

DATE 11/18/2010

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000029012

APPLICANT JERRY LERNER PHONE 352-514-8000
ADDRESS 10107 NW HERMITAGE GLEN HIGH SPRINGS FL 32643
OWNER JERRY LERNER PHONE 352-514-8000
ADDRESS 292 SW HERMITAGE GLEN HIGH SPRINGS FL 32643
CONTRACTOR OWNER BUILDER PHONE
LOCATION OF PROPERTY 441 SOUTH, R HERMITAGE GLEN, LAST ON LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 196200.00
HEATED FLOOR AREA 3308.00 TOTAL AREA 3924.00 HEIGHT 26.00 STORIES 2
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING A-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 21-7S-17-10039-103 SUBDIVISION HERMITAGE
LOT 3 BLOCK PHASE UNIT TOTAL ACRES 5.00

000001861
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 10-0489 BK TC N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

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

Check # or Cash CASH

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 \$ 985.00 CERTIFICATION FEE \$ 19.62 SURCHARGE FEE \$ 19.62
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 1124.24
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.

DATE 09/05/2012

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

PERMIT
000030439

APPLICANT JERRY LERNER PHONE 352-514-8000
ADDRESS 10107 NW 24TH PLACE GAINESVILLE FL 32606
OWNER JERRY LERNER PHONE 352-514-8000
ADDRESS 292 SW HERMITAGE GLEN HIGH SPRINGS FL 32643
CONTRACTOR OWNER BUILDER PHONE
LOCATION OF PROPERTY 441 SOUTH, R HERMITAGE GLEN, LAST ON LEFT

TYPE DEVELOPMENT RENEW EXPIRED 29012 ESTIMATED COST OF CONSTRUCTION 0.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING AG-3 MAX. HEIGHT 35
Minimum Set Back Requirements: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 21-7S-17-10039-103 SUBDIVISION HERMITAGE S/D
LOT 3 BLOCK PHASE UNIT TOTAL ACRES 5.00

1861
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
18 X 32 MITERED 10-0489 LH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: RENEWAL OF EXPIRED PERMIT #29012

Check # or Cash 840

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 \$ 0.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 246.25 ZONING CERT. FEE \$ FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 246.25
INSPECTORS OFFICE CLERKS OFFICE

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

29012

Notice of Prevention for Subterranean Termites

(As required by Florida Building Code (FBC) 104.2.6)



17856 U.S. 129 • McALPIN, FLORIDA 32062
(386) 362-3887 • 1-800-771-3887 • Fax: (386) 364-3529

Address of Treatment or Lot/Block of Treatment

292 S.W. Homestead Rd. H. & S. Spruce

Date

11-22-10

Time

2:30

Applicator

Steve Brown

Product Used

Prima

Imidacloprid

Number of gallons applied

2.12

Percent Concentration

0.05%

Area treated (square feet)

2.12

Linear feet treated

0

Stage of treatment (Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)

As per 104.2.6 - If soil chemical barrier method for Subterranean 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 and date this line.

Columbia County Building Permit Application

For Office Use Only Application # 1011-13 Date Received 11/8 By Jr Permit # 1P61/29012
 Zoning Official BLK Date 17.11.11 Flood Zone X Land Use A-3 Zoning A-3
 FEMA Map # N/A Elevation N/A MFE 1/2 inch River N/A Plans Examiner J.C. Date 11-17-10
 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 0 Suspended Completed
☒ Affidavit From _____

Septic Permit No. 10-0489 Fax 352-331-2788

Name Authorized Person Signing Permit JERRY LERNER Phone 352-514-8000

Address 10107 N.W. 24TH PL. GAINESVILLE, FL 32606

Owners Name JERRY LERNER Phone 352-514-8000

911 Address 292 SW HERMITAGE GLEN RD, HIGH SPRINGS FL 32643

Contractors Name JERRY LERNER Phone 352-514-8000

Address SAME AS ABOVE

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address _____

Mortgage Lenders Name & Address N/A

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

Property ID Number 21-7B-17-10039-103 Estimated Cost of Construction \$70,000.00

Subdivision Name HERMITAGE Lot 3 Block _____ Unit _____ Phase _____

Driving Directions 441 N. ABOUT 2 1/2 MILES FROM HIGH

SPRINGS. GATED ENTRY ON WEST SIDE OF 441.

HERMITAGE GLEN RD. Listen @ Number of Existing Dwellings on Property 0

Construction of NEW HOME Total Acreage 5 Lot Size _____

Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height _____

Actual Distance of Structure from Property Lines - Front 300' Side 150' Side 150' Rear 400'

Number of Stories 2 Heated Floor Area 3308 Total Floor Area 3924 Roof Pitch 6/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.
 Page 1 of 2 (Both Pages must be submitted together.) Revised 6-19-09

\$ 1124.24

Could not leave a message 11-17-10 LH
 Spoke to Jerry 11-17-10 LH

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001861

DATE 11/18/2010 PARCEL ID # 21-7S-17-10039-103

APPLICANT JERRY LERNER PHONE 352-514-8000

ADDRESS 10107 NW 24TH PLACE GAINESVILLE FL 32606

OWNER JERRY LERNER PHONE 352-514-8000

ADDRESS 0107 NW 24TH PLACE GAINESVILLE FL 32606

CONTRACTOR OWNER BUILDER

PHONE _____

LOCATION OF PROPERTY 441 SOUTH, R HERMITAGE GLEN, LAST PROPERTY ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HERMITAGE

3

SIGNATURE



INSTALLATION REQUIREMENTS

☒ X

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

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

☐

Culvert installation shall conform to the approved site plan standards.

☐

Department of Transportation Permit installation approved standards.

☐

Other _____

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

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

Amount Paid 25.00



Fax - 201-2258

Application # 1011-13

AFFIDAVITSTATE OF FLORIDA
COUNTY OF COLUMBIA

This is to certify that I, (We) The Hermitage, LLC,
owner of the below described property:

Tax Parcel No: 21-7S-17-10039-103

Subdivision (name, lot, block, phase) Lot 3 Hermitage S/D.

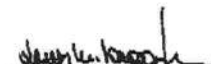
Give my permission to Jerry A. Lerner to place a
mobile home/travel trailer/single family home (circle one) on the above mentioned
property.

I (We) understand that this could result in an assessment for solid waste and fire
protection services levied on this property.



Mark P. Sullivan, Managing Member
Northern Alachua Holdings, LLC - Owner

SWORN AND SUBSCRIBED before me this 18 day of November
20 10. This (these) person(s) are personally known to me or produced
ID


Notary Signature

FAITH M. BROOKER
MY COMMISSION # DD 964820
EXPIRES: April 25, 2014
Bonded Thru Budget Notary Services

Jeepers
update
for com

B&Z
fax: 386-758-2160
Laurie

AFFIDAVIT

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

THE HERMITAGE, LLC

This is to certify that I, (We) Mark & Nancy Sullivan
owner of the below described property:

Tax Parcel No. 21-75-17-10039-103

Subdivision (name, lot, block, phase) Hermitage Lot 3

Give my permission to CONSTRUCT *ms* to place a
mobile home/travel trailer/single family home (circle one) on the above mentioned
property. *ms*
WATER + UTILITIES

I (We) understand that this could result in an assessment for solid waste and fire
protection services levied on this property.

Mark P. Sullivan member
Owner Mark P. Sullivan

Owner _____

SWORN AND SUBSCRIBED before me this 15 day of July
2010. This (these) person(s) are personally known to me or produced
ID _____

[Signature]
Notary Signature



FAITH M. BROOKER
MY COMMISSION # DD 984820
EXPIRES: April 25, 2014
Bonded Thru Budget Notary Services

Columbia County Building Permit Application

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

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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

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

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

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

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

(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature

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

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

Contractor's Signature (Permitee)

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

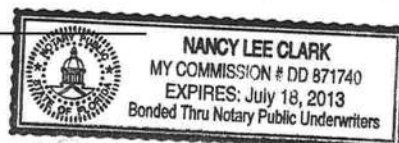
OWNER BUILDER
CB0015604

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 28 day of October 2010.

Personally known ☒ or Produced Identification _____

State of Florida Notary Signature (For the Contractor)

SEAL:



Submit Application to: Building Division

Tel. 352.374.5243
Fax. 352.491.4510**NOTICE OF COMMENCEMENT**

This Instrument Prepared By:

Name: JERRY LERNERAddress: 10107 N.W. 24TH PL., GAINESVILLE, 32606Permit No: 29012Tax Folio No: 10039-103STATE OF: FLORIDACOUNTY OF: ALACHUA

Inst: 201012018606 Date: 11/18/2010 Time: 3:42 PM

DC, P. DeWitt Cason, Columbia County Page 1 of 1 S: 1205 P: 303

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

1. DESCRIPTION OF PROPERTY: Street Address: 292 SW Hermitage Glen, High Springs, FLLegal Description: 21-7S-17-10039-1032. GENERAL DESCRIPTION OF IMPROVEMENT(S): NEW PERSONAL HOME3. OWNER INFORMATION: a.) Name: JERRY LERNER Address: 10107 NW 24th PL.b.) Interest in Property: 100%c.) Fee Simple Titleholder (if other than owner) Name: N/A Address: GAINESVILLE, FL 326064. CONTRACTOR: a.) Name: Jerry Lerner Address: 10107 NW 24th PL. b.) Phone: 352-514-80005. SURETY: a.) Name: N/A Address: b.) Amount of bond \$: N/A c.) Phone: 6. LENDER: a.) Name: N/A Address: b.) Phone:

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

a.) Name: N/A Address: b.) Phone:

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

a.) Name: N/A Address: b.) Phone: 9. Expiration date of notice of commencement (the expiration date is one (1) year from the date of recording unless a different date is specified.)

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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Signature of Owner or Owner's Authorized Officer/Director
Partner/ManagerSignatory's Title/ Office The foregoing instrument was acknowledged before me this 18 day of November 10 (year)by Jerry Lerner (name of person) as Owner (type of authority, e.g. officer,
trustee, attorney in fact) for Jerry Lerner (name of party on behalf of whom instrument was executed).Signature of Notary Public - State of Florida
Print, Type, or Stamp Commissioned Name of Notary Public
Commission Number:
Personally Known or Produced Identification ADL

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.

Signature of Natural Person Signing Above

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____

CONTRACTOR

JERRY LERNER

PHONE

352-514-8000

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

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

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

ELECTRICAL	Print Name <u>JERRY LERNER</u> License #:	Signature <u>[Signature]</u> Phone #: <u>514-8000</u>
MECHANICAL/ A/C	Print Name <u>JERRY LERNER</u> License #:	Signature <u>[Signature]</u> Phone #: <u>"</u>
PLUMBING/ GAS	Print Name <u>JERRY LERNER</u> License #:	Signature <u>[Signature]</u> Phone #: <u>"</u>
ROOFING	Print Name <u>JERRY LERNER</u> License #:	Signature <u>[Signature]</u> Phone #: <u>"</u>
SHEET METAL	Print Name <u>N/A</u> License #:	Signature <u>[Signature]</u> Phone #: <u>"</u>
FIRE SYSTEM/ SPRINKLER	Print Name <u>N/A</u> License #:	Signature <u>N/A</u> Phone #: <u>"</u>
SOLAR	Print Name <u>N/A</u> License #:	Signature <u>[Signature]</u> Phone #: <u>"</u>

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

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

352-3312188 FW

300,
301005417
SBC 11/10

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

PERMIT NO. 10-0489
DATE PAID: 982997
FEE PAID: 102810
RECEIPT #: 45501
1528104

APPLICATION FOR:

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

APPLICANT: JERRY LERNER The Hermitage LLC

AGENT: TELEPHONE: 352-514-8000

MAILING ADDRESS: 10107 N.W. 24th PL. GANESVILLE, FL 32606 (FAX) 352-331-2788

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

PROPERTY INFORMATION

LOT: 3 BLOCK: SUBDIVISION: HERMITAGE PLATTED:

PROPERTY ID #: 21-75-17-10039-103 ZONING: RES. I/M OR EQUIVALENT: [Y] (N)

PROPERTY SIZE: 5 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ☐ ≤2000GPD ☐ >2000GPD

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

PROPERTY ADDRESS: 292 SW. HERMITAGE GLEN, HIGH SPRINGS, FL 32643

DIRECTIONS TO PROPERTY: South on 441 toward High Springs.
About 2 1/2 miles north of High Springs. West side of Road
ELECTRA GATE #9753

BUILDING INFORMATION

☒ RESIDENTIAL☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	NEW HOME	2	3924	Zone X
2		Htd	3308	
3				
4				

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

SIGNATURE: DATE: 10/28/10



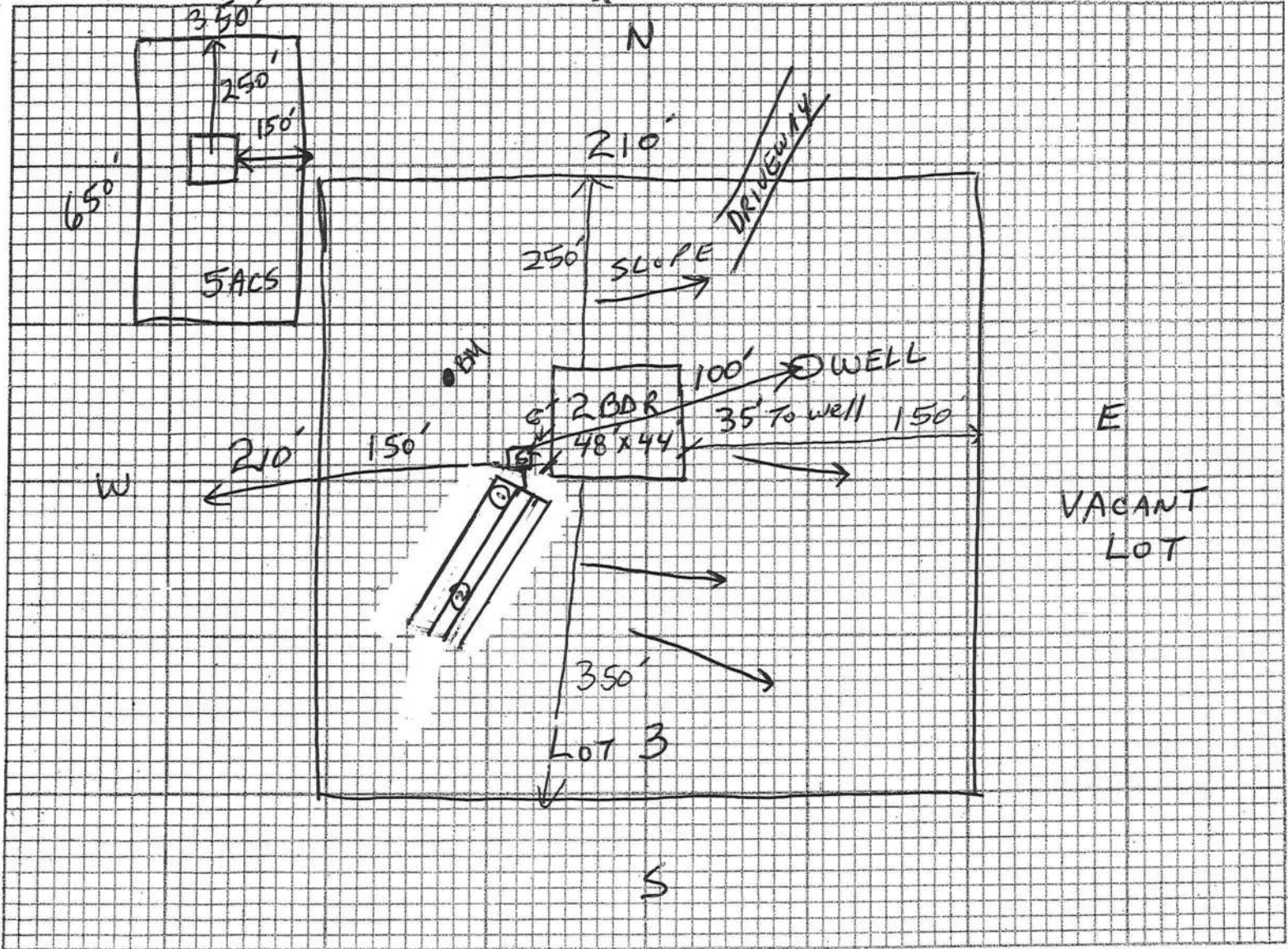
STATE OF TENNESSEE
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 10-0489

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: Im in the middle of 5 acres on Lot 3
Hermitage.

Site Plan submitted by:

Signature

Title

Plan Approved X

Not Approved

Date 11/9/10

By

Columbia

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



COLUMBIA COUNTY BUILDING DEPARTMENT

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

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

OWNER BUILDER DISCLOSURE STATEMENT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TYPE OF CONSTRUCTION

- ☒ Single Family Dwelling ☐ Two-Family Residence ☐ Farm Outbuilding
☐ Addition, Alteration, Modification or other Improvement
☐ Commercial, Cost of Construction _____ Construction of _____
☐ Other _____

I JERRY LERNER, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Owner Builder Signature

Date

10/28/10

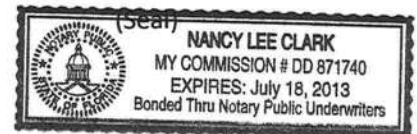
NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification

Notary Signature

Date

10/28/10



FOR BUILDING DEPARTMENT USE ONLY

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

Building Official/Representative

David Lerner

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 6/22/2010 DATE ISSUED: 6/24/2010

ENHANCED 9-1-1 ADDRESS:

292 SW HERMITAGE

GLN

HIGH SPRINGS FL 32643

PROPERTY APPRAISER PARCEL NUMBER:

21-7S-17-10039-103

Remarks:

LOT 3 HERMITAGE S/D

Address Issued By:


Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE

1762

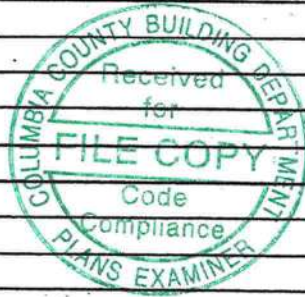
PRODUCT APPROVAL SPECIFICATION SHEET

Location: 292 SW Hermitage Glen Rd.

Project Name: JERRY LERNER

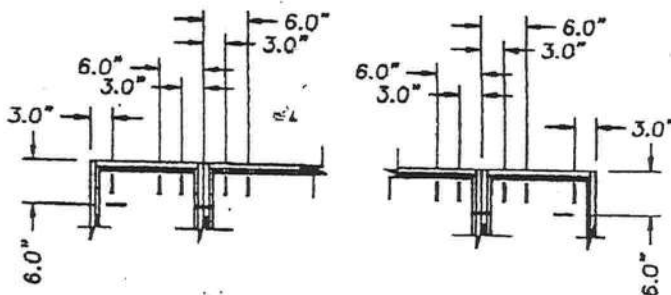
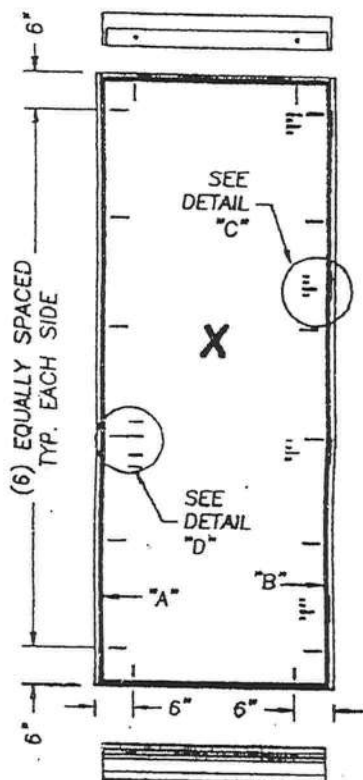
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project which you are applying for a building permit on or after April 1,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

Category/Subcategory	Manufacturer	Product Description	Approval Number
A. EXTERIOR DOORS			
1. Swinging	PLASTPRO	EXTERIOR DOOR FIBERGLASS	6184.1
2. Sliding	N/A		
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Better Built	ALUMINUM WINDOW	676.16
2. Horizontal Slider	N/A		
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	HARDI	Fiber Cement Cladding	889.4
2. Soffits	Cameron Ashley	ALUMINUM VENTED	506
3. EIFS	N/A		
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	TAMKO	25yr Architectural	7154
2. Underlayments	WARRIOR	30lb FELT	FL, 2346.1
3. Roofing Fasteners	SEWCO	1 1/4" GALVANIZED ROOFING NAILS	FL, 11937.
4. Non-structural Metal Rf	N/A		
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			

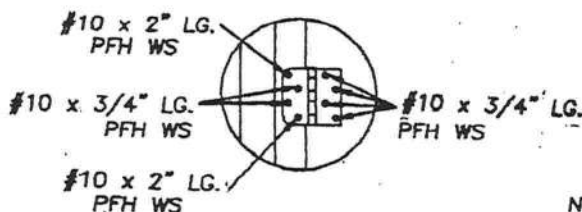


FL.#6184.1

Maximum Size Up To 8'4" x 8'0"

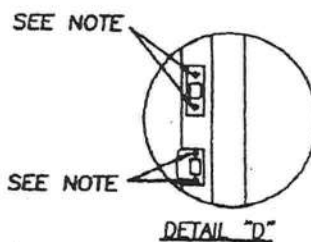


When attaching Sidelite the above anchoring applies.



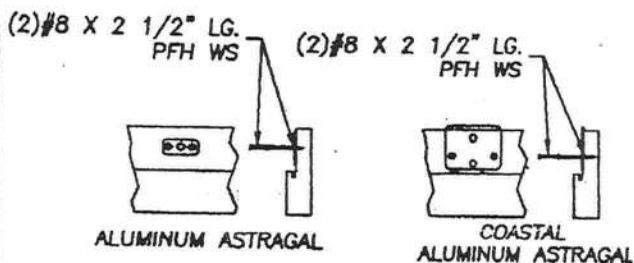
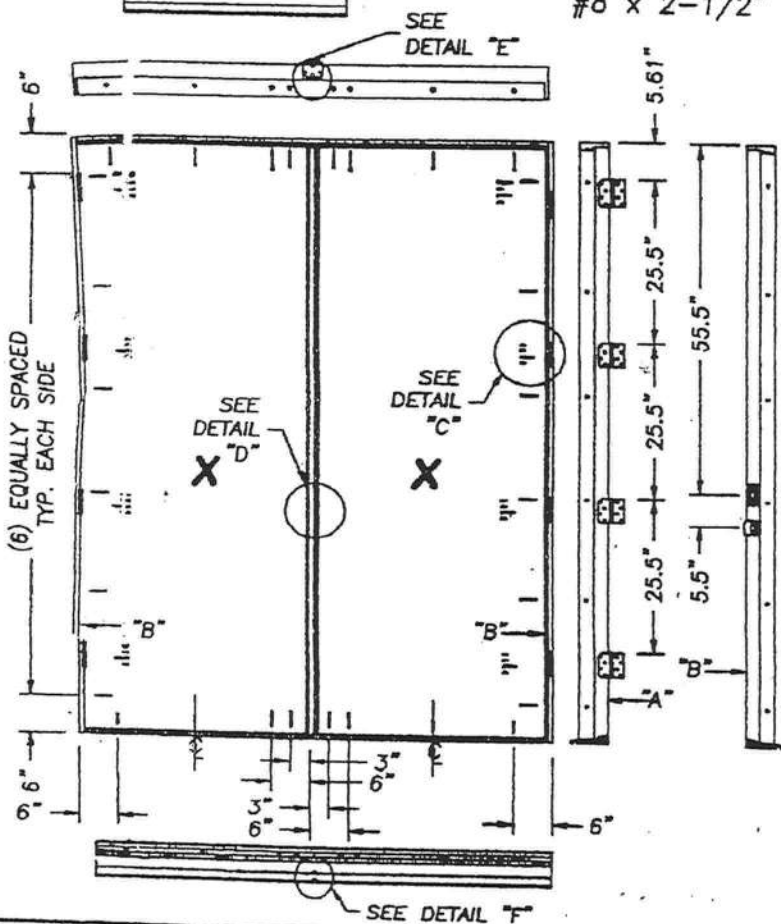
DETAIL "C"

NOTE: All perimeter screws are #8 x 2-1/2" PFH WS.

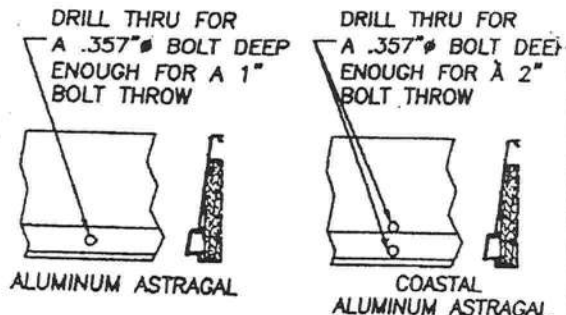


DETAIL "D"

Note:
When attaching the strike & deadbolt plates to the strike & buck use #10 x 2" Lg. PFH WS. When attaching the strike & deadbolt plates to the astragal use #8 x 2 1/2" Lg. PFH WS. When attaching the strike jamb & sidelite jamb use #10 x 1 3/4" Lg. PFH WS.



DETAIL "E"
ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN.



