WITH 104 NAILS.
 # FOR (1) T" BRACE. SPACE NAILS AT 8" O.C.
 OR 16" END ZONES AND 4" O.C. BETWEEN ZONES.
 * FOR (2) T" BRACES: SPACE NAILS AT 3" O.C.
 OR 16" END ZONES AND 6" O.C. BETWEEN ZONES.
 T" BRACING MUST BE A MINIMUM OF 80% OF WEB
 MEMBER LENGTH.

| CABLE VERTICAL PLATE SIZES | | NO SERVICE | | 2x4 | |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| VERTICAL LENGTH | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" |
| VERTICAL LENGTH | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" |

| CABLE VERTICAL PLATE SIZES | | NO SERVICE | | 2x4 | |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| VERTICAL LENGTH | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" |
| VERTICAL LENGTH | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" |

| CABLE VERTICAL PLATE SIZES | | NO SERVICE | | 2x4 | |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| VERTICAL LENGTH | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" | LESS THAN 4' 0" |
| VERTICAL LENGTH | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" | GREATER THAN 4' 0" |



ANY WORKMAN TRASSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
 SECURING. REFER TO BCST-1-03 BUILDING COMPONENT SAFETY (INTERPRETING), PUBLISHED BY THE TRUSS
 INSTITUTE, 388 ENTERPRISE DR., SUITE 200, MOUNTAIN VIEW, VA 22111 AND VITA (WOOD TRUSS COASTAL
 DESIGN) FOR SPECIFIC INFORMATION. THE GOOD SHALL HAVE PROPERLY ATTACHED
 STRUCTURAL PANELS AND BOLLARD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

JULIUS LEE'S
 CONSULTING ENGINEERS P.A.
 1456 SW 4th AVENUE
 DELRAY BEACH, FL 33444-2101

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

No. 34869
 STATE OF FLORIDA

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

| | |
|------|-------------------------|
| REF | ASCE 7-02-CAB1030 |
| DATE | 11/26/03 |
| DWG | WTRC STD CABLE SET 2 MT |
| ENG | |

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 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 SPLICE IS NOT DIRECTLY OVER ANOTHER.

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

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

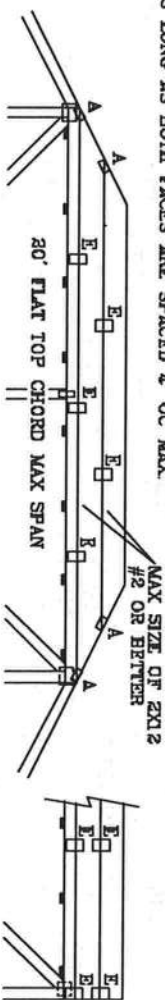
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

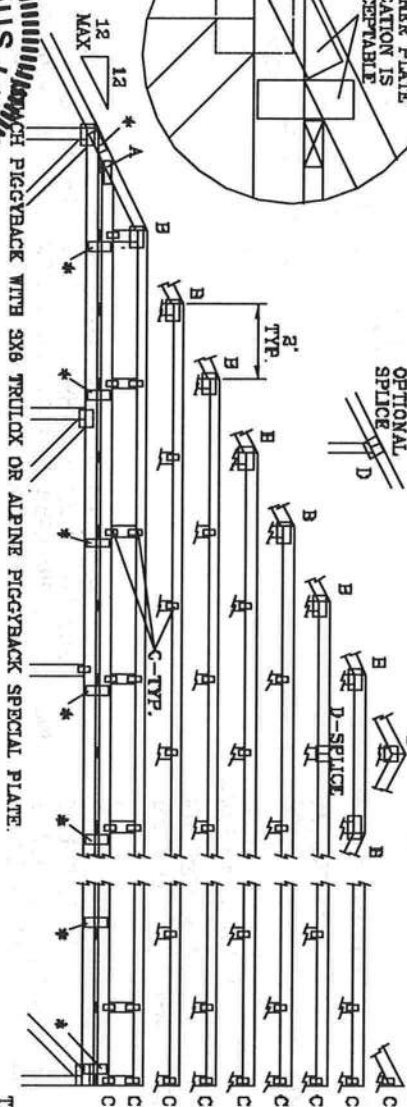
110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST
CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF
110 MPH WIND, 30' MEAN HGT, EBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF
WIND TC DL=5 PSF, WIND BC DL=5 PSF

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.



OPTIONAL
SPLICE
D



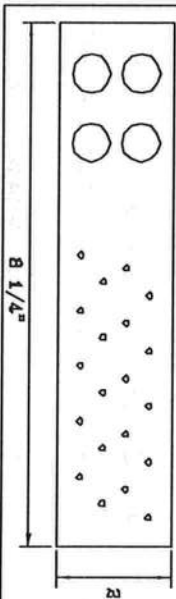
THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 647,045

| JOINT TYPE | SPANS UP TO | | |
|------------|---|-------|-------|
| | 30' | 36' | 62' |
| A | 2X4 | 2.5X4 | 3X5 |
| B | 4X6 | 6X6 | 6X6 |
| C | 1.5X3 | 1.5X4 | 1.5X4 |
| D | 5X4 | 6X6 | 6X6 |
| E | 4X8 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY | | |

ATTACH TRUSS PLATES WITH (B) 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 CHART |
|-------------|--|
| 0' TO 7'9" | NO BRACING |
| 7'9" TO 10' | 1X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d 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 SPACED 4' OC OR LESS.



ADDITIONAL TRUSSES REQUIRE OFFICE TIME IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SECT 1-10 FOR TRUSS INFORMATION. JULIUS LEE'S ENGINEERS P.A. 1400 SW 4TH AVENUE, SUITE 200, MIAMI, FL 33135. (305) 371-1111. FAX (305) 371-1112. WWW.JULIUSLEE.COM. UNLESS OTHERWISE INDICATED, TRUSS CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIBBON CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 SW 4TH AVENUE
SUITE 200, MIAMI, FL 33135
TEL: 305-371-1111

MAX LOADING

55 PSF AT
1.33 DUR. FAC.

50 PSF AT
1.25 DUR. FAC.

47 PSF AT
1.15 DUR. FAC.

SPACING 24.0"

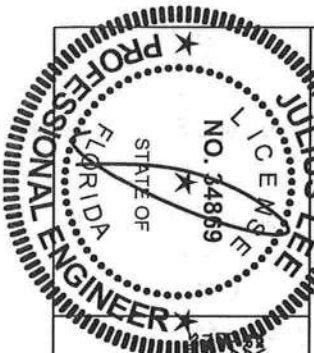
REF PIGGYBACK

DATE 09/12/07

DRWG/ITEK STD PIGGY
-ENG JL

REVIEWED

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



No. 34869
STATE OF FLORIDA

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.

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.

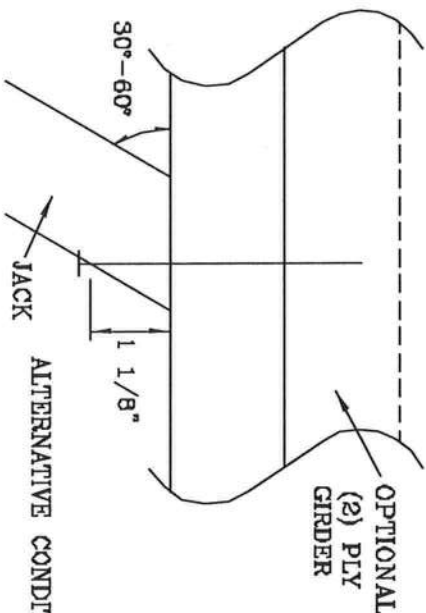
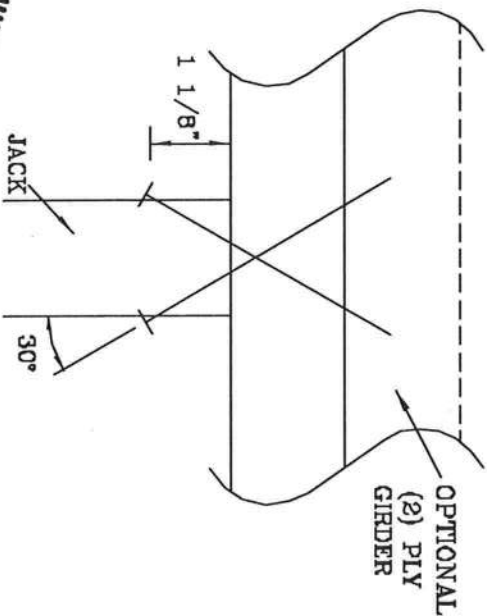
PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 – EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

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

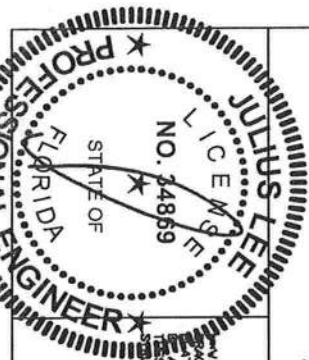
MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

| NUMBER OF TOE-NAILS | SOUTHERN PINE | | DOUGLAS FIR-LARCH | | HEM-FIR | | SPRUCE PINE FIR | |
|------------------------|---------------|---------|-------------------|---------|---------|---------|-----------------|---------|
| | 1 PLY | 2 PILES | 1 PLY | 2 PILES | 1 PLY | 2 PILES | 1 PLY | 2 PILES |
| 2 | 187# | 256# | 181# | 234# | 156# | 203# | 154# | 189# |
| 3 | 286# | 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.



THIS DRAWING REPLACES DRAWING 784040



REWARDING** THIS REQUIRES EXTENSIVE CARE FABRICATING, MINING, SHIPPING, DISTILLING AND
ECONOMIC. REFER TO BEST-1-43 CULMING COMPONENT SAFETY INTERNATIONAL, PUBLISHED BY THE GRASS
WIRE INSTITUTE, 388 DUNDEN RD., SUITE 200, MINNISTON, MN 55373 AND VIOI (400) THREE COUNCIL
IN AMERICA, 6800
EASTERN BLVD., SUITE 100, MINNISTON, MN 55373 FOR SAFETY PRACTICES PRIOR TO PERFORMING
THOSE FUNCTIONS. UNLESS OTHERWISE INDICATED, THIS CORD SHALL HAVE PERCENT ATTACHED
TO THE CORD. CORDS WITH PERCENT ATTACHED SHALL HAVE A PERCENT ATTACHED RIGID CORD
CONSTRUCTION. PERCENT ATTACHED SHALL HAVE A PERCENT ATTACHED RIGID CORD

REVIEWED

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

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34068
STATE OF FLORIDA

| TC LL | PSF | REF | TOE-NAIL |
|-------|-----|-----|----------|
|-------|-----|-----|----------|

| | | | |
|-------|-----|------|----------|
| TC DL | PSF | DATE | 09/12/07 |
|-------|-----|------|----------|

| | | | |
|-------|-----|------|-------------|
| BC DL | PSE | DRWG | CNTONALL103 |
|-------|-----|------|-------------|

| BC LT | PSF -ENG JL |
|-------|-------------|
|-------|-------------|

TOT. LD. PSH

DUR. FAC. 1.00

SPACING

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 600C-01

Residential Limited Applications Prescriptive Method C

NORTH 1 2 3

Small Additions, Renovations & Building Systems

Compliance with Method C of Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600C-01 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single and multifamily residences. Alternative methods are provided for additions by use of Form 600B-01 or 600A-01.

| | | |
|--------------------------------------|------------------------------------|--|
| PROJECT NAME: <u>Short</u> | BUILDER: <u>PAUL Short</u> | CLIMATE ZONE: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> |
| AND ADDRESS: <u>109 SW Bobnettle</u> | PERMITTING OFFICE: <u>Columbia</u> | |
| OWNER: <u>Short</u> | PERMIT NO.: <u>27676</u> | JURISDICTION NO.: <u>221000</u> |

SMALL ADDITIONS TO EXISTING RESIDENCES (600 Square feet or less of conditioned area). Prescriptive requirements in Tables 6C-1, 6C-2 and 6C-3 apply only to the components of the addition, not to the existing building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components separating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. RENOVATIONS (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 6C-1 and 6C-2 apply only to the components and equipment being renovated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covered by this form. BUILDING SYSTEMS Comply when complete new system is installed.

