DATE 05/02/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000025765

APPLICANT JERRY RYE PHONE 352 258-8603

ADDRESS 3817 NW 28TH TERR GAINESVILLE FL 32605

OWNER WALT & KRISSY SMITH PHONE 755-4235

ADDRESS 1214 SW WALTER AVE LAKE CITY FL 32024

CONTRACTOR RYE CONSTRUCTION PHONE 352 258-8603

LOCATION OF PROPERTY 47S, TL ON WALTER RD,1 MILE ON RIGHT, RCCI SIGN BY GATE

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 153100.00

HEATED FLOOR AREA 3062.00 TOTAL AREA 4702.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 19

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 02-5S-16-03437-003 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 10.00

000001067 CGC1511121 Jerry Rye

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

WAIVER 07-271-N BK JH Y

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

COMMENTS: ONE FOOT ABOVE THE ROAD,

Check # or Cash 1068

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

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

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

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

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

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

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

BUILDING PERMIT FEE $ 770.00 CERTIFICATION FEE $ 23.51 SURCHARGE FEE $ 23.51

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 892.02

INSPECTORS OFFICE Kyle Teddle CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

TMO

Inst:2007004952 Date:03/01/2007 Time:15:06
DC,P.DeWitt Cason,Columbia County B:1112 P:963

NOTICE OF COMMENCEMENT

To Whom It May Concern:

The undersigned hereby informs you that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is stated in this NOTICE OF COMMENCEMENT.

Description of Property: ATTACHED SCHEDULE A.

General Description of Improvements: CONSTRUCTION

Owner and Address: WALTER G SMITH
KRISTINE A SMITH
Property Address: 289 SW KAMAN DRIVE
LAKE CITY, FL 32024

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Sharon Feagle
Deputy Clerk
Date 03-01-2007

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

Owner's Interest in Site of the Improvement: Fee Simple

Contractor and Address: JERRY C RYE CONSTURCTION
3817 NW 28th Terrace
Gainesville, FL 32605

Surety (if any): NA

Address: _____ Amount of Bond $ _____

Name and address of person within the State of Florida designated by owner upon whom notices or other documents may be served:

In addition to himself, owner designated the following person to receive a copy of Lienor's Notice as provided in Section 713.06 (2) (b) Florida Statutes:

Name and Address: Ameris Bank
P O Box 899
Newberry, FL 32669

Walter G Smith
WALTER G SMITH

Kristine A Smith
KRISTINE A SMITH

State of Florida
County of Alachua

I hereby certify that on this day, before me, an officer duly authorized to administer oaths and take acknowledgements, personally appeared Walter G Smith and Kristine A Smith who is known to me to be the person(s) described in and who executed the foregoing instrument, who acknowledged before me that they executed the same.

Witness my hand and official seal in the County and State aforesaid this 23rd day of FEBRUARY, **2007**..

MICHELLE M. BRADY
MY COMMISSION # DD 418991
EXPIRES: April 17, 2009
Bonded Thru Notary Public Underwriters

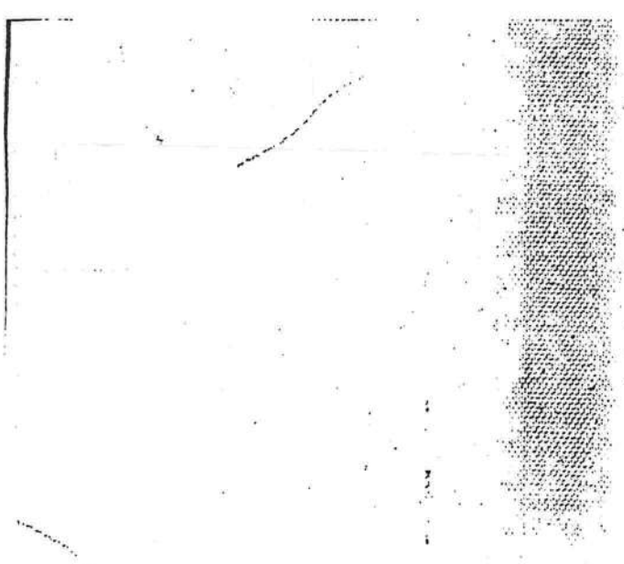
Michelle M Brady
Notary Public

Inst:2007004952 Date:03/01/2007 Time:15:06
_____DC,P.DeWitt Cason,Columbia County B:1112 P:964

SCHEDULE A

BEGIN at the Southeast corner of the Southwest 1/4 of the Southeast 1/4 of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run S.88°26'27"W. along the South line of said Section 2 a distance of 666.82 feet; thence N.00°17'12"W. parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N.88°26'27"E. parallel to the South line of said Section 2 a distance of 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S.00°17'12"E. along said East line 653.25 feet to the POINT OF BEGINNING. Containing 10.00 acres, more or less.

TOGETHER WITH: An Easement 30.00 feet in width, for ingress and egress lying 30.00 feet left (North) of and adjacent to the following described line: COMMENCE at the Southwest corner of the Southeast 1/4 of the Southeast 1/4 (being also the Southeast corner of the Southwest 1/4 of the Southeast 1/4) of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run N.00°17'12"W. along the West line of said Southeast 1/4 of the Southeast 1/4 a distance of 424.16 feet to the Northwest corner of the South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 and the POINT OF BEGINNING; thence N.88°26'55"E. along the North line of said South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 a distance of 1249.33 feet to a point on the Westerly maintained Right-of-Way line of SW Walter Avenue and the TERMINAL POINT of herein described line and easement.



MGS

KS

copy

THIS INSTRUMENT WAS PREPARED BY:

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

Recording Fee $ 18.50
Documentary Stamp $ .70

RETURN TO:

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

Inst:2007003854 Date:02/15/2007 Time:14:48
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1110 P:2714

File No. 07-59

Property Appraiser's
Parcel Identification No. 02-55-16-03437-003 Cheryl

WARRANTY DEED

THIS INDENTURE, made this 15th day of February, 2007, BETWEEN GLADYS L. SMITH, a single woman, whose post office address is 1018 SW Walter Avenue, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and WALTER G. SMITH, whose post office address is 289 SW Kaman Drive, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantee*.

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

TOWNSHIP 5 SOUTH - RANGE 16 EAST

SECTION 2: BEGIN at the Southeast corner of the Southwest 1/4 of the Southeast 1/4 of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run S 88°26'27"W along the South line of said Section 2 a distance of 666.82 feet; thence N 00°17'12" W parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N 88°26'27" E parallel to the South line of said Section 2, a distance of 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S 00°17'12" E along said East line 653.25 feet to the POINT OF BEGINNING.

TOGETHER WITH: An Easement 30.00 feet in width, for ingress, egress and utilities, lying 30.00 feet left (North) of and adjacent to the following described line: COMMENCE at the Southwest corner of the Southeast 1/4 of the Southeast 1/4 (being also the Southeast corner of the Southwest 1/4 of the Southeast 1/4) of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run N 00°17'12" W along the West line of said Southeast 1/4 of the Southeast 1/4 a distance of 424.16 feet to the Northwest corner of the South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 and the POINT OF BEGINNING; thence N 88°26'55" E along the North line of said South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 a distance of 1249.33 feet to a point on the Westerly maintained Right-of-Way line of SW Walter Avenue and the TERMINAL POINT of herein described line and easement.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

**"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

DeEtte F. Brown
(First Witness)
DeEtte F. Brown
Printed Name

(Second Witness)
Crystal L. Brunner
Printed Name

Gladys L. Smith (SEAL)
GLADYS L. SMITH

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 15th day of February, 2007, by GLADYS L. SMITH, who is personally known to me and who did not take an oath.

My Commission Expires:

DeEtte F. Brown
Notary Public
Printed, typed, or stamped name:

DE ETTE F. BROWN
MY COMMISSION # DD 578151
EXPIRES: October 22, 2010
Bonded Thru Notary Public Underwriters

Inst:2007003854 Date:02/15/2007 Time:14:48
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1110 P:2715

Columbia County Building Permit Application

For Office Use Only Application # 0704-22 Date Received 4/10 By JW Permit # 1377 / 25765

Application Approved by - Zoning Official BLK Date 04.05.07 Plans Examiner OK JTH Date 7-25-07

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments SITE PLAN ON PLANS

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

Name Authorized Person Signing Permit JERRY RYE (cell 352) 258 8603 Fax 352-378-9003

Address 3817 N.W. 28 TERRACE GAINESVILLE, FL. 32605 Phone 352-378-3006

Owners Name WALT AND KRISSY Smith Phone 386-755-4235

911 Address 1214 S.W. WALTER AVE, LC FL 32024

Contractors Name RYE CONSTRUCTION CO. INC, Phone CELL 352-258-8603 OFF- 352-378-3006

Address 3817 N.W. 28 TERRACE

Fee Simple Owner Name & Address WALTER G. SMITH AND KRISTINE A. SMITH

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address BRAD MUNN P.O. BOX 773063 OCALA, FL. 34477

Mortgage Lenders Name & Address AMERIS BANK 25365 West Newberry Rd Newberry FL. 32669

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

Property ID Number 02-5S-16-03437-003 Estimated Cost of Construction 195,000.00

Subdivision Name N/A PRIVATE PROPERTY Lot ___ Block ___ Unit ___ Phase ___

Driving Directions Hwy 47 South Approx 1.3 miles SOUTH OF I-75 TURN LEFT ON WALTER Rd - WALTER RD SOUTH APPROX 1mi TO PROPERTY ON RIGHT - RCCI SIGN BY GATE

Type of Construction FRAME ON CONC SLAB Number of Existing Dwellings on Property NONE

Total Acreage 10 Lot Size 1.2AC Do you need a - Culvert Permit or (Culvert Waiver) or Have an Existing D

Actual Distance of Structure from Property Lines - Front 87'± Side 85' Side 85' Rear 94'4"

Total Building Height 19'5½" Number of Stories 1 Heated Floor Area ~~2057~~ 3062 TOTAL ~~5200~~ 4902 Roof Pitch 7/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

JERRY L. RYE
Owner Builder or Authorized Person by Notarized Letter

Jerry Rye
Contractor Signature
Contractors License Number CGC151112
Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

DEBORAH A. DEAN NOTARY STAMP/SEAL
Comm# DD0540681
Expires 4/16/2010
Bonded thru
Florida Notary Assn., Inc.

Sworn to (or affirmed) and subscribed before this 10th day of April

Personally known X or Produced Identification ___

Deborah A Dean
Notary Signature

DESCRIPTION – 10 ACRES **Wednesday, January 31, 2007**

FOR: Walter Smith

BEGIN at the Southeast corner of the Southwest 1/4 of the Southeast 1/4 of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run S.88°26'27"W. along the South line of said Section 2 a distance of 666.82 feet; thence N.00°17'12"W. parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N.88°26'27"E. parallel to the South line of said Section 2 a distance of 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S.00°17'12"E. along said East line 653.25 feet to the POINT OF BEGINNING. Containing 10.00 acres, more or less.

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@ CAM112M01     S  CamaUSA Appraisal System                                Columbia County
 4/10/2007 13:21  Legal Description Maintenance                   72000  Land   001
Year T Property                                    Sel                        AG     000
2007 R 02-5S-16-03437-003                          ...                        Bldg   000
                                                                              Xfea   000
      SMITH WALTER G                                              72000  TOTAL        B*