DETAIL "F"
ASTRAGAL THROW BOLTS AT THE THRESHOLD

FL # 676.16
740 SERIES INSULATED



- Series 165/3000 Single Hung and Fixed Windows
- Series 740/744/3740 Single Hung and Fixed Windows
- Series 168/3168 Horizontal Slider and Fixed Windows
- Series 680 Horizontal Slider and Fixed Windows

NOTE: SEE INDIVIDUAL TEST REPORT(S) FOR DP RATINGS AND MAXIMUM ALLOWABLE SIZES.

INSTALLATION INSTRUCTIONS FOR **"APPROVED FOR FLORIDA" ALUMINUM FIN WINDOWS**

BetterBilt Windows & Doors appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1. Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin. Place a continuous bead of caulk on the back side of nail fin (mounting flange).
2. Set unit plumb and square into opening and make sure that there is $3/16" \pm 1/16"$ clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit frequently as fasteners are set.
3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the mounting stud. Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to 35, do not exceed 24" spacing of additional screws. For DPs from 35.1 to 50, do not exceed 18" spacing.
4. Caulk entire perimeter of fin to mounting surface joint and caulk over screw heads.
Note: this step can be eliminated if 4" wide adhesive type flashing is used (sill 1st., jambs 2nd., head 3rd.).
5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.
6. Remove plaster, mortar, paint, and debris that has collected on the unit and make sure that sash/vent tracks and interlocks are also clean. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass; scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent.

- CAUTION -

BetterBilt Windows & Doors or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by local, state, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. BetterBilt window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be aware of other code requirements such as emergency egress and structural / energy performance.

Corporate Headquarters:

M.I. Home Products

650 West Market St.

Gratz, PA 17030-0370

(717) 365-3300

CENTRAL FLORIDA B.O.A.E.
MANUFACTURER NAME:
Better Bilt 27, 2003

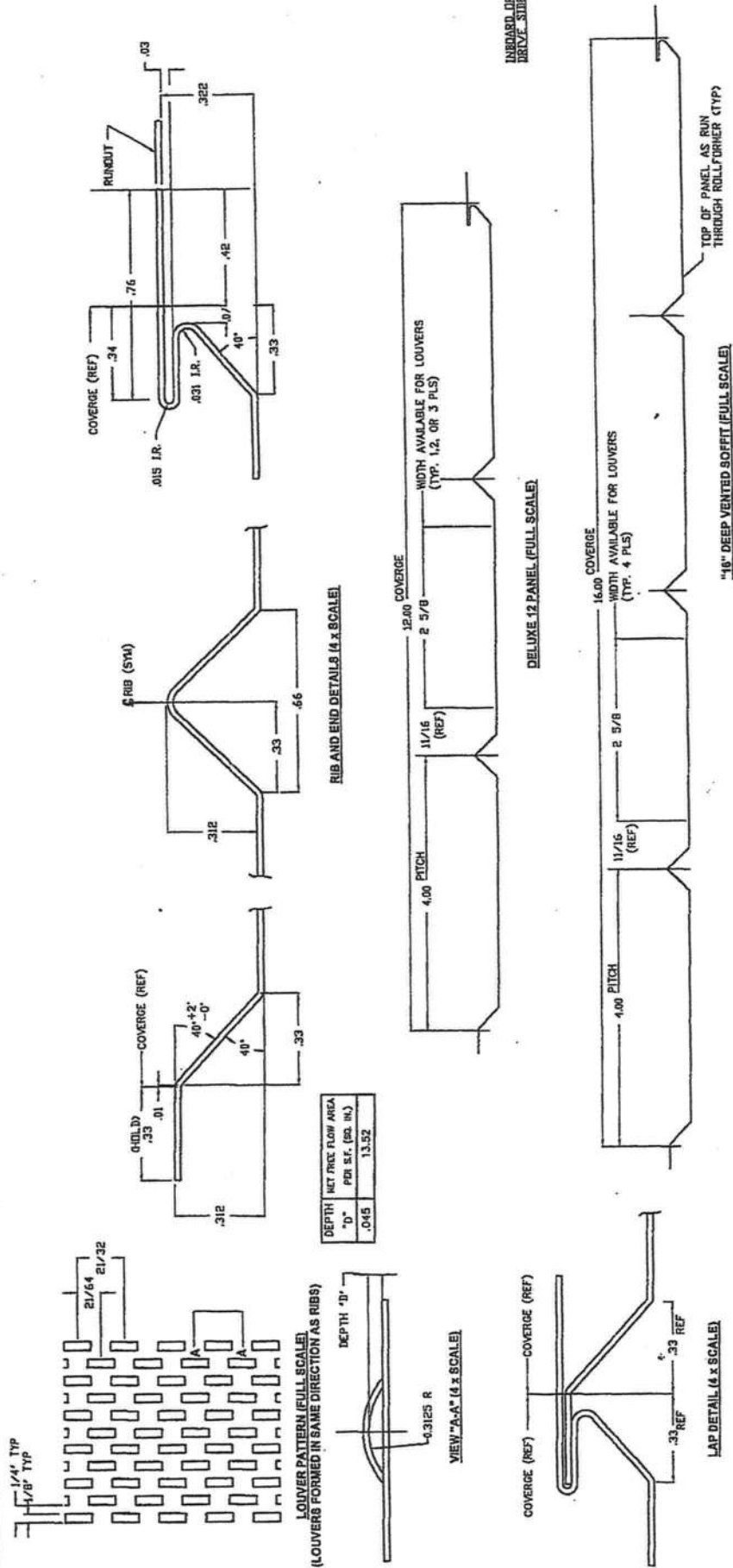
MASTER FILE 165/740/168/680



www.mihp.com

Rev. 7-24-03

#406



ATTN: TROY

DONALD A. YANSKEY ▼ ARCHITECT

352.371.4064

352.278.7872

dyanskey@bellsouth.net

2421 NW 49 Ave. Gainesville, FL 32605

November 16, 2010

Mr. Jerry Lerner
Lerner Enterprises
Gainesville, Florida

RE: Shear Wall indications on Drawings for a New Residence for Jerry & Christy Lerner located at
292 SW Hermitage Glen Road in Columbia County, Florida

Dear Mr. Jerry Lerner,

I, Don Yanskey, Architect marked the Transverse (106'-4" 2nd Floor & 97'-0" 1st Floor) and
Longitudinal (53'-0" 2nd Floor & 64'-8" 1st Floor) Shear Wall locations on the Drawings as prepared
by Jerry Lerner.

If you have any questions, please do not hesitate to call. Thank you for the opportunity to provide
you with this service.

Thank You,



Donald Alan Yanskey, Architect FL AR 0011010

File: Jerry Lerner - Lerner Res - Columbia Co - 01.doc

CLYATT WELL DRILLING, INC.*(Established in 1971)**Post Office Box 180**Worthington Springs, FL 32697**Phone (386)496-2488 *** FAX (386)496-4640***WELL DESCRIPTION**

DESCRIPTION DATE

11/4/2010

CUSTOMER NAME AND ADDRESS

Lerner Industries
Attn.: Jerry Lerner
10107 Northwest 24th Place
Gainesville, Florida 32606

DESCRIPTION OF WORK

DESCRIPTION

Feet 4" Well
1 HP Submersible Pump
Feet 1-1/4" Drop Pipe
Feet 14/4 Submersible Pump Wire
4 X 1-1/4 Well Seal
81 Gallon Captive Air Tank (20 Gallon Drawdown)
Controls and Fittings
Sales Tax @ 6%

WELL LOCATED AT: LOT 3 HERMITAGE BLVD RD.
292 HERMITAGE BLVD RD High Springs
FL.

The above description is provided to give a brief description of the water well to be constructed by Clyatt Well Drilling, Inc.

Windload Calculations Summary

For

Jerry & Christy Lerner

292 SW Hermitage Glen Road – Columbia County, Florida

CRITERIA:

Code Reference:

Florida Building Code 2007

With 2008 & 2009 Supplements

Location:

Columbia County, Florida (East of I-75)

Basic Wind Speed:

110 MPH

Mean Roof Height:

Less than 30'-0" (21.1 Feet)

Wind Importance Factor:

1.0

Building Exposure Factor:

Exposure B

Building Enclosure:

Building is Enclosed

Internal Pressure Coefficient:

± 0.18

Component & Cladding Design Wind Pressure:

29.1 PSF

Roof Overhang Design Wind Pressure:

42.4 PSF



BUILDING DATA:

New Two Story Residence:

± 18'-4" Top of Plate

Roof Pitch:

8 / 12

Gable Roof Overhang:

1'-0"

FOOTINGS:

Perimeter Monolithic Footing: 16" Wide x 20" Deep with 2 - #5 continuous. Provide 4" thick concrete slab with heavy duty fibermesh reinforcement on 6 mil vapor barrier over 95% density clean compacted fill.

Center Column Footings: 36" x 36" x 12" Deep with 4 - #5 Each Way with Simpson ABU66 Post Base Anchor.

Front & Rear Porch Footings & Posts: 16" Wide x 20" Deep with 2 - #5 continuous. 6 x 6 with Simpson ABU66 Post Base Anchor and Simpson AC6 (Min) Post Cap Anchor.

Donald A. Yanskey, Architect

11/3/2010

FL AR 11010

1 of 3

Center Columns: 6 x 6 with Simpson ABU66 Post Base Anchor and Simpson AC6 (Min) Post Cap Anchor.

All concrete in footings & slabs shall be 3000 psi. All reinforcement shall be 60 ksi.

SECOND FLOOR FRAMING:

Provide 2 x 8 No. 2 Southern Pine @ 16" O.C. set on 2 x 2 (1½" x 1½") No. 2 Southern Pine continuous ledger with 12d Common nails at 6" O.C. into beam, also toe nail each floor joist with 3 – 16d Common nails each side at each end of each joist. Provide 3 - 2 x 12 Floor Beams with ½" solid continuous plywood or OSB spacer between each 2 x 12 glue & nail.

Provide ¾" thick AC plywood floor deck glued and nailed.

SHEAR WALLS:

Transverse Shear Walls:

At **Second Floor Transverse** Shear Walls, provide 106'-4" Lineal Feet with 7/16" OSB wall sheathing with 8d Ring Shank (0.120" Shank diameter) nails at 4" along sheet edges and 8" O.C. in sheet field. Maximum force applied at top of Second Floor Transverse Shear Walls is 12,495# per 106'-4" = 118# per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field.

At **First Floor Transverse** Shear Walls, provide 97'-0" Lineal Feet with 7/16" OSB wall sheathing with 8d Ring Shank (0.120" Shank diameter) nails at 4" along sheet edges and 8" O.C. in sheet field. Maximum force accumulated and applied at First Floor Transverse Shear Walls is 21,175# per 97'-0" = 218.3# per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field.

Longitudinal Shear Walls:

At **Second Floor Longitudinal** Shear Walls, provide 53'-0" Lineal Feet with 7/16" OSB wall sheathing with 8d Ring Shank (0.120" Shank diameter) nails at 4" along sheet edges and 8" O.C. in sheet field. Maximum force applied at top of Second Floor Transverse Shear Walls is 8,035# per 53'-0" = 155# per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field.

At **First Floor Longitudinal** Shear Walls, provide 64'-8" Lineal Feet with 7/16" OSB wall sheathing with 8d Ring Shank (0.120" Shank diameter) nails at 4" along sheet edges and 8" O.C. in sheet field. Maximum force accumulated and applied at First Floor Transverse Shear Walls is 14,545# per 64'-8" = 225# per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field.

Donald A. Yanskey, Architect

11/3/2010

FL AR 11010

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FRONT PORCH BEAMS:

Provide 2 – 2 x 10 No. 2 Southern Pine wood beams with 1 – ½" layer of solid continuous plywood or OSB spacers glued and nailed with 16d Common nails at 12" O.C. in 2 rows at Front & Front Side Porch Beams.

REAR PORCH BEAMS:

Rear Porch Beam: Provide 3 – 2 x 12 No. 2 Southern Pine wood beam with 2 – ½" layers of solid continuous plywood or OSB spacers glued and nailed with 16d Common nails at 12" O.C. in 2 rows top and bottom and center row at 24" O.C.

Side Rear Porch Beam: Provide 2 – 2 x 12 No. 2 Southern Pine wood beam with 1 – ½" layer of solid continuous plywood or OSB spacers glued and nailed with 16d Common nails at 12" O.C. in 2 rows top and bottom and center row at 24" O.C.

ROOF FRAMING:

Provide Pre-Fabricated, Pre-Engineered Roof Trusses at 24" O.C.

Provide Simpson H10 Hurricane Anchors at each truss bearing location.

ROOF SHEATHING:

Use 7/16" thick OSB sheathing minimum with 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field. No intermediate blocking is required between trusses.

Maximum force applied at top of Second Floor Transverse Shear Walls is 12,495# per 106'-4" = 118# per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field.

Maximum force applied at top of Second Floor Transverse Shear Walls is 8,035# per 53'-0" = 155# per lineal foot. Provide 8d Ring Shank Nails at 4" O.C. along sheet edges and 8" O.C. in sheet field.

Donald A. Yanskey, Architect

11/3/2010

FL AR 11010

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COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIREMENTS

6-25-09

**MINIMUM PLAN REQUIREMENTS FOR THE
FLORIDA BUILDING CODE RESIDENTIAL 2007 EFFECTIVE 1 MARCH 2009 & 2009
SUPPLEMENTS EFFECTIVE 1 MARCH 2009, ONE (1) AND TWO (2) FAMILY DWELLINGS
with Supplements and Revision, OF THE NATIONAL ELECTRICAL 2008**

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007
FLORIDA BUILDING CODES RESIDENTIAL EFFECTIVE 1 MARCH 2009 & 2009
SUPPLEMENTS EFFECTIVE 1 MARCH 2009. ALL PLANS OR DRAWINGS SHALL
PROVIDE 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 FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind
speed map) SHALL BE USED.**

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

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

**GENERAL REQUIREMENTS:
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**

Items to Include-
Each Box shall be
Circled as
Applicable

			Yes	No	N/A
1	Two (2) complete sets of plans containing the following:		<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void		<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.) 3308 SF	Total (Sq. Ft.) under roof 3924 SF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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 as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	<input checked="" type="checkbox"/>		
5	Dimensions of all building set backs	<input checked="" type="checkbox"/>		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	<input checked="" type="checkbox"/>		
7	Provide a full legal description of property.	<input checked="" type="checkbox"/>		

Wind-load Engineering Summary, calculations and any details required

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIII	IIII	IIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	✓		

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys	✓		
18	Location and size of skylights with Florida Product Approval	✓		
18	Number of stories	2✓		
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade	✓		
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 613.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)	✓		
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	✓		
28	Identify accessibility of bathroom (see FBCR SECTION 322)	✓		

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
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FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
30	All posts and/or column footing including size and reinforcing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
31	Any special support required by soil analysis such as piling.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
32	Assumed load-bearing value of soil Pound Per Square Foot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Sub mit other approved termite protection methods. Protection shall be provided by registered termiticides	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
42	Attachment of joist to girder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
43	Wind load requirements where applicable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
44	Show required under-floor crawl space	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

45	Show required amount of ventilation opening for under-floor spaces	N/A	✓		
46	Show required covering of ventilation opening	N/A	✓		
47	Show the required access opening to access to under-floor spaces	N/A	✓		
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & interior of the areas structural panel sheathing		✓		
49	Show Draftstopping, Fire caulking and Fire blocking		✓		
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309	N/A	✓		
51	Provide live and dead load rating of floor framing systems (psf).		✓		

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
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		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown	✓		
54	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	✓		
55	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	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)	✓		
57	Indicate where pressure treated wood will be placed	✓		
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	✓		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

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

FBCR Table 602.3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assemblies covering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72	Submit Florida Product Approval numbers for each component of the roof assemblies covering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74	Attic space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75	Exterior wall cavity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76	Crawl space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79	Show clothes dryer route and total run of exhaust duct	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81	Show the location of water heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Private Potable Water

82	Pump motor horse power	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83	Reservoir pressure tank gallon capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84	Rating of cycle stop valve if used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	✓		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	✓		
87	Show the location of smoke detectors & Carbon monoxide detectors	✓		
88	Show service panel, sub-panel, location(s) and total ampere ratings	✓		
89	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. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3			
90	Appliances and HVAC equipment and disconnects	✓		
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter , Protection device.	✓		

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

<p align="center">GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</p>	<p align="center">Items to Include- Each Box shall be Circled as Applicable</p>
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THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current Building Permit Application form is to be completed and submitted for all residential projects	✓		
93	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	✓		
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	City of Lake City A permit showing an approved waste water sewer tap	N/A	✓	
96	Toilet facilities shall be provided for all construction sites	✓		
97	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	✓		

98	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 a 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 8.5.2 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 8.5.3 of the Columbia County Land Development Regulations	N/A	✓	
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established	N/A	✓	
100	A development permit will also be required. Development permit cost is \$50.00	N/A	✓	
101	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.			
102	911 Address: If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125		✓	

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation 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.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department

FORM 1100A-08

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: Lerner
Street:
City, State, Zip: High Springs, FL,
Owner: Lerner
Design Location: FL, Gainesville

Builder Name: Lerner
Permit Office: Columbia
Permit Number: 29012
Jurisdiction: 221006

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	2
5. Is this a worst case?	No
6. Conditioned floor area (ft ²)	3204
7. Windows	Description Area
a. U-Factor:	Dbl, U=0.72 516.00 ft ²
SHGC:	SHGC=0.62
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
e. U-Factor:	N/A ft ²
SHGC:	
8. Floor Types	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2916.00 ft ²
b. Raised Floor	R=19.0 288.00 ft ²
c. N/A	R= ft ²

9. Wall Types	Insulation Area
a. Frame - Wood, Exterior	R=13.0 3132.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types	Insulation Area
a. Under Attic (Vented)	R=0.0 3204.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts (combined)	
a. Sup: Attic Ret: Attic AH: Interior Sup. R=	1, 640.8 ft ²
12. Cooling systems (combined)	
a. Central Unit	Cap: 64.4 kBtu/hr SEER: 13.27
13. Heating systems (combined)	
a. Electric Heat Pump	Cap: 66.0 kBtu/hr HSPF: 7.86
14. Hot water systems	
a. Propane	Cap: 1 gallons EF: 0.82
b. Conservation features	None
15. Credits	CF, Pstat

Glass/Floor Area: 0.161

Total As-Built Modified Loads: 52.81

Total Baseline Loads: 63.24

F'ASS

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

PREPARED BY: *[Signature]*

DATE: 11/8/10

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

OWNER/AGENT: *[Signature]*

DATE: 11/8/10

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



BUILDING OFFICIAL: *[Signature]*

DATE: 11/8/10



PROJECT

Title:	Lerner	Bedrooms:	2	Address Type:	Street Address
Building Type:	FLAsBuilt	Conditioned Area:	3204	Lot #	
Owner:	Lerner	Total Stories:	2	SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Lerner	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	High Springs , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
✓	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

✓	#	Floor Type	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
✓	1	Slab-On-Grade Edge Insulatio	171 ft	0	2916 ft²		0.3	0	0.7
✓	2	Raised Floor			288 ft²	19	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
✓	1	Hip	Composition shingles	3583 ft²	0 ft²	Medium	0.96	No	0	26.6 deg

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Vented	300	3204 ft²	N	N

CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	30	3204 ft²	0.11	Wood

WALLS

✓	#	Omt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
✓	1	N	Exterior	Frame - Wood	13	864 ft²		0.23	0.75
✓	2	E	Exterior	Frame - Wood	13	702 ft²		0.23	0.75
✓	3	S	Exterior	Frame - Wood	13	864 ft²		0.23	0.75
✓	4	W	Exterior	Frame - Wood	13	702 ft²		0.23	0.75

DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
✓	1	N	Insulated	None	0.460000	20 ft²
✓	2	S	Insulated	None	0.460000	20 ft²
✓	3	S	Insulated	None	0.460000	20 ft²
✓	4	W	Insulated	None	0.460000	20 ft²

WINDOWS

Orientation shown is the entered, asBuilt orientation.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth Separation	Int Shade	Screening
✓	1	N	Metal	Double (Clear)	Yes	0.72	0.62	N	90 ft²	1 ft 0 in 12 ft 0 in	HERS 2006	None
✓	2	N	Metal	Double (Clear)	Yes	0.72	0.62	N	40 ft²	1 ft 0 in 12 ft 0 in	HERS 2006	None
✓	3	N	Metal	Double (Clear)	Yes	0.72	0.62	N	8 ft²	1 ft 0 in 12 ft 0 in	HERS 2006	None
✓	4	N	Metal	Double (Clear)	Yes	0.72	0.62	N	60 ft²	1 ft 0 in 6 ft 0 in	HERS 2006	None
✓	5	N	Metal	Double (Clear)	Yes	0.72	0.62	N	8 ft²	1 ft 0 in 0 ft 6 in	HERS 2006	None
✓	6	N	Metal	Double (Clear)	Yes	0.72	0.62	N	8 ft²	1 ft 0 in 0 ft 6 in	HERS 2006	None
✓	7	E	Metal	Double (Clear)	Yes	0.72	0.62	N	15 ft²	1 ft 0 in 12 ft 0 in	HERS 2006	None
✓	8	E	Metal	Double (Clear)	Yes	0.72	0.62	N	30 ft²	1 ft 0 in 0 ft 6 in	HERS 2006	None
✓	9	S	Metal	Double (Clear)	Yes	0.72	0.62	N	90 ft²	1 ft 0 in 0 ft 6 in	HERS 2006	None
✓	10	S	Metal	Double (Clear)	Yes	0.72	0.62	N	30 ft²	12 ft 0 in 0 ft 6 in	HERS 2006	None
✓	11	E	Metal	Double (Clear)	Yes	0.72	0.62	N	30 ft²	24 ft 0 in 0 ft 6 in	HERS 2006	None
✓	12	E	Metal	Double (Clear)	Yes	0.72	0.62	N	20 ft²	6 ft 0 in 0 ft 6 in	HERS 2006	None
✓	13	S	Metal	Double (Clear)	Yes	0.72	0.62	N	30 ft²	1 ft 0 in 12 ft 0 in	HERS 2006	None
✓	14	W	Metal	Double (Clear)	Yes	0.72	0.62	N	15 ft²	1 ft 0 in 12 ft 0 in	HERS 2006	None
✓	15	W	Metal	Double (Clear)	Yes	0.72	0.62	N	30 ft²	1 ft 0 in 0 ft 6 in	HERS 2006	None
✓	16	W	Metal	Double (Clear)	Yes	0.72	0.62	N	12 ft²	1 ft 0 in 0 ft 6 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqlA	— Forced Ventilation — Supply CFM Exhaust CFM		Run Time Fraction	Fan Watts
✓	Default	0.00036	3025	6.30	166.1	312.4	0 cfm	0 cfm	0	0

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ducts
✓	1	Central Unit	None	SEER: 13	30 kBtu/hr	900 cfm	0.75	Ductless
✓	2	Central Unit	None	SEER: 13.5	34.4 kBtu/hr	1032 cfm	0.75	sys#0

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ducts
✓	1	Electric Heat Pump	None	HSPF: 7.7	30 kBtu/hr	Ductless
✓	2	Electric Heat Pump	None	HSPF: 8	36 kBtu/hr	sys#0

HOT WATER SYSTEM													
✓	#	System Type	EF	Cap	Use	SetPnt	Conservation						
	1	Propane	0.82	1 gal	50 gal	120 deg	None						
SOLAR HOT WATER SYSTEM													
✓	FSEC Cert #	Company Name	System Model #		Collector Model #		Collector Area	Storage Volume	FEF				
	None	None					ft²						
DUCTS													
✓	#	— Supply —		— Return —		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF		
	1	Attic	6	640.8 ft	Attic	160.2 ft	Default Leakage	Interior	(Default)	(Default) %			
	2	Interior	6	640.8 ft	Interior	160.2 ft	Default Leakage	Interior	(Default)	(Default) %			
TEMPERATURES													
Programable Thermostat: Y						Ceiling Fans:							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Thermostat Schedule: HERS 2006 Reference													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: High Springs, FL,	PERMIT #:
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INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 84

The lower the EnergyPerformance Index, the more efficient the home.