Please Print

CK

- Renovation, Addition, New System or Manufactured Home
- Single family detached or Multifamily attached
- If Multifamily—No. of units covered by this submission
- Conditioned floor area (sq. ft.)
- Predominant eave overhang (ft.)
- Glass area and type:
 - Clear glass
 - Tint, film or solar screen
- Percentage of glass to floor area
- Floor type and insulation:
 - Slab-on-grade (R-value)
 - Wood, raised (R-value)
 - Wood, common (R-value)
 - Concrete, raised (R-value)
 - Concrete, common (R-value)
- Wall type and insulation:
 - Exterior:
 - Masonry (Insulation R-value)
 - Wood frame (Insulation R-value)
 - Adjacent:
 - Masonry (Insulation R-value)
 - Wood frame (Insulation R-value)
 - Marriage Walls of Multiple Units* (Yes/No)
- Ceiling type and insulation:
 - Under attic (Insulation R-value)
 - Single assembly (Insulation R-value)
- Cooling system*
(Types: central, room unit, package terminal A.C., gas, existing, none)
- Heating system*: (Types: heat pump, elec. strip, natural gas, L.P. gas, gas h.p., room or PTAC, existing, none)
- Air Distribution System*:
 - Backflow damper or single package systems* (Yes/No)
 - Ducts on marriage walls adequately sealed* (Yes/No)
- Hot water system:
(Types: elec., natural gas, other, existing, none)

* Pertains to manufactured homes with site installed components.

| | |
|--|--------------------|
| 1. <u>892.8 sq. ft.</u> | |
| 2. _____ | |
| 3. _____ | |
| 4. <u>446.4</u> | |
| 5. _____ | |
| Single Pane | Double Pane |
| 6a. <u>130</u> sq. ft. | _____ sq. ft. |
| 6b. _____ sq. ft. | <u>156</u> sq. ft. |
| 7. <u>11</u> % | _____ % |
| 8a. R= _____ lin. ft. | _____ |
| 8b. R= _____ sq. ft. | _____ |
| 8c. R= _____ sq. ft. | _____ |
| 8d. R= _____ sq. ft. | _____ |
| 8e. R= _____ sq. ft. | _____ |
| 9a-1 R= _____ <u>446.4</u> sq. ft. | _____ |
| 9a-2 R= <u>11</u> <u>446.4</u> sq. ft. | _____ |
| 9b-1 R= _____ sq. ft. | _____ |
| 9b-2 R= _____ sq. ft. | _____ |
| 9c _____ | _____ |
| 10a. R= <u>30</u> <u>464</u> sq. ft. | _____ |
| 10b. R= _____ sq. ft. | _____ |
| 11. Type: <u>central</u> | _____ |
| SEER/EER: <u>13</u> | _____ |
| 12. Type: <u>heat pump</u> | _____ |
| HSPF/COP/AFUE: <u>8.7</u> | _____ |
| 13a. _____ | _____ |
| 13b. _____ | _____ |
| 14. Type: <u>existing 3 ton</u> | _____ |
| EF: _____ | _____ |

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

PREPARED BY: Kenny Mowley DATE: 3-3-09

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

OWNER AGENT: _____ DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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 1/2" or WS35 1/4" x 6" or WS6(1) | 4 | 1,915 | 1,435(4) | 1,435 | 1,275 | 1,660(2) | 1,405(2) |
| | 6 | 2,870 | 2,150 (4) | 2,150 | 1,915 | 2,785(2) | 2,110(2) |
| | 8 | 3,825 | 2,870 (4) | 2,870 | 2,550 | 3,715(2) | 2,810(2) |
| 3 3/4" or 5" TrussLok™ | 4 | 2,545 | 1,910 (4) | 1,910 | 1,695 | 1,925(2) | 1,775(2) |
| | 6 | 3,815 | 2,860 (4) | 2,860 | 2,545 | 2,890(2) | 2,665(2) |
| | 8 | 5,090 | 3,815 (4) | 3,815 | 3,390 | 3,855(2) | 3,550(2) |

(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.

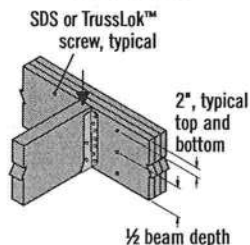
(3) 5" long screws required.

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

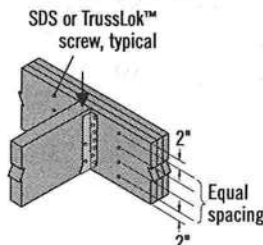
See General Notes on page 38

Connections

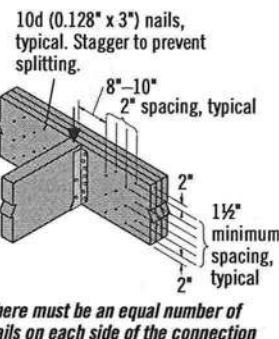
4 or 6 or Screw Connection



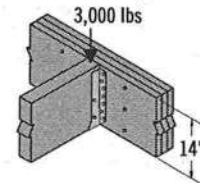
8 Screw Connection



Nail Connection



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

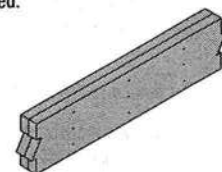
on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

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

3 1/2" Wide Pieces

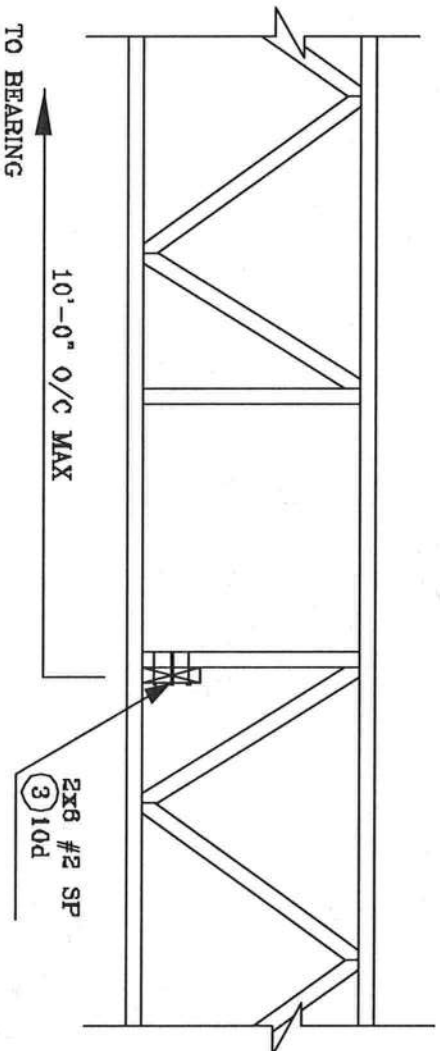
- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- 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.

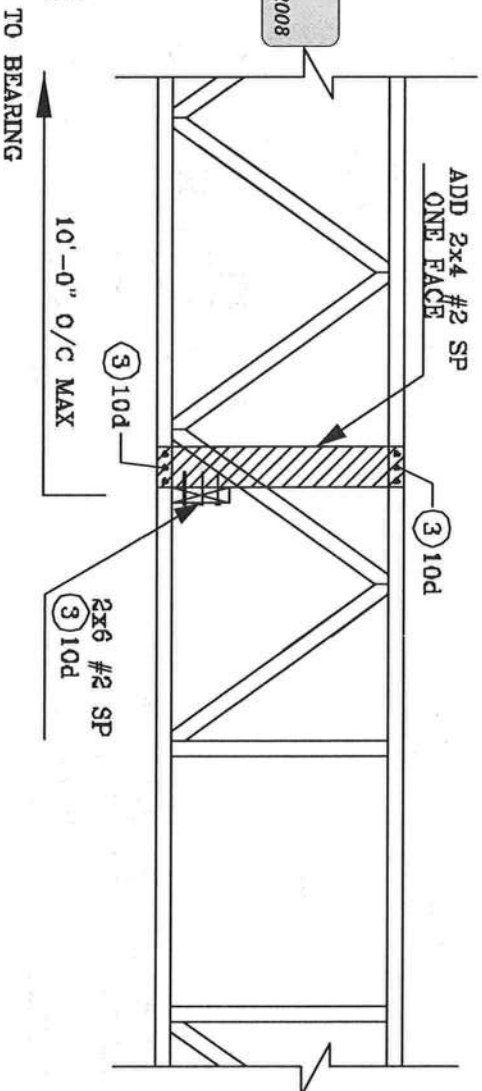


Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

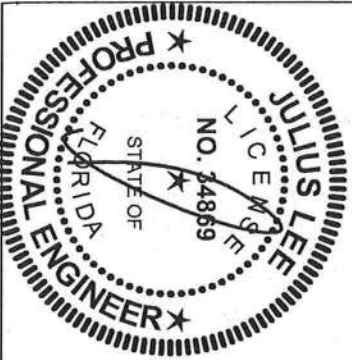
STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



REVIEWED
By Julius Lee at 11:56 am, Jun 11, 2008



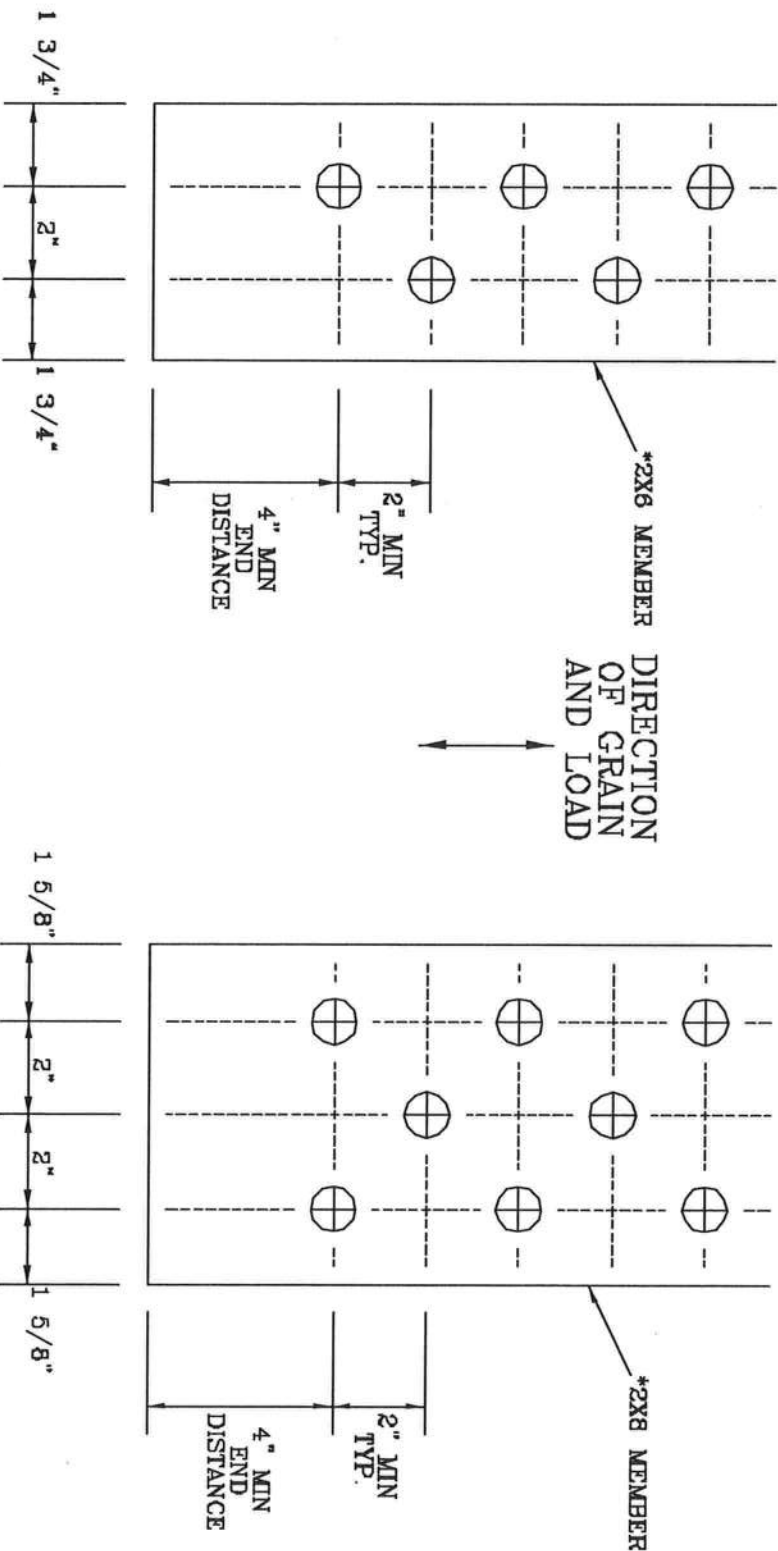
JULIUS LEE'S
CONS. ENGINEERS P.A.
1426 SW 4th AVENUE
DIKEWAY BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

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

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

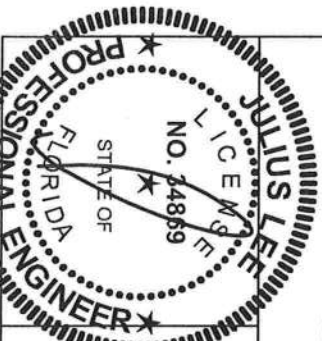
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTION. REFER TO POST-1-20 GUIDING DEPENDENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 3801 COUNTRY CLUB DRIVE, SUITE 200, WILMINGTON, VA 23791 AND WTCA CYCLED TRUSS COUNCIL, 1000 N. 10TH AVENUE, SUITE 100, DENVER, CO 80202. FOR SAFETY PRACTICES PRIOR TO PERFORMING CONSTRUCTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL FIBERS 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.
1405 17th AVENUE
DEALY BLDG., FL 33444-2401

No. 34869
STATE OF FLORIDA

| TC LL | PSF | REF | BOLT SPACING |
|-----------|-----|------|--------------|
| TC DL | PSF | DATE | 11/26/03 |
| BC DL | PSF | DRWG | CNBOLTSPI103 |
| BC LL | PSF | ENG | JL |
| TOT. LD. | PSF | | |
| DUR. FAC. | | | |
| SPACING | | | |