  1  BEG SE COR OF SW1/4 OF SE1/4,   W 666.82 FT, N 653.25 FT, E        2
  3  666.82 FT, S 653.25 FT TO POB.  661-675, 676, 829-1380.            4
  5  829-1383, 829-1389, 999-939,    DC REMA SMITH 1000-2528,           6
  7  WD 2220-2714                                                       8
  9                                                                    10
 11                                                                    12
 13                                                                    14
 15                                                                    16
 17                                                                    18
 19                                                                    20
 21                                                                    22
 23                                                                    24
 25                                                                    26
 27                                                                    28
                                              Mnt  2/23/2007 THRESA
F1=Task  F3=Exit  F4=Prompt  F10=GoTo  PgUp/PgDn  F24=More
```

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: 2/5/2007 **DATE ISSUED:** 3/5/2007

ENHANCED 9-1-1 ADDRESS:

1214 SW WALTER AVE

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

02-5S-16-03437-003

Remarks:

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.

649

Approved Address

MAR 0 5 2007

911Addressing/GIS Dept

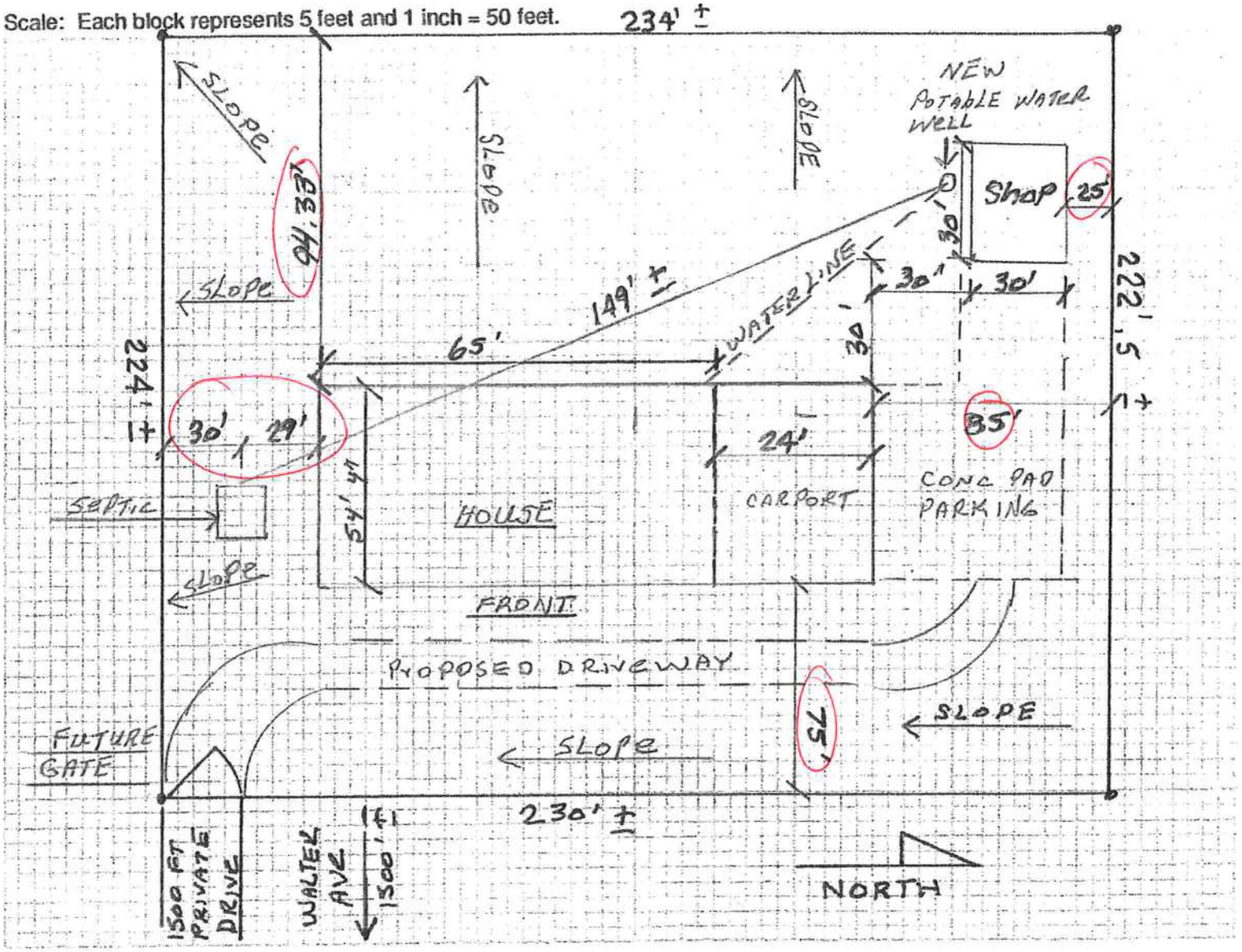
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-271N

PART II - SITE PLAN

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



Notes: HOUSE PAD Approx 1500' OFF WALTER AVE - PRIVATE ROAD BACK TO PAD. 1.2 ACRES ± PART OF 10 ACRE TRACT

Site Plan submitted by: Jerry Rye RCCT (Signature) PRESIDENT (Title)

Plan Approved ✓ Not Approved ____ Date 3-26-07

By [signature] Columbia County Health Departm 4/9/07

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/11/2006

PRODUCER (352)377-2002 FAX (352)376-8393
Scarborough Company Insurance, Inc.
2811 NW 41st Street
P. O. Box 147050
Gainesville, FL 32614-7050

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED Rye Construction Company, Inc.
3817 NW 28th Terrace
Gainesville, FL 32605

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Auto Owners Insurance Co.	18988
INSURER B:	
INSURER C:	
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

SR TR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY	B06101102258	10/11/2006	10/11/2007		
		[X] COMMERCIAL GENERAL LIABILITY				EACH OCCURRENCE	$ 500,000
		[ ] CLAIMS MADE [X] OCCUR				DAMAGE TO RENTED PREMISES (Ea occurence)	$ 100,000
						MED EXP (Any one person)	$ 10,000
						PERSONAL & ADV INJURY	$ 500,000
		GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE	$ 1,000,000
		[ ] POLICY [ ] PRO-JECT [ ] LOC				PRODUCTS - COMP/OP AGG	$ 1,000,000
		AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident)	$
		[ ] ANY AUTO				BODILY INJURY (Per person)	$
		[ ] ALL OWNED AUTOS				BODILY INJURY (Per accident)	$
		[ ] SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident)	$
		[ ] HIRED AUTOS					
		[ ] NON-OWNED AUTOS					
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
		[ ] ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	$
						AGG	$
		EXCESS/UMBRELLA LIABILITY				EACH OCCURRENCE	$
		[ ] OCCUR [ ] CLAIMS MADE				AGGREGATE	$
							$
		[ ] DEDUCTIBLE					$
		[ ] RETENTION $					$
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				[ ] WC STATU-TORY LIMITS [ ] OTH-ER	
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT	$
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE	$
						E.L. DISEASE - POLICY LIMIT	$
		OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
General Contractor Licence# CGC1511121; FEIN# 74-3164785

CERTIFICATE HOLDER

City of Lake City, Bldg Department
150 N Alachua Street
Lake City, FL 32055

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
Carol Ann Haythorne

ACORD 25 (2001/08)

THIS INSTRUMENT WAS PREPARED BY:

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

Recording Fee $ 18.50
Documentary Stamp $ .70

RETURN TO:

TERRY McDAVID
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Inst:2007003854 Date:02/15/2007 Time:14:48
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DC,P.DeWitt Cason,Columbia County B:1110 P:2714

File No. 07-59

Property Appraiser's
Parcel Identification No. 02-55-16-03437-000

WARRANTY DEED

THIS INDENTURE, made this 15th day of February, 2007, BETWEEN GLADYS L. SMITH, a single woman, whose post office address is 1018 SW Walter Avenue, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and WALTER G. SMITH, whose post office address is 289 SW Kaman Drive, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantee*.

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

TOWNSHIP 5 SOUTH - RANGE 16 EAST

SECTION 2: BEGIN at the Southeast corner of the Southwest 1/4 of the Southeast 1/4 of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run S 88°26'27"W along the South line of said Section 2 a distance of 666.82 feet; thence N 00°17'12" W parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N 88°26'27" E parallel to the South line of said Section 2, a distance of 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S 00°17'12" E along said East line 653.25 feet to the POINT OF BEGINNING.

TOGETHER WITH: An Easement 30.00 feet in width, for ingress, egress and utilities, lying 30.00 feet left (North) of and adjacent to the following described line: COMMENCE at the Southwest corner of the Southeast 1/4 of the Southeast 1/4 (being also the Southeast corner of the Southwest 1/4 of the Southeast 1/4) of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run N 00°17'12" W along the West line of said Southeast 1/4 of the Southeast 1/4 a distance of 424.16 feet to the Northwest corner of the South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 and the POINT OF BEGINNING; thence N 88°26'55" E along the North line of said South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 a distance of 1249.33 feet to a point on the Westerly maintained Right-of-Way line of SW Walter Avenue and the TERMINAL POINT of herein described line and easement.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

DeEtte F. Brown
(First Witness)