, High Springs, FL,

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0	3132.00 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	ft ²
4. Number of Bedrooms	2	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	3204	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=3.0	3204.00 ft ²
a. U-Factor:	Dbl, U=0.72	b. N/A	R=	ft ²
SHGC:	SHGC=0.62	c. N/A	R=	ft ²
b. U-Factor:	N/A	11. Ducts (combined)		
SHGC:		a. Sup: Attic Ret: Attic AH: Interior Sup. R= 3, 640.8 ft ²		
c. U-Factor:	N/A	12. Cooling systems (combined)		
SHGC:		a. Central Unit	Cap: 64.4 kBtu/hr	
d. U-Factor:	N/A		SEER: 13.27	
SHGC:		13. Heating systems (combined)		
e. U-Factor:	N/A	a. Electric Heat Pump	Cap: 66.0 kBtu/hr	
SHGC:			HSPF: 7.86	
8. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R=0.0	2916.00 ft ²		
b. Raised Floor	R=19.0	288.00 ft ²		
c. N/A	R=			
		14. Hot water systems		
		a. Propane	Cap: 1 gallons	
			EF: 0.82	
		b. Conservation features		
		None		
		15. Credits		
			CF, Pstat	

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

Builder Signature: _____

Date: 11/8/10

Address of New Home: 292 Hermitage Glen Rd.
High Springs, FL

City/FL Zip: 32643



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

331-2788

wrightsoft Load Short Form
Entire House
P.O.Box 1617

Job: Bounds HVAC
Date: Nov 04, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Learner
Personal House

Design Information

Outside db (°F)	Htg 33	Clg 92	Method	Infiltration	Simplified
Inside db (°F)	68	75	Construction quality		Tight
Design TD (°F)	35	17	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	29	52			

HEATING EQUIPMENT

Make n/a
Trade n/a
Model n/a
ARI ref no. n/a

Efficiency n/a
Heating input
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Space thermostat n/a

COOLING EQUIPMENT

Make n/a
Trade n/a
Cond n/a
Coil n/a
ARI ref no. n/a
Efficiency
Sensible cooling
Latent cooling
Total cooling
Actual air flow
Air flow factor
Static pressure
Load sensible heat ratio



n/a
0 Btuh
0 Btuh
0 Btuh
0 cfm
0 cfm/Btuh
0 in H2O
0

ROOM NAME		Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Second Floor Unit (Rest of House)	d	1774	25384	26172	1147	1147
	d	1473	24984	24395	1000	1000
Entire House	d	3247	50369	50567	2147	2147
Other equip loads			0	0		
Equip. @ 0.97 RSM				49050		
Latent cooling				5390		
TOTALS		3247	50369	54440	2147	2147

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft Load Short Form (Rest of House) P.O.Box 1617

Job: Bounds HVAC
Date: Nov 04, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: mrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Learner
Personal House

Design Information

	Htg	Clg	Method	Infiltration	Simplified
Outside db (°F)	33	92			
Inside db (°F)	68	75	Construction quality		Tight
Design TD (°F)	35	17	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	29	52			

HEATING EQUIPMENT

Make Carrier
Trade BASE 14 PURON HP
Model 25HBB430(A,W)31
ARI ref no. 3254624

Efficiency 8 HSPF
Heating input
Heating output 30000 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 1000 cfm
Air flow factor 0.040 cfm/Btuh
Static pressure 1.00 in H2O
Space thermostat

COOLING EQUIPMENT

Make Carrier
Trade BASE 14 PURON HP
Cond 25HBB430(A,W)31
Coil FY4ANF030
ARI ref no. 3254624

Efficiency 10.8 EER, 13 SEER
Sensible cooling 21000 Btuh
Latent cooling 9000 Btuh
Total cooling 30000 Btuh
Actual air flow 1000 cfm
Air flow factor 0.041 cfm/Btuh
Static pressure 1.00 in H2O
Load sensible heat ratio 0.92

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Great Room	592	11419	9130	457	374
Dining	160	3752	5735	150	235
Bath Storage	120	2159	753	86	31
Kit Nook	441	3836	5596	154	229
Pantry	88	2265	1821	91	75
Christ	72	1553	1360	62	56
(Rest of House) d	1473	24984	24395	1000	1000
Other equip loads		0	0		
Equip. @ 0.97 RSM			23664		
Latent cooling			2006		
TOTALS	1473	24984	25670	1000	1000

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wrightsoft **Load Short Form**
Second Floor Unit
P.O.Box 1617

Job: Bounds HVAC
 Date: Nov 04, 2010
 By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Learner
 Personal House

Design Information

Outside db (°F)	Htg 33	Clg 92	Method	Infiltration	Simplified
Inside db (°F)	68	75	Construction quality		Tight
Design TD (°F)	35	17	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	29	52			

HEATING EQUIPMENT

Make Carrier
 Trade BASE 15 PURON HP
 Model 25HBB536(A,W)30
 ARI ref no. 3343555

Efficiency 8 HSPF
 Heating input
 Heating output 36000 Btuh @ 47°F
 Temperature rise 29 °F
 Actual air flow 1147 cfm
 Air flow factor 0.045 cfm/Btuh
 Static pressure 1.00 in H2O
 Space thermostat

COOLING EQUIPMENT

Make Carrier
 Trade BASE 15 PURON HP
 Cond 25HBB536(A,W)30
 Coil FY4ANF036
 ARI ref no. 3343555

Efficiency 11.2 EER, 13.5 SEER
 Sensible cooling 24080 Btuh
 Latent cooling 10320 Btuh
 Total cooling 34400 Btuh
 Actual air flow 1147 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 1.00 in H2O
 Load sensible heat ratio 0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Game	531	7136	10315	322	452
Master Bath	134	200	290	9	13
Laund	96	1242	1528	56	67
Bath	105	2592	1539	117	67
Dylan Room	238	3665	3459	166	152
Master	340	3605	3915	163	172
His	98	2364	846	107	37
Room8	24	943	1252	43	55
Christ Closet	208	3637	3028	164	133

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Second Floor Unit	d	1774	25384	26172	1147	1147
Other equip loads			0	0		
Equip. @ 0.97 RSM				25387		
Latent cooling				3384		
TOTALS		1774	25384	28770	1147	1147

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft **Project Summary**
Entire House
P.O.Box 1617

Job: Bounds HVAC
 Date: Nov 04, 2010
 By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Leamer
 Personal House

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 68 °F
 Design TD 35 °F

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 52 gr/lb

Heating Summary

Structure 38881 Btuh
 Ducts 11487 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 50369 Btuh

Sensible Cooling Equipment Load Sizing

Structure 36178 Btuh
 Ducts 14389 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh

Infiltration

Method Simplified
 Construction quality Tight
 Fireplaces 0

Use manufacturer's data
 Rate/swing multiplier n
 Equipment sensible load 49050 Btuh

Latent Cooling Equipment Load Sizing

Structure 1899 Btuh
 Ducts 3491 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 5390 Btuh
 Equipment total load 54440 Btuh
 Req. total capacity at 0.70 SHR 5.8 ton

Heating Equipment Summary

Make n/a
 Trade n/a
 Model n/a
 ARI ref no. n/a
 Efficiency n/a
 Heating input 0 Btuh
 Heating output 0 °F
 Temperature rise 0 cfm
 Actual air flow 0 cfm/Btuh
 Air flow factor 0 in H2O
 Static pressure n/a
 Space thermostat n/a

Cooling Equipment Summary

Make n/a
 Trade n/a
 Cond n/a
 Coil n/a
 ARI ref no. n/a
 Efficiency n/a
 Sensible cooling 0 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

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 Bold/italic values have been manually overridden

wrightsoft **Project Summary** **(Rest of House)** **P.O.Box 1617**

Job: Bounds HVAC
 Date: Nov 04, 2010
 By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Learner
 Personal House

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 68 °F
 Design TD 35 °F

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 52 gr/lb

Heating Summary

Structure 19815 Btuh
 Ducts 5169 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 24984 Btuh

Sensible Cooling Equipment Load Sizing

Structure 17880 Btuh
 Ducts 6515 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh

Infiltration

Method Simplified
 Construction quality Tight
 Fireplaces 0

	Heating	Cooling
Area (ft ²)	1473	1473
Volume (ft ³)	14082	14082
Air changes/hour	0.11	0.05
Equiv. AVF (cfm)	25	13

Use manufacturer's data
 Rate/swing multiplier 0.97
 Equipment sensible load 23664 Btuh

Latent Cooling Equipment Load Sizing

Structure 443 Btuh
 Ducts 1563 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 2006 Btuh
 Equipment total load 25670 Btuh
 Req. total capacity at 0.70 SHR 2.8 ton

Heating Equipment Summary

Make Carrier
 Trade BASE 14 PURON HP
 Model 25HBB430(A,W)31
 ARI ref no. 3254624

Efficiency 8 HSPF
 Heating input 30000 Btuh @ 47°F
 Heating output 27 °F
 Temperature rise 1000 cfm
 Actual air flow 0.040 cfm/Btuh
 Air flow factor 1.00 in H2O
 Static pressure
 Space thermostat

Cooling Equipment Summary

Make Carrier
 Trade BASE 14 PURON HP
 Cond 25HBB430(A,W)31
 Coil FY4ANF030
 ARI ref no. 3254624
 Efficiency 10.8 EER, 13 SEER
 Sensible cooling 21000 Btuh
 Latent cooling 9000 Btuh
 Total cooling 30000 Btuh
 Actual air flow 1000 cfm
 Air flow factor 0.041 cfm/Btuh
 Static pressure 1.00 in H2O
 Load sensible heat ratio 0.92

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft **Project Summary** **Second Floor Unit** **P.O.Box 1617**

Job: Bounds HVAC
 Date: Nov 04, 2010
 By: Robert Bounds

25845 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Learner
 Personal House

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 68 °F
 Design TD 35 °F

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 52 gr/lb

Heating Summary

Structure 19066 Btuh
 Ducts 6318 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 25384 Btuh

Sensible Cooling Equipment Load Sizing

Structure 18298 Btuh
 Ducts 7874 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh

Infiltration

Method Simplified
 Construction quality Tight
 Fireplaces 0

Use manufacturer's data
 Rate/swing multiplier 0.97
 Equipment sensible load 25387 Btuh

Latent Cooling Equipment Load Sizing

Structure 1456 Btuh
 Ducts 1928 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 3384 Btuh

Area (ft²) Heating 1774 Cooling 1774
 Volume (ft³) 16606 16606
 Air changes/hour 0.09 0.05
 Equiv. AVF (cfm) 26 13

Equipment total load 28770 Btuh
 Req. total capacity at 0.70 SHR 3.0 ton

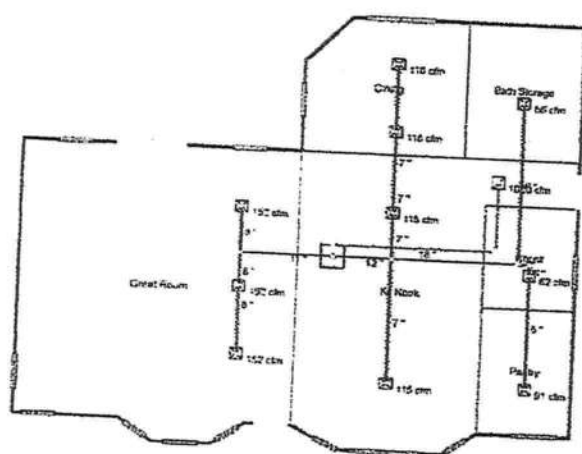
Heating Equipment Summary

Make Carrier
 Trade BASE 15 PURON HP
 Model 25HBB536(A,W)30
 ARI ref no. 3343555
 Efficiency 8 HSPF
 Heating input 36000 Btuh @ 47°F
 Heating output 29 °F
 Temperature rise 1147 cfm
 Actual air flow 0.045 cfm/Btuh
 Air flow factor 1.00 in H2O
 Static pressure
 Space thermostat

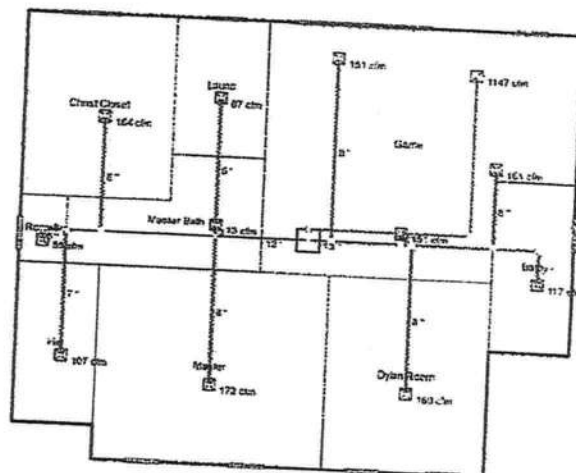
Cooling Equipment Summary

Make Carrier
 Trade BASE 15 PURON HP
 Cond 25HBB536(A,W)30
 Coil FY4ANF036
 ARI ref no. 3343555
 Efficiency 11.2 EER, 13.5 SEER
 Sensible cooling 24080 Btuh
 Latent cooling 10320 Btuh
 Total cooling 34400 Btuh
 Actual air flow 1147 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 1.00 in H2O
 Load sensible heat ratio 0.89

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



Level 1



Job #: Bounds HVAC
Performed by Robert Bounds for:
 Jerry Learner
 Personal House

P.O.Box 1617
 25645 W. Newberry Rd.
 Newberry, FL 32669
 Phone: 352-472-2761 Fax: 352-472-1809
www.bounds HVAC.com mrobertbounds@aol.com

Scale: 1 : 190
 Page 1
 Right-Suite® Universal
 7.1.25 RSU01870
 2010-Nov-04 11:17:44
 Project2.rup

wrightsoft **Duct System Summary**
(Rest of House)
P.O.Box 1617

Job: Bounds HVAC
Date: Nov 04, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Leamer
Personal House

External static pressure
Pressure losses
Available static pressure
Supply / return available pressure
Lowest friction rate
Actual air flow
Total effective length (TEL)

Heating
1.00 in H2O
0.30 in H2O
0.70 in H2O
0.50 / 0.20 in H2O
0.100 in/100ft
1000 cfm

Cooling
1.00 in H2O
0.30 in H2O
0.70 in H2O
0.50 / 0.20 in H2O
0.100 in/100ft
1000 cfm

315 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath Storage	h 2159	86	31	0.100	6.0	0x0	VIFx	30.0	195.0	st3
Christ	h 1553	62	56	0.100	6.0	0x0	VIFx	18.0	185.0	st3
Dining	c 2867	75	118	0.100	7.0	0x0	VIFx	22.0	150.0	st3
Dining-A	c 2867	75	118	0.100	7.0	0x0	VIFx	16.0	150.0	st3
Great Room	h 3807	152	125	0.100	8.0	0x0	VIFx	12.0	130.0	st4
Great Room-A	h 3806	152	125	0.100	8.0	0x0	VIFx	17.0	130.0	st4
Great Room-B	h 3806	152	125	0.100	8.0	0x0	VIFx	11.0	130.0	st4
Kit Nook	c 2798	77	115	0.100	7.0	0x0	VIFx	16.0	150.0	st3
Kit Nook-A	c 2798	77	115	0.100	7.0	0x0	VIFx	9.0	150.0	st3
Pantry	h 2265	91	75	0.100	6.0	0x0	VIFx	28.0	185.0	st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	543	626	0.100	797	12.0	0 x 0	RectFbg	
st4	Peak AVF	457	374	0.100	693	11.0	0 x 0	RectFbg	

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb4	0x0	1000	1000	90.0	0.050	566	18.0	0x 0		VIFx	

wrightsoft **Duct System Summary**
Second Floor Unit
P.O.Box 1617

Job: Bounds HVAC
Date: Nov 04, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: rrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Jerry Leamer
Personal House

External static pressure
Pressure losses
Available static pressure
Supply / return available pressure
Lowest friction rate
Actual air flow
Total effective length (TEL)

Heating
1.00 in H2O
0.30 in H2O
0.70 in H2O
0.50 / 0.20 in H2O
0.100 in/100ft
1147 cfm

Cooling
1.00 in H2O
0.30 in H2O
0.70 in H2O
0.50 / 0.20 in H2O
0.100 in/100ft
1147 cfm

341 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath	h 2592	117	67	0.100	7.0	0x0	VIFx	23.0	100.0	st1
Christ Closet	h 3637	164	133	0.100	8.0	0x0	VIFx	28.0	215.0	st2
Dylan Room	h 3665	166	152	0.100	8.0	0x0	VIFx	22.0	150.0	st1
Game	c 3439	108	151	0.100	8.0	0x0	VIFx	9.0	160.0	st1
Game-A	c 3438	107	151	0.100	8.0	0x0	VIFx	18.0	165.0	st1
Game-B	c 3438	107	151	0.100	8.0	0x0	VIFx	23.0	140.0	st1
His	h 2364	107	37	0.100	7.0	0x0	VIFx	32.0	205.0	st2
Laund	c 1528	56	67	0.100	6.0	0x0	VIFx	20.0	160.0	st2
Master	c 3915	163	172	0.100	8.0	0x0	VIFx	21.0	160.0	st2
Master Bath	c 290	9	13	0.100	4.0	0x0	VIFx	9.0	160.0	st2
RoomB	c 1252	43	55	0.100	5.0	0x0	VIFx	24.0	165.0	st2

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	605	671	0.100	728	13.0	0 x 0	RectFbg	
st2	Peak AVF	542	476	0.100	690	12.0	0 x 0	RectFbg	

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Cig (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb3	0x0	1147	1147	98.0	0.050	582	19.0	0x 0		VIFx	

FAX 352-331-2788

Application # 1011-13

29012

AFFIDAVIT

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

This is to certify that I, (We) The Hermitage, LLC,
owner of the below described property:

Tax Parcel No: 21-7S-17-10039-103

Subdivision (name, lot, block, phase) Lot 3 Hermitage S/D.

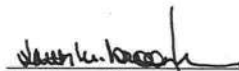
Give my permission to Jerry A. Lerner to place a
mobile home/travel trailer/single family home (circle one) on the above mentioned
property.

I (We) understand that this could result in an assessment for solid waste and fire
protection services levied on this property.

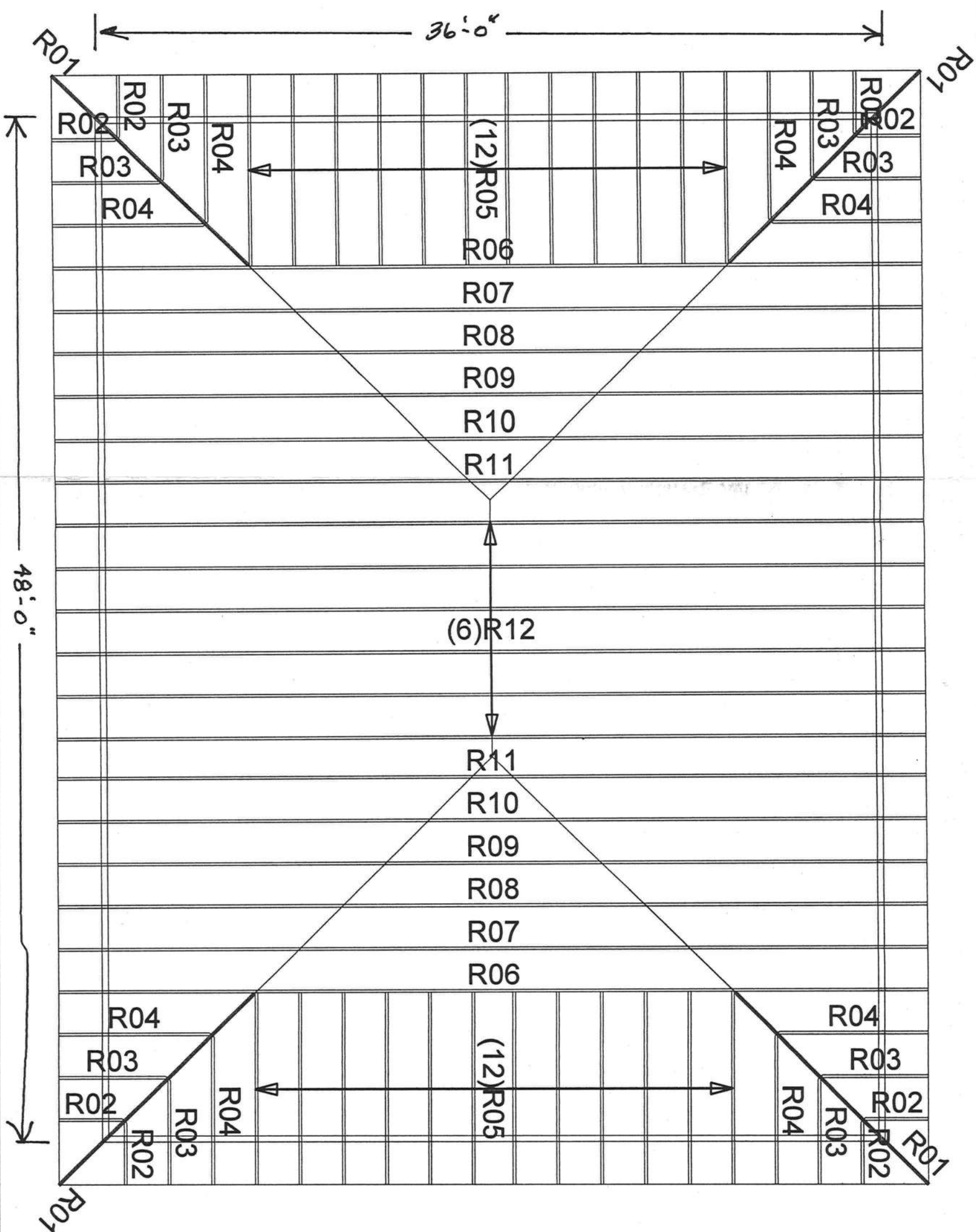


Mark P. Sullivan, Managing Member
Northern Alachua Holdings, LLC - Owner

SWORN AND SUBSCRIBED before me this 18 day of November
20 10. This (these) person(s) are personally known to me or produced
ID


Notary Signature

FAITH M. BROOKER
MY COMMISSION # DD 984820
EXPIRES: April 25, 2014
Bonded Thru Budget Notary Services



LERNER RESIDENCE



RIDGEWAY ROOF TRUSS CO., INC.

Roof Loading	
TC Live:	20.00 psf
TC Dead:	7.00 psf
BC Live:	0.00 psf
BC Dead:	10.00 psf
TC Stress Inc:	25.00
BC Stress Inc:	25.00
Enclined:	2.0.0.0.0.0
Account: Lerner Industries	
Job: QU092758	
Designer: GRW	
Checker:	
Date: 11-05-10	

Ridgway Roof Truss Company

(Trusses and Prefabricated Building Components)

Mailing: P.O. Box 1309 – Gainesville, Florida 32602
Physical: 235 SW 11th Place – Gainesville, Florida 32601

Telephone: (352) 376-4436
FAX: (352) 371-3316

Email: Sales@RidgwayTruss.com
www.RidgwayTruss.com

WARNING

**THESE TRUSSES MUST BE
HANDLED AND ERECTED
ACCORDING TO BCSI
SUMMARY SHEETS**

http://www.sbcindustry.docs/06_bcsi_booklet_final.pdf

SEE TABLE OF CONTENTS

SEALED
DESIGN MANUAL



PROJECT NAME: Lerner

JOB NUMBER: QUO92758

CONTRACTOR: Lerner Industries

DATE: 11/05/2010 jrt

REVISIONS: _____

COMMENTS: _____



Important Notice: If visually graded lumber is used for the trusses covered by these designs, see "SPIB Important Notice, Dated July 28, 2010" (reprinted at www.mii.com) before use. MiTek does not warrant third-party lumber design values.

RE: QUO92758 -

MiTek Industries, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Lerner Industries Project Name: Lerner Residence Model: -
Lot/Block: - Subdivision: -
Address: -
City: Columbia Co State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2007 Design Program: OnLine Plus 27.5.019
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 37.0 psf

This package includes 12 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T3918198	R01	11/5/010
2	T3918199	R02	11/5/010
3	T3918200	R03	11/5/010
4	T3918201	R04	11/5/010
5	T3918202	R05	11/5/010
6	T3918203	R06	11/5/010
7	T3918204	R07	11/5/010
8	T3918205	R08	11/5/010
9	T3918206	R09	11/5/010
10	T3918207	R10	11/5/010
11	T3918208	R11	11/5/010
12	T3918209	R12	11/5/010

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Ridgway Roof Trusses.