TRULOX CONNECTION DETAIL

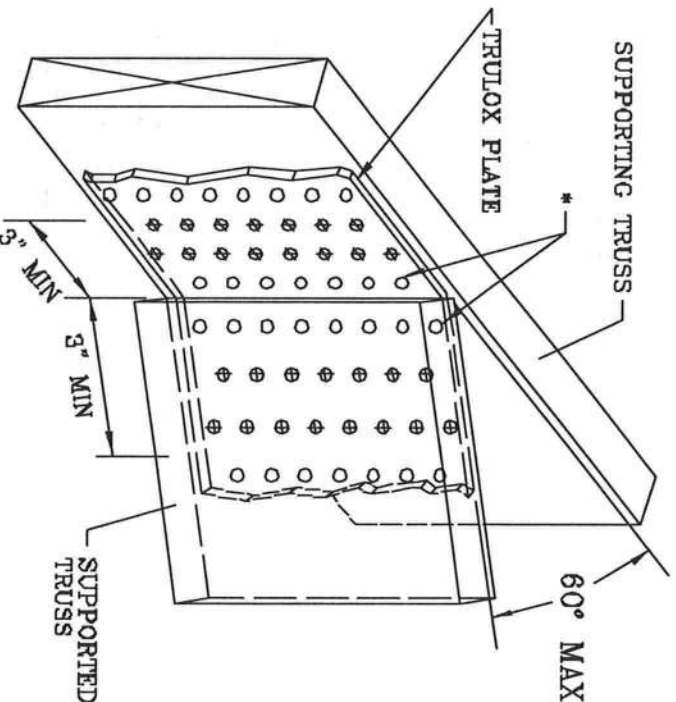
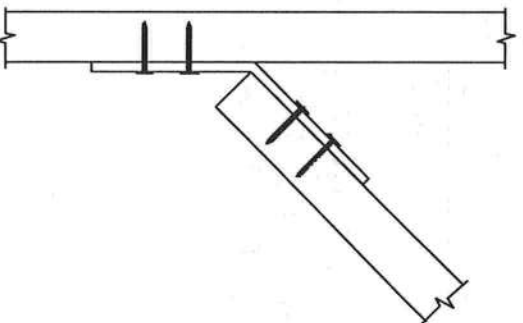
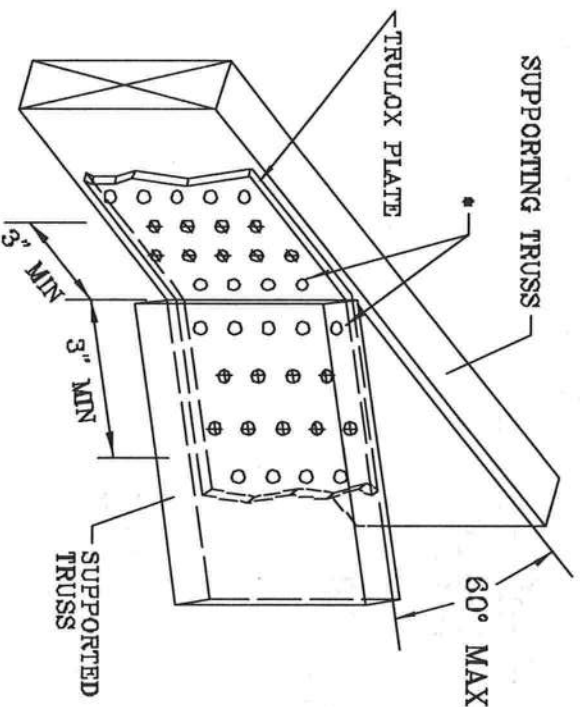
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* 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

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

MINIMUM 5X6 TRULOX PLATE

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

THIS DRAWING REPLACES DRAWINGS 1,158,989 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 ERECTION. REFER TO 2021 I-30 BUILDING DEPARTMENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 286 JONESTOWN DR., SUITE 800, MADISON, VT 05750 AND VITA CYCLO TRUSS COUNCIL, 6300 DUTCHMAN LN, MADISON, VT 05750 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th Avenue
Deerway Beach, FL 33444-2181

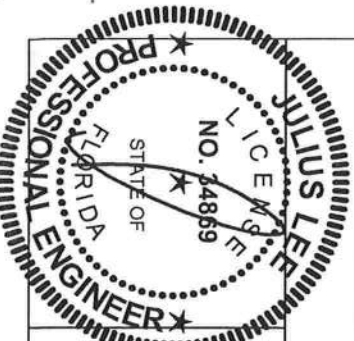
No: 34489
STATE OF FLORIDA

REF TRULOX

DATE 11/26/03

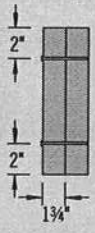
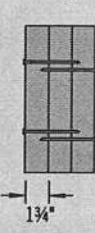
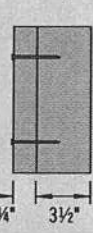
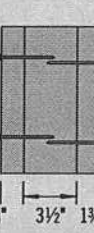
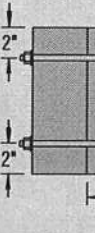
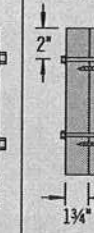
DRWG CNTRULOX1103

-ENG JL



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 ⁽¹⁾ | 2 | 12" | 370 | 280 | 280 | 245 | | |
| | 3 | 12" | 555 | 415 | 415 | 370 | | |
| 1/2" A307 Through Bolts ⁽²⁾⁽⁴⁾ | 2 | 24" | 505 | 380 | 520 | 465 | 860 | 340 |
| | | 19.2" | 635 | 475 | 655 | 580 | 1,075 | 425 |
| | | 16" | 760 | 570 | 785 | 695 | 1,290 | 505 |
| SDS 1/4" x 3 1/2" ⁽⁴⁾ | 2 | 24" | 680 | 510 | 510 | 455 | | |
| | | 19.2" | 850 | 640 | 640 | 565 | | |
| | | 16" | 1,020 | 765 | 765 | 680 | | |
| SDS 1/4" x 6" ⁽³⁾⁽⁴⁾ | 2 | 24" | | | | 455 | 465 | 455 |
| | | 19.2" | | | | 565 | 580 | 565 |
| | | 16" | | | | 680 | 695 | 680 |
| USP WS35 ⁽⁴⁾ | 2 | 24" | 480 | 360 | 360 | 320 | | |
| | | 19.2" | 600 | 450 | 450 | 400 | | |
| | | 16" | 715 | 540 | 540 | 480 | | |
| USP WS6 ⁽³⁾⁽⁴⁾ | 2 | 24" | | | | 350 | 525 | 350 |
| | | 19.2" | | | | 440 | 660 | 440 |
| | | 16" | | | | 525 | 790 | 525 |
| 3 3/8" TrussLok ⁽⁴⁾ | 2 | 24" | 635 | 475 | 475 | 425 | | |
| | | 19.2" | 795 | 595 | 595 | 530 | | |
| | | 16" | 955 | 715 | 715 | 635 | | |
| 5" TrussLok ⁽⁴⁾ | 2 | 24" | | 500 | 500 | 445 | 480 | 445 |
| | | 19.2" | | 625 | 625 | 555 | 600 | 555 |
| | | 16" | | 750 | 750 | 665 | 725 | 665 |
| 6 3/4" TrussLok ⁽⁴⁾ | 2 | 24" | | | | 445 | 620 | 445 |
| | | 19.2" | | | | 555 | 770 | 555 |
| | | 16" | | | | 665 | 925 | 665 |

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

(2) Washers required. Bolt holes to be 3/16" maximum.

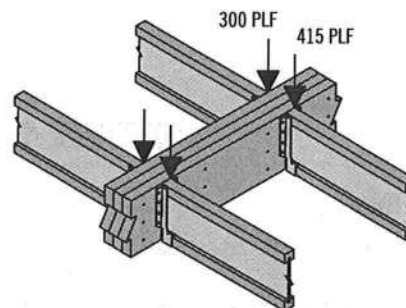
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(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.

TABLE 6C-1: PRESCRIPTIVE REQUIREMENTS FOR SMALL ADDITIONS (600 Sq. Ft. and Less), RENOVATIONS TO EXISTING BUILDINGS AND SITE-INSTALLED COMPONENTS OF MANUFACTURED HOMES.

| COMPONENT | | MINIMUM INSULATION | INSULATION INSTALLED | EQUIPMENT | | MINIMUM EFFICIENCY | INSTALLED EFFICIENCY |
|-----------|---------------------------|--------------------|----------------------|---------------|-------------------------|--------------------|----------------------|
| WALLS | Concrete Block | R-7 | _____ | COOLING | Central A/C - Split | SEER = 10.0 | SEER = _____ |
| | Frame, 2' x 4' | R-11 | _____ | | -Single Pkg. | SEER = 9.7 | SEER = _____ |
| | Frame, 2' x 6' | R-19 | _____ | | Room unit or PTAC | EER = 8.5* | EER = _____ |
| | Common, Frame | R-11 | _____ | | | | |
| CEILINGS | Common, Masonry | R-3 | _____ | SPACE HEATING | Electric Resistance | ANY | |
| | Under Attic | R-30 | _____ | | Heat pump - Split | HSPF = 6.8 | HSPF = _____ |
| | Single Assembly; Enclosed | R-19 | _____ | | -Single Pkg. | HSPF = 6.6 | HSPF = 8 |
| | Frame | R-13 | _____ | | Room unit or PTHP | COP = 2.7* | HSPF/ = _____ |
| FLOORS | Single Assembly; Open | R-10 | _____ | HOT WATER | Gas, natural or propane | AFUE = .78 | AFUE = _____ |
| | Common, Frame | R-11 | _____ | | Fuel Oil | AFUE = .78 | AFUE = _____ |
| | Slab-on-grade | No Minimum | _____ | | Electric Resistance | EF = .88 | EF = _____ |
| | Raised Wood | R-19 | _____ | | Gas; Natural or L.P. | EF = .54 | EF = _____ |
| DUCT | Raised Concrete | R-7 | _____ | | Fuel Oil | EF = .54 | EF = _____ |
| | Common, Frame | R-11 | _____ | | | | |
| DUCT | In unconditioned space | R-6 | 4.6 | | | | |
| | In conditioned space | No minimum | 8.6 | | | | |

* See Table 6-3, 6-7

TABLE 6C-2: PRESCRIPTIVE REQUIREMENTS FOR GLASS AREAS IN ADDITIONS ONLY

| | | | | | | | |
|---|-----------|-----------|-----------|-------------|-----------|-------------|-----------|
| Maximum percentage glass to floor area allowed is selected by type, overhang length, and solar heat gain coefficient. Maximum % = _____ Installed % = _____ | | | | | | | |
| GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED | | | | | | | |
| UP TO 20% | | UP TO 30% | | UP TO 40% | | UP TO 50% | |
| Single | Double | Single | Double | Single | Double | Single | Double |
| OH - SHGC | OH - SHGC | OH - SHGC | OH - SHGC | OH - SHGC | OH - SHGC | OH - SHGC | OH - SHGC |
| 1' - .87 | 0' - .78 | 2' - .87 | 1' - .78 | NOT ALLOWED | 2' - .78 | NOT ALLOWED | 3' - .78 |
| 0' - .75 | | 1' - .75 | 0' - .61 | | 1' - .61 | | 2' - .61 |
| | | 0' - .57 | | | 0' - .44 | | 1' - .44 |
| | | | | | | | 0' - .35 |
| Get certified SHGC from the manufacturer or use defaults: Single clear SHGC = .87, double clear SHGC = .78, and single tint SHGC = .75 | | | | | | | |

TABLE 6C-3 MINIMUM REQUIREMENTS FOR ALL PACKAGES

| COMPONENTS | SECTION | REQUIREMENTS | CHECK |
|---|---------|--|-------|
| Exterior Joints & Cracks | 606.1 | To be caulked, gasketed, weather-stripped or otherwise sealed. | |
| Exterior Windows & Doors | 606.1 | Max. 0.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area. | |
| Sole & Top Plates | 606.1 | Sole plates and penetrations through top plates of exterior walls must be sealed. | |
| Recessed Lighting | 606.1 | Type IC rated with no penetrations (two alternatives allowed). | |
| Multi-story Houses | 606.1 | Air barrier on perimeter of floor cavity between floors. | |
| Exhaust Fans | 606.1 | Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork. | |
| Combustion Heating | 606.1 | Combustion space and water heating systems must be provided with outside combustion air, except for direct vent appliances. | |
| Water Heaters | 612.1 | Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers. | |
| Swimming Pools & Spas | 612.1 | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have minimum thermal efficiency of 78%. | |
| Hot Water Pipes | 612.1 | Insulation is required for hot water circulating systems (including heat recovery units). | |
| Shower Heads | 612.1 | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG. | |
| HVAC Duct Construction, Insulation & Installation | 610.1 | All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section 610.1. Ducts in attics must be insulated to a minimum of R-6. | ✓ |
| HVAC Controls | 607.1 | Separate readily accessible manual or automatic thermostat for each system. | ✓ |

GENERAL DIRECTIONS:

- On Table 6C-1 indicate the R-value of the insulation being added to each component and the efficiency levels of the equipment being installed. All R-values and efficiencies installed must meet or exceed the minimum values listed. Components and equipment neither being added nor renovated may be left blank.
- ADDITIONS ONLY: Determine the percentage of new glass to conditioned floor area in the addition as follows: Total the areas of all glass windows, sliding glass doors and glass door panels. Double the area of all non-vertical roof glass and add it to the previous total. When glass in existing exterior walls is being removed or enclosed by the addition, an amount equal to the total area of this glass may be subtracted from the total glass area. Divide the adjusted glass area total by the conditioned floor area of the addition. Multiply by 100 to get the percent. Find the largest glass percentage under which your calculated percentage falls on Table 6C-2. Prescriptives are given by the type of glass (Single or Double pane) and the overhang (OH) paired with a solar heat gain coefficient (SHGC). For a given glass type and overhang, the minimum solar heat gain coefficient allowed is specified. Actual glass windows and doors previously in the exterior walls of the house and being reinstalled in the addition do not have to comply with the overhang and solar heat gain coefficient requirements on Table 6C-2. All new glass in the addition must meet the requirement for one of the options in the glass percentage category you indicated. The overhang (OH) distance is measured perpendicularly from the face of the glass to a point directly under the outermost edge of the overhang.
- RENOVATIONS ONLY: Replacement glass needs to meet the following requirements. Any glass type and solar heat gain coefficient may be used for glass areas which are under at least a two foot overhang and whose lowest edge does not extend further than 8 feet from the overhang. Glass areas being renovated that do not meet this criteria must be either single-pane tinted, double-pane clear or double-pane tinted.
- BUILDING SYSTEMS: Comply when new system is installed for system installed.
- Complete the information requested on the top half of page 1.
- Read "Minimum Requirements for Small Additions and Renovations", Table 6C-3, and check all applicable items.
- Read, sign and date the "Owner/Agent" certification statement on page 1.