DeEtte F. Brown
Printed Name

(Second Witness)
Crystal L. Brunner
Printed Name

Gladys L. Smith (SEAL)
GLADYS L. SMITH

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 15th day of February, 2007, by GLADYS L. SMITH, who is personally known to me and who did not take an oath.

My Commission Expires:

DeEtte F. Brown
Notary Public
Printed, typed, or stamped name:

DE ETTE F. BROWN
MY COMMISSION # DD 578161
EXPIRES: October 22, 2010
Bonded Thru Notary Public Underwriters

Inst:2007003854 Date:02/15/2007 Time:14:48
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1110 P:2715

Columbia County, Florida
Planning & Zoning Department

Review of Building Permit for compliance with County's Comprehensive Plan and Land Development Regulations

To: Jerry Rye **Fax:** 352.378.9003

From: Brian L. Kepner, County Planner **Fax:** 386.758.2160

Number of pages: 1

Date: 27 April 2007

RE: Building Permit Application 0704-22, Walter Smith

Dear Jerry:

This 10 acre parcel has a fairly good amount of the property in a flood zone. The site plan submitted only shows the distances from a 1.2 acre portion of the 10 acres. Please submit a site plan that shows the distances from the proposed house to the property lines of the entire 10 acres in order to make a better determination if the proposed home site is located within the flood zone. Thank you.

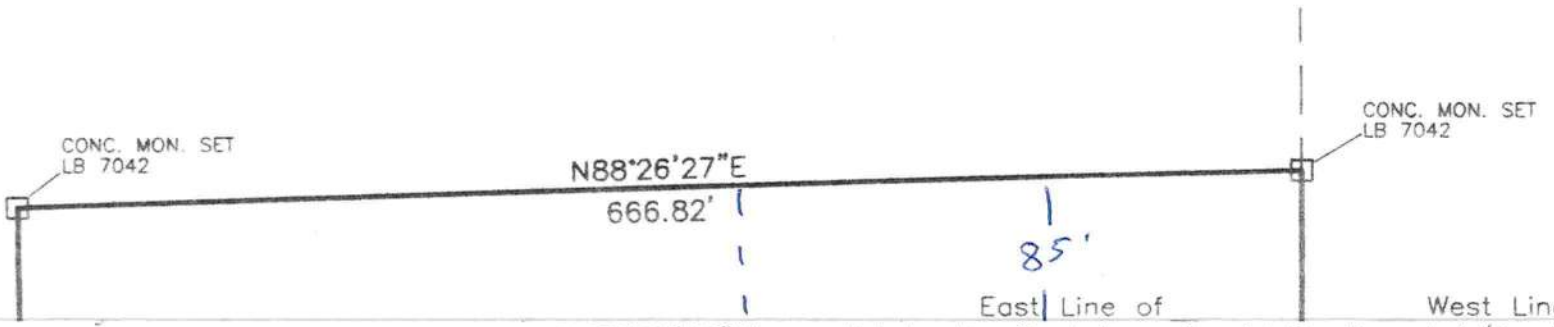
If you have any questions concerning this matter, please do not hesitate to contact me at 386.758.1007.

Sincerely,

Brian L. Kepner
Land Development Regulation Administrator,
County Planner

BOUNDARY SURVEY

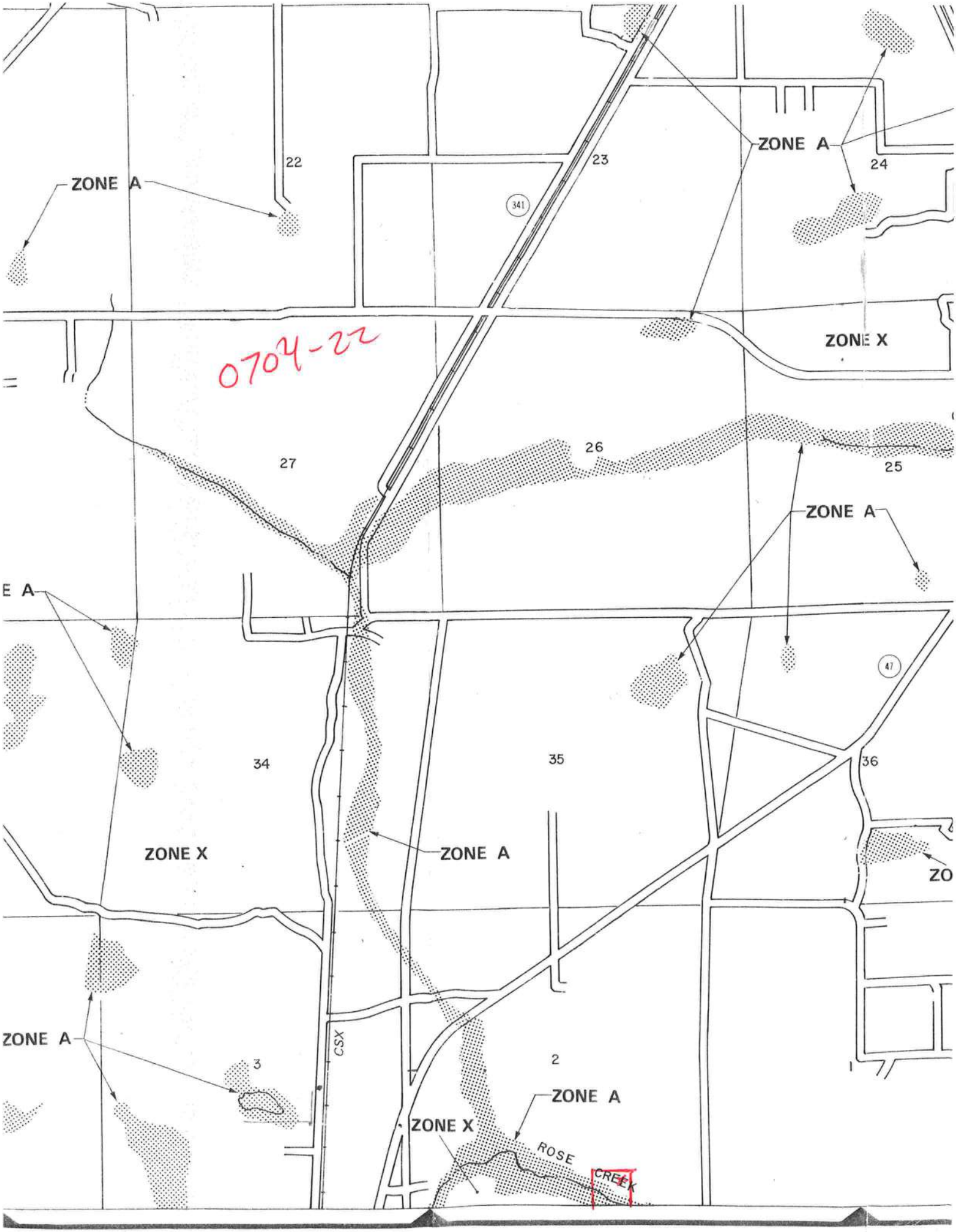
IN THE S.E. 1/4 OF SECTION 2
TOWNSHIP 5 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA



distance of 666.82 feet; thence N.00°17'12"W. parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N.88°26'27"E. parallel to the South line of said Section 2 a distance 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S.00°17'12"E along said East line 653.25 feet to the POINT OF BEGINNING. Containing 10.00 acres, more or less.

TOGETHER WITH: An Easement 30.00 feet in width, for ingress and egress lying 30.00 feet left (North) of and adjacent to the following described line: COMMENCE at the Southwest corner of the Southeast 1/4 of the Southeast 1/4 (being also the Southeast corner of the Southwest 1/4 of the Southeast 1/4) of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run N.00°17'12"W. along the West line of said Southeast 1/4 of the Southeast 1/4 a distance of 424.16 feet to the Northwest corner of the South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 and the POINT OF BEGINNING; thence N.88°26'55"E. along th North line of said South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 a distance of 1249.33 feet a point on the Westerly maintained Right-of-Way line of SW Walter Avenue and the TERMINAL POINT of herein described line and easement.

0704-22


ZONE A
ZONE A
ZONE A
ZONE X
0704-22
ZONE X
ZONE A
ZONE A
ZONE A
ZONE X
ZONE A
ZONE X
ROSE CREEK
CSX
22
23
24
25
26
27
34
35
36
2
3
341
47

FORM 600A-2004R Tested sealed ducts must be certified in this house. EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**RYE - SMITH RESIDENCE**	Builder:	**RYE CONSTRUCTION**
Address:		Permitting Office:	**COLUMBIA COUNTY**
City, State:	,	Permit Number:	25765
Owner:	**WALT & KRISSY SMITH**	Jurisdiction Number:	224000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 42.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. Central Unit	Cap: 24.0 kBtu/hr
5. Is this a worst case?	No		SEER: 13.00
6. Conditioned floor area (ft²)	3062 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble, U=0.9) 90.0 ft²	a. Electric Heat Pump	Cap: 42.0 kBtu/hr
b. SHGC:			HSPF: 8.50
(or Clear or Tint DEFAULT)	7b. (Clear) 339.0 ft²	b. Electric Heat Pump	Cap: 24.0 kBtu/hr
8. Floor types			HSPF: 8.30
a. Slab-On-Grade Edge Insulation	R=0.0, 200.5(p) ft	c. N/A	
b. Raised Wood, Adjacent	R=8.0, 1006.0ft²		
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 50.0 gallons
a. Frame, Wood, Exterior	R=13.0, 2908.0 ft²		EF: 0.93
b. Frame, Wood, Adjacent	R=13.0, 816.0 ft²	b. N/A	
c. N/A		c. Conservation credits	
d. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
e. N/A		15. HVAC credits	MZ-C, MZ-H
10. Ceiling types		(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 3062.0 ft²		
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 260.0 ft		
b. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 120.0 ft		

Glass/Floor Area: 0.11

Total as-built points: 36038
Total base points: 39680

PASS

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

PREPARED BY: Larry Resmondo a/c

DATE: March 5, 2007

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	3062.0	18.59	10246.0	1.Double,U=0.87,Clear	W	10.0	7.0	36.0	38.52	0.46	633.0	
				2.Double,U=1.45,Clear	W	10.0	8.0	24.0	37.46	0.48	429.0	
				3.Double,U=0.69,Clear	W	10.0	8.0	8.0	39.28	0.48	150.0	
				4.Double,U=0.87,Clear	W	1.5	7.0	18.0	38.52	0.94	651.0	
				5.Double,U=0.87,Clear	N	1.5	6.0	25.0	19.20	0.94	450.0	
				6.Double,U=0.87,Clear	E	10.0	7.0	90.0	42.06	0.44	1671.0	
				7.Double,U=0.87,Clear	E	7.5	7.0	24.0	42.06	0.50	504.0	
				8.Double,U=0.87,Clear	NE	8.0	7.0	18.0	29.56	0.56	295.0	
				9.Double,U=0.87,Clear	NE	8.0	7.0	18.0	29.56	0.56	295.0	
				10.Double,U=0.87,Clear	W	1.5	5.5	78.0	38.52	0.90	2695.0	
				As-Built Total:				**339.0**			**7773.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent Exterior	816.0	0.70	571.2	1. Frame, Wood, Exterior			13.0	2908.0	1.50		4362.0	
	2908.0	1.70	4943.6	2. Frame, Wood, Adjacent			13.0	816.0	0.60		489.6	
Base Total:	**3724.0**		**5514.8**	**As-Built Total:**				**3724.0**			**4851.6**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Wood				84.0	6.10		512.4	
Exterior	84.0	6.10	512.4									
Base Total:	**84.0**		**512.4**	**As-Built Total:**				**84.0**			**512.4**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	3062.0	1.73	5297.3	1. Under Attic			30.0	3062.0	1.73 X 1.00		5297.3	
Base Total:	**3062.0**		**5297.3**	**As-Built Total:**				**3062.0**			**5297.3**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	200.5(p)	-37.0	-7418.5	1. Slab-On-Grade Edge Insulation			0.0	200.5(p	-41.20		-8260.6	
Raised	1006.0	-3.99	-4013.9	2. Raised Wood, Adjacent			8.0	1006.0	0.77		779.6	