Truss Design Engineer's Name: Velez, Joaquin

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

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



FL Cert. 6634

November 5, 2010

Velez, Joaquin

1 of 1

Table of Contents

1.General Notes

**2.WTCA 1-1995 (Standard Responsibilities
in the Design Process involving Metal
Plate Connected Wood Trusses)**

3.Engineering (insert)

4.Layout of Truss Placement Plan (insert)

**5. Jobsite Package w/ BCSI B-1, B-2, B-3
and B-4(Handling, Installing and Bracing
Information)**

http://www.sbcindustry.com/docs/06_bcsi_booklet_final.pdf

6.Standard Chord and Web Repairs

7.Examples of Permanent Web Bracing



Wood Truss Council of America

5937 Meadowood Dr., Ste. 14 • Madison, WI 53711-4125 • 608/274-3329 (fax)

**Standard Responsibilities
in the Design Process
Involving Metal Plate
Connected Wood Trusses**

WTCA 1-1995

Developed by the WTCA Engineering Review Committee
in cooperation with the Truss Plate Institute

2.0 OWNER RESPONSIBILITIES

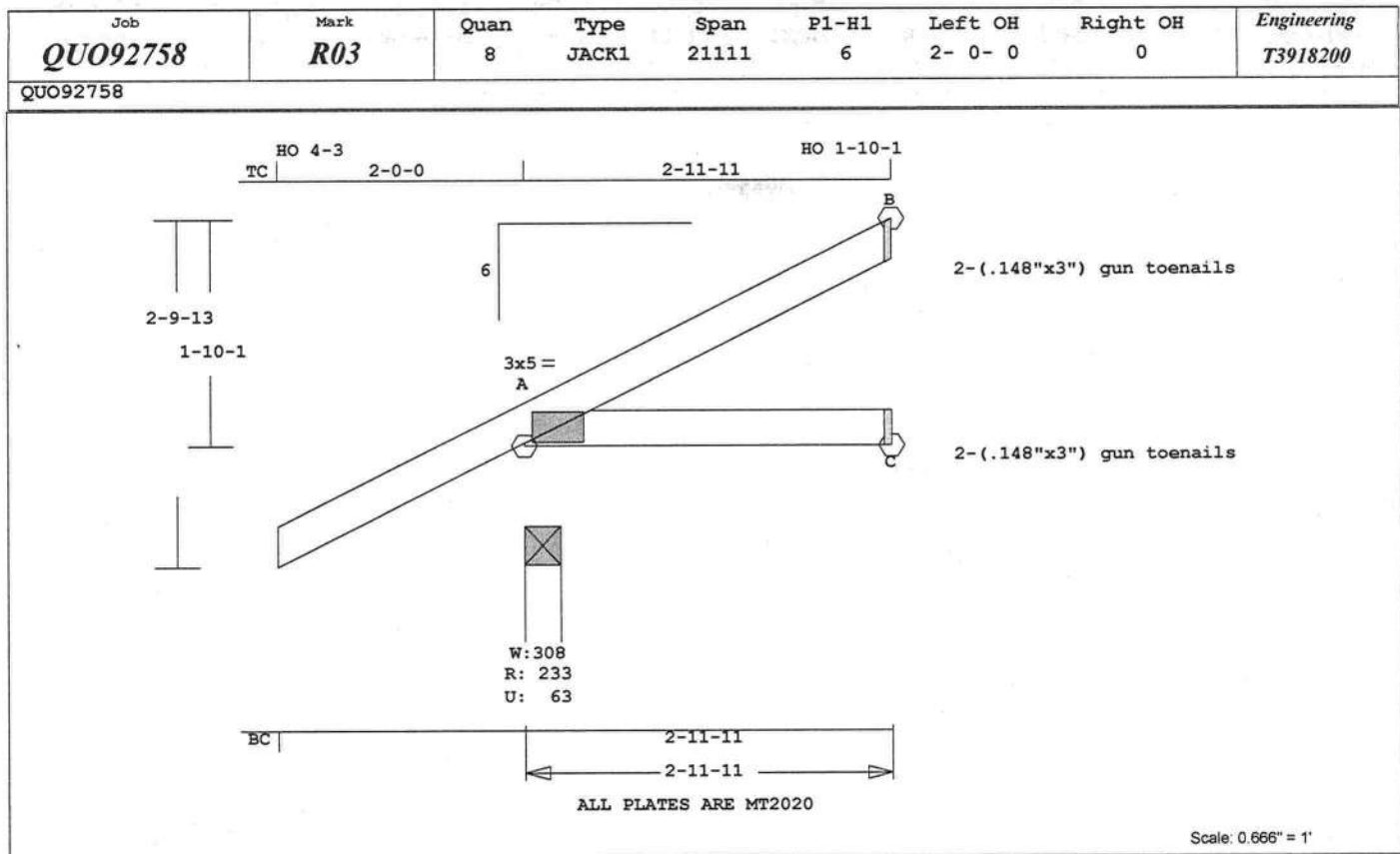
- 2.1 Directly or through its representatives, which may include the Contractor and/or Building Designer; (a) review and approve each Truss Design Drawing; (b) review and approve the Truss Placement Plan; (c) resolve and approve all design issues arising out of the preparation of each Truss Design Drawing and Truss Placement Plan; and (d) coordinate the return of each approved Truss Design Drawing and Truss Placement Plan to the Truss Manufacturer prior to truss manufacturing.

3.0 BUILDING DESIGNER RESPONSIBILITIES

- 3.1 Design a structure suitable to ensure that the intended function of each Truss is not affected by adverse influences including, but not limited to, moisture, temperature, corrosive chemicals and gases;
- 3.2 Prepare the Construction Design Documents, showing all trussed areas, which must provide as a minimum the following:
 - 3.2.1 All truss orientations and locations;
 - 3.2.2 Information to fully determine all truss profiles;
 - 3.2.3 Adequate support of the Truss and all truss bearing conditions;
 - 3.2.4 Permanent bracing design for the structure including the Trusses, except as provided in 3.4 and 6.2.12.
 - 3.2.5 The location, direction and magnitude of all dead and live loads applicable to each Truss including, but not limited to, loads attributable to: roof, floor, partition, mechanical, fire sprinkler, attic, storage, wind, snow drift and seismic;
 - 3.2.6 All Truss anchorage designs required to resist uplift, gravity, and lateral loads;
 - 3.2.7 Allowable vertical and horizontal deflection criteria;
- 3.3 Review and approve the Truss Placement Plan and each Truss Design Drawing for conformance with the requirements and intent of the Construction Design Documents, the effect of each Truss Design Drawing and Truss Placement Plan on other parts of the structure, and the effect of the structure on each Truss.
- 3.4 Specify permanent lateral bracing where indicated by the Truss Designer on the Truss Design Drawings, to prevent buckling of the individual truss members due to design loads. The Building Designer shall specify how the permanent lateral bracing is to be anchored or restrained to prevent lateral movement if all truss members, so braced, buckle together. This shall be accomplished by: (a) anchorage to solid end walls; (b) permanent diagonal bracing in the plane of the web members; or (c) other means when demonstrated by the Building Designer to provide equivalent bracing.
- 3.2.8 Proper transfer of design loads affecting the Truss; and
- 3.2.9 Adequate connections between Truss and non-Truss components, except as noted in Section 6.2.9.

4.0 CONTRACTOR RESPONSIBILITIES

- 4.1 Provide to the Truss Manufacturer the Construction Design Documents and all revisions and supplements thereto.
- 4.2 Review and approve the Truss Placement Plan and each Truss Design Drawing for conformance with the requirements and intent of the Construction Design Documents, and the effect of the Truss Placement Plan and each Truss Design Drawing on other trades involved in the construction of the structure and the effect of the other trades on the Trusses.
- 4.3 Coordinate the review, approval and return of each Truss Design Drawing and the Truss Placement Plan by the Owner and Building Designer.
- 4.4 Provide the approved Truss Design Drawings, approved Truss Placement Plans, and any supplemental information provided by the Truss Manufacturer to the individual or organization responsible for the installation of the Trusses.
- 4.5 Comply with the field storage, handling, installation, permanent bracing, anchorage, connections and field assembly requirements of the Construction Design Documents.
- 4.6 Determine and install the temporary bracing for the structure, including the Trusses.



Online Plus -- Version 27.5.019
RUN DATE: 05-NOV-10

CSI -Size- ----Lumber-----
TC 0.11 2x 4 SP-#2
BC 0.08 2x 4 SP-#2

Brace truss as follows:
O.C. From To
TC Cont. 0- 0- 0 2-11-11
BC Cont. 0- 0- 0 2-11-11

psf-Ld Dead Live
TC 7.0 20.0
BC 10.0 0.0
TC+BC 17.0 20.0
Total 37.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)
Jt Down Uplift Horiz-
A 234 63 U 43 R
C 52
B 70 35 U 31 R

Jt Brg Size Required
A 3.5" 1.5"
C 1.5" 1.5"
B 1.5" 1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Ax1-CSI-Bnd
-----Top Chords-----
A -B 0.11 78 C 0.00 0.11
-----Bottom Chords-----
A -C 0.08 0 T 0.00 0.08

TL Defl 0.00" in A -C L/999
LL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.15

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 16.4 LBS

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 3.0x 5.0 Ctr Ctr 0.47

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

For proper installation of
toe-nails, refer to the 2005
National Design Specification
(NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
RIDGWAY ROOF TRUSS

Analysis Conforms To:
FBC2007
TPI 2002

OH Loading
Soffit psf 2.0

This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide

will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-05
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 17-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 4.0 psf

BC Dead Load: 6.0 psf
Max comp. force 78 Lbs
Max tens. force 21 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

November 5, 2010

OUO92758



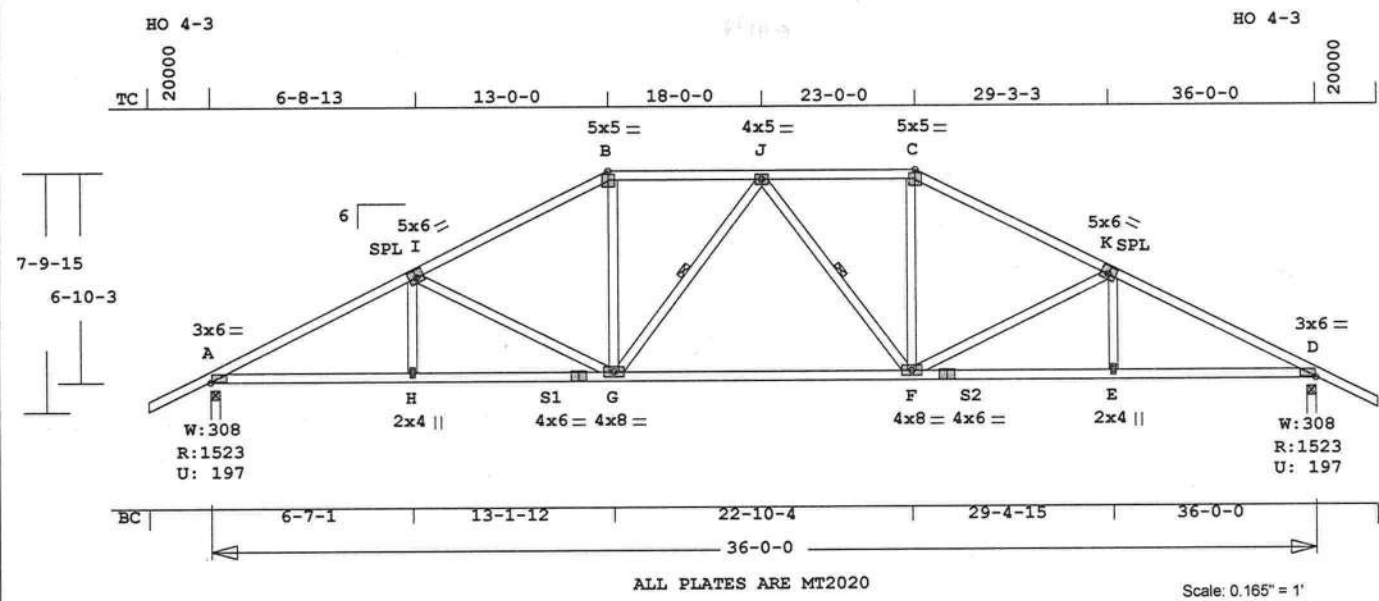
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QUO92758



Job	Mark	Quan	Type	Span	Pl-H1	Left OH	Right OH	Engineering
QUO92758	R09	2	SHPS	360000	6	2- 0- 0	2- 0- 0	T3918206

QUO92758



Online Plus -- Version 27.5.019
RUN DATE: 05-NOV-10

CSI -Size- ---Lumber---
TC 0.50 2x 4 SP-#2
BC 0.86 2x 4 SP-#2
WB 0.44 2x 4 SP-#3

Brace truss as follows:

O.C. From To
TC Cont. 0- 0- 0 36- 0- 0
BC Cont. 0- 0- 0 36- 0- 0

One Continuous Lateral Brace

G -J J -F
Attach CLB with (2)-10d nails
at each web.

psf-Ld Dead Live
TC 7.0 20.0
BC 10.0 0.0
TC+BC 17.0 20.0
Total 37.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt Down Uplift Horiz-
A 1524 198 U 139 R
D 1524 198 U 139 R

Jt Brg Size Required
A 3.5" 1.8"
D 3.5" 1.8"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 BC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Axl-CSI-Bnd

---Top Chords---
A -I 0.50 2549 C 0.15 0.35
I -B 0.47 2085 C 0.12 0.35
B -J 0.26 1862 C 0.12 0.14
J -C 0.26 1862 C 0.12 0.14
C -K 0.47 2085 C 0.12 0.35
K -D 0.50 2549 C 0.15 0.35

---Bottom Chords---
A -H 0.50 2282 T 0.38 0.12
H -S1 0.63 2282 T 0.38 0.25
S1-G 0.86 2282 T 0.38 0.48
G -F 0.85 1966 T 0.33 0.52

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 242.2 LBS

F -S2 0.86 2282 T 0.38 0.48
S2-E 0.63 2282 T 0.38 0.25
E -D 0.50 2282 T 0.38 0.12

---Webs---
H -I 0.06 224 T
I -G 0.44 471 C
G -B 0.20 632 T
B -J 0.05 174 C
J -F 0.05 174 C
F -C 0.20 632 T
C -K 0.44 471 C
K -E 0.06 224 T

TL Defl -0.52" in G -F L/813
LL Defl -0.21" in G -F L/999
Shear // Grain in A -I 0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 3.0x 6.0 Ctr Ctr 0.95
I MT20 5.0x 6.0-0.2 0.5 0.43
B MT20 5.0x 5.0 Ctr-0.2 0.51
J MT20 4.0x 5.0 Ctr Ctr 0.22
C MT20 5.0x 5.0 Ctr-0.2 0.51
K MT20 5.0x 6.0 0.2 0.5 0.43
D MT20 3.0x 6.0 Ctr Ctr 0.95
H MT20 2.0x 4.0 Ctr Ctr 0.34
S1 MT20 4.0x 6.0 Ctr 0.2 0.60
G MT20 4.0x 8.0 Ctr Ctr 0.25
F MT20 4.0x 8.0 Ctr Ctr 0.25
S2 MT20 4.0x 6.0 Ctr 0.2 0.60
E MT20 2.0x 4.0 Ctr Ctr 0.34

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
RIDGWAY ROOF TRUSS
Analysis Conforms To:
FBC2007
TPI 2002

OH Loading
Soffit psf 2.0
This truss has been designed
for 20.0 psf LL on the B.C.

in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 17-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 4.0 psf
BC Dead Load: 6.0 psf
Max comp. force 2549 Lbs
Max tens. force 2282 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

November 5, 2010

QUO92758



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ONLINE PLUS GENERAL NOTES & SYMBOLS

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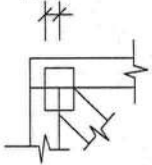
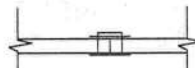


PLATE LOCATION

Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

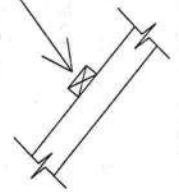
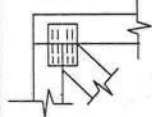


PLATE SIZE AND ORIENTATION

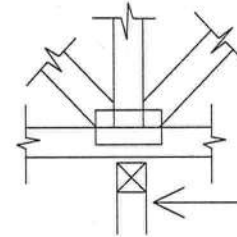
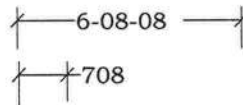
3x5 ||



The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6'-8.5" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).



W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before trusses are installed. If necessary, shim bearings to assure solid contact with truss.

Metal connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on Truss Design Drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with "National Design Specifications for Wood Construction" (AF & PA), "National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Mitek Industries Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to "Building Component Safety Information" (BCSI 1) as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records. When truss hangers are specified on the Truss Design Drawing, they must be installed per manufacturer's details and specifications.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS MANUFACTURER.



Mitek Industries, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Tel: 813-972-1135
Fax: 813-971-6117

BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES SPANS OVER 60' MAY REQUIRE COMPLEX PERMANENT BRACING. PLEASE ALWAYS CONSULT A PROFESSIONAL ENGINEER

GENERAL NOTES

Trusses are not marked in any way to identify the frequency or location of temporary lateral restraint and diagonal bracing. Follow the recommendations for handling, installing and temporary restraining and bracing of trusses. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses*** for more detailed information.

Truss Design Drawings may specify locations of permanent lateral restraint or reinforcement for individual truss members. Refer to the BCSI-B3 Summary Sheet - Permanent Restraint/Bracing of Chords & Web Members*** for more information. All other permanent bracing design is the responsibility of the Building Designer.

Warning! The consequences of improper handling, erecting, installing, restraining and bracing can result in a collapse of the structure, or worse, serious personal injury or death.

El resultado de un manejo, levantamiento, instalación, restricción y arrioste incorrecto puede ser la caída de la estructura o aún peor, heridos o muertos.

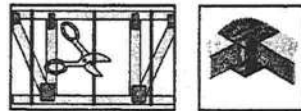
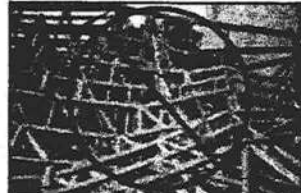
Warning! Banding and truss plates have sharp edges. Wear gloves when handling and safety glasses when cutting banding.

Empaques y placas de metal tienen bordes afilados. Lleve guantes y lentes protectores cuando corte los empaques.

NOTAS GENERALES

Los trusses no están marcados de ningún modo que identifique la frecuencia o localización de restricción lateral y arrioste diagonal temporal. Use las recomendaciones de manejo, instalación, restricción y arrioste temporal de los trusses. Vea el folleto BCSI Guía de Buena Práctica para el Manejo, Instalación, Restricción y Arrioste de los Trusses de Madera Conectados con Placas de Metal*** para información más detallada.

Los dibujos de diseño de los trusses pueden especificar las localizaciones de restricción lateral permanente o refuerzo en los miembros individuales del truss. Vea la hoja resumen BCSI-B3 - Restricción/Arrioste Permanente de Cuerdas y Miembros Secundarios*** para más información. El resto de los diseños de arriostres permanentes son la responsabilidad del Diseñador del Edificio.



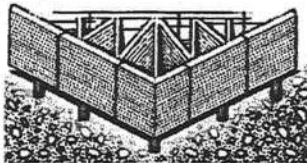
HANDLING — MANEJO

Warning! Avoid lateral bending. — Evite la flexión lateral.



Warning! The contractor is responsible for properly receiving, unloading and storing the trusses at the jobsite.

El contratista tiene la responsabilidad de recibir, descargar y almacenar adecuadamente los trusses en la obra.



Checkmark! If trusses are to be stored horizontally, place blocking of sufficient height beneath the stack of trusses at 8' to 10' on center.

For trusses stored for more than one week, cover bundles to prevent moisture gain but allow for ventilation.

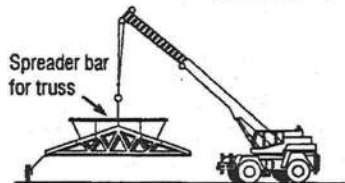
Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses*** for more detailed information pertaining to handling and jobsite storage of trusses.

Si los trusses estarán guardados horizontalmente, ponga bloqueando de altura suficiente detrás de la pila de los trusses a 8 hasta 10 pies en el centro.

Para trusses guardados por más de una semana, cubra los paquetes para prevenir aumento de humedad pero permita ventilación.

Vea el folleto BCSI Guía de Buena Práctica para el Manejo, Instalación, Restricción y Arrioste de los Trusses de Madera Conectados con Placas de Metal*** para información más detallada sobre el manejo y almacenamiento de los trusses en área de trabajo.

Warning! Use special care in windy weather or near power lines and airports. Utilice cuidado especial en días ventosos o cerca de cables eléctricos o de aeropuertos.



Checkmark! Use proper rigging and hoisting equipment. Use equipo apropiado para levantar e improvisar.



Warning! Do not store unbraced bundles upright. No almacene verticalmente los trusses sueltos.



Warning! Do not store on uneven ground. No almacene en tierra desigual.



HOISTING RECOMMENDATIONS FOR TRUSS BUNDLES RECOMENDACIONES PARA LEVANTAR PAQUETES DE TRUSSES.

Warning! Don't overload the crane. ¡Advertencia! No sobrecargue la grúa!
Warning! Never use banding alone to lift a bundle. Do not lift a group of individually banded bundles. Nunca use sólo los empaques para levantar un paquete. No levante un grupo de paquetes empaquetados individualmente.



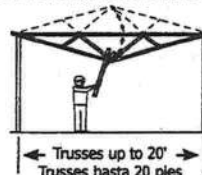
Checkmark! A single lift point may be used for bundles with trusses up to 45'. Two lift points may be used for bundles with trusses up to 60'. Use at least 3 lift points for bundles with trusses greater than 60'. Puede usar un solo lugar de levantar para paquetes de trusses hasta 45 pies. Puede usar dos puntos de levantar para paquetes hasta 60 pies. Use por lo menos tres puntos de levantar para paquetes más de 60 pies.

Warning! Do not over load supporting structure with truss bundle. ¡Advertencia! No sobrecargue la estructura apoyada con el paquete de trusses.

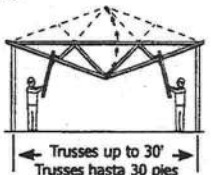
Checkmark! Place truss bundles in stable position. Puse paquetes de trusses en una posición estable.

INSTALLATION OF SINGLE TRUSSES BY HAND INSTALACIÓN DE TRUSSES INDIVIDUALES POR LA MANO

Checkmark! Trusses 20' or less, support at peak. Soporte del pico los trusses de 20 pies o menos.



Checkmark! Trusses 30' or less, support at quarter points. Soporte de los cuartos de tramo los trusses de 30 pies o menos.



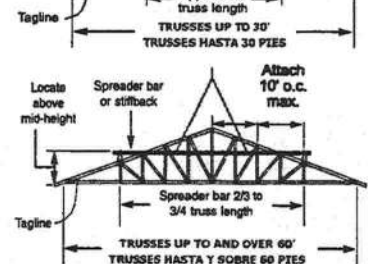
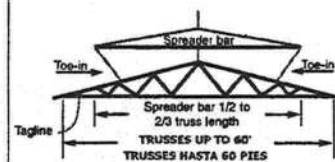
HOISTING OF SINGLE TRUSSES — LEVANTAMIENTO DE TRUSSES INDIVIDUALES

Checkmark! Hold each truss in position with the erection equipment until top chord temporary lateral restraint is installed and the truss is fastened to the bearing points. Sostenga cada truss en posición con equipo de grúa hasta que la restricción lateral temporal de la cuerda superior esté instalada y el truss está asegurado en los soportes.

Warning! Using a single pick-point at the peak can damage the truss. ¡Advertencia! El uso de un solo lugar en el pico para levantar puede hacer daño al truss.



HOISTING RECOMMENDATIONS FOR SINGLE TRUSSES RECOMENDACIONES PARA LEVANTAR TRUSSES INDIVIDUALES



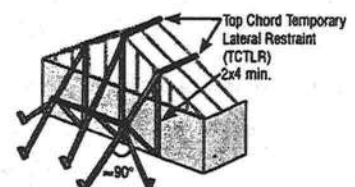
TEMPORARY RESTRAINT & BRACING RESTRICCIÓN Y ARRIOSTRE TEMPORAL

Warning! Refer to BCSI-B2 Summary Sheet - Truss Installation & Temporary Restraint/Bracing*** for more information.

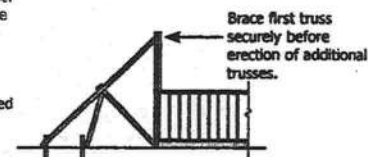
Vea el resumen BCSI-B2 - Instalación de Trusses y Restricción/Arrioste Temporal*** para más información.

Checkmark! Locate ground braces for first truss directly in line with all rows of top chord temporary lateral restraint (see table in the next column).

Coloque los arriostres de tierra para el primer truss directamente en línea con cada una de las filas de restricción lateral temporal de la cuerda superior (vea la tabla en la próxima columna).



Warning! Do not walk on unbraced trusses. No camine en trusses sueltos.



HOJA RESUMEN DE LA GUIA DE BUENA PRACTICA PARA EL MANEJO, INSTALACION, RESTRICCIÓN Y ARRIOSTRE DE LOS TRUSSES
VANOS MAS DE 60' PIES PUEDEN REQUERIR ARRIOSTRE PERMANENTE COMPLEJO. POR FAVOR, SIEMPRE CONSULTE A UN INGENIERO PROFESSIONAL

B2 Truss Installation & Temporary Restraint/Bracing Instalación de Trusses & Restricción/Arriostre Temporal

FOR TRUSSES UP TO 2'-0" ON-CENTER AND 80'-0" IN LENGTH

PARA TRUSSES HASTA 2 PIES EN CENTRO Y HASTA 80 PIES DE LONGITUD

WARNING! Spans over 60' require more complex temporary installation restraint/bracing. Consult a registered design professional.

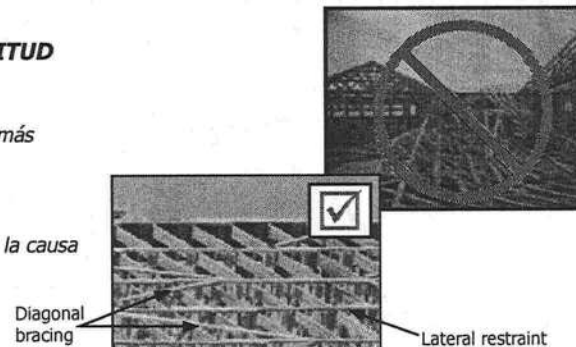
Los tramos más de 60 pies requieren restricción/arriostre de instalación temporal más complejo. Consulte a un profesional registrado de diseño.

DANGER! Disregarding handling, installing, restraining and bracing safety recommendations is the major cause of truss erection/installation accidents.