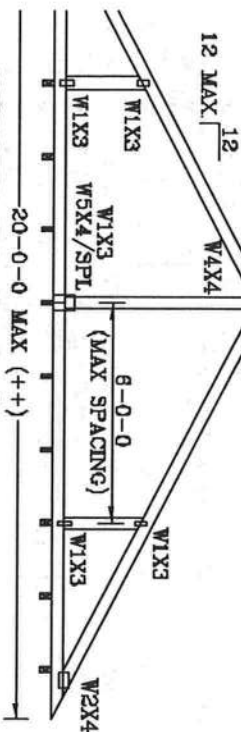
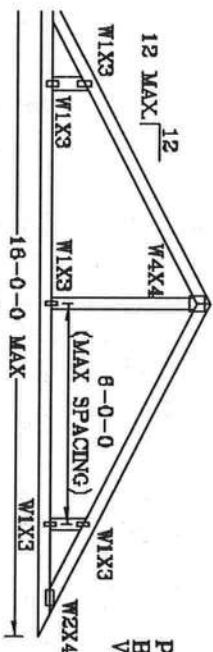
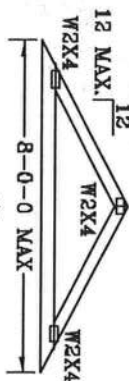
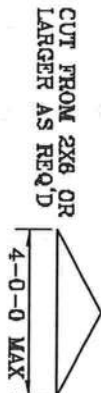
VALLEY TRUSS DETAIL

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

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

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR
ASCE 7-02 130 MPH WIND. 15 MEAN HEIGHT, ENCLOSED
BUILDING. EXP. C. RESIDENTIAL. WIND TC DL-5 PSF.



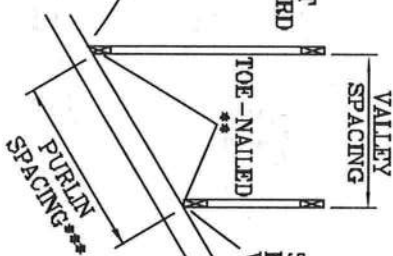
UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.6") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

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".

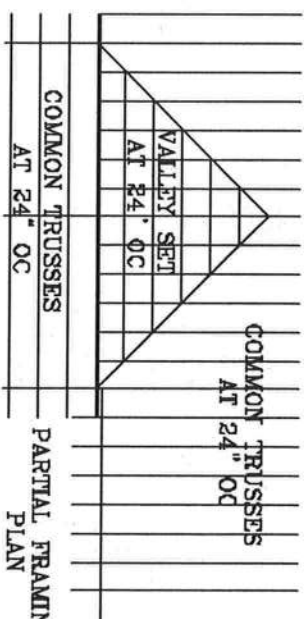
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SQUARE CUT
BOTTOM CHORD
VALLEY

OPTIONAL STUB
END DETAIL

OPTIONAL HIP
JOINT DETAIL



COMMON TRUSSES
AT 24" OC

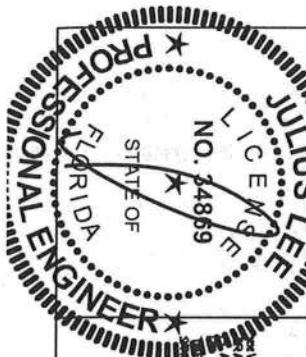
PARTIAL FRAMING
PLAN

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th Avenue
Miami Beach, FL 33444-8161

| 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 | | |

THIS DRAWING REPLACES DRAWING A105



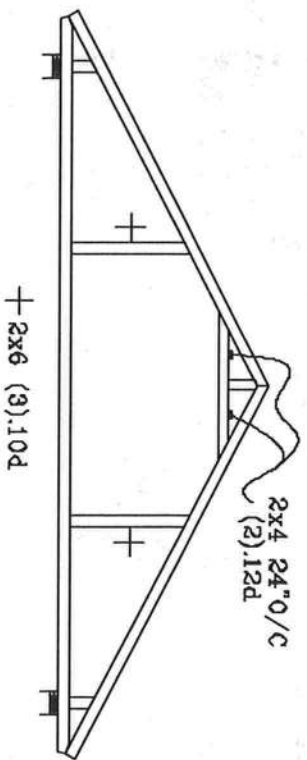
REVIEWED

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

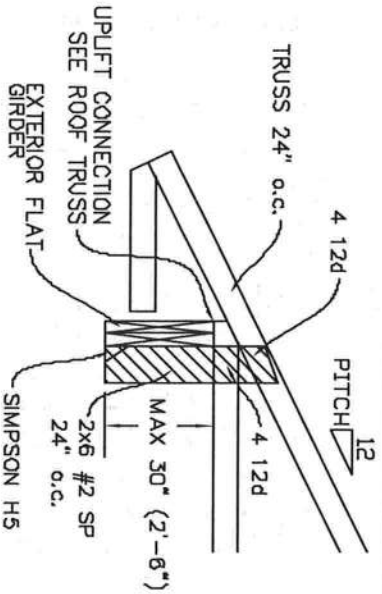
No. 34869
STATE OF FLORIDA

DUR.FAC. 1.25
SPACING 24"

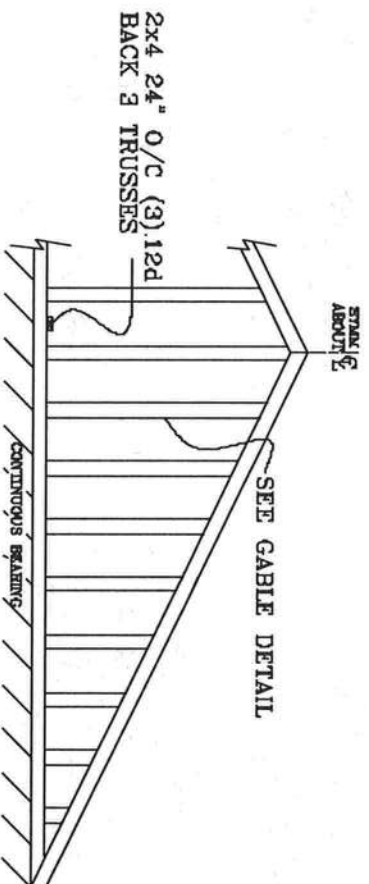
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

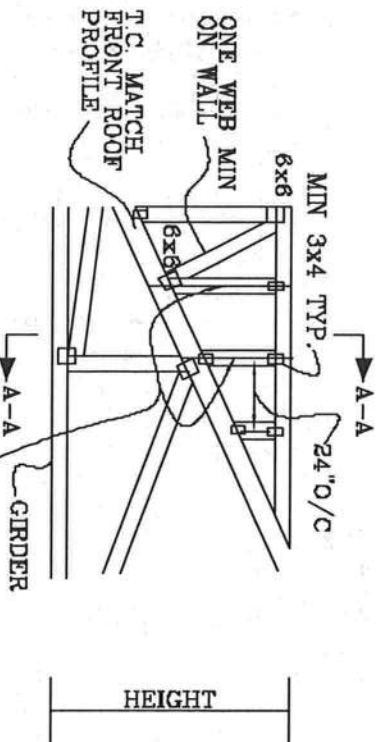


GABLE END TRUSS DETAIL



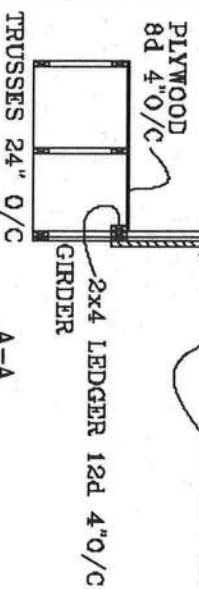
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOB

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL

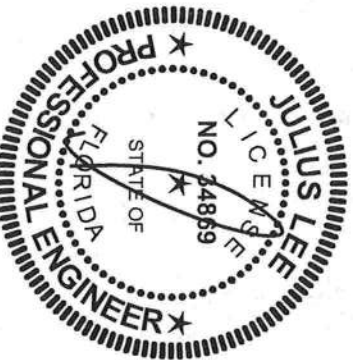


SEE ROOF TRUSSES FOR UPLIFT

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



A-A

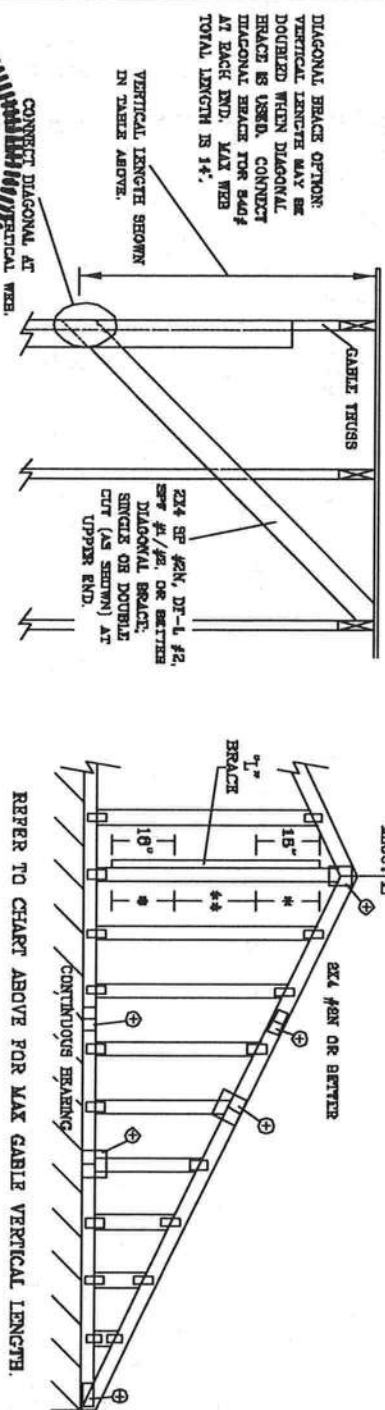


REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4TH AVENUE
DISSNEY BEACH, FL 33444-2641