Base Total:			**-11432.4**	**As-Built Total:**				**1206.5**			**-7481.0**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	3062.0	10.21	31263.0					3062.0	10.21		31263.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 41401.0			**Summer As-Built Points:**					**42216.3**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 42000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			42216	0.64	(1.09 x 1.000 x 1.11)	0.260	0.950	8028.5
			(sys 2: Central Unit 24000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			42216	0.36	(1.09 x 1.000 x 1.11)	0.260	0.950	4587.7
41401.0	**0.3250**	**13455.3**	**42216.3**	**1.00**	**1.210**	**0.260**	**0.950**	**12616.2**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	3062.0	20.17	11117.0	1.Double,U=0.87,Clear	W	10.0	7.0	36.0	20.73	1.20	895.0	
				2.Double,U=1.45,Clear	W	10.0	8.0	24.0	32.55	1.19	930.0	
				3.Double,U=0.69,Clear	W	10.0	8.0	8.0	15.88	1.19	151.0	
				4.Double,U=0.87,Clear	W	1.5	7.0	18.0	20.73	1.02	379.0	
				5.Double,U=0.87,Clear	N	1.5	6.0	25.0	24.58	1.00	615.0	
				6.Double,U=0.87,Clear	E	10.0	7.0	90.0	18.79	1.38	2330.0	
				7.Double,U=0.87,Clear	E	7.5	7.0	24.0	18.79	1.31	588.0	
				8.Double,U=0.87,Clear	NE	8.0	7.0	18.0	23.57	1.05	444.0	
				9.Double,U=0.87,Clear	NE	8.0	7.0	18.0	23.57	1.05	444.0	
				10.Double,U=0.87,Clear	W	1.5	5.5	78.0	20.73	1.03	1662.0	
				As-Built Total:				**339.0**			**8438.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	816.0	3.60	2937.6	1. Frame, Wood, Exterior	13.0	2908.0	3.40	9887.2
Exterior	2908.0	3.70	10759.6	2. Frame, Wood, Adjacent	13.0	816.0	3.30	2692.8
Base Total:	**3724.0**		**13697.2**	**As-Built Total:**		**3724.0**		**12580.0**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Wood	84.0	12.30	1033.2
Exterior	84.0	12.30	1033.2				
Base Total:	**84.0**		**1033.2**	**As-Built Total:**	**84.0**		**1033.2**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	3062.0	2.05	6277.1	1. Under Attic	30.0	3062.0	2.05 X 1.00	6277.1
Base Total:	**3062.0**		**6277.1**	**As-Built Total:**		**3062.0**		**6277.1**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	200.5(p)	8.9	1784.4	1. Slab-On-Grade Edge Insulation	0.0	200.5(p	18.80	3769.4
Raised	1006.0	0.96	965.8	2. Raised Wood, Adjacent	8.0	1006.0	4.20	4225.2
Base Total:			**2750.2**	**As-Built Total:**		**1206.5**		**7994.6**

INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points
	3062.0	-0.59	-1806.6		3062.0	-0.59	-1806.6

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**33068.1**	**Winter As-Built Points:**					**34516.3**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 42000 btuh ,EFF(8.5) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
			34516.3	0.636	(1.069 x 1.000 x 1.10)	0.401	0.950	9843.7
			(sys 2: Electric Heat Pump 24000 btuh ,EFF(8.3) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
			34516.3	0.364	(1.069 x 1.000 x 1.10)	0.411	0.950	5760.5
33068.1	**0.5540**	**18319.7**	**34516.3**	**1.00**	**1.176**	**0.405**	**0.950**	**15602.2**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
WATER HEATING Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	50.0	0.93	3	1.00	2606.67	1.00	7820.0	
				As-Built Total:							**7820.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
13455	**18320**	**7905**	**39680**	**12616**	**15602**	**7820**	**36038**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.2

The higher the score, the more efficient the home.

WALT & KRISSY SMITH, , , ,

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	3062 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	7a. (Dble, U=0.9) 90.0 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 339.0 ft²	
8.	Floor types		
	a. Slab-On-Grade Edge Insulation	R=0.0, 200.5(p) ft	
	b. Raised Wood, Adjacent	R=8.0, 1006.0ft²	
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=13.0, 2908.0 ft²	
	b. Frame, Wood, Adjacent	R=13.0, 816.0 ft²	
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 3062.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts(Leak Free)		
	a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 260.0 ft	
	b. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 120.0 ft	

12.	Cooling systems		
	a. Central Unit	Cap: 42.0 kBtu/hr	
		SEER: 13.00	
	b. Central Unit	Cap: 24.0 kBtu/hr	
		SEER: 13.00	
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 42.0 kBtu/hr	
		HSPF: 8.50	
	b. Electric Heat Pump	Cap: 24.0 kBtu/hr	
		HSPF: 8.30	
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 50.0 gallons	
		EF: 0.93	
	b. N/A		
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	MZ-C, MZ-H	

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

Builder Signature: _____ Date: _____

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

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

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

RE: J0700223 -

Site Information:
Project Customer: RYE CONSTRUCTION Project Name: WALT SMITH RES
Lot/Block: Subdivision:
Address: WALTER RD
City: LAKE CITY 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: FBC2004/TPI2002 Design Program: MiTek 20/20 6.5
Wind Code: ASCE 7-02 Wind Speed: 120 mph Floor Load: 55.0 psf
Roof Load: 47.0 psf

This package includes 19 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	No.	Seal#	Truss Name	Date
1	T2501073	1A	3/16/07	18	T2501090	PB01	3/16/07
2	T2501074	1AA	3/16/07	19	T2501091	PB02	3/16/07
3	T2501075	1B	3/16/07				
4	T2501076	1BA	3/16/07				
5	T2501077	2A	3/16/07				
6	T2501078	2B	3/16/07				
7	T2501079	3A	3/16/07				
8	T2501080	3B	3/16/07				
9	T2501081	4A	3/16/07				
10	T2501082	4B	3/16/07				
11	T2501083	6A	3/16/07				
12	T2501084	6B	3/16/07				
13	T2501085	A01	3/16/07				
14	T2501086	A01A	3/16/07				
15	T2501087	A04	3/16/07				
16	T2501088	A06	3/16/07				
17	T2501089	FL	3/16/07				

The truss drawing(s) referenced above have been prepared by Robbins Engineering, Inc. under my direct supervision based on the parameters provided by HD Supply-Ocala, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2009.

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.

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

ORegan, Philip

6904 Parke East Boulevard
Tampa, FL 33610-4115
Phone: 813-972-1135 Fax: 813-971-6117
www.robbinseng.com

Job	Truss	Truss Type	Qty	Ply	T2501073
J0700223	1A	ROOF TRUSS	20	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:19 2007 Page 1

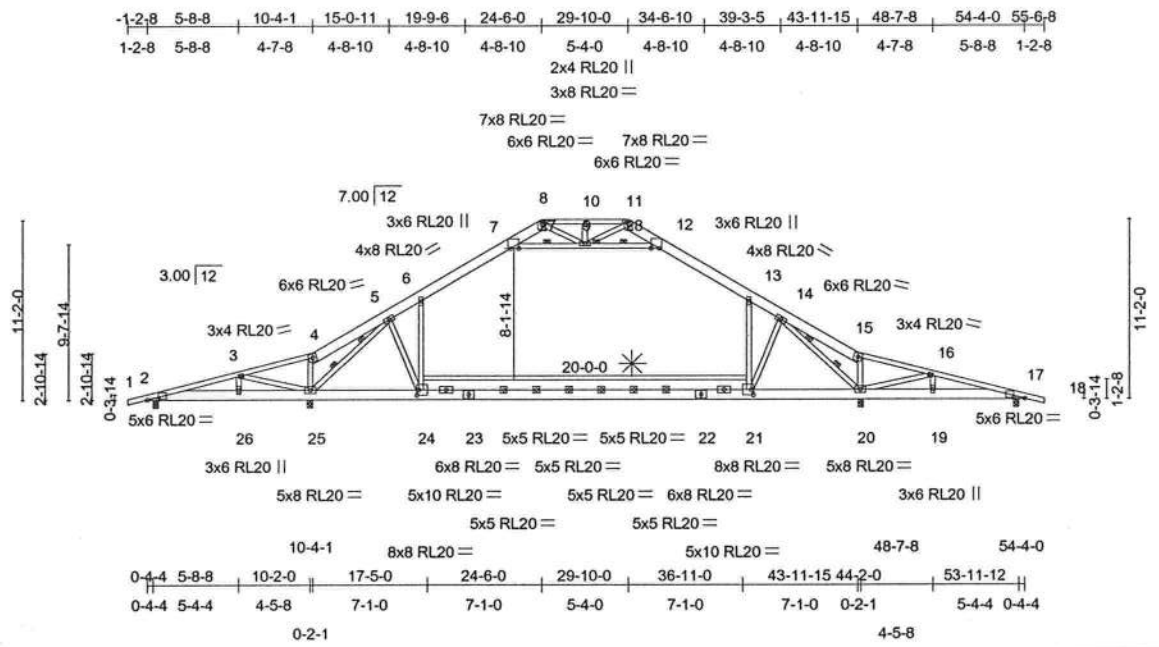