El no seguir las recomendaciones de manejo, instalación, restricción y arriostre es la causa principal de los accidentes durante la erección/instalación de trusses.

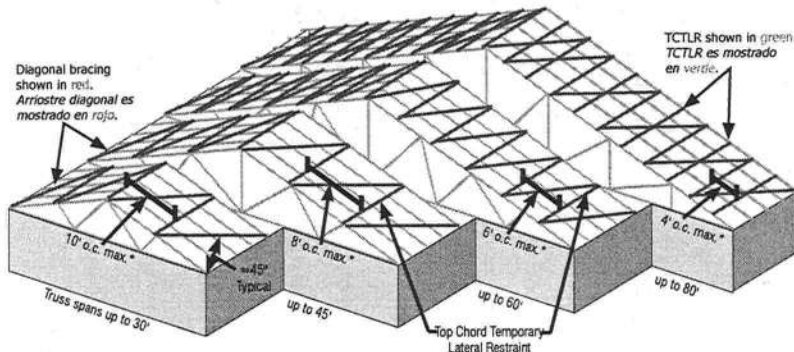
NOTICE Lateral restraint is NOT adequate without diagonal bracing.
La Restricción Lateral NO es adecuada sin el Arriostre Diagonal.

- ☒ Always diagonally brace for safety!
¡Siempre arriostre diagonalmente para seguridad!



MAXIMUM SPACING FOR TOP CHORD TEMPORARY LATERAL RESTRAINT (TCTLR)

EL ESPACIAMIENTO MÁXIMO PARA LA RESTRICCIÓN LATERAL TEMPORAL DE LA CUERDA SUPERIOR (TCTLR)



The graphic at left shows the maximum on-center spacing (see * at left) of TCTLR based on truss span from the table in Step 2 on page

- Ground bracing not shown for clarity.
- Apply diagonal bracing or structural sheathing immediately. For sp over 60' applying structural sheathing immediately is the preferred method.

El dibujo a la izquierda muestra el espaciamiento máximo en el centro (vea * a la izquierda) del TCTLR basado en los tramos de trusses de tabla en el Paso 2 en la página 2.

- No se muestra el arriostre de tierra para claridad.
- Aplique inmediatamente el Arriostre Diagonal o el Entablado Estructural (structural sheathing). Para tramos más de 60 pies el método preferido es entablarlos inmediatamente.

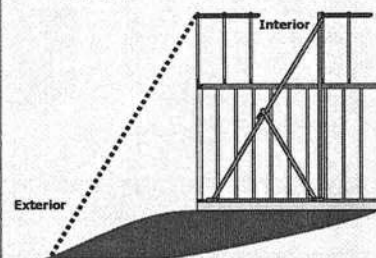
CHECK THESE ITEMS BEFORE STARTING ERECTION/INSTALLATION AND CORRECT AS NEEDED

REVISE ESTOS PUNTOS ANTES DE EMPEZAR LA ERECCIÓN/INSTALACIÓN Y CORRÍJALOS CUANDO ES NECESARIO

- ☒ Building dimensions match the construction documents.
Las dimensiones del edificio concuerdan con los documentos de construcción.
- ☒ Bearing supports (e.g., walls, columns, headers, beams, etc.) are accurately and securely installed, plumb and properly braced.
Los soportes que sostienen cargas (ej., paredes, columnas, vigas de cabecera, vigas, etcétera) son instalados seguramente y con precisión, y son nivelados y arriostrados apropiadamente.
- ☒ Hangers, tie-downs, restraint and bracing materials are on site and accessible.
Los colgadores (hangers), soportes de anclaje (tie-downs) y materiales de restricción y arriostre están accesibles en la obra.
- ☒ Erection/installation crew is aware of installation plan and lateral restraint/diagonal bracing requirements.
El personal de erección/instalación es consciente del plan de instalación y los requisitos de restricción/arriostre.
- ☒ Multi-ply trusses, including girders, are correctly fastened together prior to lifting into place.
Los trusses de varias capas, incluyendo travesaños, son fijados juntos correctamente antes de levantarlos en lugar.
- ☒ Any truss damage is reported to truss manufacturer. Refer to BCSI-B5.***
Do not install damaged trusses unless instructed to do so by the building designer, truss designer or truss manufacturer.
Algún daño a los trusses ha sido reportado al fabricante de trusses. Vea el resumen BCSI-B5.*** No instale trusses dañados a menos que se dijeren el diseñador del edificio, el diseñador del truss o el fabricante del truss.

- ☒ Trusses are the correct dimension.
Los trusses son la dimensión correcta.
- ☒ Tops of bearing supports are flat, level and at the correct elevation.
La parte superior de los soportes de cojinete son planas, niveladas y a la elevación correcta.
- ☒ Jobsite is clean and neat, and free of obstructions.
La obra está limpia, ordenada y sin obstrucciones.

- ☒ Ground bracing procedure for first truss is based on site and building configuration.
El procedimiento de Arriostre de Tierra para el primer truss es basado en el terreno y la configuración del edificio.

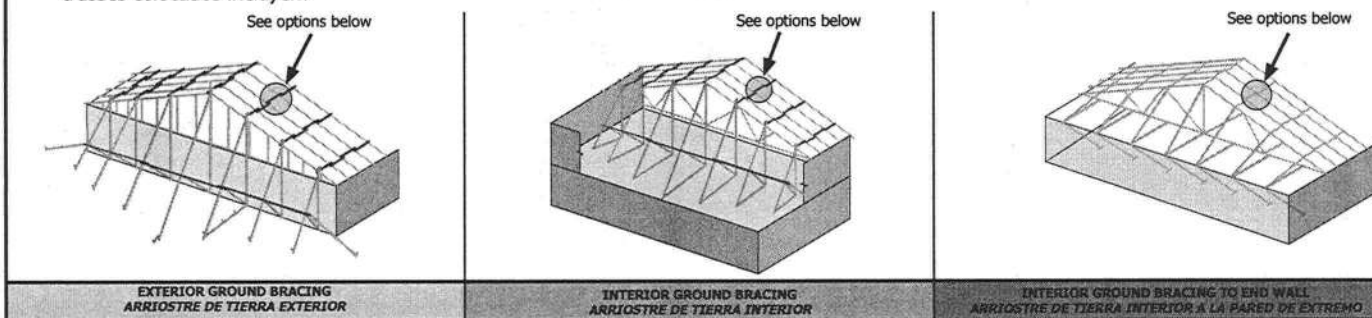


If ground level is too far from truss for exterior ground bracing, use interior ground bracing.

Si el nivel del terreno es demasiado lejos para usar Arriostre de Tierra exterior, use Arriostre de Tierra interior.

4. Set Trusses 2, 3, 4 & 5 with TCTLR in Line with Ground Bracing **Coloque los Trusses 2, 3, 4 y 5 con TCTLR en Línea con los Arriostres de Tierra**

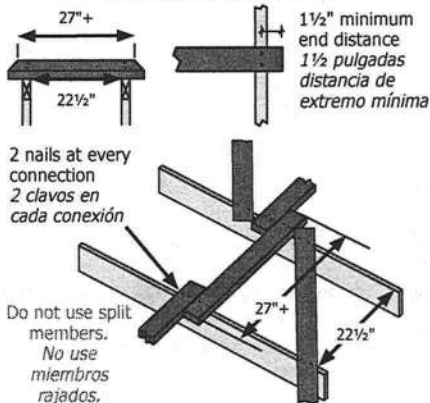
- ✓ Attach trusses securely at all bearings, shimming bearings as necessary. Examples of first five trusses set include:
Sujete seguramente los trusses a todos los soportes, rellenar sólidamente los soportes como sea necesario. Ejemplos de los primeros cinco trusses colocados incluyen:



NOTICE The following three (3) Short Member Temporary Lateral Restraint options **require that the diagonal bracing be installed continuously**
Las siguientes tres opciones para instalar la Restricción Lateral Temporal de los Miembros Cortos requieren que el arriostre diagonal esté instalado continuamente.

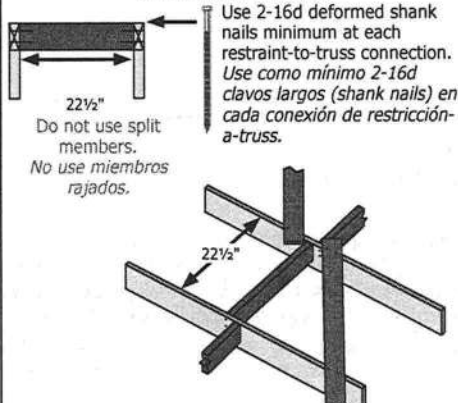
Option 1
 Short member temporary lateral restraint installed on top of trusses

Opción 1
Restricción lateral temporal de los miembros cortos instalados encima de trusses



Option 2
 Short member temporary lateral restraint installed between trusses

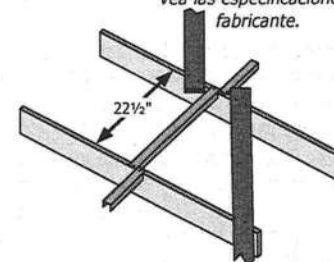
Opción 2
Restricción lateral temporal de los miembros cortos instalados entre trusses



Option 3
 Proprietary metal restraint products*

Opción 3
*Productos de metal para restricción patentados**

*These products are specifically designed to provide lateral restraint and are not just for spacing. See manufacturer's specifications.
 *Estos productos son diseñados específicamente para proveer restricción lateral y no son solamente para espaciamiento. Vea las especificaciones del fabricante.

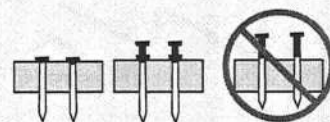


CAUTION! Each truss must be attached securely at each bearing and all TCTLR installed before removing the hoisting supports.
Cada truss tiene que ser sujetado seguramente en cada soporte y todas las TCTLR instaladas antes de quitar los soportes de levantar.

LATERAL RESTRAINT/BRACING MATERIAL AND CONNECTIONS **CONNEXIONES Y MATERIALES DE RESTRICCIÓN/ARRIOSTRE LATERAL**

- ✓ Minimum size of bracing and lateral restraint material is 2x4 stress-graded lumber or approved proprietary metal restraint/bracing, unless otherwise specified by the building designer.
El tamaño del material de restricción lateral y arriostre debe ser por lo menos 2x4 madera graduada por esfuerzo o restricción/arriostre de metal patentado aprobado, a menos que especifique el diseñador del edificio.
- ✓ All bracing and lateral restraint members must be connected to each truss with at least 2 nails (see minimum sizes shown below), except for the short member restraints shown in Step 4, Option 2 (see above), which require 2-16d deformed-shank (i.e., ring- or screw-shank) nails.
Todos los miembros de restricción lateral y arriostre tienen que ser conectados a cada truss con un mínimo de 2 clavos (ver los tamaños mínimos mostrados abajo) excepto para las restricciones de miembros cortos mostrados en el Paso 4, Opción 2 (vea arriba), cuales requieren 2-16d clavos con largos deformados (Ej. Largos de anillos o tornillos).
- ✓ Drive nails flush, or use double-headed nails for easiest removal.
Clave los clavos al raso, o use clavos de dos cabezas para quitarlos más fácilmente.

10d (0.128x3")
 12d (0.128x3.25")
 16d (0.131x3.5")



BCSI - B3 SUMMARY SHEET PERMANENT RESTRAINT/ BRACING OF CHORDS AND WEB MEMBERS

SPANS OVER 60' MAY REQUIRE COMPLEX PERMANENT BRACING. PLEASE ALWAYS CONSULT A PROFESSIONAL ENGINEER

- WARNING!** Disregarding Permanent Restraint/Bracing is a major cause of truss field performance problems and has been known to lead to roof or floor systems collapse.
¡ADVERTENCIA! Descuidar el Arriostre/Restricción Permanente es una causa principal de problemas de rendimiento del truss en campo y ha sido conocido a llevar al derrumbamiento del sistema del techo o piso.
- CAUTION!** Spans over 60' may require complex permanent bracing. Please always consult a Registered Design Professional.
¡CUIDADO! Tramos sobre 60 pies pueden requerir arriostre permanente complejo. Por favor, siempre consulte a un Profesional Registrado de Diseño.

RESTRAINT/BRACING MATERIALS & FASTENERS MATERIALES Y CIERRES DE RESTRICCIÓN/ARRIOSTRE

- Common restraint/bracing materials include wood structural panels, gypsum board sheathing, stress-graded lumber, proprietary metal products, and metal purlins and straps.
Materiales comunes de arriostre/restringir incluyen paneles estructurales de madera, entablado de yeso, madera graduada por esfuerzo, productos de metal patentados, y vigas de soporte y tiras de metal.

Lumber Size	Minimum Nail Size	Minimum Number of Nails per Connection
2x4 stress-graded	10d (0.128x3") 12d (0.128x3.25") 16d (0.131x5")	2
2x6 stress-graded	10d (0.128x3") 12d (0.128x3.25") 16d (0.131x5")	3

Other attachment requirements may be specified by the Truss Designer or Building Designer.
The size and attachment for bracing materials such as wood structural panels, gypsum board sheathing, proprietary metal restraint/bracing products, and metal purlins and straps are provided by the Building Designer.

PERMANENT BRACING FOR THE VARIOUS PLANES OF A TRUSS ARRIOSTRE PERMANENTE PARA VARIOS PLANOS DE UN TRUSS

- Permanent Bracing is important because it,
a) prevents out-of-plane buckling of truss members,
b) helps maintain proper truss spacing, and
c) resists and transfers lateral loads from wind and seismic forces.
El arriostre permanente es importante porque,
a) impide el torcer fuera-de-plano de los miembros del truss,
b) ayuda en mantener espaciamento apropiado de los trusses, y
c) resiste y pasa las cargas laterales de viento y fuerzas sísmicas aplicadas al sistema del truss.

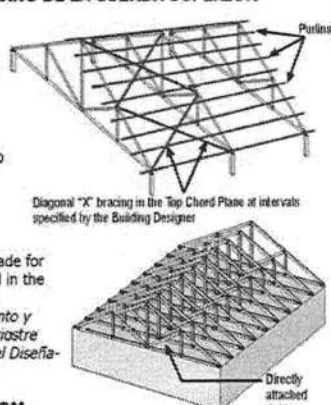
- Trusses require Permanent Bracing within ALL of the following planes:
1. Top Chord Plane
2. Bottom Chord Plane
3. Web Member Plane

Trusses requieren Arriostre Permanente dentro de TODOS los siguientes planos:
1. Plano de la Cuerda Superior
2. Plano de la Cuerda Inferior
3. Plano del Miembro Secundario

- CAUTION!** Without Permanent Bracing the truss, or a portion of its members, will buckle (i.e., fail) at loads far less than design.
¡CUIDADO! Sin el Arriostre Permanente, del truss, o un parte de los miembros, torcerán (ej. fallarán) de cargas muchas menos que las cargas que el truss es diseñado a llevar.

1. PERMANENT BRACING FOR THE TOP CHORD PLANE 1. ARRIOSTRE PERMANENTE PARA EL PLANO DE LA CUERDA SUPERIOR

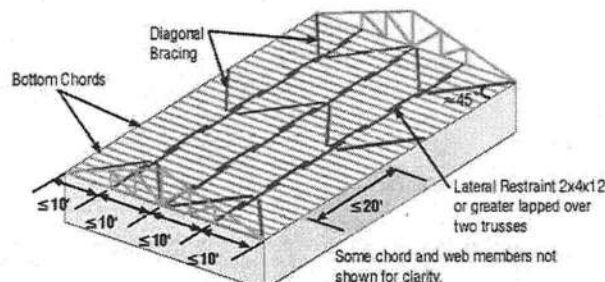
- Use plywood, oriented strand board (OSB), or wood or metal structural purlins that are properly braced.
Use contrachapado, panel de fibras orientadas (OSB), o vigas de soporte de madera o metal que son arriostrados apropiadamente.
- The Truss Design Drawing (TDD) provides information on the assumed support for the top chord.
El Dibujo del Diseño de Truss (TDD) provee información sobre el soporte supuesto para la cuerda superior.
- Fastener size and spacing requirements and grade for the sheathing, purlins and bracing are provided in the building code and/or by the Building Designer.
El tamaño de cierre y requisitos de espaciamento y grado para el entablado, vigas de soporte y arriostre son provistos en el código del edificio y/o por el Diseñador del Edificio.



2. PERMANENT BRACING FOR THE BOTTOM CHORD PLANE 2. ARRIOSTRE PERMANENTE PARA EL PLANO DE LA CUERDA INFERIOR

- Use rows of continuous Lateral Restraint with Diagonal Bracing, gypsum board sheathing or rigid ceiling.
Use filas de Restricción Lateral Continua con Arriostre Diagonal, entablado de yeso o techo rígido.

- The TDD provides information on the assumed support for the bottom chord.
El TDD provee información sobre el soporte supuesto para la cuerda inferior.
- Install bottom chord permanent Lateral Restraint at the spacing indicated on the TDD and/or by the Building Designer with a maximum of 10' on center.
Instale Restricción Lateral permanente de la cuerda inferior al espaciamento indicado en el TDD y/o por el Diseñador del Edificio con un máximo de 10 pies en el centro.



Lateral Restraint and Diagonal Bracing used to brace the Bottom Chord Plane.

- 3. PERMANENT BRACING FOR THE WEB MEMBER PLANE
3. ARRIOSTRE PERMANENTE PARA EL PLANO DEL MIEMBRO SECUNDARIO**
Web Member Permanent Bracing collects and transfers buckling restraint forces and/or lateral loads from wind and seismic forces. The same bracing can often be used for both functions.
Arriostre Permanente de los Miembros Secundarios recogen y pasan fuerzas de restricción de torcer y/o cargas laterales de viento y fuerzas sísmicas. A menudo el mismo arriostre puede ser usado para ambos funciones.

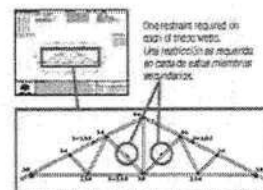
Individual Web Member Permanent Restraint & Bracing Restricción y Arriostre Permanente de Miembros Secundarios Individuales

- Check the TDD to determine which web members (if any) require restraint to resist buckling.
Revisa el TDD para determinar cuales miembros secundarios (si algunos) requieren restricción para resistir el torcer.

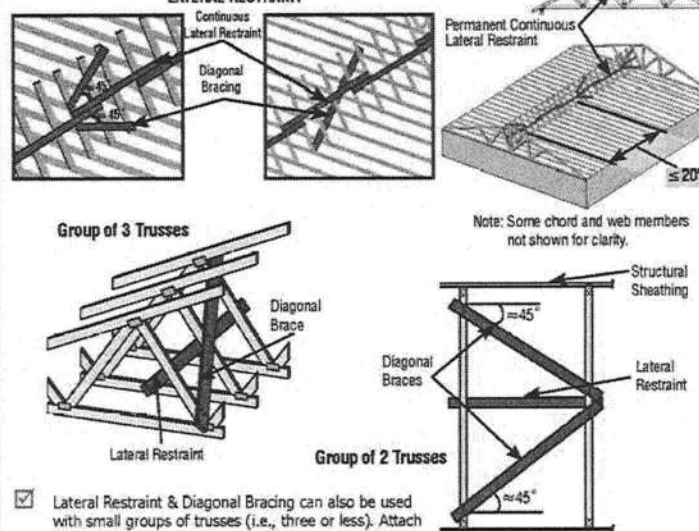
- Restrain and brace with,
A. Continuous Lateral Restraint & Diagonal Bracing, or
B. Individual Member Web Reinforcement.
Restrinja y arriostre con,
A. Restricción Lateral Continua y Arriostre Diagonal, o
B. Refuerzo de Miembros Secundarios Individuales.

A. Continuous Lateral Restraint (CLR) & Diagonal Bracing A. Restricción Lateral Continua (CLR) y Arriostre Diagonal

- Attach the CLR at the locations shown on the TDD.
Sujete el CLR en las ubicaciones mostrados en el TDD.
- Install the Diagonal Bracing at approximately 45° to the CLR and position so that it crosses the web in close proximity to the CLR. Attach the Diagonal Brace as close to the Top and Bottom Chords as possible and to each web it crosses. Repeat every 20' or less.
Instale el Arriostre Diagonal a aproximadamente 45 grados al CLR y lo coloque para que cruce la cuerda muy cerca del CLR. Sujete el Arriostre Diagonal como cercano a las cuerdas inferior y superior como sea posible y a cada cuerda que lo cruza. Repita cada 20 pies o menos.



EXAMPLES OF DIAGONAL BRACING WITH CONTINUOUS LATERAL RESTRAINT



Note: Some chord and web members not shown for clarity.

- Lateral Restraint & Diagonal Bracing can also be used with small groups of trusses (i.e., three or less). Attach the Lateral Restraint & Diagonal Brace to each web member that they cross.
Restricción Lateral y Arriostre Diagonal también puede ser usado con grupos pequeños de trusses (ej. tres o menos). Sujete la Restricción Lateral y el Arriostre Diagonal a cada miembro secundario que los cruzan.

RESTRICCIÓN / ARRIOSTRE PERMANENTE DE LAS CUERDAS Y LOS MIEMBROS SECUNDARIOS

TRAMOS DE 60' PIES PUEDEN REQUERIR ARRIOSTRE PERMANENTE COMPLEJO. POR FAVOR, SIEMPRE CONSULTE A UN PROFESIONAL DE DISEÑO REGISTRADO.

B4 Construction Loading Cargas de Construcción



Construction loads are those loads imposed on the unfinished building as a result of the construction process. Typical construction loads include the weight of the workers, equipment, and building materials, to name a few. For example, a bundle of plywood sheathing or gypsum board stacked on trusses temporarily creates construction loads.

Cargas de construcción son las cargas que están impuestas a los edificios incompletos como resultado del proceso de construcción. Cargas de construcción típicas incluyen el peso de los trabajadores, el equipo y los materiales de construcción, etcétera. Por ejemplo, un paquete de entablado contrachapado o tabla de yeso apilados temporalmente sobre los trusses crean cargas de construcción.

- ✓ Make sure that the truss assembly is properly restrained and braced according to the guidelines in **BCSI-B1** and **BCSI-B2** before placing any construction loads on them. Construction loads shall only be placed on fully restrained and braced structures.

Asegúrese que el montaje del truss está adecuadamente restringido y arriostrado según las pautas en BCSI-B1 y BCSI-B2 antes de colocar alguna carga de construcción en la estructura. Solamente coloquen cargas de construcción arriba de estructuras cuales son restringidos y arriostrados completamente.

- ⚠ **WARNING!** Stacking excessive amounts of construction materials on floor or roof trusses is an unsafe practice. Property damage, personal injury and/or death are possible if this warning is not heeded.

¡ADVERTENCIA! Apilando cantidades excesivas de cargas de construcción sobre trusses de piso u techo es una práctica peligrosa. Daño a la propiedad, herida personal y/o muerte son posibles si no sigue esta advertencia.

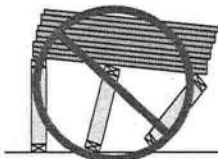
- NOTICE** Trusses that have been over-stressed due to excessive construction loading will usually show excessive sagging (deflection) and at least a portion of this deflection will remain even after the load has been removed. In more severe cases, broken truss members and/or failed truss joints may result.

Los trusses que han sido demasiado estresados debido a cargas de construcción excesivas usualmente demuestran una desviación excesiva, y por lo menos una parte de este desviación se quedarán aún después de que la carga se haya quitada. En casos más severos, miembros quebrados del truss y/o juntas falladas pueden resultar.

CONSTRUCTION LOADING DO'S AND DON'TS QUE HACER Y NO HACER CON LAS CARGAS DE CONSTRUCCIÓN

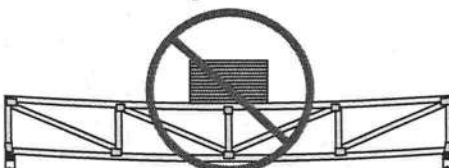
- ⊘ **DON'T** stack materials on unbraced trusses.

NO amontone materiales sobre trusses que no estén arriostrados.



- ⊘ **DON'T** overload the trusses.

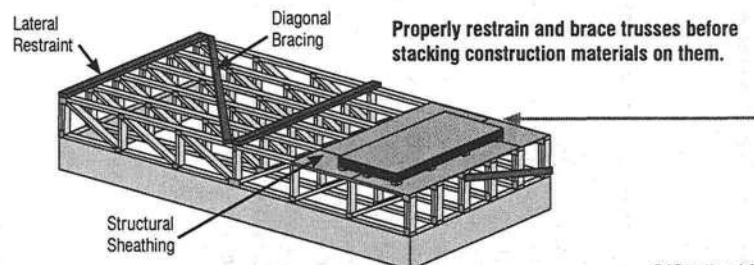
NO sobrecargue los trusses.



- ⊘ **DON'T** exceed stack heights listed in the table.
NO exceda la altura de montón indicada en la tabla que sigue.