No. 34869
STATE OF FLORIDA

| MAX GABLE VERTICAL LENGTH | | | | | | | | | | | | | | |
|----------------------------------|------------------|--------------|---------------------|----------|---------------------|---------|----------------------|---------|---------------------|---------|----------------------|---------|---------|--------|
| 2x4 GABLE VERTICAL SPACING | BRACE SPECIES | 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 | | |
| 24" O.C. | SPF | #1 / #2 | 3' 4" | 6' 10" | 6' 0" | 6' 11" | 7' 1" | 8' 3" | 8' 6" | 10' 10" | 11' 2" | 12' 11" | 13' 3" | |
| | | | 3' 3" | 4' 11" | 4' 11" | 6' 6" | 6' 6" | 6' 3" | 6' 3" | 10' 1" | 10' 1" | 12' 11" | 12' 11" | |
| | | STUD | 3' 3" | 4' 11" | 4' 11" | 6' 5" | 6' 6" | 8' 3" | 8' 3" | 10' 0" | 10' 0" | 12' 11" | 12' 11" | |
| | | | STANDARD | 3' 3" | 4' 2" | 4' 2" | 5' 6" | 5' 6" | 7' 5" | 7' 5" | 8' 8" | 8' 8" | 11' 6" | 11' 6" |
| | SP | #1 | 3' 8" | 5' 10" | 6' 3" | 6' 11" | 7' 5" | 8' 3" | 8' 11" | 10' 10" | 11' 8" | 12' 11" | 13' 11" | |
| | | | 3' 7" | 6' 10" | 6' 3" | 6' 11" | 7' 6" | 8' 3" | 8' 11" | 10' 10" | 11' 8" | 12' 11" | 13' 11" | |
| | | #2 | 3' 6" | 5' 0" | 6' 0" | 6' 8" | 6' 8" | 8' 3" | 8' 6" | 10' 4" | 10' 4" | 12' 11" | 13' 7" | |
| | | | STUD | 3' 6" | 5' 0" | 5' 0" | 8' 7" | 6' 8" | 8' 3" | 8' 6" | 10' 3" | 10' 3" | 12' 11" | 13' 7" |
| | DFL | STANDARD | 3' 4" | 4' 3" | 4' 3" | 5' 8" | 5' 8" | 7' 8" | 7' 8" | 8' 10" | 8' 10" | 12' 0" | 12' 0" | |
| | | | 3' 10" | 6' 8" | 6' 10" | 7' 11" | 6' 11" | 9' 6" | 9' 6" | 12' 4" | 12' 4" | 14' 0" | 14' 0" | |
| | | #1 / #2 | 3' 8" | 6' 0" | 6' 0" | 7' 11" | 7' 11" | 9' 6" | 9' 5" | 12' 4" | 12' 4" | 14' 0" | 14' 0" | |
| | | | STUD | 3' 9" | 6' 0" | 6' 0" | 7' 11" | 7' 11" | 9' 6" | 9' 5" | 12' 4" | 12' 4" | 14' 0" | 14' 0" |
| 16" O.C. | SPF | STANDARD | 3' 8" | 5' 8" | 6' 2" | 6' 10" | 6' 10" | 9' 2" | 9' 2" | 10' 7" | 10' 7" | 14' 0" | 14' 0" | |
| | | | 4' 3" | 6' 8" | 7' 2" | 7' 11" | 8' 6" | 9' 5" | 10' 2" | 10' 2" | 12' 5" | 12' 5" | 14' 0" | |
| | | #2 | 4' 2" | 6' 8" | 7' 2" | 7' 11" | 8' 6" | 9' 6" | 10' 2" | 12' 6" | 12' 6" | 14' 0" | 14' 0" | |
| | | | STUD | 4' 0" | 6' 1" | 6' 1" | 7' 11" | 8' 1" | 8' 5" | 9' 11" | 12' 6" | 12' 6" | 14' 0" | 14' 0" |
| | DFL | STANDARD | 3' 10" | 5' 3" | 5' 3" | 6' 11" | 6' 11" | 9' 4" | 9' 4" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | |
| | | | 4' 3" | 7' 4" | 7' 4" | 8' 9" | 8' 11" | 10' 6" | 10' 6" | 13' 8" | 13' 8" | 14' 0" | 14' 0" | |
| | | #3 | 4' 2" | 6' 11" | 6' 11" | 8' 9" | 8' 9" | 10' 5" | 10' 5" | 13' 8" | 13' 8" | 14' 0" | 14' 0" | |
| | | | STUD | 4' 0" | 6' 1" | 6' 1" | 8' 9" | 8' 9" | 10' 5" | 10' 5" | 13' 8" | 13' 8" | 14' 0" | 14' 0" |
| | 12" O.C. | SPF | #1 / #2 | 4' 3" | 6' 11" | 6' 11" | 8' 9" | 8' 11" | 10' 6" | 10' 6" | 13' 8" | 13' 8" | 14' 0" | 14' 0" |
| | | | | 4' 2" | 6' 11" | 6' 11" | 8' 9" | 8' 9" | 10' 5" | 10' 5" | 13' 8" | 13' 8" | 14' 0" | 14' 0" |
| | | | STUD | 4' 2" | 6' 11" | 6' 11" | 8' 9" | 8' 9" | 10' 5" | 10' 5" | 13' 8" | 13' 8" | 14' 0" | 14' 0" |
| | | | | STANDARD | 4' 2" | 6' 11" | 6' 11" | 8' 9" | 8' 9" | 10' 5" | 10' 5" | 13' 8" | 13' 8" | 14' 0" |
| SP | | #1 | 4' 3" | 6' 11" | 6' 11" | 8' 9" | 8' 11" | 10' 6" | 10' 6" | 13' 8" | 13' 8" | 14' 0" | 14' 0" | |
| | | | 4' 2" | 6' 11" | 6' 11" | 8' 9" | 8' 9" | 10' 5" | 10' 5" | 13' 8" | 13' 8" | 14' 0" | 14' 0" | |
| | | #2 | 4' 3" | 6' 11" | 6' 11" | 8' 9" | 8' 11" | 10' 6" | 10' 6" | 13' 8" | 13' 8" | 14' 0" | 14' 0" | |
| | | | STUD | 4' 3" | 6' 11" | 6' 11" | 8' 9" | 8' 11" | 10' 6" | 10' 6" | 13' 8" | 13' 8" | 14' 0" | 14' 0" |
| | | | | | | | | | | | | | | |



BRACING GROUP SPECIES AND GRADES:

GROUP A:

| | | | |
|------------------|----------|-----------|----------|
| SERVICE-PONE-TYR | | HEAVY-TYR | |
| #1 / #2 | STANDARD | #2 | STUD |
| #3 | STUD | #3 | STANDARD |

| | | | |
|-------------------|------|---------------|------|
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| #2 | STUD | #3 | STUD |
| STANDARD | | STANDARD | |

| GROUP B: | |
|-------------------|--|
| RED-FIR | |
| #1 & BTR | |
| #1 | |
| | |
| SOUTHERN PINE | |
| #1 | |
| #2 | |
| | |
| DOUGLAS FIR-LARCH | |
| #1 | |
| #2 | |

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER
 CONTINUOUS BEARING (6 PSF TC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM 4" O"
 OUTDOCKERS WITH 3" O" OVERHANG, OR 12"
 PLYWOOD OVERHANG.

ATTACH EACH T¹ BRACE WITH 104 NAILS,
FOR (1) T¹ BRACE, SPACE NAILS AT 8" O.C.,
IN 18" END ZONES AND 4" O.C. BETWEEN ZONES,
FOR (2) T¹ BRACES, SPACE NAILS AT 3" O.C.,
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
T¹ BRACING MUST BE A MINIMUM OF 80% OF WEB
MEMBER LENGTH.

| CABLE VERTICAL PLATE SIZES | |
|---|--------------|
| VERTICAL LENGTH | NO. SECTIONS |
| LESS THAN 4' 0" | 1XL OR 2XS |
| GREATER THAN 4' 0", BUT LESS THAN 11' 8" | 2XL |
| GREATER THAN 11' 8" | 2, 3XL |

+ REFER TO COLUMN THRU DESIGN FOR
FEAK, SPLICE, AND BEEL PLATES.

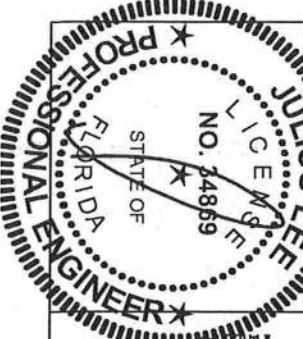
WARNING THESE REQUIRE CARE FABRICATING, HANDING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGN BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS BRIDGE INSTITUTE, 589 DOWNTOWN DR., SUITE 200, MADISON, WI 53703 AND VITA (WOOD TRUSS CONSULTANT OF AMERICA, 6300 ENTERPRISE BL, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROTECTIVE ATTACHED STRUCTURAL PLATELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

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

| | |
|------|-------------------------|
| REF | ASCE7-02-GABI2015 |
| DATE | 11/26/03 |
| DRWG | MITEX STD GABLE 15 E HT |
| -ENG | |

REVIEWED

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



| | | | | | |
|--------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | PAUL SHORT ADD. / FLOOR |
| 294094 | F01KW | GABLE | 2 | 1 | 294094002 |
| | | | | | Job Reference (optional) |

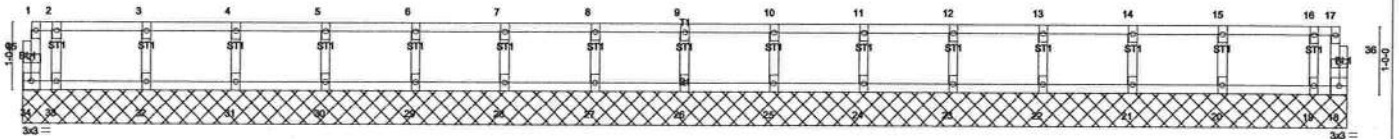
Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Dec 04 08:26:28 2008 Page 1

0-1-8

0-1-8

Scale = 1/32"



| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|--------|--------|--------|---------|--------|--------|---------|--------|--------|
| 0-6-0 | 1-10-0 | 3-2-0 | 4-6-0 | 5-10-0 | 7-2-0 | 8-6-0 | 9-10-0 | 11-2-0 | 12-6-0 | 13-10-0 | 15-2-0 | 16-6-0 | 17-10-0 | 19-2-0 | 19-8-0 |
| 0-6-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 0-6-0 |

| | | | | | | | |
|----------------------|----------------------|------------|----------------------|---------------|------------|---------------|-------------|
| LOADING (psf) | SPACING 1-4-0 | CSI | DEFL in (loc) | L/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plates Increase 1.00 | TC 0.04 | Vert(LL) n/a | - | n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber Increase 1.00 | BC 0.00 | Vert(TL) n/a | - | n/a 999 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.02 | Horz(TL) -0.00 | 18 | n/a | | |
| BCDL 5.0 | Code FBC2004/TPI2002 | (Matrix) | | | | | |
| | | | | | | Weight: 79 lb | |

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

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

REACTIONS (lb/size) 34=13/19-8-0, 18=13/19-8-0, 26=98/19-8-0, 27=98/19-8-0, 28=98/19-8-0, 29=98/19-8-0, 30=98/19-8-0, 31=97/19-8-0, 32=101/19-8-0, 33=83/19-8-0, 25=98/19-8-0, 24=98/19-8-0, 23=98/19-8-0, 22=98/19-8-0, 21=97/19-8-0, 20=101/19-8-0, 19=83/19-8-0
Max Uplift 34=13(load case 1), 18=13(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 34-35=0/12, 1-35=0/12, 18-36=0/12, 17-36=0/12, 1-2=0/1, 2-3=0/1, 3-4=0/1, 4-5=0/1, 5-6=0/1, 6-7=0/1, 7-8=0/1, 8-9=0/1, 9-10=0/1, 10-11=0/1, 11-12=0/1, 12-13=0/1, 13-14=0/1, 14-15=0/1, 15-16=0/1, 16-17=0/1
BOT CHORD 33-34=1/0, 32-33=1/0, 31-32=1/0, 30-31=1/0, 29-30=1/0, 28-29=1/0, 27-28=1/0, 26-27=1/0, 25-26=1/0, 24-25=1/0, 23-24=1/0, 22-23=1/0, 21-22=1/0, 20-21=1/0, 19-20=1/0, 18-19=1/0
WEBS 9-26=89/0, 8-27=89/0, 7-28=89/0, 6-29=89/0, 5-30=89/0, 4-31=88/0, 3-32=92/0, 2-33=75/0, 10-25=89/0, 11-24=89/0, 12-23=89/0, 13-22=89/0, 14-21=88/0, 15-20=92/0, 16-19=75/0

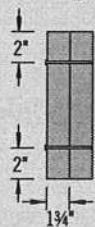
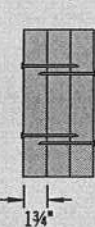
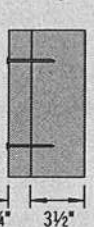
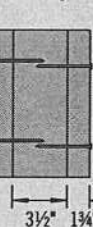
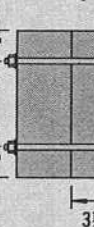
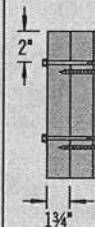
NOTES (7)

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 34 and 13 lb uplift at joint 18.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) 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

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 ⁽¹⁾ | 2 | 12" | 370 | 280 | 280 | 245 | | |
| | 3 | 12" | 555 | 415 | 415 | 370 | | |
| 1/2" A307 Through Bolts ⁽²⁾⁽⁴⁾ | 2 | 24" | 505 | 380 | 520 | 465 | 860 | 340 |
| | | 19.2" | 635 | 475 | 655 | 580 | 1,075 | 425 |
| | | 16" | 760 | 570 | 785 | 695 | 1,290 | 505 |
| | | 12" | 880 | 670 | 905 | 815 | 1,405 | 585 |
| SDS 1/4" x 3 1/2" ⁽⁴⁾ | 2 | 24" | 680 | 510 | 510 | 455 | | |
| | | 19.2" | 850 | 640 | 640 | 565 | | |
| | | 16" | 1,020 | 765 | 765 | 680 | | |
| | | 12" | 1,190 | 885 | 885 | 795 | | |
| SDS 1/4" x 6" ⁽³⁾⁽⁴⁾ | 2 | 24" | | | | 455 | 465 | 455 |
| | | 19.2" | | | | 565 | 580 | 565 |
| | | 16" | | | | 680 | 695 | 680 |
| | | 12" | | | | 795 | 810 | 795 |
| USP WS35 ⁽⁴⁾ | 2 | 24" | 480 | 360 | 360 | 320 | | |
| | | 19.2" | 600 | 450 | 450 | 400 | | |
| | | 16" | 715 | 540 | 540 | 480 | | |
| | | 12" | 830 | 630 | 630 | 560 | | |
| USP WS6 ⁽³⁾⁽⁴⁾ | 2 | 24" | | | | 350 | 525 | 350 |
| | | 19.2" | | | | 440 | 660 | 440 |
| | | 16" | | | | 525 | 790 | 525 |
| | | 12" | | | | 610 | 925 | 610 |
| 3 3/8" TrussLok ⁽⁴⁾ | 2 | 24" | 635 | 475 | 475 | 425 | | |
| | | 19.2" | 795 | 595 | 595 | 530 | | |
| | | 16" | 955 | 715 | 715 | 635 | | |
| | | 12" | 1,115 | 835 | 835 | 745 | | |
| 5" TrussLok ⁽⁴⁾ | 2 | 24" | | 500 | 500 | 445 | 480 | 445 |
| | | 19.2" | | 625 | 625 | 555 | 600 | 555 |
| | | 16" | | 750 | 750 | 665 | 725 | 665 |
| | | 12" | | 875 | 875 | 785 | 845 | 785 |
| 6 3/4" TrussLok ⁽⁴⁾ | 2 | 24" | | | | 445 | 620 | 445 |
| | | 19.2" | | | | 555 | 770 | 555 |
| | | 16" | | | | 665 | 925 | 665 |
| | | 12" | | | | 785 | 1,075 | 785 |

(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.

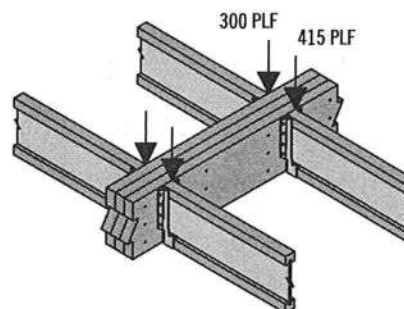
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(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.