Plate Offsets (X,Y): [2:0-8-3,0-0-8], [7:0-5-14,0-0-3], [8:0-3-0,0-1-12], [11:0-3-0,0-1-12], [12:0-5-14,0-0-3], [17:0-8-3,0-0-8], [21:0-1-8,0-4-0], [24:0-1-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.76	21-24	>533	360	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-1.08	21-24	>378	180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.96	Horz(TL)	0.10	20	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 470 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D *Except* 4-8 2 X 8 SYP SS, 11-15 2 X 8 SYP SS
BOT CHORD 2 X 8 SYP SS ✳
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins. Except:
4-3-0 oc bracing: 7-9
4-7-0 oc bracing: 9-12
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.
WEBS 2 Rows at 1/3 pts 5-25, 14-20
JOINTS 1 Brace at Jt(s): 9

REACTIONS (lb/size) 25=3143/0-4-0, 20=3246/0-4-0, 2=150/0-4-0, 17=107/0-4-0
Max Horz 2=221(LC 4)
Max Uplift 25=-690(LC 5), 20=-683(LC 6), 2=-461(LC 3), 17=-452(LC 4)
Max Grav 25=3143(LC 1), 20=3246(LC 1), 2=172(LC 2), 17=172(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-126/1076, 3-4=-210/1430, 4-5=-135/1593, 5-6=-2646/555, 6-7=-2247/634, 7-8=-267/678, 8-10=-486/795, 10-11=-487/795, 11-12=-405/671, 12-13=-2283/629, 13-14=-2614/544, 14-15=-92/1593, 15-16=-180/1430, 16-17=-80/1030, 17-18=0/22, 7-27=-2031/426, 9-27=-2037/425, 9-28=-1872/412, 12-28=-1864/414
BOT CHORD 2-26=-950/41, 25-26=-950/41, 24-25=-277/1807, 23-24=-351/1964, 22-23=-339/2047, 21-22=-343/1965, 20-21=-324/1767, 19-20=-950/108, 17-19=-950/108
WEBS 3-26=0/180, 3-25=-745/342, 4-25=0/369, 5-25=-4287/573, 5-24=-172/657, 14-21=-152/766, 14-20=-4460/547, 15-20=0/358, 16-20=-734/335, 16-19=0/180, 6-24=0/858, 13-21=0/858, 9-10=-48/28, 8-9=-365/531, 9-11=-363/343

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Ceiling dead load (5.0 psf) on member(s). 6-7, 12-13, 7-9, 9-12
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-24
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 690 lb uplift at joint 25, 683 lb uplift at joint 20, 461 lb uplift at joint 2 and 452 lb uplift at joint 17.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501074
J0700223	1AA	ROOF TRUSS	6	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:21 2007 Page 1

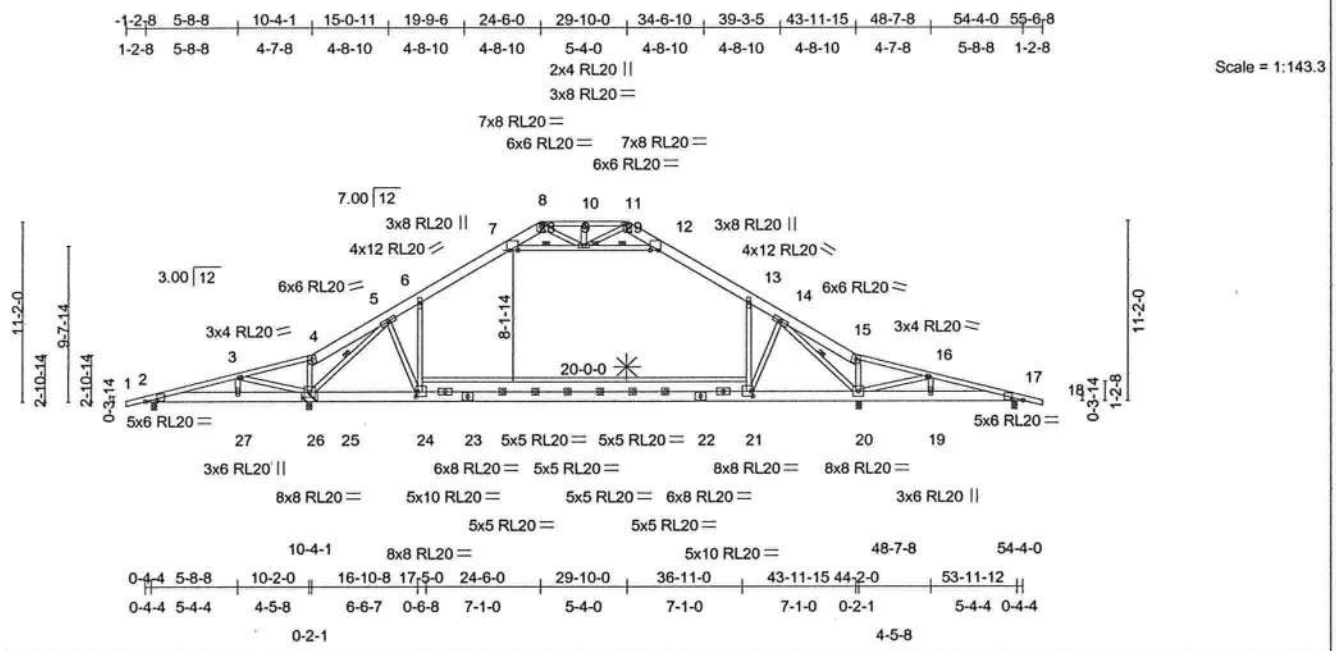


Plate Offsets (X,Y): [2:0-8-3,0-0-8], [7:0-5-14,0-0-3], [8:0-3-0,0-1-12], [11:0-3-0,0-1-12], [12:0-5-14,0-0-3], [17:0-8-3,0-0-8], [21:0-1-8,0-3-12], [24:0-1-8,0-3-12]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.78	Vert(LL) -0.77 21-24 >529 360	RL20 253/171
TCDL 7.0		Lumber Increase 1.25	BC 0.69	Vert(TL) -1.11 21-24 >369 180	
BCLL 10.0	*	Rep Stress Incr NO	WB 0.97	Horz(TL) 0.10 20 n/a n/a	
BCDL 10.0		Code FBC2004/TPI2002	(Matrix)		Weight: 474 lb

LUMBER
TOP CHORD 2 X 4 SYP No.2D *Except* 4-8 2 X 8 SYP SS, 11-15 2 X 8 SYP SS
BOT CHORD 2 X 8 SYP SS
WEBS 2 X 4 SYP No.3 *Except* 5-26 2 X 4 SYP No.2D, 14-20 2 X 4 SYP No.2D

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-1 oc purlins. Except: 4-2-0 oc bracing: 7-9, 4-4-0 oc bracing: 9-12
BOT CHORD Rigid ceiling directly applied or 4-8-6 oc bracing.
WEBS 1 Row at midpt 5-26, 14-20
JOINTS 1 Brace at Jt(s): 9

REACTIONS (lb/size) 26=3693/0-4-6 (0-4-0 + bearing block), 20=3268/0-4-0, 2=-17/0-4-0, 17=116/0-4-0
Max Horz 2=221(LC 4)
Max Uplift 26=-890(LC 5), 20=-684(LC 6), 2=-396(LC 3), 17=-473(LC 4)
Max Grav 26=3693(LC 1), 20=3268(LC 1), 2=99(LC 2), 17=181(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-407/1319, 3-4=-462/1932, 4-5=-445/2150, 5-6=-2803/624, 6-7=-2309/665, 7-8=-218/642, 8-10=-423/752, 10-11=-423/751, 11-12=-334/624, 12-13=-2355/663, 13-14=-2725/596, 14-15=-54/1659, 15-16=-146/1482, 16-17=-93/1112, 17-18=0/22, 7-28=-2160/492, 9-28=-2166/490, 9-29=-2040/492, 12-29=-2032/494
BOT CHORD 2-27=-1276/206, 26-27=-1276/206, 25-26=-305/1823, 24-25=-305/1823, 23-24=-403/2043, 22-23=-392/2124, 21-22=-394/2040, 20-21=-386/1848, 19-20=-1008/81, 17-19=-1008/81
WEBS 3-27=0/190, 3-26=-771/322, 4-26=0/447, 5-26=-5292/913, 5-24=-238/825, 14-21=-131/756, 14-20=-4602/560, 15-20=0/387, 16-20=-803/335, 16-19=0/200, 6-24=-14/938, 13-21=0/887, 9-10=-53/32, 8-9=-359/517, 9-11=-380/375

NOTES
1) 2 X 8 SYP SS bearing block 12" long at jt. 26 attached to front face with 4 rows of 10d (0.148"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SYP.
2) This truss has been checked for uniform roof live load only, except as noted.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Ceiling dead load (5.0 psf) on member(s). 6-7, 12-13, 7-9, 9-12
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-24
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 890 lb uplift at joint 26, 684 lb uplift at joint 20, 396 lb uplift at joint 2 and 473 lb uplift at joint 17.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 415 lb down and 201 lb up at 16-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	T2501074
J0700223	1AA	ROOF TRUSS	6	1	Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 6-7=-64, 7-8=-54, 8-11=-54, 11-12=-94, 12-13=-64, 13-15=-54, 15-18=-54, 2-24=-20, 23-24=-100, 22-23=-100, 21-22=-100, 17-21=-20, 7-29=-64, 12-29=-104

Concentrated Loads (lb)

Vert: 24=-415(F)

Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501075
J0700223	1B	GABLE	1	1	Job Reference (optional)

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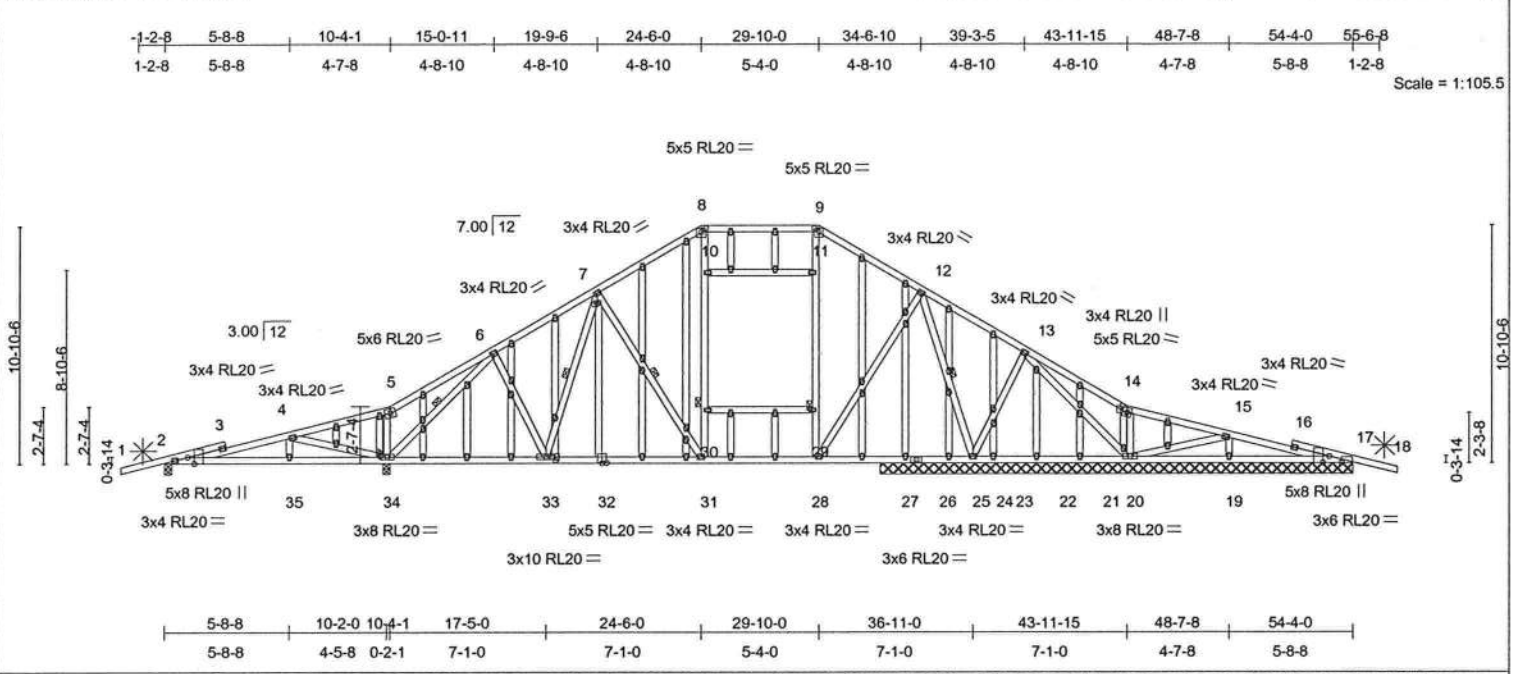


Plate Offsets (X,Y): [2:0-3-8,Edge], [7:0-1-12,0-0-4], [8:0-2-8,0-2-1], [9:0-2-8,0-2-1], [14:0-3-15,0-2-7], [17:0-6-12,Edge], [17:0-3-8,Edge], [32:0-2-8,0-0-4], [34:0-2-0,0-0-5], [52:0-2-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.39	Vert(LL)	0.12	31-33	>999	360	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.27	31-33	>999	180		
BCLL 10.0	*	Rep Stress Incr	NO	WB	0.53	Horz(TL)	0.05	20	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 471 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Except: 9-10-0 oc bracing: 10-11
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,17-19.
WEBS 1 Row at midpt 6-34, 7-33, 7-31, 12-24
JOINTS 1 Brace at Jt(s): 30, 29

REACTIONS (lb/size) 2=338/0-4-0, 17=301/21-8-0, 34=1770/0-4-0, 24=407/21-8-0, 20=776/21-8-0, 19=552/21-8-0, 27=3/21-8-0, 25=70/21-8-0, 23=38/21-8-0, 22=42/21-8-0, 21=37/21-8-0
Max Horz 2=219(LC 4)
Max Uplift 2=-359(LC 3), 17=-251(LC 4), 34=-587(LC 5), 24=-579(LC 3), 20=-292(LC 5), 19=-241(LC 4), 27=-21(LC 3), 25=-24(LC 4)