Maximum Stack Height for Material on Trusses Maximua Altura de Montón para Material encima de los Trusses	
Material – Material	Height – Altura
Gypsum Board – Tabla de Yeso	12" – 12 pulgadas
Plywood or OSB – Madera Contrachapada u OSB	16" – 16 pulgadas
Asphalt Shingles – Teja de Asfalto	2 bundles – 2 paquetes
Concrete Block – Bloque de Hormigón	8" – 8 pulgadas
Clay Tile – Teja de Arcilla	3-4 tiles – 3-4 azulejos

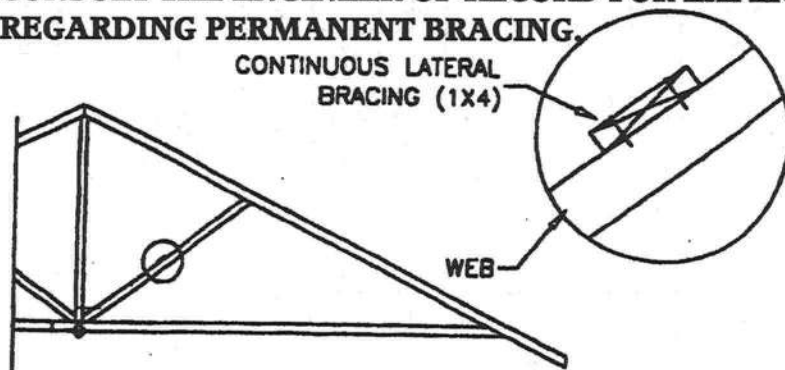
Note: Limit stacking periods to approximately one week, unless alternative information is provided by the Building Designer, Truss Designer or Truss Manufacturer.



B4ConstLoad 0905

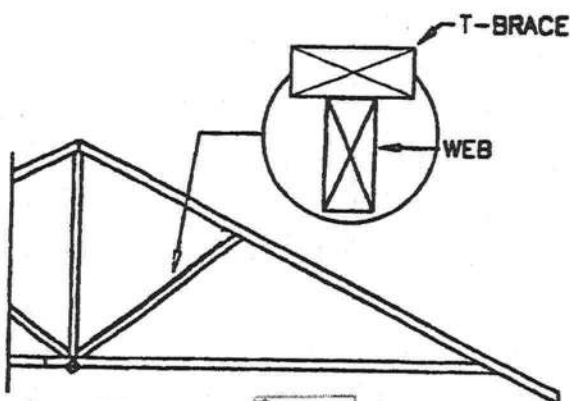
PERMANENT WEB BRACING

SEE INSIDE DESIGN MANUAL FOR BCSI PERMANENT BRACING
INSTALLATION INSTRUCTIONS AND FOR FURTHER INFORMATION.
CONSULT THE ENGINEER OF RECORD FOR EXPLICIT INSTRUCTION
REGARDING PERMANENT BRACING.



CONTINUOUS LATERAL BRACING

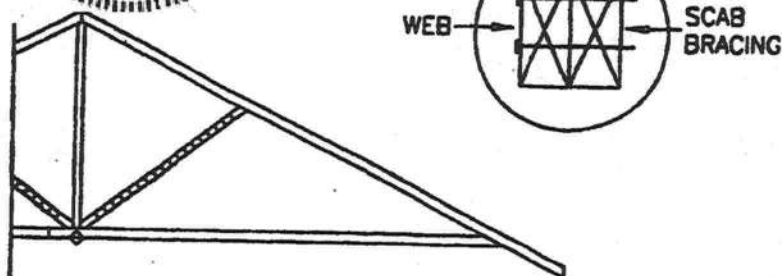
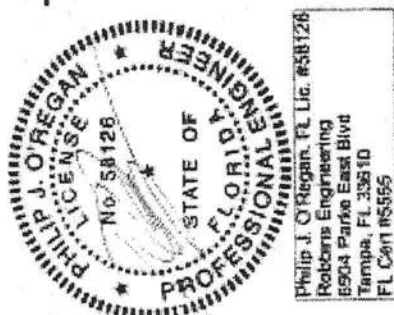
1x4 #3 HEM-FIR OR
BETTER CONTINUOUS LATERAL
BRACING TO BE EQUALLY SPACED.
ATTACH WITH (2) 8d NAILS.
BRACING MATERIAL TO BE SUPPLIED
AND ATTACHED AT BOTH ENDS
TO A SUITABLE SUPPORT BY
ERECTION CONTRACTOR.



T-BRACE

THESE DETAILS APPLY TO 1.5" WIDE WOOD
TRUSSES.

- USE A 2x4 T-BRACE IF THE TRUSS DESIGN SPECIFIES ONE LATERAL BRACE (MID POINT OF WEB).
- USE A 2x6 T-BRACE IF THE TRUSS DESIGN SPECIFIES TWO LATERAL BRACES (AT THE THIRD POINTS OF THE WEB).
- USE A CONTINUOUS PIECE FOR THE T-BRACE, OF THE SAME GRADE AS THE WEB AND COVERING AT LEAST 90% OF THE WEB LENGTH.
- CENTER THE T-BRACE ON THE WEB AND FASTEN WITH 10d COMMON NAILS SPACED 4" ON CENTER.



SCAB BRACE

SCAB BRACE SAME SIZE, GRADE,
AND LENGTH AS WEB MEMBER.
ATTACH WITH 10d NAILS @ 4" O.C.
BRACING MATERIAL TO BE SUPPLIED
BY ERECTION CONTRACTOR.

General detail for repair of broken webs, chords, and damaged or missing chord splices that meet the following conditions:

- * Webs must be SPF or better and 2x6 or smaller.
- * Chords must be SPF or better and 2x6 or smaller.
- * Scab must be the same size as the broken member.
- * Scab must be same grade or better as the broken member.
- * No more than two broken or cracked members per truss.
- * Truss must be single ply.
- * Perimeter of chord break area must be a minimum distance X from any heel or peak, and minimum of 6" away from any interior joint locations.
- * Perimeter of web break area must be a minimum distance X from web joint.

C = Maximum length of damaged area (not to exceed 12"). S = Overall length of scab (shaded). Must be equal or greater than 2(X)+C.

X = Minimum length of scab at each end of break area.

Refer to following table for minimum length of scab, and minimum number of nails at each end of break area and maximum axial force of broken member.

For all lumber, plates, web bracing, etc., refer to original drawing sealed by Robbins Engineering, Inc.

* Apply all nails so as to avoid damaging of lumber and loosening of plates at joints. Minimum end distance of 2" must be provided for all nails.

* Use 1 row of 10d common nails spaced 3" on center in each row and staggered into 2x4 and 2x5 scabs.

* Use 2 rows of 10d common nails spaced 3" on center in each row and staggered into 2x4 and 2x5 scabs.

* Use 3 rows of 10d common nails spaced 3" on center in each row and staggered into 2x6 scabs.

NOTE: Apply scab to one face of truss using nailing as specified above.

If desired, two scabs may be applied, one to each face of truss; use 6" nail spacing if scabs are applied to each face.

6" Minimum

C = 12" maximum

X

X

X

X

X

X

X

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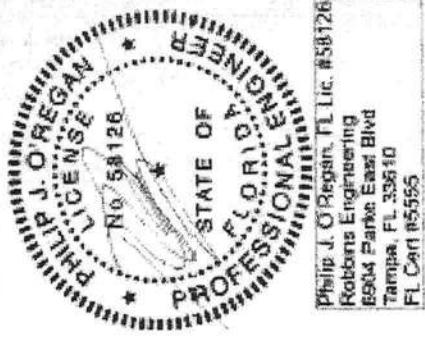
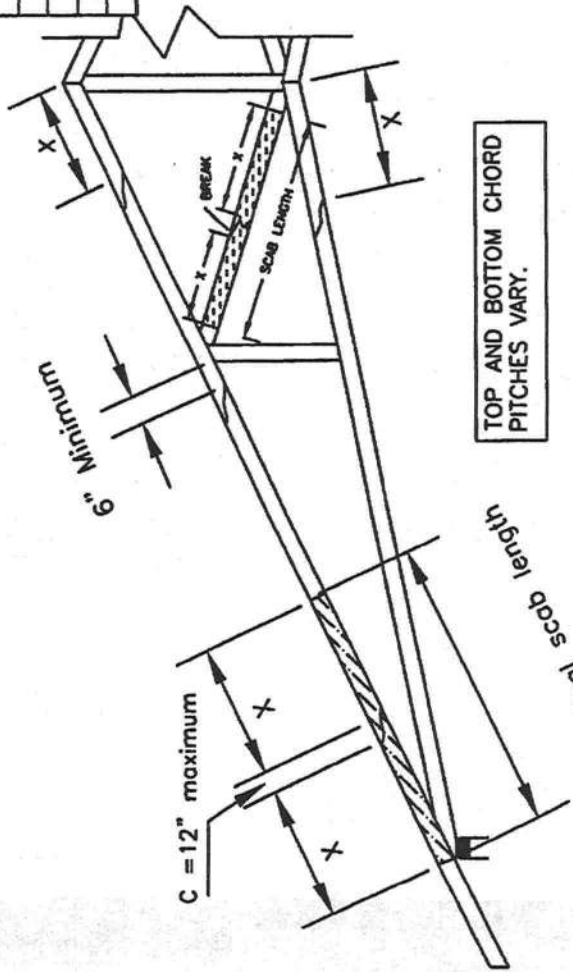
X

X

X

2x3 SCABS			2x4 or 2x5 SCABS		
MINIMUM X DISTANCE (in.)	MIN. NUMBER OF NAILS AT EACH END OF	MAX. FORCE (lbs) AT 1.15 LOAD DURATION	MINIMUM X DISTANCE (in.)	MIN. NUMBER OF NAILS AT EACH END OF BREAK	MAX. FORCE (lbs) AT 1.15 LOAD DURATION
14	4	460	10	4	460
20	6	690	16	8	920
26	8	920	22	12	1380
32	10	1150	28	16	1840
38	12	1380	34	20	2300
44	14	1610	40	24	2760
50	16	1840	46	28	3220
56	18	2070	52	32	3680
62	20	2300	58	36	4140
68	22	2530	64	40	4600

2x6 SCABS			MAX. FORCE (lbs) AT 1.15 LOAD DURATION		
MINIMUM X DISTANCE (in.)	MIN. NUMBER OF NAILS AT EACH END OF	MAX. FORCE (lbs) AT 1.15 LOAD DURATION	MINIMUM X DISTANCE (in.)	MIN. NUMBER OF NAILS AT EACH END OF	MAX. FORCE (lbs) AT 1.15 LOAD DURATION
10	6	690	10	6	690
16	12	1380	16	12	1380
22	18	2070	22	18	2070
28	24	2760	28	24	2760
32	28	3220	32	28	3220
36	32	3680	36	32	3680
40	36	4140	40	36	4140
44	40	4600	44	40	4600
48	44	5060	48	44	5060
52	48	5520	52	48	5520



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Robbins Engineering
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Tampa, FL 33610
FL Cert #5555

Truss manufacturer must be notified if field conditions do not match this general detail.

ROBBINS LOCK connector plates (20 sq. ft., steel-ASTM A36 SS Grade 40) should be applied on both faces of truss at each joint. Center the plates, unless shown otherwise by circles (e) or dimensions. Unless otherwise indicated by a "x", all slots in plates run parallel with the chords or horizontally at the peak and / or heel. No loose knots or wane in plate contact area. Splice only where shown. Overall splices assume 4" bearings at each end, unless indicated otherwise. Cutting and fabrications shall be performed on equipment which produces snug-fitting joints and plates. This design was prepared in accordance with "National Design Specifications for Stress-Grade Lumber and its Fastenings" (NDS), "Design Specifications for Light Metal Plate Connected Wood Trusses" (TP1), and HUD Design Criteria for Trussed Rafter.

Robbins Eng., Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to MB-91 as published by the Truss Plate Institute, 353 D'Oroville Drive, Suite 200, Madison, Wisconsin 53718. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent topping and "sagging". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that the design loads utilized on the drawing meet or exceed the actual dead loads imposed by the structure and the area loads imposed by the local building code or historical climatic records.

ROBBINS
Engineering Inc.
P.O. Box 280055, Tampa, FL 33682

FURNISH A COPY OF THIS DESIGN TO ERECTION CONTRACTOR
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FAB. TO REVIEW THIS DRAWG. &

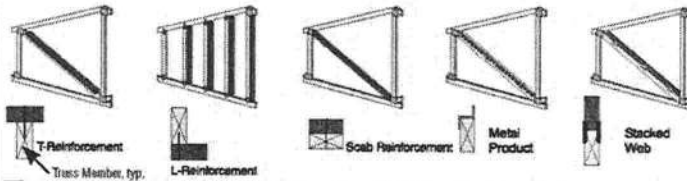
Designed By: MG
Checked By: PO
Rev. Date: 12/02/05
Dwg. No: GD-69

BCSI-B3 SUMMARY SHEET PERMANENT RESTRAINT / BRACING OF CHORDS AND WEB SPANS OVER 60' MAY REQUIRE COMPLEX PERMANENT BRACING. PLEASE ALWAYS CONSULT A PROFESSIONAL ENGINEER

ALWAYS DIAGONALLY BRACE THE CONTINUOUS LATERAL RESTRAINT!
 SIEMPRE ARRIOSTRE LA RESTRICCIÓN LATERAL CONTINUA DIAGONALMENTE!

B. Individual Web Member Reinforcement B. Refuerzo de Miembros Secundarios Individuales

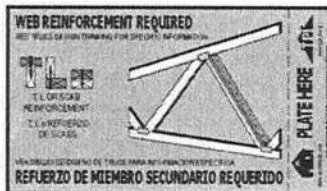
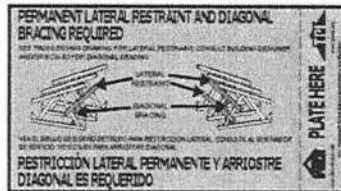
T, L, Scab, I, U-Reinforcement, proprietary metal reinforcement and stacked web products provide an alternative for resisting web buckling.
 T, L, costra, I, U-Refuerzo, refuerzo de metal patentando y productos de miembros secundarios amontonados proveen una alternativa para resistir el torcer de los miembros secundarios.



The following table may be used unless more specific information is provided.
 La siguiente tabla puede ser usada a menos que información más específica está provista.

WEB REINFORCEMENT FOR SINGLE PLY TRUSSES ¹									
Specified CLR	Size of Truss Web	Type & Size of Web Reinforcement				Grade of Web Reinforcement	Minimum Length of Web Reinforcement	Minimum Connection of Web Reinforcement to Web	
1 Row	2x4	2x4	2x4	2x4	2x4	Same species and grade or better than web member	90% of web or extend to within 6" (150 mm) of end of web member, whichever is greater	16d Gun nails (0.131x3.5") @ 6" (150 mm) on-center ²	
	2x6	2x6	2x6	2x6	2x6				
2 Rows	2x4	---	---	---	2-2x4				
	2x6	---	---	---	2-2x6				

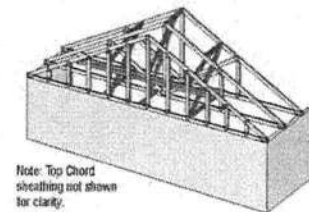
¹Maximum allowable web length is 14' (4.3 m).
²For Scab Reinforcement use 2 rows of 16d Gun nails @ 6" (150 mm) on-center to attach reinforcement to web.



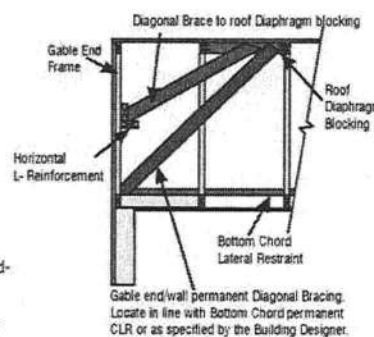
Some Truss Manufacturers mark the locations of the web Lateral Restraint or reinforcement on the truss using tags similar to those above.
 Algunos Fabricantes de Trusses marcan en el truss las ubicaciones de refuerzo o Restricción Lateral de miembros secundarios con etiquetas similares a las arriba.

Web Member Plane Permanent Building Stability Bracing to Transfer Wind & Seismic Forces Arrioste de Estabilidad Permanente del Edificio del Plano de Miembros Secundarios para Desplazar Fuerzas de Viento y Fuerzas Sísmicas

The web member restraint or reinforcement specified on a TDD is required to resist buckling under vertical loads. Additional restraint and bracing is typically required to transfer lateral loads due to wind and/or seismic forces. This restraint and bracing is typically provided by the Building Designer.
 La restricción o refuerzo de miembros secundarios especificada en un TDD es requerido a resistir el torcer bajo cargas verticales. Restricción y arrioste adicional es requerido típicamente para pasar cargas laterales debidas a fuerzas de viento y/o fuerzas sísmicas. Esta restricción y arrioste es típicamente provisto por el Diseñador del Edificio.

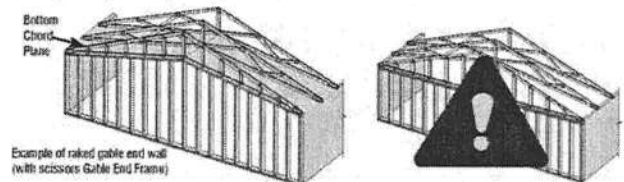


Some Truss Designers provide general design tables and details to assist the Building Designer in determining the Bracing required to transfer lateral loads due to wind and/or seismic forces from the Gable End Frame into the roof and/or ceiling diaphragm.
 Algunos Diseñadores de Trusses proveen tablas y detalles de diseño generales para asistir el Diseñador del Edificio en determinar el Arrioste requerido para pasar cargas laterales debidas a fuerzas de viento y/o fuerzas sísmicas del Armazón Hastial al diafragma del techo.



Gable End Frames and Sloped Bottom Chords Armazones Hastiales Y Cuerdas Inferiores Pendientes

The Gable End Frame should always match the profile of the adjacent trusses to permit installation of proper Bottom Chord Plane restraint & bracing unless special bracing is designed to support the end wall.
 El Armazón Hastial siempre debe encajar el perfil de los trusses contiguos para permitir la instalación de restricción y arrioste apropiada de la Cuerda Inferior a menos que arrioste especial es diseñado para soportar la pared de extremo.



CAUTION Using a flat Bottom Chord Gable End Frame with adjacent Trusses that have sloped Bottom Chords is prohibited by some building codes as adequate bracing of this condition is difficult and sometimes impossible. Special end wall bracing design considerations are required by the Building Designer if the Gable End Frame profile does not match the adjacent Trusses.

El uso de un Armazón Hastial de la Cuerda Inferior con Trusses contiguos cuales tienen Cuerdas Inferiores pendientes es prohibido por algunos códigos de edificios porque arrioste adecuado de esta condición es difícil y a veces imposible. Consideraciones especiales de diseño para el arrioste de la pared de extremo son requeridos por el Diseñador del Edificio si el perfil del Armazón Hastial no hace juego con los Trusses contiguos.

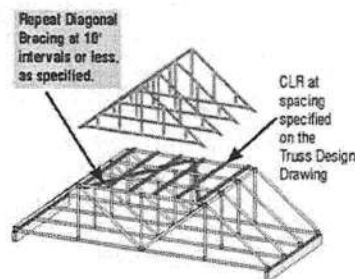
PERMANENT BRACING FOR SPECIAL CONDITIONS ARRIOSTRE PERMANENTE PARA CONDICIONES ESPECIALES Sway Bracing—Arrioste de "Sway"

"Sway" bracing is installed at the discretion of the Building Designer to help stabilize the truss system and minimize the lateral movement due to wind and seismic loads.
 Arrioste de "Sway" está instalado por la discreción del Diseñador del Edificio para ayudar en estabilizar el sistema de trusses y para minimizar el movimiento lateral debido a cargas de viento y cargas sísmicas.

Sway bracing installed continuously across the building also serves to distribute gravity loads between trusses of varying stiffness.
 Arrioste de "Sway" que es instalada continuamente a través del edificio también es usado para distribuir las cargas de gravedad entre trusses de rigidez variando.

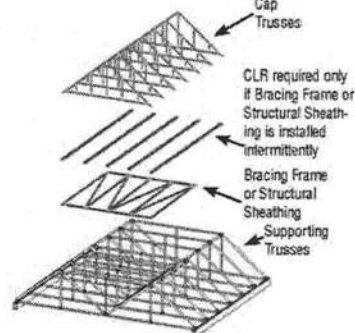
Permanent Restraint/Bracing for the Top Chord in a Piggyback Assembly Restricción/Arrioste Permanente para la Cuerda Superior en un Ensamblaje de Piggyback

Provide restraint and bracing by:
 • using rows of 4x2 stress-graded lumber CLR and Diagonal Bracing, or
 • connecting the CLR into the roof diaphragm, or
 • adding Structural Sheathing or Bracing Frames, or
 • some other equivalent means.
 Provee restricción y arrioste por:
 • usando filas de 4x2 CLR madera graduada por esfuerzo y Arrioste Diagonal, o
 • conectando el CLR al diafragma del techo, o
 • añadiendo Entablado Estructural o Armazones de Arrioste, o
 • algunos otros métodos equivalentes.




Refer to the TDD for the maximum assumed spacing for attaching the Lateral Restraint to the top chord of the supporting truss.
 Refiere al TDD para el espaciamiento máximo supuesto para sujetar la Restricción Lateral a la cuerda superior del truss soportante.


The TDD provides the assumed thickness of the restraint and minimum connection requirements between the cap and the supporting truss or restraint.
 El TDD provee el grosor supuesto de la restricción y los requisitos de conexión mínimos entre la capa y el truss soportante o la restricción.



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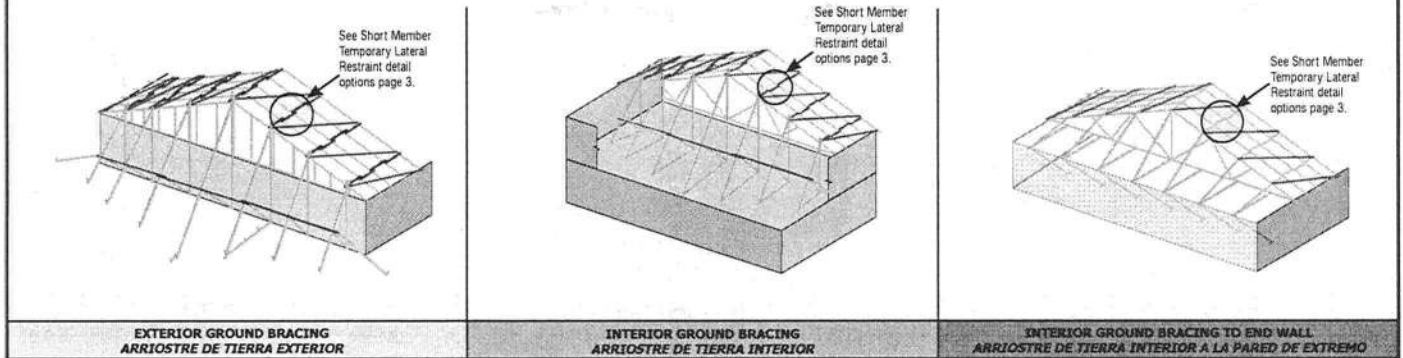


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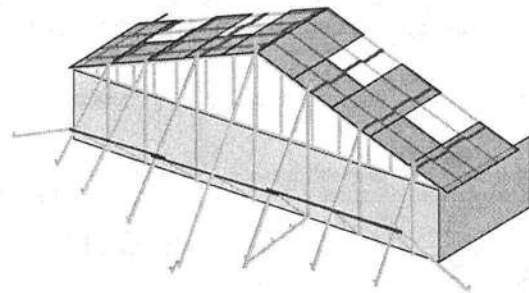
RESTRICCIÓN / ARRIOSTRE PERMANENTE DE LAS CUERDAS Y LOS MIEMBROS SECUNDARIOS
 TRAMOS MAS DE 60' PIES PUEDEN REQUERIR ARRIOSTRE PERMANENTE COMPLEJO. POR FAVOR, SIEMPRE CONSULTE A UN PROFESIONAL DE DISEÑO REGISTRADO

5. Install Top Chord Diagonal Bracing Instale el Arriostre Diagonal de la Cuerda Superior

- ✓ Attach diagonal bracing to the first five trusses. Examples of diagonal bracing on first five trusses include:
Coloque el arriostre diagonal a los primeros cinco trusses. Ejemplos de arriostre diagonal en los primeros cinco trusses incluyen:



- ✓ Or start applying structural sheathing. Example of structural sheathing installed on first five trusses.
O empiece en aplicar el entablado estructural. Ejemplo de entablado estructural instalado en los primeros cinco trusses.