TRULOX CONNECTION DETAIL

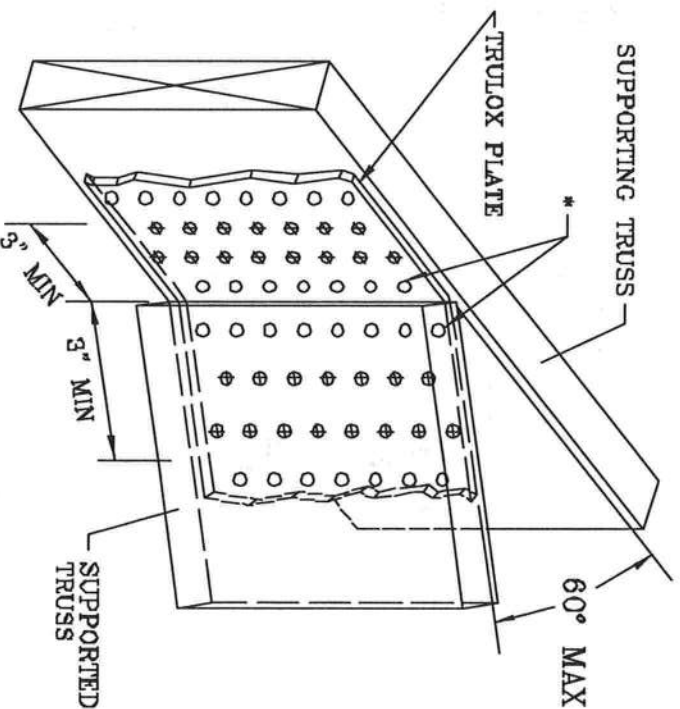
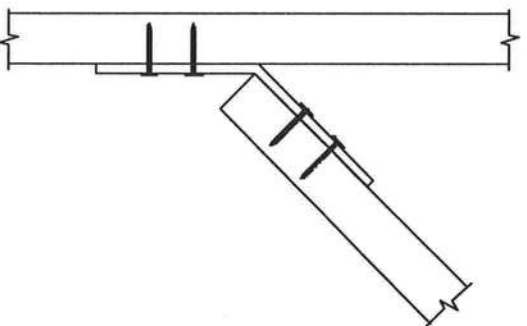
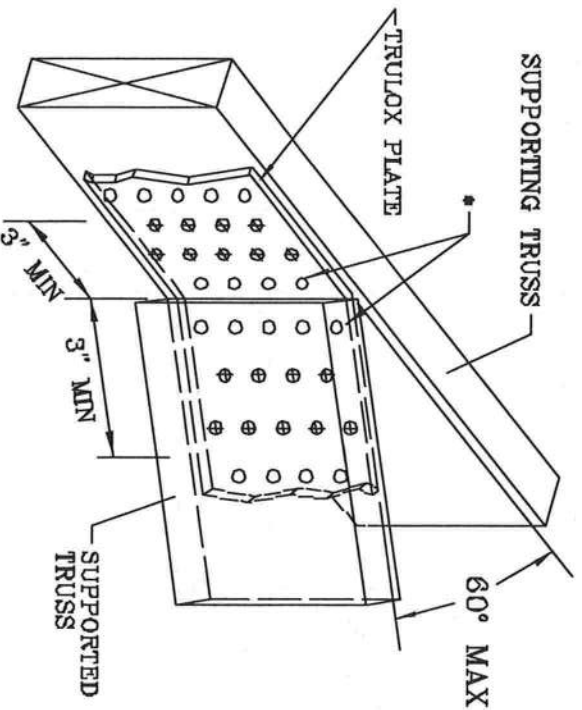
11 GAUGE (0.120" X 1.376") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* 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.

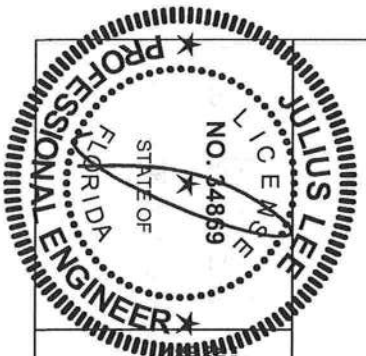


MINIMUM 3X6 TRULOX PLATE

| TRULOX PLATE SIZE | REQUIRED NAILS PER TRUSS | MAXIMUM LOAD UP OR DOWN |
|-------------------|--------------------------|-------------------------|
| 3X6 | 9 | 350# |
| 6X6 | 15 | 990# |

MINIMUM 5X6 TRULOX PLATE

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 3031-1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS BRACING INSTITUTE, 580 JENNIFER LN, SUITE 200, WATSON, VA 22795) AND VITA CYCLO TRUSS COUNCIL, 6300 DUTCHMAN RD, WATSON, VA 22795 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1405 SW 4th AVENUE
DECATUR, GA 30044-0001

Reg. 34869
STATE OF FLORIDA

REF TRULOX

DATE 11/26/03

DRWG CNTRULOX1103

-ENG JL

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/AP&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.

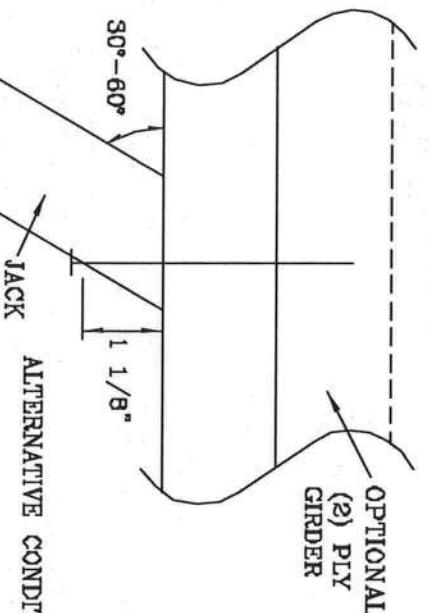
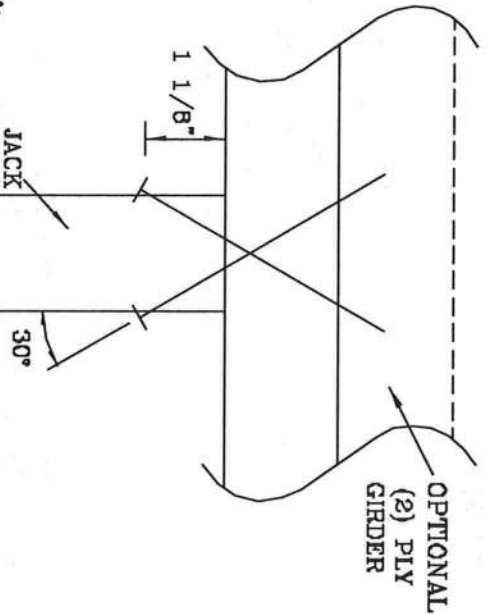
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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 | 187# | 256# | 181# | 234# | 156# | 203# | 154# | 189# |
| 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# |

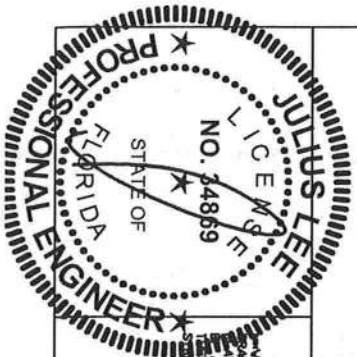
ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTION. REFER TO BEST 1-43 GRADING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 388 PINEHURST DR., SUITE 200, NORTON, VA 22122. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TRUSS MANUFACTURERS ASSOCIATION (TMA) HAS A PROPERTY ATTACHED TO EACH TRUSS. STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERTY ATTACHED TO EACH CHORD.



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No. 34869
STATE OF FLORIDA

| | | | |
|-----------|------|------|-------------|
| TC LL | PSF | REF | TOE-NAIL |
| TC DL | PSF | DATE | 09/12/07 |
| BC DL | PSF | DRWG | CNTONALL103 |
| BC LL | PSF | -ENG | JL |
| TOT. LD. | PSF | | |
| DUR. FAC. | 1.00 | | |
| SPACING | | | |

REVIEWED
By Julius Lee at 11:39 am, Jun 11, 2008

| | | | | | |
|---------|-------|-----|----|----|--------|
| TOP BOT | CHORD | 2X4 | #8 | OR | BETTER |
| | CHORD | 2X4 | #2 | OR | BETTER |
| | WEBS | 2X4 | #3 | OR | BETTER |

REFER TO STAILED DESIGN FOR DASHED PLATES.
SPACE PIGGYBACK VERTICALS AT 4' 0" MAX.
TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

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

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

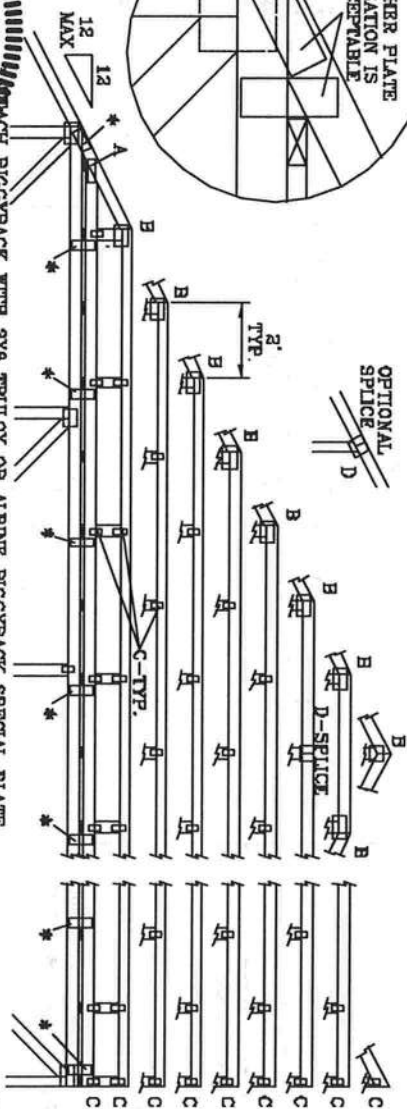
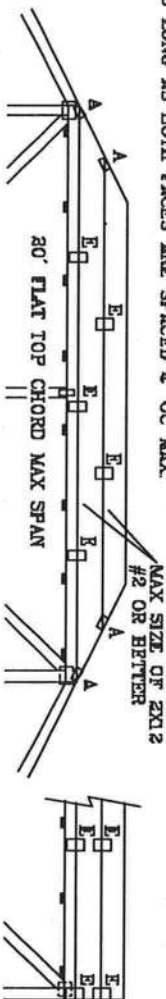
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS.

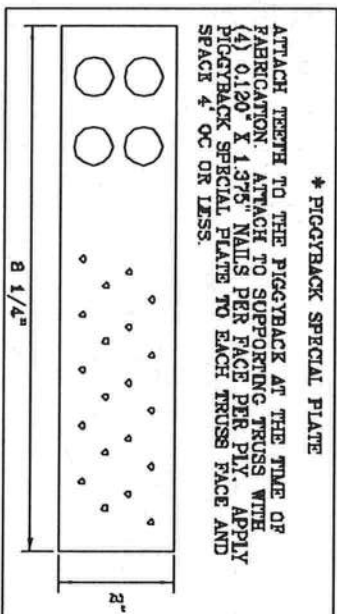
1.30 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED
BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C
WIND TC DL=6 PSF, WIND BC DL=6 PSF

110 MPH WIND, 30' MEAN HGT, FIG
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF
WIND TC DL-5 PSF, WIND BC DL-5 PSF

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



MUCH PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE



ATTACH IEMTS 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.

*** PIGGYBACK SPECIAL PLATE**

| JOINT TYPE | SPANS UP TO | | | |
|------------|--|-------|-------|-------|
| | 30' | 34' | 38' | 62' |
| A | 2X4 | 2.5X4 | 2.5X4 | 3X5 |
| B | 4X5 | 5X6 | 5X6 | 5X6 |
| C | 1.5X3 | 1.5X4 | 1.5X4 | 1.5X4 |
| D | 5X4 | 6X5 | 6X5 | 5X6 |
| E | 4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY | | | |

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.875" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

| WEB BRACING CHART | |
|--------------------------|---|
| WEB LENGTH 0' TO 7'9" | REQUIRED BRACING |
| 7'9" TO 10' | NO BRACING: 1x4 ^{1/2} " 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 ¹ " BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC. |

[illegible]

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DIKRAY BEACH, FL 33444-2161

| THIS DRAWING REPLACES DRAWINGS | MAX LOADING | REF | PIGCBACK |
|--|-------------|-----|----------|
| THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045 | | | |

MAX LOADING

REF PIGGYBACK

55 PST AT
1.33 DUR. FAC.

DRWG MITEK STD PIGGY

50 PSF AT
1.25 DUR. FAC.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

47 PSF AT
1.15 DUR. FAC.

SPACING 24.0"

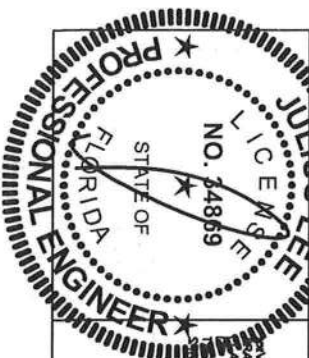
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REVIEWED