Max Grav 2=338(LC 1), 17=301(LC 1), 34=1770(LC 1), 24=407(LC 1), 20=776(LC 1), 19=552(LC 1), 27=97(LC 2), 25=70(LC 1), 23=66(LC 2), 22=86(LC 2), 21=70(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-182/468, 3-4=-176/479, 4-5=-311/677, 5-6=-270/776, 6-7=-1055/386, 7-8=-1025/423, 8-9=-836/419, 9-12=-1005/434, 12-13=-858/484, 13-14=-387/226, 14-15=-298/161, 15-16=-97/61, 16-17=-102/22, 17-18=0/25, 10-11=-5/16
BOT CHORD 2-35=-179/88, 34-35=-179/88, 33-34=-187/721, 32-33=-194/900, 31-32=-194/900, 28-31=-147/821, 27-28=-192/790, 26-27=-192/790, 25-26=-192/790, 24-25=-192/790, 23-24=-206/708, 22-23=-206/708, 21-22=-206/708, 20-21=-206/708, 19-20=-22/126, 17-19=-22/126, 29-30=-1/2
WEBS 4-35=0/88, 4-34=-722/448, 5-34=-69/148, 6-34=-1933/600, 6-33=0/327, 7-33=-141/69, 7-31=-148/214, 30-31=-100/205, 10-30=-75/270, 8-10=-75/270, 28-29=-108/201, 11-29=-83/226, 9-11=-83/226, 12-28=-126/143, 12-24=-374/384, 13-24=-134/218, 13-20=-617/260, 14-20=-341/215, 15-20=-65/290, 15-19=-434/293

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 RL20 unless otherwise indicated.
7) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2, 251 lb uplift at joint 17, 587 lb uplift at joint 34, 579 lb uplift at joint 24, 292 lb uplift at joint 20, 241 lb uplift at joint 19, 21 lb uplift at joint 27 and 24 lb uplift at joint 25.

Continued on page 2

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501075
J0700223	1B	GABLE	1	1	Job Reference (optional)

NOTES

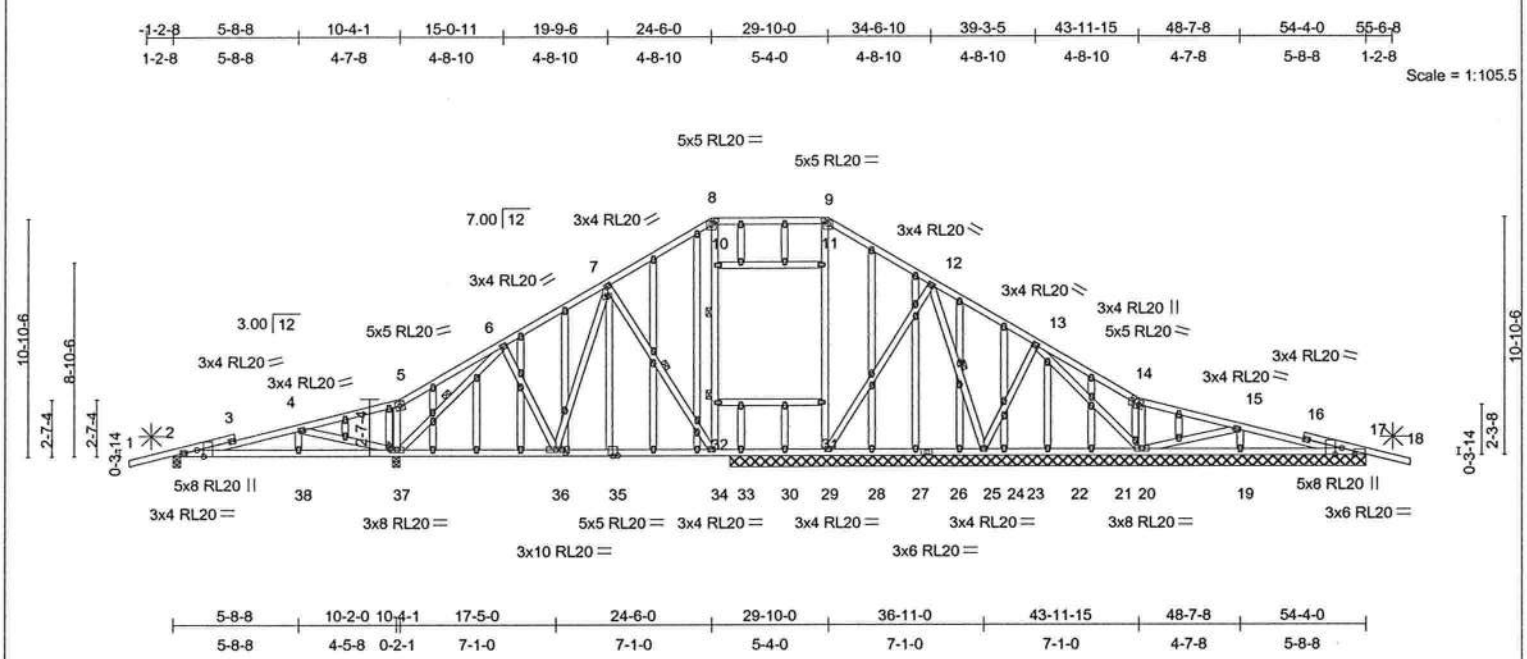
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501076
J0700223	1BA	GABLE	1	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:27 2007 Page 1



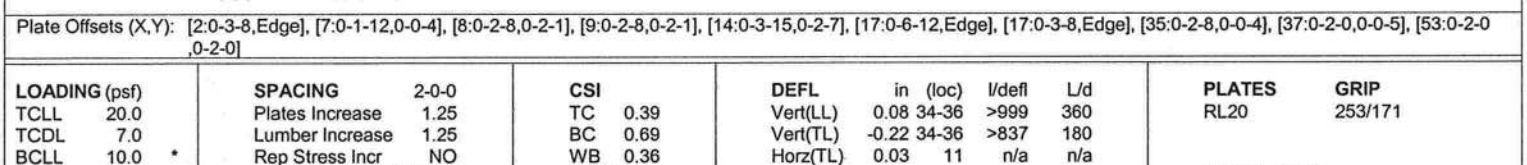


Plate Offsets (X,Y): [2:0-3-8,Edge], [7:0-1-12,0-0-4], [8:0-2-8,0-2-1], [9:0-2-8,0-2-1], [14:0-3-15,0-2-7], [17:0-6-12,Edge], [17:0-3-8,Edge], [35:0-2-8,0-0-4], [37:0-2-0,0-0-5], [53:0-2-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.39	Vert(LL)	0.08	34-36	>999	360	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.22	34-36	>837	180		
BCLL 10.0	*	Rep Stress Incr	NO	WB	0.36	Horz(TL)	0.03	11	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 471 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Except: 6-0-0 oc bracing: 10-11
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,17-19.
WEBS 1 Row at midpt 6-37, 7-34, 8-32, 12-24
JOINTS 1 Brace at Jt(s): 32

REACTIONS (lb/size) 2=375/0-4-0, 17=291/29-0-0, 37=1387/0-4-0, 29=47/29-0-0, 24=551/29-0-0, 20=506/29-0-0, 19=479/29-0-0, 30=-237/29-0-0, 33=598/29-0-0, 28=24/29-0-0, 27=46/29-0-0, 25=33/29-0-0, 23=33/29-0-0, 22=42/29-0-0, 21=37/29-0-0, 11=71/29-0-0, 31=50/29-0-0
Max Horz 2=219(LC 4)
Max Uplift 2=-330(LC 3), 17=-245(LC 4), 37=-462(LC 5), 29=-125(LC 6), 24=-268(LC 6), 20=-230(LC 6), 19=-199(LC 4), 30=-237(LC 1), 33=-205(LC 5), 11=-203(LC 3)
Max Grav 2=375(LC 1), 17=291(LC 1), 37=1387(LC 1), 29=83(LC 4), 24=551(LC 1), 20=506(LC 1), 19=479(LC 1), 30=107(LC 5), 33=598(LC 1), 28=74(LC 2), 27=84(LC 2), 25=69(LC 2), 23=66(LC 2), 22=86(LC 2), 21=70(LC 2), 11=71(LC 1), 31=101(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-282/329, 3-4=-258/340, 4-5=-237/520, 5-6=-168/600, 6-7=-676/279, 7-8=-512/270, 8-9=-381/284, 9-12=-504/288, 12-13=-321/178, 13-14=-163/96, 14-15=-103/48, 15-16=-56/114, 16-17=-61/75, 17-18=0/25, 10-11=-5/10
BOT CHORD 2-38=-113/252, 37-38=-113/252, 36-37=-139/464, 35-36=-119/520, 34-35=-119/520, 33-34=-57/384, 30-33=-57/384, 29-30=-57/384, 28-29=-4/342, 27-28=-4/342, 26-27=-4/342, 25-26=-4/342, 24-25=-4/342, 23-24=0/283, 22-23=0/283, 21-22=0/283, 20-21=0/283, 19-20=-74/97, 17-19=-74/97, 31-32=-0/1
WEBS 4-38=0/90, 4-37=-750/434, 5-37=-114/169, 6-37=-1341/396, 6-36=-30/158, 7-36=-29/120, 7-34=-255/248, 32-34=-81/81, 10-32=-31/107, 8-10=-31/107, 29-31=0/0, 11-31=0/0, 9-11=-71/203, 12-29=-99/164, 12-24=-422/125, 13-24=-150/210, 13-20=-283/72, 14-20=-276/220, 15-20=0/148, 15-19=-362/252

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 RL20 unless otherwise indicated.
7) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
8) Gable studs spaced at 2-0-0 oc.

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Continued on page 2

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501076
J0700223	1BA	GABLE	1	1	Job Reference (optional)

NOTES

9) Bearing at joint(s) 11, 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 330 lb uplift at joint 2, 245 lb uplift at joint 17, 462 lb uplift at joint 37, 125 lb uplift at joint 29, 268 lb uplift at joint 24, 230 lb uplift at joint 20, 199 lb uplift at joint 19, 237 lb uplift at joint 30, 205 lb uplift at joint 33 and 203 lb uplift at joint 11.

11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
J0700223	2A	ROOF TRUSS	5	1	T2501077

Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:28 2007 Page 1

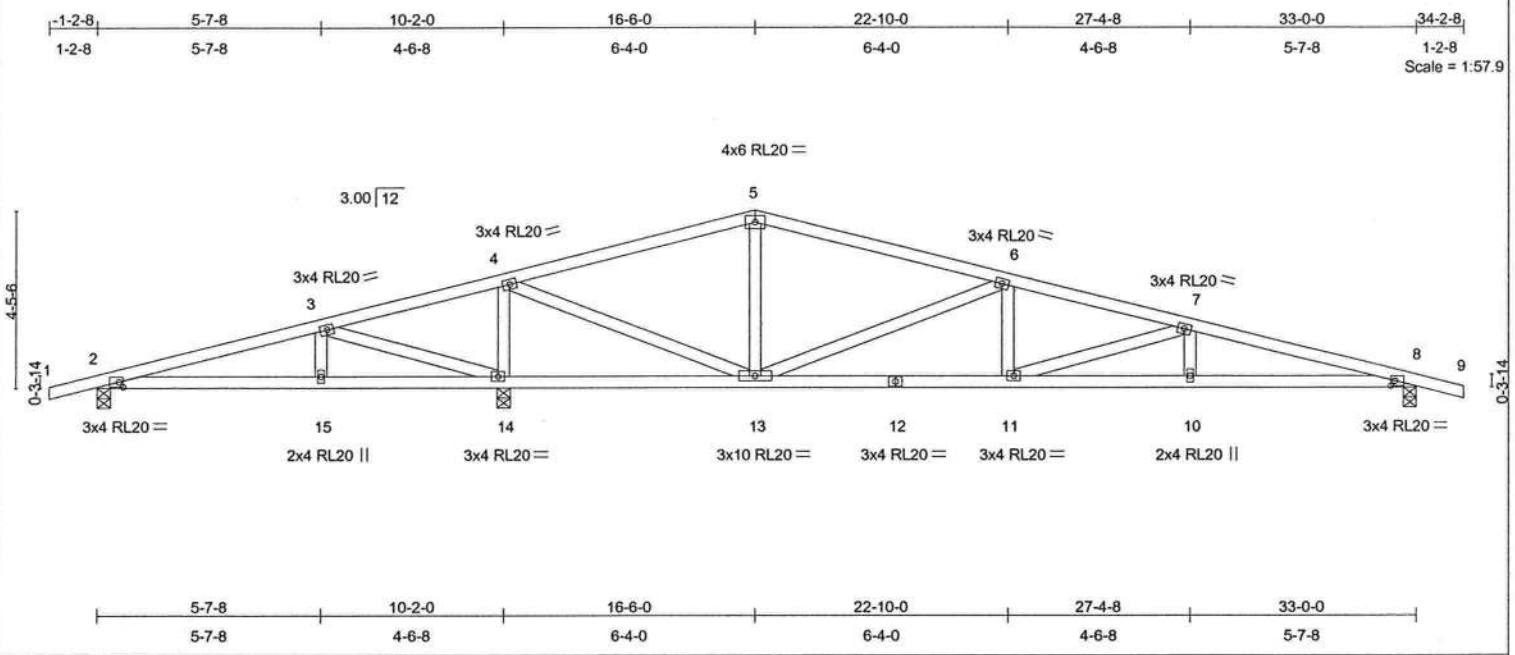


Plate Offsets (X,Y): [2:0-1-4,0-1-8], [8:0-1-4,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	0.11	10-11	>999	360	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.23	10-11	>999	180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 152 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=185/0-4-0, 14=1582/0-4-0, 8=799/0-4-0
Max Horz 2=-79(LC 4)
Max Uplift2=-152(LC 3), 14=-463(LC 5), 8=-347(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-119/309, 3-4=-224/1000, 4-5=-579/261, 5-6=-578/252, 6-7=-1499/575, 7-8=-2117/755, 8-9=0/15
BOT CHORD 2-15=-261/217, 14-15=-261/217, 13-14=-939/353, 12-13=-446/1428, 11-12=-446/1428, 10-11=-672/2012, 8-10=-672/2012
WEBS 3-15=0/203, 3-14=-711/269, 4-14=-1253/433, 4-13=-452/1578, 5-13=-97/122, 6-13=-976/412, 6-11=-20/356, 7-11=-612/238, 7-10=0/194

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2, 463 lb uplift at joint 14 and 347 lb uplift at joint 8.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501078
J0700223	2B	ROOF TRUSS	1	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:30 2007 Page 1

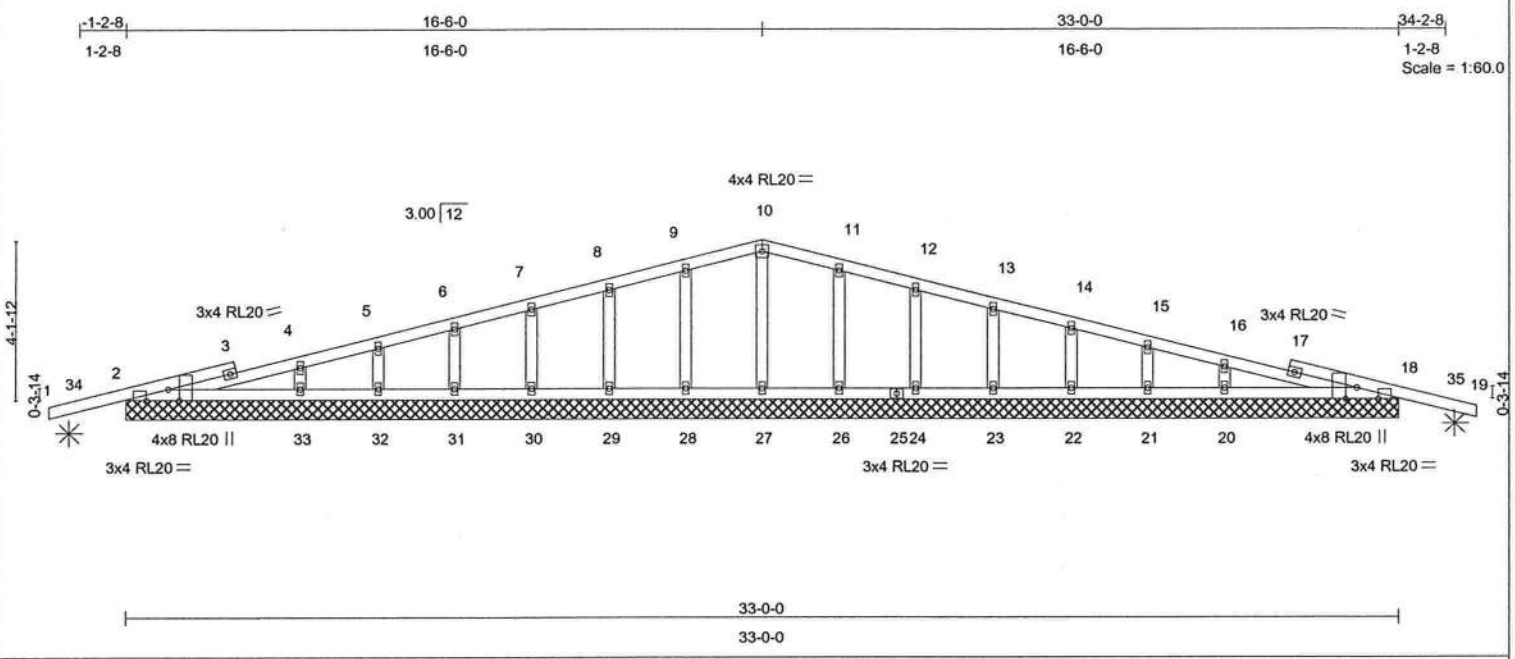


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-6-12,Edge], [18:0-3-8,Edge], [18:0-6-12,Edge]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.28	Vert(LL)	0.00	19	n/r	180	RL20	253/171
TCDL 7.0		Lumber Increase 1.25	BC 0.10	Vert(TL)	0.00	19	n/r	120		
BCLL 10.0	*	Rep Stress Incr NO	WB 0.05	Horz(TL)	0.00	18	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002	(Matrix)						Weight: 149 lb	

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