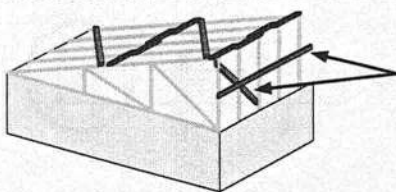
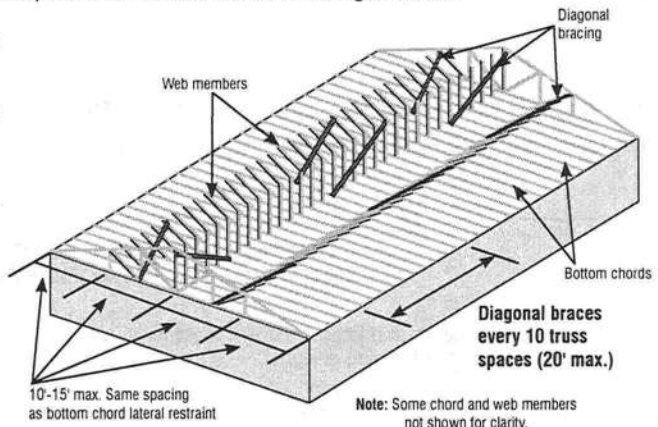
6. Install Web Member Diagonal Bracing Instale el Arriostre Diagonal de Miembros Secundarios

- ✓ Temporary web member diagonal bracing acts with the top chord and bottom chord temporary lateral restraint and diagonal bracing to form triangulation perpendicular to the plane of the truss and prevents trusses from leaning or dominoing.
El arriostre diagonal temporal de los miembros secundarios trabaja con la restricción lateral y el arriostre diagonal temporales de la cuerda superior e inferior para formar una triangulación perpendicular al plano del truss y evita que los trusses se inclinen o caigan como dominós.

- ✓ Install diagonal bracing at about 45° on web members (verticals whenever possible) located at or near rows of bottom chord lateral restraint. Web diagonal bracing must extend from the top chord to the bottom chord. Repeat at the interval shown in the Figure below.

Instale el arriostre diagonal a aproximadamente 45 grados en los miembros secundarios (verticales cuando sea posible) colocados en o cerca de las filas de restricción lateral de la cuerda inferior. Arriostre diagonal para los miembros secundarios tiene que extender de la cuerda superior a la cuerda inferior. Repita a los intervalos mostrados en la Figura a la derecha.

NOTICE The requirements for web member permanent individual truss member restraint are specified on the truss design drawing (TDD). Refer to BCSI-B3 for more information.
Los requisitos para la restricción permanente de miembros individuales de truss para miembros secundarios son especificados en el dibujo del diseño de truss. Vea el resumen BCSI-B3 para más información.

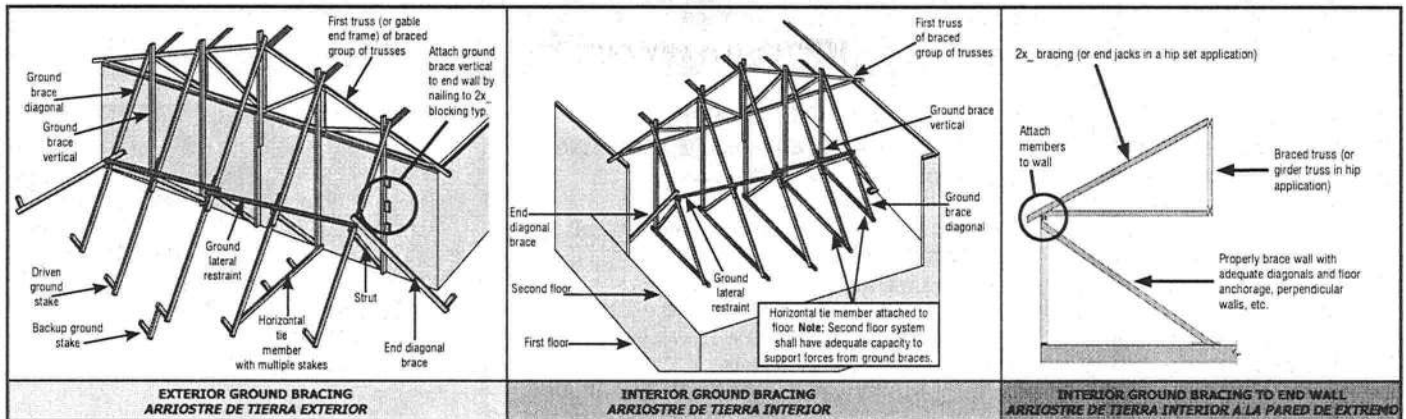


NOTICE Mono trusses, deep flat trusses and other types of trusses with deep ends also require temporary lateral restraint and diagonal bracing on the long web members at the deep end of the truss.
Los trusses de una sola pendiente, trusses planos y profundos y otros tipos de trusses con extremos profundos también requieren restricción lateral temporal y arriostre diagonal en los miembros secundarios largos al parte profundo del truss.

STEPS TO SETTING TRUSSES

PASOS PARA EL MONTAJE DE TRUSSES

1. Establish Ground Bracing Procedure: Exterior or Interior Establezca el Procedimiento de Arriostre de Tierra: Exterior o Interior

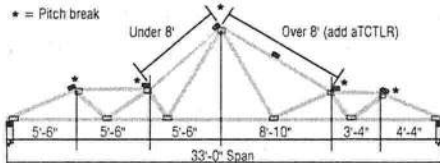


2. Determine the locations for TCTLR and Ground Braces Determine las ubicaciones para TCTLR y los Arriostres de Tierra

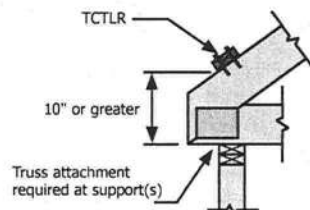
- Use truss span to determine spacing for top chord temporary lateral restraint (TCTLR) from table at right.
Use el tramo del truss para determinar el espaciamiento para restricción lateral temporal de la cuerda superior (TCTLR) en la tabla a la derecha.

Maximum Top Chord Temporary Lateral Restraint Spacing**	
Truss Span	TCTLR Spacing
Up to 30'	10' on-center maximum
30' - 45'	8' on-center maximum
45' - 60'	6' on-center maximum
60' - 80'*	4' on-center maximum

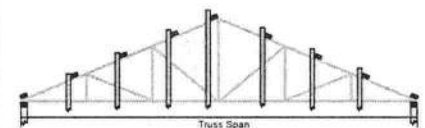
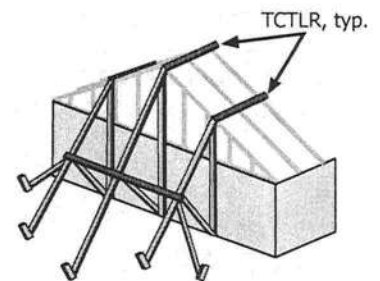
*Consult a registered design professional for trusses longer than 60'.
**For trusses spaced greater than 2' o.c., see also BCSI-B10.



- Locate additional TCTLR at each pitch break.
Localice TCTLR adicional en cada rotura de inclinación.



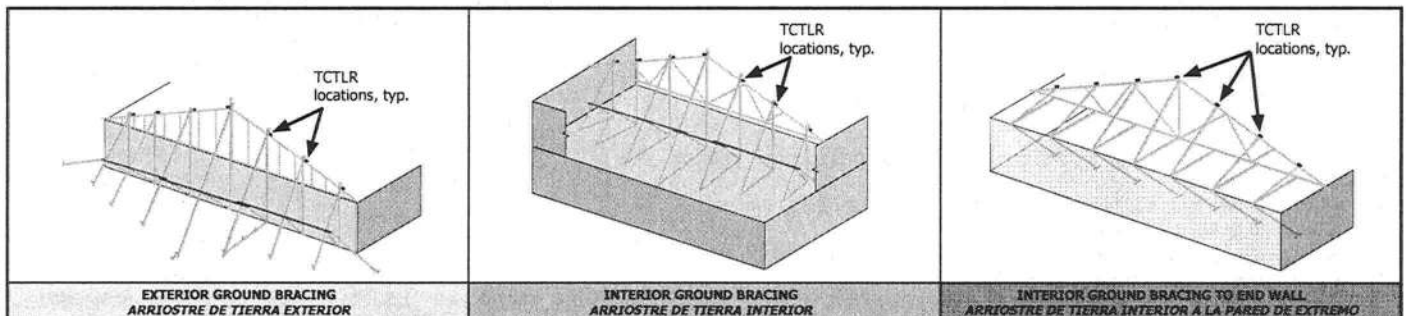
- Locate additional TCTLR over bearings if the heel height is 10" or greater.
Localice TCTLR adicional sobre los soportes si la altura del talón (heel height) es de 10 pulgadas o más.



- Locate a ground brace vertical at each TCTLR location.
Localice una vertical de arriostre de tierra en cada lugar de TCTLR.

3. Set First Truss and Fasten Securely to Ground Braces Coloque el Primer Truss y Fíjelo Seguramente a los Arriostres de Tierra

- Set first truss (or gable end frame) and fasten securely to ground braces and to the wall, or as directed by the building designer. Examples of first truss installed include:
Coloque el primer truss (o armazón hastial) y fíjelo seguramente a las verticales de arriostre de tierra y a la pared, o como se dirige el diseñador del edificio. Ejemplos del primer truss instalado incluyen:



- CAUTION!** First truss must be attached securely to all bearings and to all required ground braces prior to removing the hoisting supports.
El primer truss tiene que ser sujetado seguramente a todos soportes y a todas arriostres de tierra requeridos, antes de quitar los soportes de levantamiento.

BCSI-B1 SUMMARY SHEET GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES SPANS OVER 60' MAY REQUIRE COMPLEX PERMANENT BRACING. PLEASE ALWAYS CONSULT A PROFESSIONAL ENGINEER

STEPS TO SETTING TRUSSES

LAS MEDIDAS DE LA INSTALACIÓN DE LOS TRUSSES

- 1) Install ground bracing. 2) Set first truss and attach securely to ground bracing. 3) Set next 4 trusses with short member temporary lateral restraint (see below). 4) Install top chord diagonal bracing (see below). 5) Install web member plane diagonal bracing to stabilize the first five trusses (see below). 6) Install bottom chord temporary lateral restraint and diagonal bracing (see below). 7) Repeat process on groups of four trusses until all trusses are set.

1) Instale los arriostres de tierra. 2) Instale el primero truss y ate seguramente al arriostre de tierra. 3) Instale los próximos 4 trusses con restricción lateral temporal de miembro corto (vea abajo). 4) Instale el arriostre diagonal de la cuerda superior (vea abajo). 5) Instale arriostre diagonal para los planos de los miembros secundarios para estabilice los primeros cinco trusses (vea abajo). 6) Instale la restricción lateral temporal y arriostre diagonal para la cuerda inferior (vea abajo). 7) Repita este procedimiento en grupos de cuatro trusses hasta que todos los trusses estén instalados.

Refer to BCSI-B2 Summary Sheet - Truss Installation & Temporary Restraint/Bracing*** for more information.

Vea el resumen BCSI-B2 - Instalación de Trusses y Restricción/Arriostre Temporal*** para más información.

RESTRAINT/BRACING FOR ALL PLANES OF TRUSSES RESTRICCIÓN/ARRIOSTRE PARA TODOS PLANOS DE TRUSSES

- 1) This restraint & bracing method is for all trusses except 3x2 and 4x2 parallel chord trusses

Este método de restricción y arriostre es para todo trusses excepto trusses de cuerdas paralelas 3x2 y 4x2.

1) TOP CHORD — CUERDA SUPERIOR

Truss Span Longitud de Tramo	Top Chord Temporary Lateral Restraint (TCLTR) Spacing Espaciamiento del Arriostre Temporal de la Cuerda Superior
Up to 30'	10' o.c. max.
Hasta 30 pies	10 pies máximo
30' to 45'	8' o.c. max.
30 a 45 pies	8 pies máximo
45' to 60'	6' o.c. max.
45 a 60 pies	6 pies máximo
60' to 80'	4' o.c. max.
60 a 80 pies*	4 pies máximo

*Consult a Professional Engineer for trusses longer than 60'.

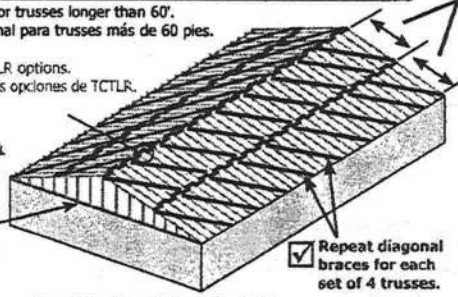
*Consulte a un Ingeniero Profesional para trusses más de 60 pies.

- 1) See BCSI-B2*** for TCLTR options.

Vea el BCSI-B2*** para las opciones de TCLTR.

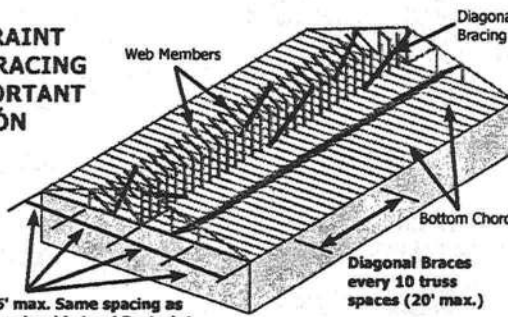
Refer to BCSI-B3 Summary Sheet - Permanent Restraint/Bracing of Chords & Web Members*** for Gable End Frame restraint/bracing/reinforcement information.

Para información sobre restricción/arriostre/refuerzo para Armazones Hastiales vea el resumen BCSI-B3 - Restricción/Arriostre Permanente de Cuerdas y Miembros Secundarios***



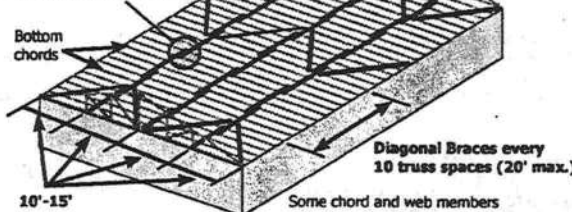
2) WEB MEMBER PLANE — PLANO DE LOS MIEMBROS SECUNDARIOS

**LATERAL RESTRAINT & DIAGONAL BRACING ARE VERY IMPORTANT
LA RESTRICCIÓN LATERAL Y EL ARRIOSTRE DIAGONAL SON MUY IMPORTANTES!**



3) BOTTOM CHORD — CUERDA INFERIOR

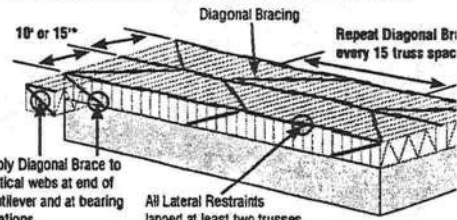
Lateral Restraints - 2x4x12' or greater lapped over two trusses.



RESTRAINT & BRACING FOR 3x2 AND 4x2 PARALLEL CHORD TRUSSES RESTRICCIÓN Y ARRIOSTRE PARA TRUSSES DE CUERDAS PARALELAS 3X2 Y 4X2

- 1) Refer to BCSI-B7 Summary Sheet - Temporary & Permanent Restraint/Bracing for Parallel Chord Trusses*** for more information.

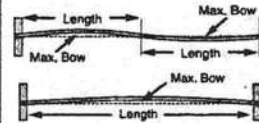
Vea el resumen BCSI-B7 - Restricción/Arriostre Temporal y Permanente para Trusses de Cuerdas Paralelas*** para más información.



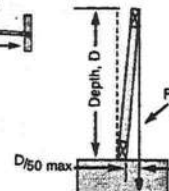
*Top chord Temporary Lateral Restraint spacing 10' o.c. max. for 3x2 chords and 15' o.c. for 4x2 c

INSTALLING — INSTALACIÓN

- 1) Tolerances for Out-of-Plane.
Tolerancias para Fuera-de-Plano.



- 1) Tolerances for Out-of-Plumb.
Tolerancias para Fuera-de-Plomada.



Out of Plumb		Max. Bow	True Length
D/50	D (ft.)		
1/4"	1'	3/4"	12'
1/2"	2'	7/8"	14'
3/4"	3'	1"	16'
1"	4'	1-1/8"	18'
1-1/4"	5'	1-1/4"	20'
1-1/2"	6'	1-3/8"	22'
1-3/4"	7'	1-1/2"	25'
2"	≥8'	1-3/4"	28'
		2"	≥30'

CONSTRUCTION LOADING — CARGA DE CONSTRUCCIÓN

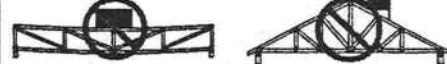
- 1) Do not proceed with construction until all lateral restraint and bracing is securely and properly in place.

No proceda con la construcción hasta que todas las restricciones laterales y los arriostres estén colocados en forma apropiada y segura.

- 1) Do not exceed maximum stack heights. Refer to BCSI-B4 Summary Sheet - Construction Loading*** for more information.

No exceda las alturas máximas de montón. Vea el resumen BCSI-B4 Carga de Construcción*** para más información.

Material	Height
Gypsum Board	12"
Plywood or OSB	16"
Asphalt Shingles	2 bund
Concrete Block	8"
Clay Tile	3-4 tiles l



- 1) Do not overload small groups or single trusses.
- 2) Never stack materials near a peak.

- 1) Do not cut, alter, or drill any structural member of a truss unless specifically permitted by the Truss Design Drawing.

- 1) Place loads over as many trusses as possible.

- 1) Position loads over load bearing walls.

- 1) Coloque las cargas sobre las paredes soportantes.

Truss bracing shown for cl

ALTERATIONS — ALTERACIONES

- 1) Refer to BCSI-B5 Summary Sheet - Truss Damage, Jobsite Modifications & Installation Errors.

Vea el resumen BCSI-B5 Daños de Trusses, Modificaciones en la Obra y Errores de Instalación

- 1) Do not cut, alter, or drill any structural member of a truss unless specifically permitted by the Truss Design Drawing.

No corte, altere o perforo ningún miembro estructural de un truss, a menos que esté específicamente permitido en el Dibujo del Diseño del Truss.

- 1) Trusses that have been overloaded during construction or altered without the Truss Manufacturer's prior approval may render the Truss Manufacturer's limited warranty null and void.

Trusses que se han sobrecargado durante la construcción o han sido alterados sin la autorización previa del Fabricante de Trusses, pueden hacer nulo y sin efecto la garantía limitada del Fabric de Trusses.

***Contact the Component Manufacturer for more information or consult a Professional Engineer for assistance to view a non-printing PDF of this document, visit www.sbcindustry.com/b1.

NOTE: The Truss Manufacturer and Truss Designer rely on the presumption that the Contractor and crane operator (if applicable) professionals with the capability to undertake the work they have agreed to do on any given project. If the Contractor believes it is assistance in some aspect of the construction project, it should seek assistance from a competent party. The methods and procedures outlined in this document are intended to ensure that the overall construction techniques employed will put the trusses into place safely. These recommendations for handling, installing, restraining and bracing trusses are based upon the collective experience of the personnel involved with truss design, manufacture and installation, but must, due to the nature of responsibilities involved, be pres only as a GUIDE for use by a qualified Building Designer or Contractor. It is not intended that these recommendations be interpreted superior to the Building Designer's design specification for handling, installing, restraining and bracing trusses and it does not predict use of other equivalent methods for restraining/bracing and providing stability for the walls, columns, floors, roofs and all the internal structural building components as determined by the Contractor. Thus, WTC and TPI expressly disclaim any responsibility for damage arising from the use, application, or reliance on the recommendations and information contained herein.



6300 Enterprise Lane • Madison, WI 53719
608/274-4849 • www.sbcindustry.com



218 N. Lee St., Ste. 312 • Alexandria, VA 22314
703/683-1010 • www.tpinet.org

HOJA RESUMEN DE LA GUIA DE BUENA PRACTICA PARA EL MANEJO, INSTALACION, RESTRICCIÓN Y ARRIOSTRE DE LOS TRUSSES
VANOS MAS DE 60' PIES PUEDEN REQUERIR ARRIOSTRE PERMANENTE COMPLEJO. POR FAVOR, SIEMPRE CONSULTE A UN INGENIERO PROFESIONAL

JOBSITE PACKAGE

IMPORTANT DOCUMENTS ENCLOSED

PLEASE REVIEW



WARNING:

The handling, storing, installing, restraining and diagonal bracing of structural building components requires specialized training, clearly implemented procedures, and careful planning and communication among the contractor, crane operator and installation crew. Handling and installing components without appropriate training, planning and communication greatly increases the probability of an accident resulting in property damage, serious personal injury and/or death.

Prior to component installation, the documents should be examined and disseminated to all appropriate personnel, in addition to proper training and a clear understanding of the installation plan, any applicable fall protection requirements, and the intended restraint and bracing requirements. **Trusses over 60 feet in length are very dangerous to install and may require complex temporary and permanent bracing. Please consult a Registered Design Professional.**

Examine the building, the building's structural framing system, bearing locations and related installation conditions. Begin component installation only after any unsatisfactory conditions have been corrected. Do not cut, modify or repair components. Report any damage before installation.

The enclosed documents are offered as minimum guidelines only. Nothing contained in this jobsite package should be construed in any manner as expanding the scope of responsibility of, or imposing any additional liabilities on, the component manufacturer.

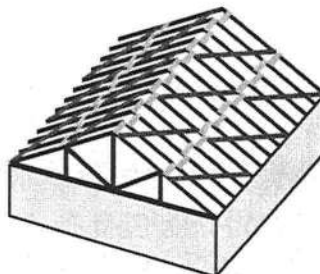
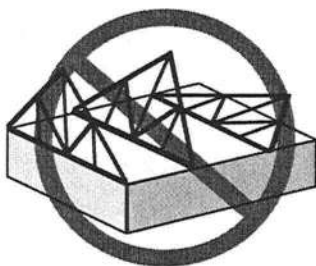
ADVERTENCIA:

El manejo, almacenamiento, instalación, restricción y arriostre diagonal de componentes estructurales de construcción requieren entrenamiento especializada, procedimientos claramente implementados y planificaron y comunicación clara entre el contratista, operador de grúa, y los obreros de instalación. El manejar e instalar los componentes sin entrenamiento suficiente, planificación y comunicación adecuadas aumenta la probabilidad de un accidente que resulta en dæro a propiedad, herida seria o muerte.

Antes de la instalación de componentes, los documentos adjuntos deben ser examinados y difundidos a todo el personal apropiado, además del entrenamiento pertinente y un claro entendimiento del plan de instalación, de todo requisito aplicable de la protección contra la caída y de los requisitos previstos de arriostre y restricción. **La instalación de trusses más de 60 pies de largo es muy peligrosa. Consulte a un Profesional de Diseño Registrado.**

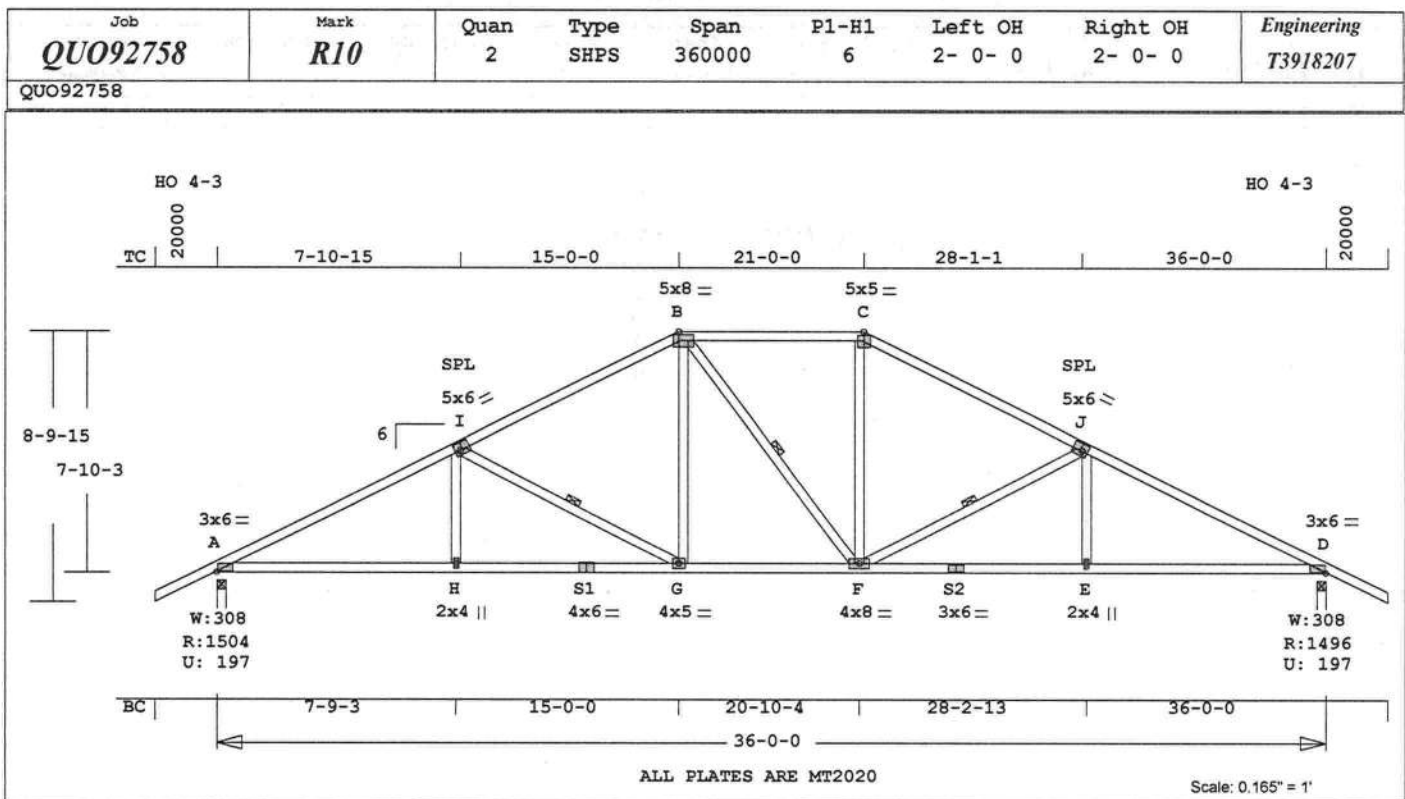
Examine la estructura, el sistema armazón estructural de edificio, ubicaciones de soporte e las condiciones de instalación correspondientes y comenzar con la instalación de los componentes sólo después de haber corregido toda condición insatisfactoria. No corte, modifique ni repare los componentes y informe cualquier daño descubierto antes de proceder a la instalación.