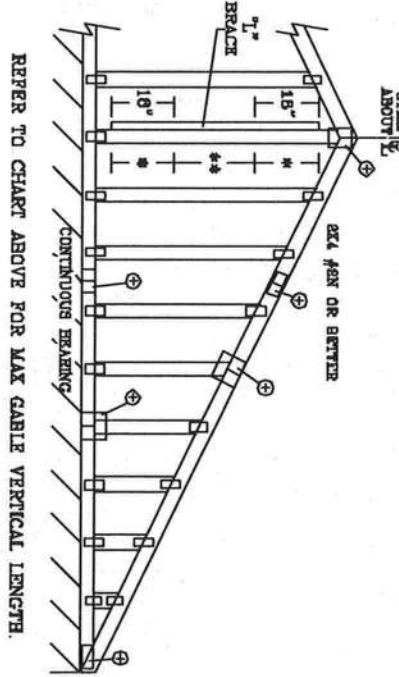
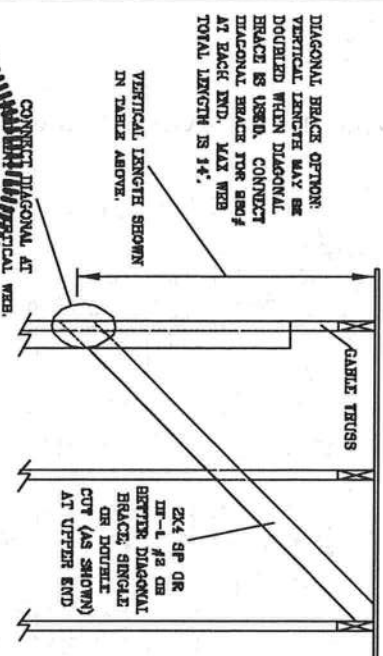
By Julius Lee at 11:59 am, Jun 11, 2008

No: 34869

STATE OF FLORIDA



| MAX GABLE VERTICAL LENGTH | | | | | | | | | | | | | | | |
|---------------------------|-------------|-------------|------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| CABLE VERTICAL SPACING | 2X4 SPECIES | BRACE GRADE | NO. BRACES | BRACE * (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' 6" | 6' 6" | 6' 9" | 7' 10" | 8' 0" | 10' 3" | 10' 7" | 12' 3" | 12' 7" | | |
| | | #3 | 3' 1" | 4' 5" | 4' 5" | 5' 10" | 5' 10" | 7' 10" | 7' 10" | 9' 1" | 9' 1" | 12' 3" | 12' 3" | | |
| | | STUD | 3' 1" | 4' 6" | 4' 5" | 5' 10" | 6' 10" | 7' 10" | 7' 10" | 9' 1" | 9' 1" | 12' 3" | 12' 3" | | |
| | HF | STANDARD | 2' 11" | 3' 9" | 3' 9" | 6' 0" | 5' 0" | 6' 9" | 7' 10" | 7' 10" | 9' 1" | 10' 7" | 10' 7" | | |
| | | #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' 8" | 7' 0" | 7' 10" | 8' 5" | 10' 3" | 11' 1" | 12' 3" | 13' 2" | | |
| | SP | #3 | 3' 3" | 4' 6" | 4' 6" | 6' 0" | 6' 0" | 7' 10" | 8' 1" | 9' 4" | 9' 4" | 12' 3" | 12' 6" | | |
| | | STUD | 3' 3" | 4' 8" | 4' 6" | 5' 11" | 5' 11" | 7' 10" | 8' 0" | 9' 3" | 9' 3" | 12' 3" | 12' 6" | | |
| | | STANDARD | 3' 0" | 3' 10" | 3' 10" | 6' 1" | 5' 1" | 7' 8" | 8' 11" | 9' 2" | 11' 9" | 12' 1" | 14' 0" | | |
| | DFL | #1 / #2 | 3' 7" | 5' 5" | 5' 5" | 7' 2" | 7' 2" | 8' 11" | 8' 11" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | |
| | | #3 | 3' 7" | 5' 5" | 5' 5" | 7' 2" | 7' 2" | 8' 11" | 8' 11" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | |
| | | STUD | 3' 7" | 5' 5" | 5' 5" | 7' 2" | 7' 2" | 8' 11" | 8' 11" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | |
| 16" O.C. | SPF | #1 | 4' 0" | 6' 4" | 4' 6" | 6' 2" | 6' 2" | 8' 3" | 8' 3" | 9' 7" | 8' 7" | 13' 11" | 12' 11" | | |
| | | #2 | 3' 11" | 6' 4" | 6' 10" | 7' 8" | 8' 1" | 8' 11" | 9' 7" | 11' 9" | 12' 8" | 14' 0" | 14' 0" | | |
| | | STUD | 3' 9" | 5' 7" | 6' 7" | 7' 3" | 7' 4" | 8' 11" | 9' 6" | 11' 5" | 11' 6" | 14' 0" | 14' 0" | | |
| | HF | STANDARD | 3' 7" | 4' 6" | 4' 6" | 6' 2" | 6' 2" | 8' 3" | 8' 3" | 9' 7" | 8' 7" | 13' 11" | 12' 11" | | |
| | | #1 | 4' 0" | 6' 4" | 6' 10" | 7' 8" | 8' 1" | 8' 11" | 9' 7" | 11' 9" | 12' 8" | 14' 0" | 14' 0" | | |
| | | #2 | 3' 11" | 6' 4" | 6' 10" | 7' 8" | 8' 1" | 8' 11" | 9' 7" | 11' 9" | 12' 8" | 14' 0" | 14' 0" | | |
| | SP | #3 | 3' 9" | 5' 7" | 6' 7" | 7' 3" | 7' 4" | 8' 11" | 9' 6" | 11' 5" | 11' 6" | 14' 0" | 14' 0" | | |
| | | STUD | 3' 9" | 5' 7" | 6' 7" | 7' 3" | 7' 4" | 8' 11" | 9' 6" | 11' 5" | 11' 6" | 14' 0" | 14' 0" | | |
| | | STANDARD | 3' 8" | 4' 9" | 4' 9" | 6' 3" | 6' 3" | 8' 11" | 9' 5" | 11' 4" | 11' 4" | 14' 0" | 14' 0" | | |
| | DFL | #1 / #2 | 4' 0" | 6' 11" | 6' 11" | 7' 2" | 6' 3" | 8' 6" | 9' 10" | 10' 1" | 12' 11" | 13' 4" | 14' 0" | | |
| | | #3 | 3' 11" | 6' 3" | 6' 3" | 8' 3" | 8' 3" | 9' 10" | 10' 1" | 12' 11" | 13' 4" | 14' 0" | 14' 0" | | |
| | | STUD | 3' 11" | 6' 3" | 6' 3" | 8' 3" | 8' 3" | 9' 10" | 10' 1" | 12' 11" | 13' 4" | 14' 0" | 14' 0" | | |
| 12" O.C. | SPF | #1 | 3' 11" | 5' 4" | 5' 4" | 7' 1" | 7' 1" | 9' 6" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | | |
| | | #2 | 3' 11" | 5' 4" | 5' 4" | 7' 1" | 7' 1" | 9' 6" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | | |
| | | STUD | 3' 11" | 5' 4" | 5' 4" | 7' 1" | 7' 1" | 9' 6" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | | |
| | HF | STANDARD | 3' 11" | 5' 4" | 5' 4" | 7' 1" | 7' 1" | 9' 6" | 11' 1" | 11' 1" | 14' 0" | 14' 0" | | | |



REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH

| BRACING GROUP SPECIES AND GRADES: | | | |
|-----------------------------------|------|-----------------|------|
| GROUP A: | | HOLM-PTR | |
| | | SPRUCE-PINE-PTR | |
| #1 | #2 | #1 | #2 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #3 | #4 | #3 | #4 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #5 | #6 | #5 | #6 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #7 | #8 | #7 | #8 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #9 | #10 | #9 | #10 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #11 | #12 | #11 | #12 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #13 | #14 | #13 | #14 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #15 | #16 | #15 | #16 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #17 | #18 | #17 | #18 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #19 | #20 | #19 | #20 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #21 | #22 | #21 | #22 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #23 | #24 | #23 | #24 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #25 | #26 | #25 | #26 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #27 | #28 | #27 | #28 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #29 | #30 | #29 | #30 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #31 | #32 | #31 | #32 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #33 | #34 | #33 | #34 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #35 | #36 | #35 | #36 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #37 | #38 | #37 | #38 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #39 | #40 | #39 | #40 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #41 | #42 | #41 | #42 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #43 | #44 | #43 | #44 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #45 | #46 | #45 | #46 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #47 | #48 | #47 | #48 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #49 | #50 | #49 | #50 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #51 | #52 | #51 | #52 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #53 | #54 | #53 | #54 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #55 | #56 | #55 | #56 |
| STUD | STUD | STUD | STUD |
| DOUGLAS FIR-LARCH | | SOUTHERN PINE | |
| | | HOLM-PTR | |
| #57 | #58 | #57 | #58 |
| STUD | STUD | STUD | |

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.

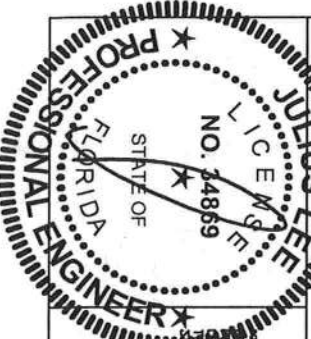
PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

CABLE AND SUPPORTS LOAD FROM ± 0
OUTLOOKERS WITH 8' 0" OVERHANG, OR 12"
PLYWOOD OVERHANG.

ATTACH EACH T¹ BEAD TO THE 104 NUTS.
* FOR (1) T¹ BEAD: SPACE NUTS AT 8" O.C.
IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) T¹ BEADS: SPACE NUTS AT 3" O.C.
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

| CABLE VERTICAL PLATE SIZES | | |
|---|------------|--|
| VERTICAL LENGTH | NO. SPICES | |
| LESS THAN 4" 0" | 1X4 OR 2X3 | |
| GREATER THAN 4" 0", BUT LESS THAN 11" 0" | 2X4 | |
| GREATER THAN 11" 0" | 2.5X4 | |

+ REFER TO COLUMN THOUS DESIGN FOR
FRANK, SPICES, AND BEEL PLATES.



MANUFACTURED TRUSSES REDUCE EXTREME GAINS IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. OTHER BENEFITS INCLUDE: NO NEED FOR SPECIAL CRANES OR LIFTING DEVICES; NO SPECIAL PERMITS; INSTALLED IN 24 HOURS; NO DOWNSIDE TO BE SLATE 20, 53, 59, 61, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874,

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

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 42nd AVENUE
DELRAY BEACH, FL. 33444-8161

No: 34868
STATE OF FLORIDA

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

| | |
|------|---------------------------|
| REF | ASSET-02-CAB13030 |
| DATE | 11/26/03 |
| DWG | INTER STD CABLE 30' X 18" |
| -ENG | |

Setback 7' or Less

UPLIFT: 400# or Less

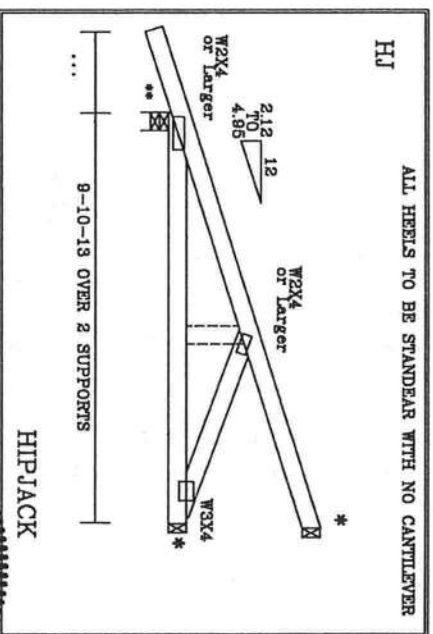
2' TYP. MAX
or Less
CJ's
2' TYP. MAX

UPLIFT: 400# or Less

FEED=120

UPLIFT: 400# or Less

BRG LOC:



HIP JACK

BC LIVE LOAD IS NON CONCURRENT 10*

7'0" MAX

THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ANVANCING. TRUSSES REQUIRING IDENTIFICATION INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 963 DUNDORF RD., SUITE 200, MADISON, VI 53719, AND VITA GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

A FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING & SPECIFYING BRACING DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN & SPECIFICATION CODES. ALL TRUSS COMPONENTS SHALL BE MADE OF 20/18/16GA. C/V/H/S AS PER ASTM A653 GRADE 40/60 C/V/H/S GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY GO SHALL BE REQUIRED TO VERIFY THE QUALITY OF THE MANUFACTURING PROCESS. THE DESIGN SHOWS PROFESSIONAL ENGINEERING RESPONSIBILITY ONLY FOR THE TRUSS COMPONENT DESIGN. SHOWN SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2