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

REACTIONS (lb/size) 2=277/33-0-0, 18=277/33-0-0, 27=154/33-0-0, 28=148/33-0-0, 29=149/33-0-0, 30=145/33-0-0, 31=160/33-0-0, 32=101/33-0-0, 33=272/33-0-0, 26=148/33-0-0, 24=149/33-0-0, 23=145/33-0-0, 22=160/33-0-0, 21=101/33-0-0, 20=272/33-0-0
Max Horz 2=-83(LC 4)
Max Uplift2=-188(LC 5), 18=-194(LC 6), 28=-61(LC 3), 29=-62(LC 5), 30=-61(LC 3), 31=-61(LC 5), 32=-62(LC 3), 33=-70(LC 5), 26=-61(LC 4), 24=-62(LC 6), 23=-61(LC 4), 22=-61(LC 6), 21=-60(LC 4), 20=-73(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-34=0/10, 2-34=0/25, 2-3=-68/29, 3-4=-65/42, 4-5=-35/57, 5-6=-13/70, 6-7=0/86, 7-8=0/101, 8-9=0/117, 9-10=0/132, 10-11=0/129, 11-12=0/105, 12-13=0/81, 13-14=0/58, 14-15=0/33, 15-16=-4/22, 16-17=-24/42, 17-18=-28/14, 18-35=0/25, 19-35=0/10
BOT CHORD 2-33=-14/75, 32-33=-14/75, 31-32=-14/75, 30-31=-14/75, 29-30=-14/75, 28-29=-14/75, 27-28=-14/75, 26-27=-14/75, 25-26=-14/75, 24-25=-14/75, 23-24=-14/75, 22-23=-14/75, 21-22=-14/75, 20-21=-14/75, 18-20=-14/75
WEBS 10-27=-114/20, 9-28=-108/81, 8-29=-108/82, 7-30=-106/81, 6-31=-115/84, 5-32=-79/72, 4-33=-192/111, 11-26=-108/81, 12-24=-108/82, 13-23=-106/80, 14-22=-115/84, 15-21=-79/71, 16-20=-192/115

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 RL20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2, 194 lb uplift at joint 18, 61 lb uplift at joint 28, 62 lb uplift at joint 29, 61 lb uplift at joint 30, 61 lb uplift at joint 31, 62 lb uplift at joint 32, 70 lb uplift at joint 33, 61 lb uplift at joint 26, 62 lb uplift at joint 24, 61 lb uplift at joint 23, 61 lb uplift at joint 22, 60 lb uplift at joint 21 and 73 lb uplift at joint 20.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
J0700223	3A	ROOF TRUSS	11	1	T2501079

Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:33 2007 Page 1

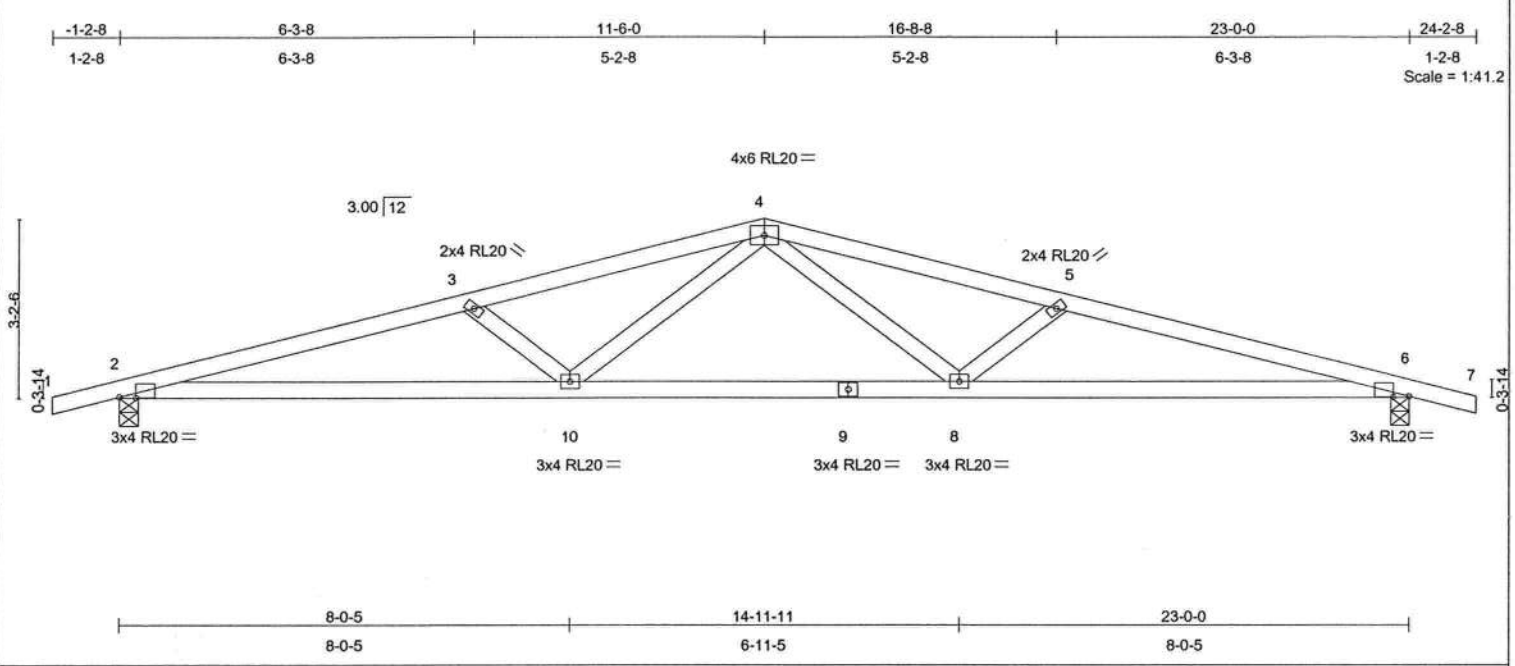


Plate Offsets (X,Y): [2:0-3-8,0-0-2], [6:0-3-8,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.15	8-10	>999	360	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.36	2-10	>752	180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.08	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 93 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-5-0 oc bracing.

REACTIONS (lb/size) 2=913/0-4-0, 6=913/0-4-0
Max Horz 2=-59(LC 4)
Max Uplift2=-351(LC 5), 6=-351(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-2498/791, 3-4=-2209/645, 4-5=-2209/645, 5-6=-2498/792, 6-7=0/15
BOT CHORD 2-10=-756/2381, 9-10=-433/1649, 8-9=-433/1649, 6-8=-705/2381
WEBS 3-10=-353/269, 4-10=-154/598, 4-8=-154/598, 5-8=-353/269

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 351 lb uplift at joint 6.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
J0700223	3B	ROOF TRUSS	1	1	T2501080

Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:34 2007 Page 1

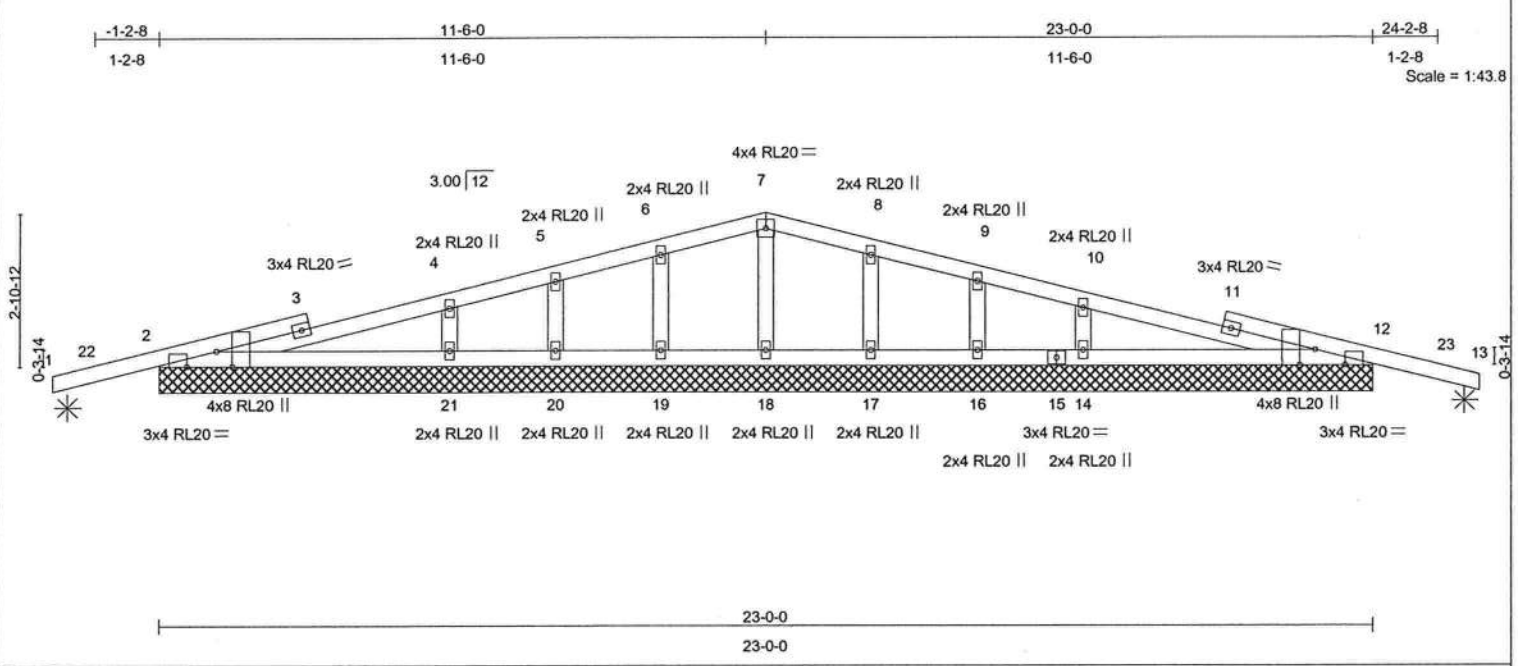


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-6-12,Edge], [12:0-3-8,Edge], [12:0-6-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	0.01	13	n/r	180	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	0.01	13	n/r	120		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 96 lb	

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

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

REACTIONS (lb/size) 2=287/23-0-0, 12=287/23-0-0, 18=175/23-0-0, 19=176/23-0-0, 20=47/23-0-0, 21=362/23-0-0, 17=176/23-0-0, 16=47/23-0-0, 14=362/23-0-0
Max Horz 2=-62(LC 4)
Max Uplift2=-193(LC 5), 12=-198(LC 4), 18=-25(LC 5), 19=-68(LC 3), 20=-41(LC 3), 21=-112(LC 5), 17=-67(LC 4), 16=-40(LC 6), 14=-114(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=0/10, 2-22=0/25, 2-3=-65/84, 3-4=-59/121, 4-5=-17/86, 5-6=-1/102, 6-7=0/98, 7-8=0/98, 8-9=0/102, 9-10=0/86, 10-11=-30/121, 11-12=-36/84, 12-23=0/25, 13-23=0/10
BOT CHORD 2-21=-83/85, 20-21=-83/85, 19-20=-83/85, 18-19=-83/85, 17-18=-83/85, 16-17=-83/85, 15-16=-83/85, 14-15=-83/85, 12-14=-83/85
WEBS 7-18=-140/44, 6-19=-126/91, 5-20=-43/49, 4-21=-252/156, 8-17=-126/91, 9-16=-43/48, 10-14=-252/158

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2, 198 lb uplift at joint 12, 25 lb uplift at joint 18, 68 lb uplift at joint 19, 41 lb uplift at joint 20, 112 lb uplift at joint 21, 67 lb uplift at joint 17, 40 lb uplift at joint 16 and 114 lb uplift at joint 14.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
J0700223	4A	ROOF TRUSS	1	1	T2501081

Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:35 2007 Page 1

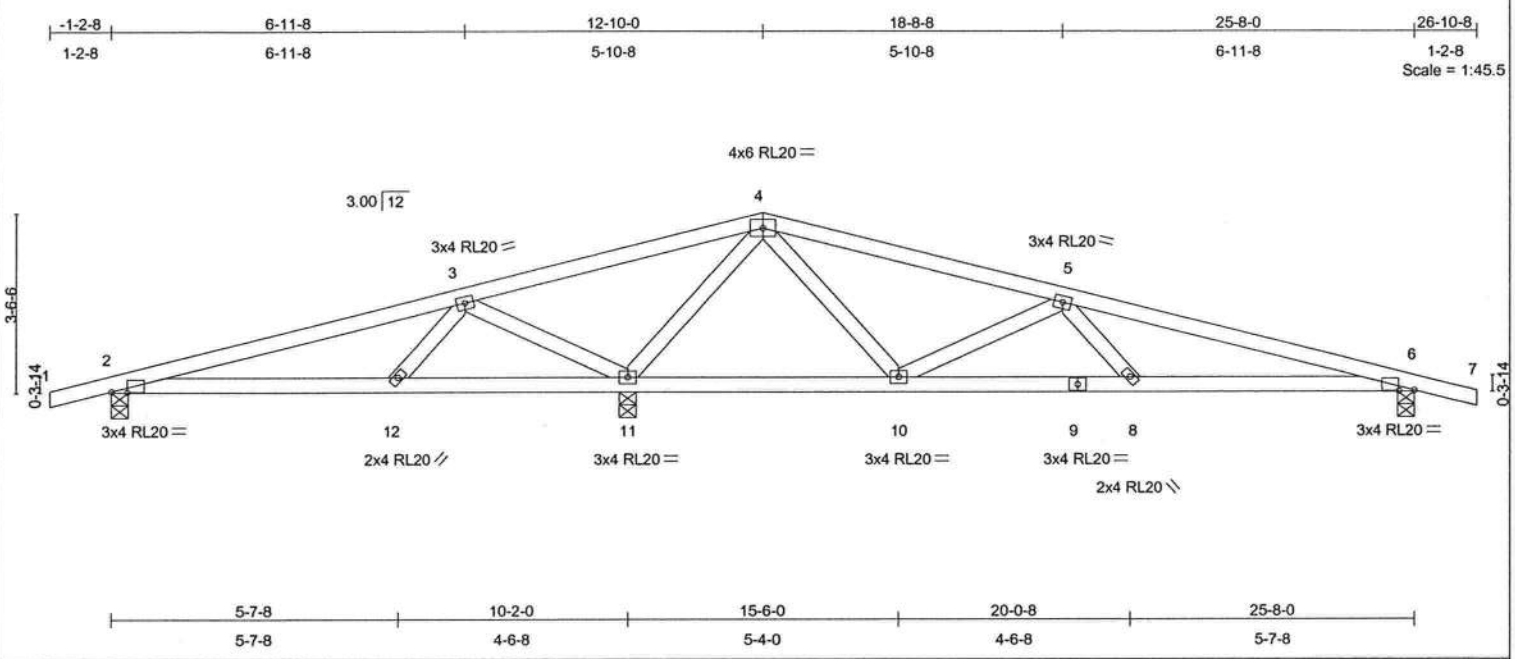


Plate Offsets (X,Y): [2:0-3-12,0-0-2], [6:0-3-12,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.04	6-8	>999	360	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.10	6-8	>999	180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 110 lb	

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

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

REACTIONS (lb/size) 2=245/0-4-0, 11=1266/0-4-0, 6=512/0-4-0
Max Horz 2=-64(LC 4)
Max Uplift2=-172(LC 3), 11=-353(LC 5), 6=-256(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-87/151, 3-4=-186/859, 4-5=-277/170, 5-6=-974/367, 6-7=0/15
BOT CHORD 2-12=-98/174, 11-12=-234/142, 10-11=-129/71, 9-10=-322/796, 8-9=-322/796, 6-8=-291/901
WEBS 3-12=0/281, 3-11=-676/349, 4-11=-1090/363, 4-10=-144/525, 5-10=-648/341, 5-8=0/277

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2, 353 lb uplift at joint 11 and 256 lb uplift at joint 6.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
J0700223	4B	ROOF TRUSS	1	1	T2501082

Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:36 2007 Page 1

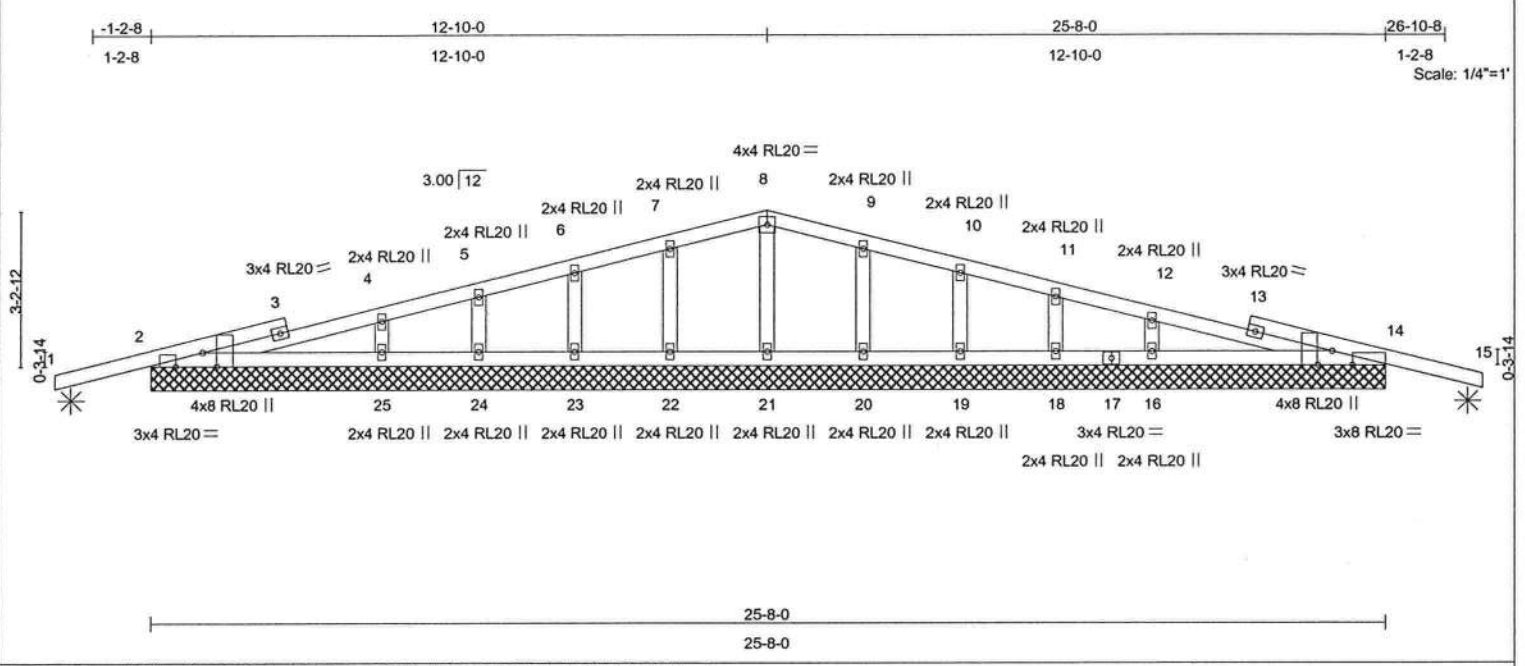


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-6-12,Edge], [14:0-3-8,Edge], [14:0-5-0,Edge]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.28	Vert(LL)	0.00	15	n/r	180	RL20	253/171
TCDL 7.0		Lumber Increase 1.25	BC 0.12	Vert(TL)	0.01	15	n/r	120		
BCLL 10.0	*	Rep Stress Incr NO	WB 0.05	Horz(TL)	0.00	14	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002	(Matrix)						Weight: 110 lb	

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

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

REACTIONS (lb/size) 2=281/25-8-0, 14=281/25-8-0, 21=165/25-8-0, 22=145/25-8-0, 23=164/25-8-0, 24=85/25-8-0, 25=301/25-8-0, 20=145/25-8-0, 19=164/25-8-0, 18=85/25-8-0, 16=301/25-8-0
Max Horz 2=-68(LC 4)