Los documentos adjuntos se ofrecen solamente como directrices mínimas. Nada de lo incluido en este paquete debe interpretarse de manera que exceda el alcance de la responsabilidad del fabricante de componentes, ni en forma tal que imponga responsabilidades adicionales sobre éste.



To view a non-printing PDF of this document, visit www.sbcindustry.com/jobsitecs.

FOR DESIGN RESPONSIBILITIES SEE REVERSE



Online Plus -- Version 27.5.019
RUN DATE: 05-NOV-10

CSI -Size- ---Lumber---
TC 0.60 2x 4 SP-#2
BC 0.55 2x 4 SP-#2
WB 0.21 2x 4 SP-#3

Brace truss as follows:

O.C. From To
TC Cont. 0- 0- 0 36- 0- 0
BC Cont. 0- 0- 0 36- 0- 0
One Continuous Lateral Brace
I -G B -F F -J
Attach CLB with (2)-10d nails
at each web.

psf-Ld Dead Live
TC 7.0 20.0
BC 10.0 0.0
TC+BC 17.0 20.0
Total 37.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt Down Uplift Horiz-
A 1505 198 U 160 R
D 1496 198 U 160 R

Jt Brg Size Required
A 3.5" 1.8"
D 3.5" 1.8"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 BC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Axl-CSI-Bnd
-----Top Chords-----
A -I 0.60 2463 C 0.14 0.46
I -B 0.58 1861 C 0.12 0.46
B -C 0.30 1640 C 0.12 0.18
C -J 0.58 1841 C 0.12 0.46
J -D 0.60 2447 C 0.14 0.46

-----Bottom Chords-----
A -H 0.52 2208 T 0.37 0.15
H -S1 0.52 2208 T 0.37 0.15
S1-G 0.55 2208 T 0.37 0.18
G -F 0.45 1653 T 0.27 0.18

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 240.4 LBS

F -S2 0.53 2194 T 0.36 0.17
S2-E 0.52 2194 T 0.36 0.16
E -D 0.52 2194 T 0.36 0.16

-----Webs-----
H -I 0.08 313 T
I -G 0.21 621 C 1 Br
G -B 0.16 504 T
B -F 0.04 115 T 1 Br
F -C 0.17 468 T
F -J 0.21 627 C 1 Br
E -J 0.08 312 T

TL Defl -0.35" in H -G L/999
LL Defl -0.16" in G -F L/999
Shear // Grain in A -I 0.25

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 3.0x 6.0 Ctr Ctr 0.91
I MT20 5.0x 6.0-0.2 0.5 0.59
B MT20 5.0x 8.0 Ctr-0.1 0.49
C MT20 5.0x 5.0 Ctr-0.2 0.51
J MT20 5.0x 6.0 0.2 0.5 0.59
D MT20 3.0x 6.0 Ctr Ctr 0.91
H MT20 2.0x 4.0 Ctr Ctr 0.34
S1 MT20 4.0x 6.0 Ctr 0.2 0.54
G MT20 4.0x 5.0 Ctr Ctr 0.25
F MT20 4.0x 8.0 Ctr Ctr 0.28
S2 MT20 3.0x 6.0 Ctr Ctr 0.97
E MT20 2.0x 4.0 Ctr Ctr 0.34

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
RIDGWAY ROOF TRUSS
Analysis Conforms To:
FBC2007
TPI 2002

OH Loading

Soffit psf 2.0

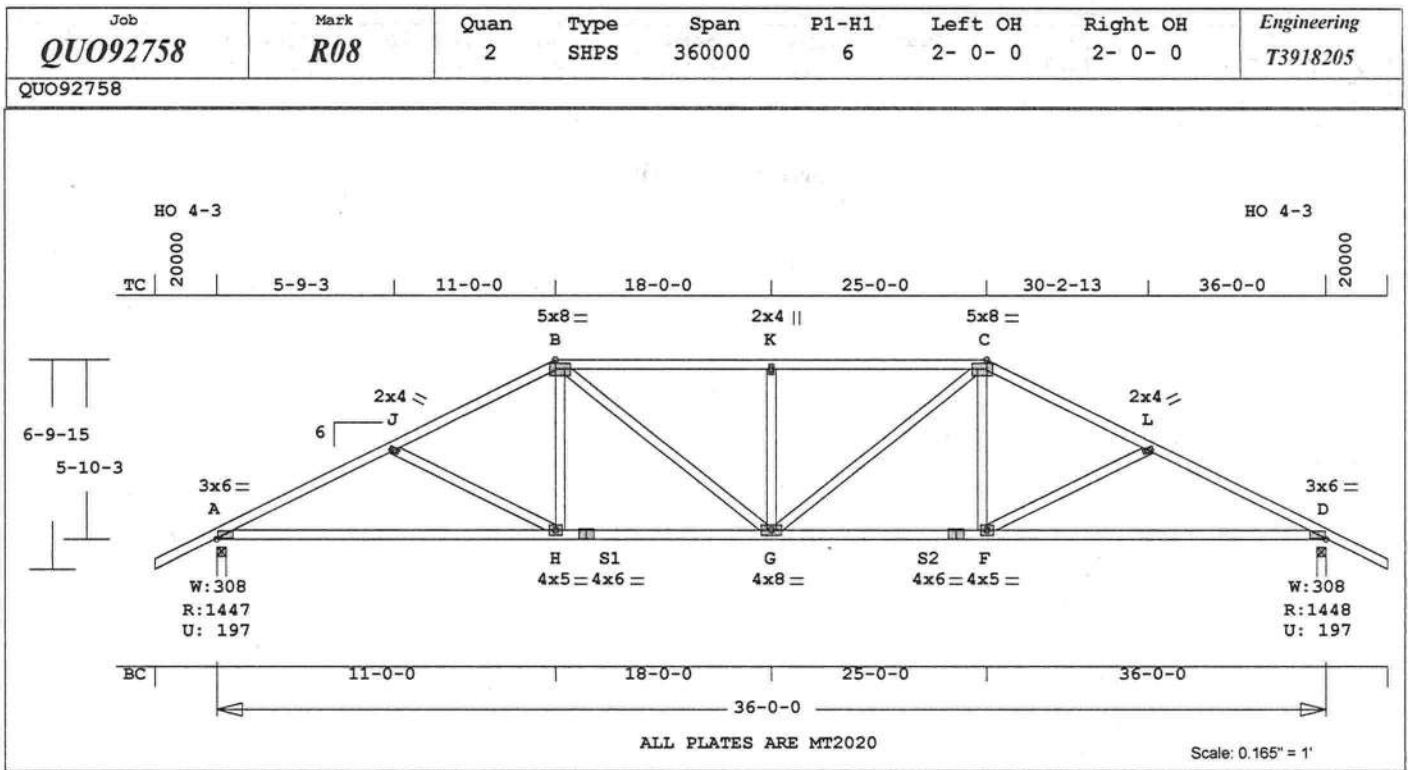
This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle

3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 17-0
Exposure Category: B
Occupancy Factor: 1.00
Building Type: Enclosed
TC Dead Load: 4.0 psf
BC Dead Load: 6.0 psf
Max comp. force 2463 Lbs
Max tens. force 2208 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

November 5, 2010



MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 234.0 LBS

Online Plus -- Version 27.5.019
RUN DATE: 05-NOV-10

TC	0.51	2x 4	SP-#2
BC	0.72	2x 4	SP-#2
WB	0.31	2x 4	SP-#3

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	36- 0- 0
BC Cont.	0- 0- 0	36- 0- 0

psf-Ld	Dead	Live
TC	7.0	20.0
BC	10.0	0.0
TC+BC	17.0	20.0
Total	37.0	24.0
Lumber Duration Factor	1.25	
Plate Duration Factor	1.25	
TC Fb=1.15	Fc=1.10	Ft=1.10
BC Fb=1.10	Fc=1.10	Ft=1.10

Jt	Down	Uplift	Horiz-
A	1448	198 U	117 R
D	1448	198 U	117 R

Jt	Brg Size	Required
A	3.5"	1.7"
D	3.5"	1.7"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
-----Top Chords-----				
A -J	0.35	2379 C	0.15	0.20
J -B	0.37	2064 C	0.13	0.24
B -K	0.51	2172 C	0.03	0.48
K -C	0.51	2172 C	0.03	0.48
C -L	0.37	2064 C	0.13	0.24
L -D	0.35	2379 C	0.15	0.20
-----Bottom Chords-----				
A -H	0.72	2134 T	0.20	0.52
H -S1	0.71	1841 T	0.19	0.52
S1 -G	0.47	1841 T	0.19	0.28
G -S2	0.47	1841 T	0.19	0.28
S2 -F	0.71	1841 T	0.19	0.52
F -D	0.72	2134 T	0.20	0.52

-----Webs-----
J -H 0.22 370 T
H -B 0.12 451 T
B -G 0.31 423 T
G -K 0.23 425 C
K -C 0.31 423 T
C -F 0.12 451 T
F -L 0.22 370 T

TL Defl	-0.62" in F -D	L/689
LL Defl	-0.28" in F -D	L/999
Shear // Grain	in B -K	0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI

A	MT20	3.0x 6.0	Ctr Ctr	0.88
J	MT20	2.0x 4.0	Ctr Ctr	0.27
B	MT20	5.0x 8.0	Ctr-0.1	0.49
K	MT20	2.0x 4.0	Ctr Ctr	0.34
C	MT20	5.0x 8.0	Ctr-0.1	0.49
L	MT20	2.0x 4.0	Ctr Ctr	0.27
D	MT20	3.0x 6.0	Ctr Ctr	0.88
H	MT20	4.0x 5.0	Ctr Ctr	0.25
S1	MT20	4.0x 6.0	Ctr	0.2 0.63
G	MT20	4.0x 8.0	Ctr Ctr	0.24
S2	MT20	4.0x 6.0	Ctr	0.2 0.63
F	MT20	4.0x 5.0	Ctr Ctr	0.25

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
RIDGWAY ROOF TRUSS
Analysis Conforms To:
FBC2007
TPI 2002
OH Loading
Soffit psf 2.0
This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by

2- 0- 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 17-0
Exposure Category: B
Occupancy Factor: 1.00
Building Type: Enclosed
TC Dead Load: 4.0 psf
BC Dead Load: 6.0 psf
Max comp. force 2379 Lbs
Max tens. force 2134 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

HO 4-3

TC 20000

7-0-0 14-6-5 21-7-7 29-0-0 36-0-0

20000

6x12 = B

6x12 = C

4x5 = I

SPL 6x10 = J

4x12 = A

4x12 = D

W: 308 R: 3015 U: 401

W: 308 R: 3015 U: 401

6x10 = 5x6 =

4x12 = 6x10 =

2x4 ||

2x4 ||

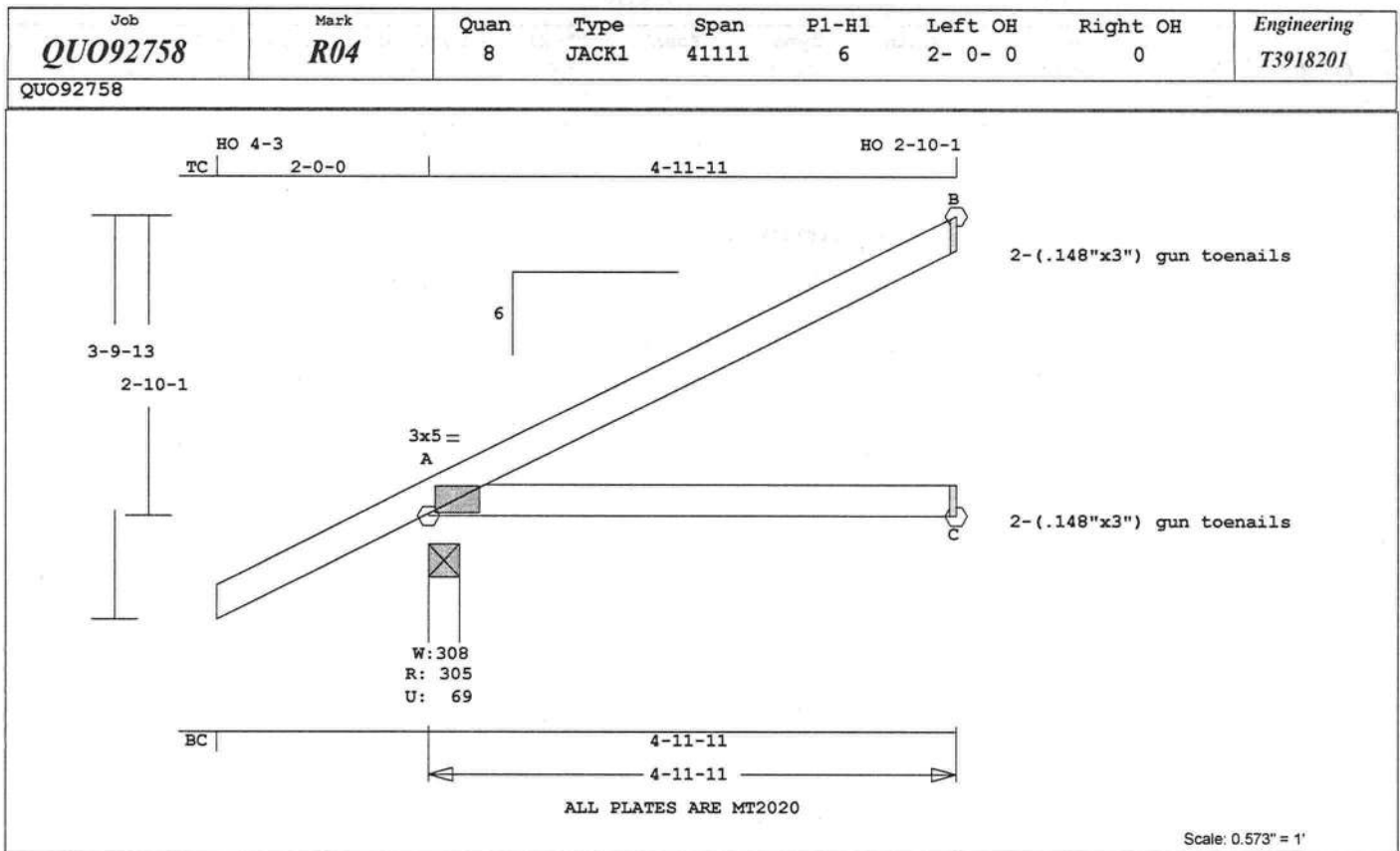
BC 7-1-12 14-2-13 21-7-7 28-10-4 36-0-0

36-0-0

ALL PLATES ARE MT2020

Scale: 0.165" = 1'

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Online Plus -- Version 27.5.019
RUN DATE: 05-NOV-10

CSI -Size- ----Lumber----

TC	0.36	2x 4	SP-#2
BC	0.28	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.	0- 0- 0	4-11-11	
BC Cont.	0- 0- 0	4-11-11	

psf-Ld	Dead	Live
TC	7.0	20.0
BC	10.0	0.0
TC+BC	17.0	20.0
Total	37.0	24.0

Spacing 24.0"

Lumber Duration Factor 1.25

Plate Duration Factor 1.25

TC Fb=1.15 Fc=1.10 Ft=1.10

BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz
A	305	69 U	72 R
C	89		
B	120	59 U	53 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	1.5"	1.5"
B	1.5"	1.5"

Plus 8 Wind Load Case(s)

Plus 1 UBC LL Load Case(s)

Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
-----Top Chords-----			
A -B	0.36	132 C	0.00 0.36
-----Bottom Chords-----			
A -C	0.28	0 T	0.00 0.28

TL Defl	-0.04"	in A -C	L/999
LL Defl	-0.02"	in A -C	L/999
Shear // Grain		in A -B	0.24

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 24.4 LBS

Plates for each ply each face.

Plate - MT20 20 Ga, Gross Area

Plate - MT2H 20 Ga, Gross Area

Jt Type Plt Size X Y JSI

A MT20 3.0x 5.0 Ctr Ctr 0.47

REVIEWED BY:

MiTek Industries, Inc.

6904 Parke East Blvd.

Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

For proper installation of
toe-nails, refer to the 2005
National Design Specification
(NDS) for Wood Construction

NOTES:

Trusses Manufactured by:
RIDGWAY ROOF TRUSS

Analysis Conforms To:

FBC2007

TP1 2002

OH Loading

Soffit psf 2.0

This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.

Design checked for 10 psf non-
concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-05

Truss is designed as

Components and Claddings*

for Exterior zone location.

Wind Speed: 110 mph

Mean Roof Height: 17-0

Exposure Category: B

Occupancy Factor : 1.00

Building Type: Enclosed

TC Dead Load: 4.0 psf

BC Dead Load: 6.0 psf

Max comp. force 132 Lbs

Max tens. force 34 Lbs

Connector Plate Fabrication
Tolerance = 20%

This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

5.0 TRUSS MANUFACTURER RESPONSIBILITIES

- 5.1 Communicate the design criteria from the Construction Design Documents to the Truss Designer.
- 5.2 Where required by the Construction Design Documents, prepare the Truss Placement Plan, providing as a minimum the location assumed for each Truss based on the Truss Manufacturer's interpretation of the Construction Design Documents.
- 5.3 Submit to the Contractor the Truss Placement Plan, as may be required, and each Truss Design Drawing for review and approval.
- 5.4 Manufacture the Trusses in accordance with the final approved Truss Design Drawings using the quality criteria for Metal Plate Connected Wood Trusses established by the ANSI/TPI 1-1995 "National Design Standard for Metal Plate Connected Wood Truss Construction."

6.0 TRUSS DESIGNER RESPONSIBILITIES

- 6.1 Prepare the Truss Design Drawings in conformance with the requirements set forth in the latest approved edition of ANSI/TPI 1-1995 "National Design Standard for Metal Plate Connected Wood Truss Construction."
- 6.2 For each Truss Design Drawing, set forth as a minimum the following:
 - 6.2.1 Slope or depth, span and spacing;
 - 6.2.2 Location of all joints;
 - 6.2.3 Required bearing widths;
 - 6.2.4 Design loads as applicable:
 - 6.2.4.1 Top chord live load (including snow loads);
 - 6.2.4.2 Top chord dead load;
 - 6.2.4.3 Bottom chord live load;
 - 6.2.4.4 Bottom chord dead load;
 - 6.2.4.5 Concentrated loads and their points of application; and
 - 6.2.4.6 Controlling wind and earthquake loads;
 - 6.2.5 Adjustments to lumber and metal connector plate design values for conditions of use;
 - 6.2.6 Each reaction force and direction;
 - 6.2.7 Metal connector plate type, size, thickness or gage, and the dimensioned location of each metal connector plate except where symmetrically located relative to the joint interface;
 - 6.2.8 Lumber size, species, and grade for each member;
 - 6.2.9 Connection Requirements for:
 - (a) Truss to Truss girder;
 - (b) Truss ply to ply; and
 - (c) Field splices;
 - 6.2.10 Calculated deflection ratio and/or maximum deflection for live and total load;
 - 6.2.11 Maximum axial compression forces in the Truss members to enable the Building Designer to design the size, connections and anchorage of the permanent continuous lateral bracing. Forces may be shown on the Truss Design Drawing or on supplemental documents; and
 - 6.2.12 Required permanent Truss member bracing location.

7.0 OTHER RESPONSIBILITIES

- 7.1 Any party who cuts or damages a truss shall be responsible for securing the engineering required for the repair and for subsequent costs.

Wood Truss Council of America's Objective

WTCA is committed to promoting the common interests of all engaged in the manufacture of wood trusses and related components to ensure growth, continuity, and increased professionalism in our industry. Fundamental to this is promoting the safe, economic, and structurally sound use of trusses in all applications.

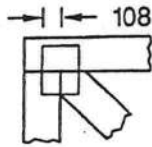
The Wood Truss Council of America publishes standard practice materials prepared and edited by knowledgeable authors from the construction industry to give as much assistance as possible to owners, architects, engineers, contractors, building officials, and others involved in the metal plate connected wood truss industry. The competence of the authors ensures accurate and authoritative information in regard to the subject matter covered, but, of course, neither the Wood Truss Council of America, nor the authors make either express or implied warranties in regard to the use of the materials.

1.0 SCOPE AND DEFINITIONS

- 1.1 This standard defines the design responsibilities of the individuals and organizations involved in the preparation, submittal, review and approval of each Truss Design Drawing and Truss Placement Plan associated with the use of metal plate connected wood trusses. These guidelines are presented as industry standard practice. The guidelines are not intended to preclude alternate provisions as agreed upon by the parties involved.
- 1.2 The following definitions shall apply:
 - 1.2.1 "Architect" shall mean the individual registered architect responsible for the architectural design of the structure and who produces the architectural drawings included in the Construction Design Documents.
 - 1.2.2 "Building Designer" is the individual or organization having responsibility for the overall building or structure design in accordance with the state's statutes and regulations governing the professional registration and certification of architects or engineers. This responsibility includes but is not limited to foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building codes. Also referred to as registered architect or engineer, building designer, and registered building designer, but hereinafter will be referred to as Building Designer.
 - 1.2.3 "Construction Design Documents" are the architectural drawings, structural drawings, mechanical drawings, electrical drawings, and any other drawings, specifications, and addenda which set forth the overall design of the structure and issued by the Building Designer.
 - 1.2.4 "Contractor" shall mean the individual or organization responsible for the field storage, handling, and installation of trusses including, but not limited to, temporary bracing, permanent bracing, anchorage, connections and field assembly. The term "Contractor" shall include those subcontractors who have a direct contract with the Contractor to perform all or a portion of the storage, handling, and installation of the trusses.
 - 1.2.5 "Engineer-of-Record" shall mean the registered professional engineer responsible for the structural design of the structure and who produces the structural drawings included in the Construction Design Documents.
 - 1.2.6 "Owner" shall mean the individual or organization for whom the structure is designed.
 - 1.2.7 "Truss" is an individual metal plate connected wood structural component manufactured by the Truss Manufacturer.
 - 1.2.8 "Truss Designer" is the design professional, individual or organization, having responsibility for the design of metal plate connected wood trusses. This responsibility shall be in accordance with the state's statutes and regulations governing the professional registration and certification of architects or engineers. Also referred to as truss engineer, design engineer, registered engineer, and engineer, but hereinafter will be referred to as Truss Designer.
 - 1.2.9 "Truss Design Drawing" shall mean the graphic depiction of an individual Truss prepared by the Truss Designer.
 - 1.2.10 "Truss Manufacturer" shall mean an individual or organization regularly engaged in the manufacturing of Trusses.
 - 1.2.11 "Truss Placement Plan" is the drawing identifying the location assumed for each Truss based on the Truss Manufacturer's interpretation of the Construction Design Documents.

ROBBINS ENG. GENERAL NOTES & SYMBOLS

PLATE LOCATION



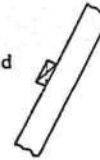
Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108).

PLATE SIZE

6.3 x 8.8

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

LATERAL BRACING



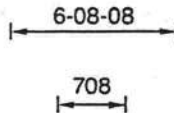
1x4 continuous lateral bracing attached with (2) 8d nails each member where indicated or 2x4 "T" or "L" brace stiffener if applicable nailed flat to edge of web with 12d nails spaced 8" o.c. "T" or "L" brace must be extended at least 90% of web length.

PLATE ORIENTATION



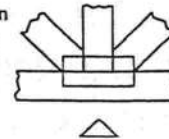
When shown, indicates direction of slots in connector plate.

DIMENSIONS



All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).

BEARING



When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS LOCK connector plates (20 ga. galv. steel ASTM A653 SS Grade 40) shall be applied on both faces of truss at each joint. Center the plates, unless shown otherwise by circles (o) or dimensions. No loose knots or wanes in plate contact area. Splice only where shown. Overall spans assume 4" bearings at each end, unless indicated otherwise. Cutting and fabrication shall be performed on equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and these designs are not applicable for use with fire retardant lumber. This design was prepared in accordance with "National Design Specifications for Stress - Grade Lumber and Its Fastenings" (AFPA), "Design Specifications for Light Metal Plate Connected Wood Trusses" (TPI), and HUD Design Criteria for

Trussed Rafters. Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to HIB-91 as published by the Truss Plate Institute, 583 D'Onofrio Drive, Suite 200, Madison, Wisconsin 53719. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THIS DESIGN TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF BUILDING DESIGNER TO REVIEW THIS DRWG. & VERIFY THAT DATA INCLUDING DIM. & LOADS CONFORM TO ARCH. PLAN/SPECS & FAB. TRUSS LAYOUTS.



CORPORATE HEADQUARTERS

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