1065 5TH AVENUE
 BERKLEY, CALIF. 94709
 NO. 24885

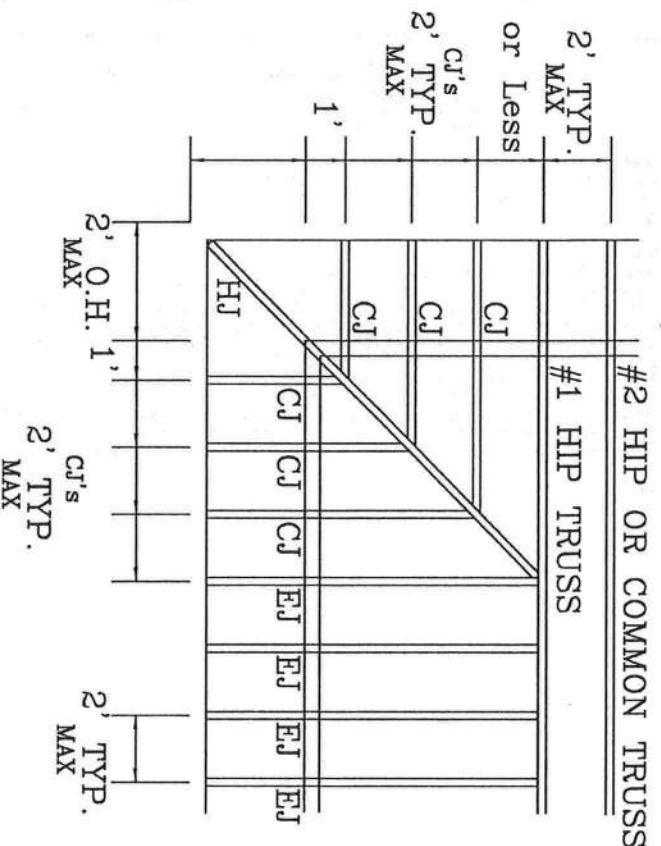
STATE OF
 CALIFORNIA
 ENGINEER

REGISTERED
 PROFESSIONAL
 ENGINEER

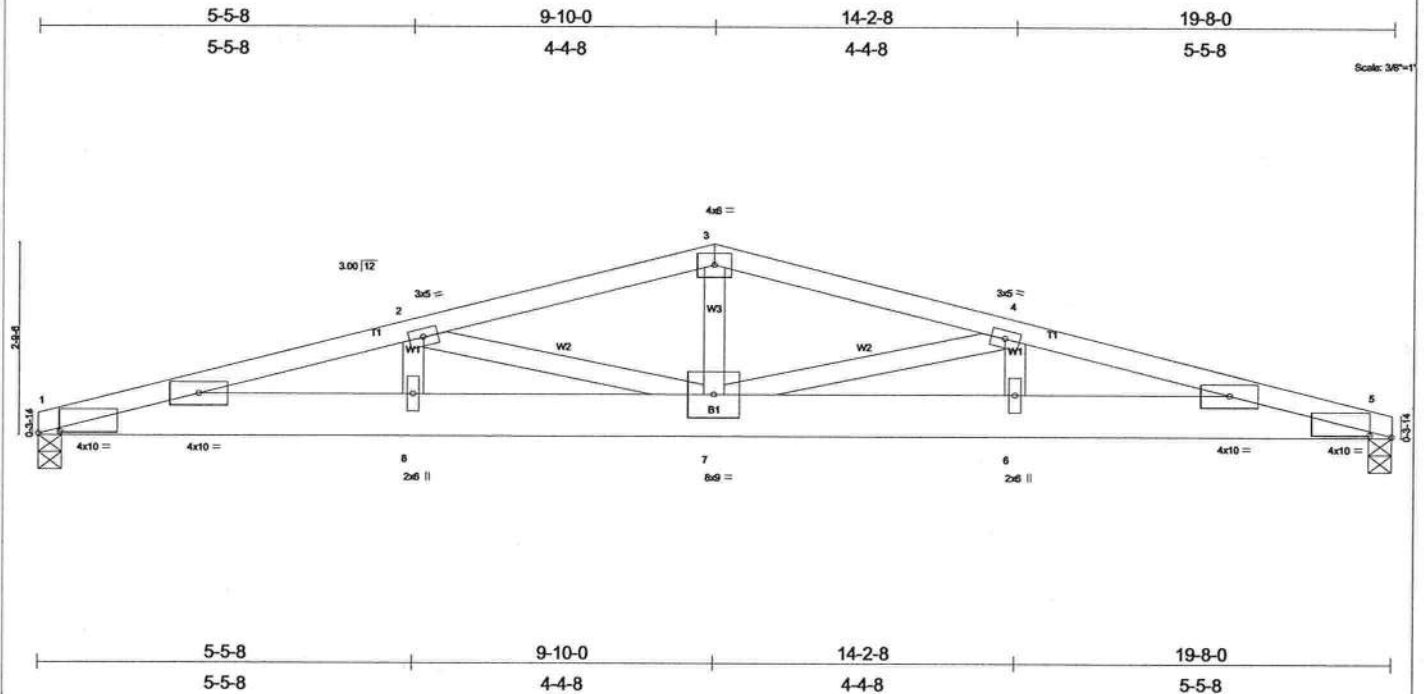
| SPACING | | 2' MAX | |
|-----------|-----|--------|-----|
| TT | 20 | MAX | PSF |
| TC | 17 | MAX | PSF |
| TC | 10* | MAX | PSF |
| BC | 5 | MAX | PSF |
| BC | DL | MAX | PSF |
| TL | 20 | MAX | PSF |
| DL | 20 | MAX | PSF |
| TL | 10* | MAX | PSF |
| DL | 5 | MAX | PSF |
| DUR. FAC. | | 1.25 | |

| | |
|--|---------------|
| REF | 7 MAX STBK CS |
| DATE | Jun./27/2008 |
| DRWG | |
| -ENG | |
| REVIEWED | |
| By Julius Ilee at 10:52 am, Jun 27, 2008 | |

*(3) 16d TOENAILS
**SEE FOR TIE DOWN



| | | | | | |
|--|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | PAUL SHORT ADD. / ROOF |
| 293749 | T01A | COMMON | 1 | 2 | 293749002 |
| Builders FirstSource, Lake City, FL 32055 | | | | | Job Reference (optional) |
| 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Dec 04 08:20:13 2008 Page 1 | | | | | |



| | | | | | |
|---|----------------------|------------|-----------------------------|---------------|-------------|
| Plate Offsets (X,Y): [1:0-3-12,0-0-4], [5:0-3-12,0-0-4] | | | | | |
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP |
| TCLL 20.0 | Plates Increase 1.25 | TC 0.57 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.53 | Vert(LL) -0.29 6-7 >812 360 | | |
| BCLL 10.0 | Rep Stress Incr NO | WB 0.64 | Vert(TL) -0.54 6-7 >427 240 | | |
| BCDL 5.0 | Code FBC2004/TPI2002 | (Matrix) | Horz(TL) 0.07 5 n/a n/a | | |
| Weight: 217 lb | | | | | |

| | |
|--------------------------------|---|
| LUMBER | BRACING |
| TOP CHORD 2 X 4 SYP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins. |
| BOT CHORD 2 X 8 SYP 2400F 2.0E | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2 X 4 SYP No.3 | |

REACTIONS (lb/size) 1=3970/0-4-0, 5=3970/0-4-0
Max Horz 1=27 (load case 5)
Max Uplift 1=1074 (load case 3), 5=1074 (load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=11429/3067, 2-3=8965/2396, 3-4=8965/2396, 4-5=11429/3069
BOT CHORD 1-8=2984/11093, 7-8=2984/11093, 6-7=2963/11093, 5-6=2963/11093
WEBS 2-8=224/959, 2-7=2571/732, 3-7=1052/4005, 4-7=2571/734, 4-6=224/959

NOTES (8)

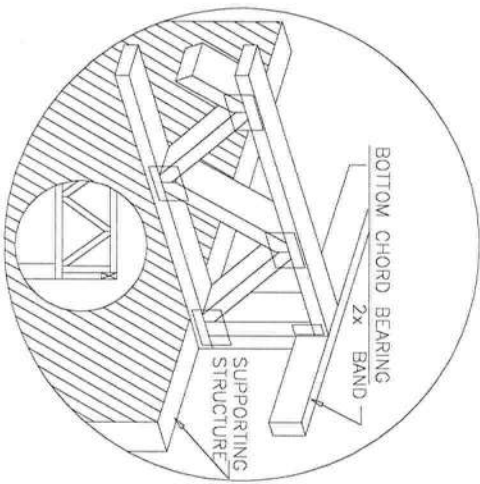
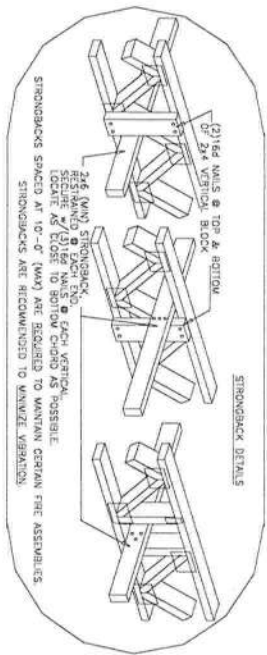
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1074 lb uplift at joint 1 and 1074 lb uplift at joint 5.
- Girder carries tie-in span(s): 24-0-0 from 0-0-0 to 19-8-0
- 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=54, 3-5=54, 1-5=357(F=347)

BEARING HEIGHT SCHEDULE

| | |
|--|--------|
| | FRAMED |
| | BLOCK |



NOTES:

- 1) REFER TO 1009-01 (RECOMMENDATIONS FOR HANDING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEER DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V05 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2.0 C.F. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5/4x2 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL 2x12 TRUSS HANGERS TO BE SAMPSON HUNG UNLESS OTHERWISE NOTED. ALL 1x12 TRUSS HANGERS TO BE SAMPSON HUNG UNLESS OTHERWISE NOTED.
- 8) BEAM/ADDED INTEL. (HPS) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR EXECUTION OF TRUSSES AND VARIOUS ALTERNATIVE 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.

Expend Sheet Part: _____

Approved by: _____ Date: _____



PHONE: 404-437-3344 FAX: 404-437-3444
Bunnell Jacksonville
PHONE: 404-772-6100 FAX: 404-772-1473
Lake City Sanford
PHONE: 386-795-6844 FAX: 386-795-7473
Sanford
PHONE: 407-322-0044 FAX: 407-322-5953
N/A

LOCAL ADDRESS:

LAKE CITY, FL

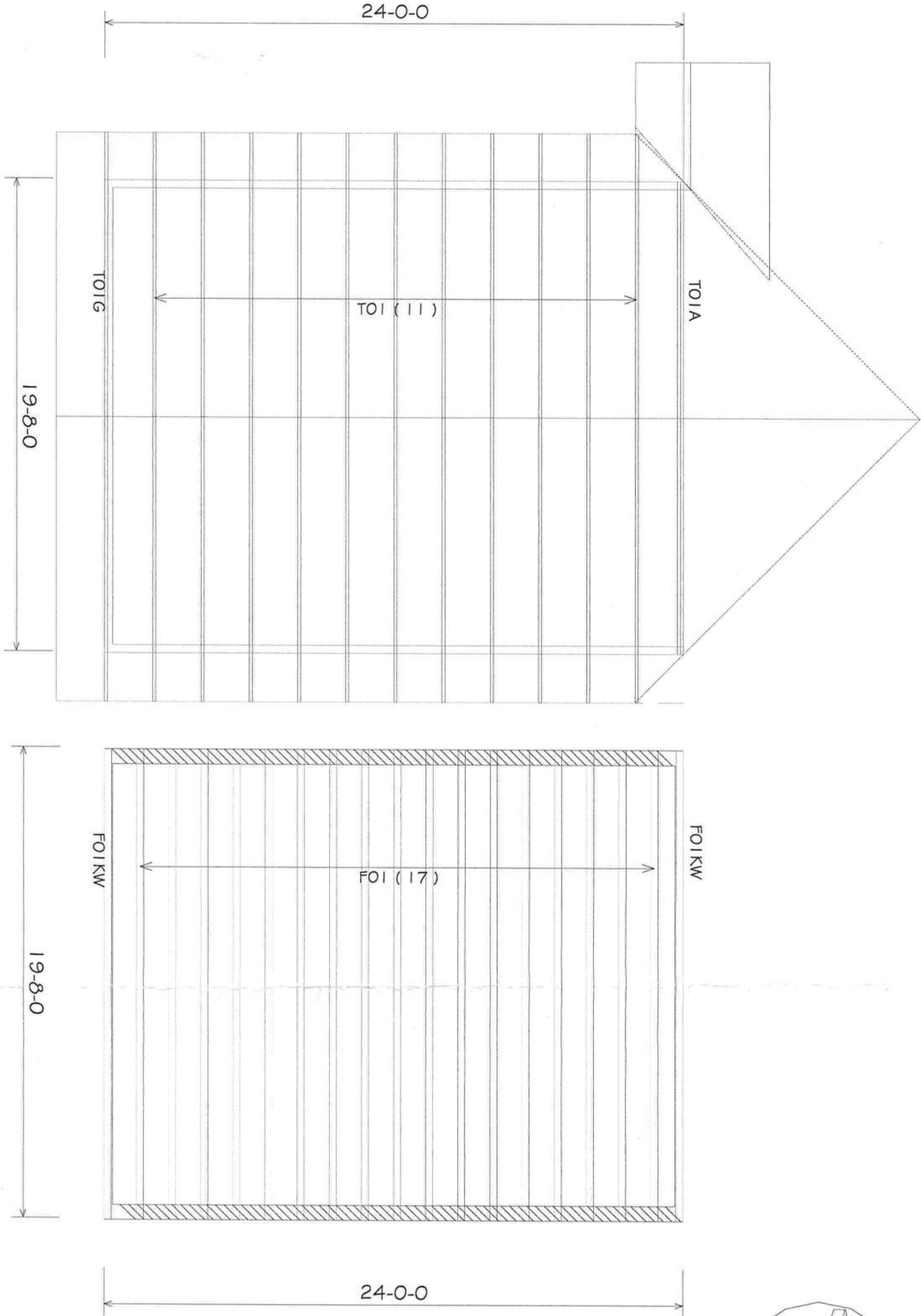
MODEL: PAUL ADDITION

REVISION: SCALE: NTS

DATE: 12/04/08

DRAWN BY: JP

293749



TRUSS INFORMATION:

ROOF PITCH: 3/12

CEILING: ALL FLAT

FLOOR DEPTH: 1' 0"

FLOOR SPACING: 16" O/C

NOTE: FIRST FLOOR HAS BLOCK WALLS. 2ND FLOOR IS 2X6 FRAMED WALLS