Max Uplift 2=-192(LC 5), 14=-197(LC 6), 21=-13(LC 5), 22=-62(LC 3), 23=-63(LC 5), 24=-55(LC 3), 25=-85(LC 5), 20=-61(LC 4), 19=-63(LC 6), 18=-54(LC 4), 16=-87(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-54/34, 3-4=-50/65, 4-5=-16/52, 5-6=0/63, 6-7=0/80, 7-8=0/94, 8-9=0/91, 9-10=0/67, 10-11=0/49, 11-12=0/40, 12-13=-17/65, 13-14=-21/34, 14-15=0/25
BOT CHORD 2-25=-33/68, 24-25=-33/68, 23-24=-33/68, 22-23=-33/68, 21-22=-33/68, 20-21=-33/68, 19-20=-33/68, 18-19=-33/68, 17-18=-33/68, 16-17=-33/68, 14-16=-33/68
WEBS 8-21=-124/34, 7-22=-106/81, 6-23=-118/85, 5-24=-68/65, 4-25=-211/127, 9-20=-106/81, 10-19=-118/86, 11-18=-68/64, 12-16=-211/129

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2, 197 lb uplift at joint 14, 13 lb uplift at joint 21, 62 lb uplift at joint 22, 63 lb uplift at joint 23, 55 lb uplift at joint 24, 85 lb uplift at joint 25, 61 lb uplift at joint 20, 63 lb uplift at joint 19, 54 lb uplift at joint 18 and 87 lb uplift at joint 16.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

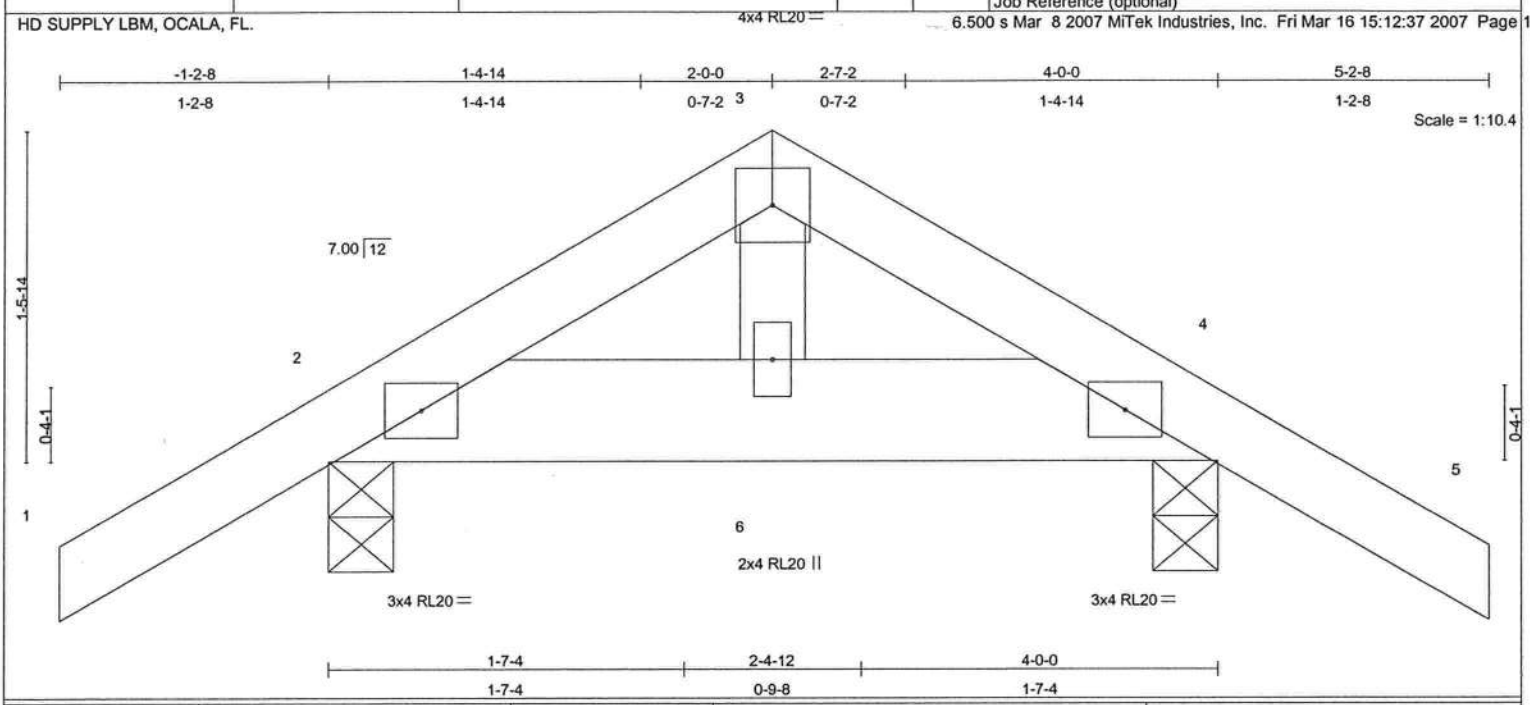
March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
J0700223	6A	COMMON	3	1	T2501083

Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:37 2007 Page 1



LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.17	Vert(LL)	-0.00	6	>999	360	RL20	253/171
TCDL	7.0		Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.01	6	>999	180		
BCLL	10.0	*	Rep Stress Incr	NO	WB	0.17	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 22 lb	

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

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

REACTIONS (lb/size) 2=512/0-3-8, 4=512/0-3-8
Max Horz 2=-46(LC 6)
Max Uplift2=-246(LC 5), 4=-246(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-612/190, 3-4=-612/192, 4-5=0/37
BOT CHORD 2-6=-113/491, 4-6=-113/491
WEBS 3-6=-174/544

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 2 and 246 lb uplift at joint 4.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 604 lb down and 226 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-4=-20, 1-3=-54, 3-5=-54
Concentrated Loads (lb)
Vert: 6=-604(F)

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501084
J0700223	6B	COMMON	18	1	Job Reference (optional)

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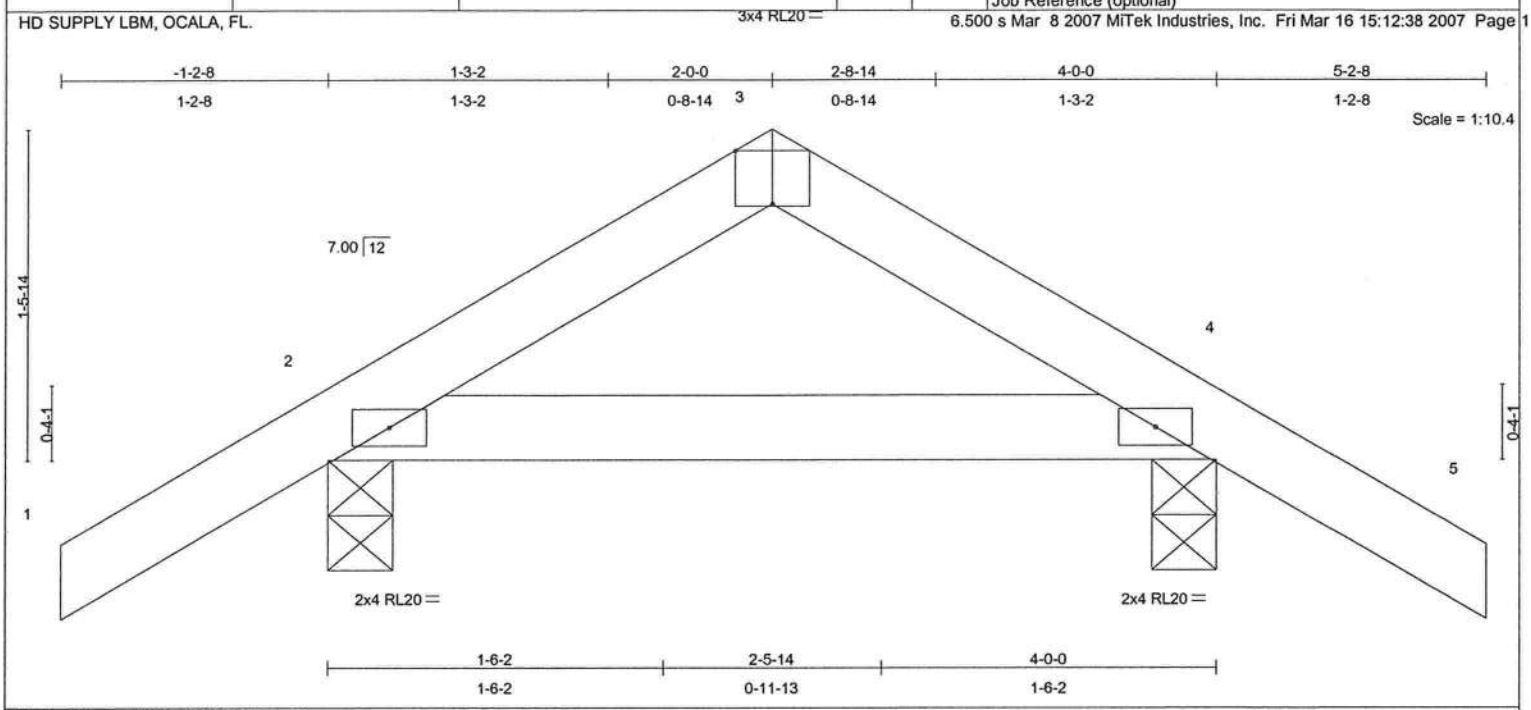

Plate Offsets (X,Y): [3:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC 0.16		Vert(LL)	-0.01	2-4	>999	360	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC 0.12		Vert(TL)	-0.02	2-4	>999	180		
BCLL 10.0	*	Rep Stress Incr	NO	WB 0.00		Horz(TL)	0.00	4	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 17 lb	

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

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

REACTIONS (lb/size) 2=210/0-3-8, 4=210/0-3-8
Max Horz 2=-44(LC 3)
Max Uplift2=-132(LC 5), 4=-132(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-81/25, 3-4=-81/25, 4-5=0/34
BOT CHORD 2-4=0/71

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2 and 132 lb uplift at joint 4.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501085
J0700223	A01	ROOF TRUSS	2	1	Job Reference (optional)

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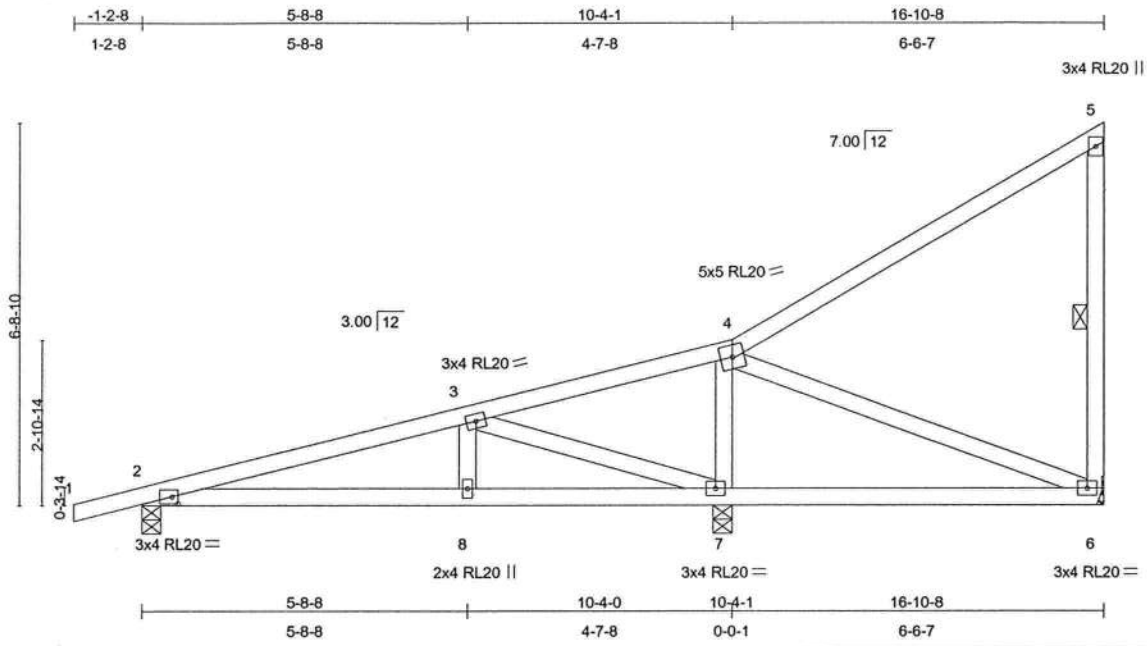

Plate Offsets (X,Y): [2:0-1-4,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.50	Vert(LL)	-0.04	6-7	>999	360	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.09	6-7	>872	180		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.01	7	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 85 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-6

REACTIONS (lb/size) 6=110/Mechanical, 2=364/0-4-0, 7=826/0-4-0
Max Horz 2=309(LC 5)
Max Uplift 6=-115(LC 5), 2=-228(LC 3), 7=-276(LC 5)
Max Grav 6=133(LC 3), 2=364(LC 1), 7=826(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-440/172, 3-4=-235/291, 4-5=-123/50, 5-6=-146/149
BOT CHORD 2-8=-249/390, 7-8=-249/390, 6-7=-222/147
WEBS 3-8=0/193, 3-7=-673/425, 4-7=-504/266, 4-6=-147/268

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 6, 228 lb uplift at joint 2 and 276 lb uplift at joint 7.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501086
J0700223	A01A	ROOF TRUSS	1	1	Job Reference (optional)

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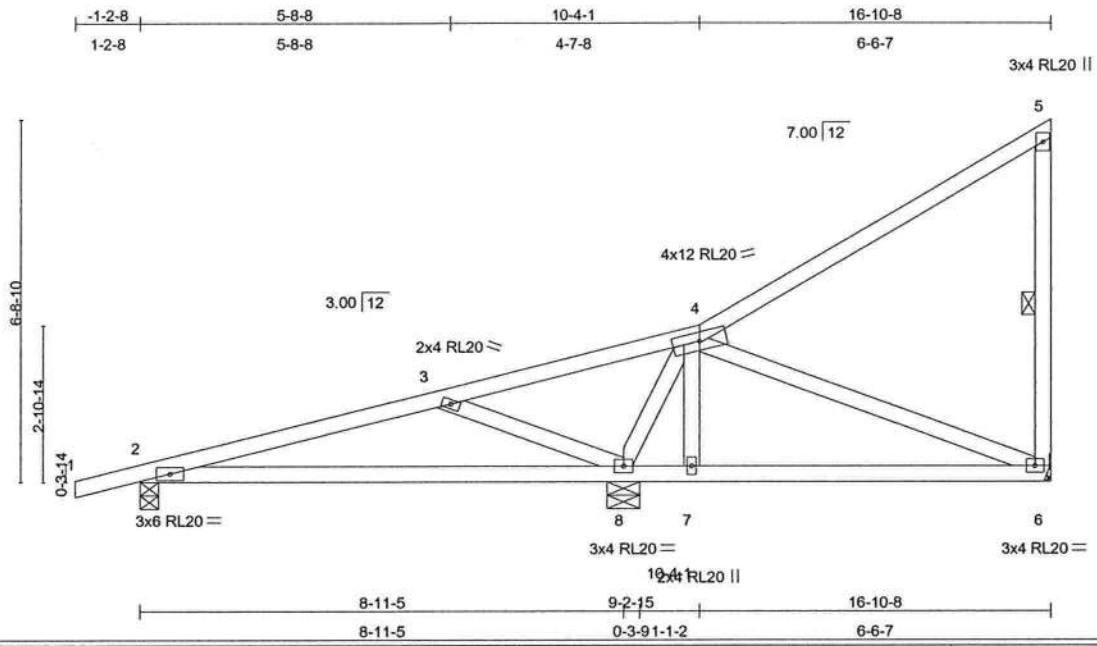

LOADING (psf)			SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.50	Vert(LL)	-0.10	2-8	>999	360	RL20	253/171
TCDL	7.0		Lumber Increase	1.25	BC	0.44	Vert(TL)	-0.26	2-8	>410	180		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.18	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 86 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-6

REACTIONS (lb/size) 6=195/Mechanical, 2=323/0-4-0, 8=782/0-7-3
Max Horz 2=309(LC 5)
Max Uplift6=-140(LC 5), 2=-209(LC 3), 8=-267(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-228/152, 3-4=-280/282, 4-5=-124/49, 5-6=-146/148
BOT CHORD 2-8=-229/198, 7-8=-51/115, 6-7=-54/114
WEBS 3-8=-472/447, 4-8=-465/239, 4-7=-9/49, 4-6=-110/52

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 6, 209 lb uplift at joint 2 and 267 lb uplift at joint 8.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501087
J0700223	A04	ROOF TRUSS	3	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:40 2007 Page 1

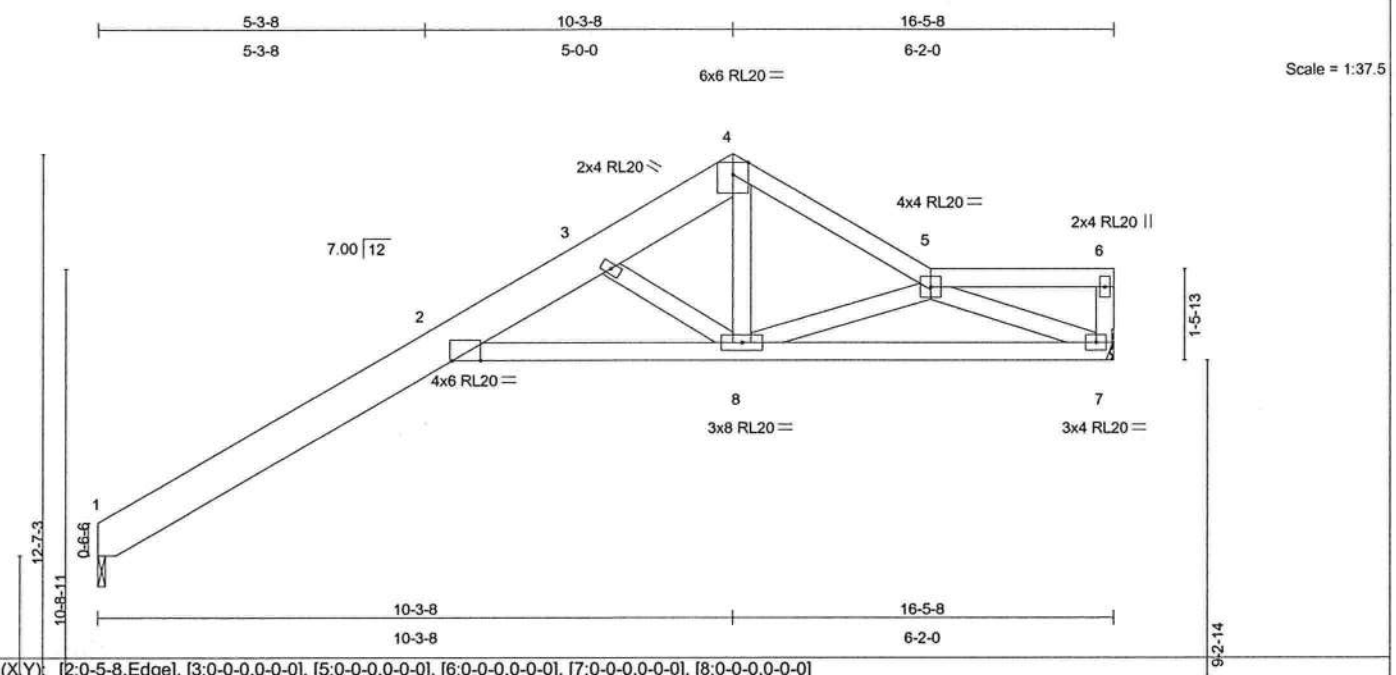

Plate Offsets (X,Y): [2:0-5-8,Edge], [3:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.62	Vert(LL)	0.42	2	>460	360	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.74	2	>262	180		
BCLL 10.0	*	Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.43	7	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 81 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D *Except*
1-4 2 X 8 SYP SS
BOT CHORD 2 X 4 SYP No.2D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-11 oc bracing.

REACTIONS (lb/size) 1=614/0-1-8, 7=604/Mechanical
Max Horz 1=223(LC 5)
Max Uplift1=-169(LC 5), 7=-189(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-274/61, 2-3=-1483/578, 3-4=-993/369, 4-5=-981/365, 5-6=-0/0
BOT CHORD 2-8=-727/1670, 7-8=-436/1150
WEBS 6-7=-76/62, 4-8=-291/829, 5-8=-334/155, 5-7=-1248/473, 3-8=-1027/531

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 1 and 189 lb uplift at joint 7.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501088
J0700223	A06	ROOF TRUSS	3	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:41 2007 Page 1

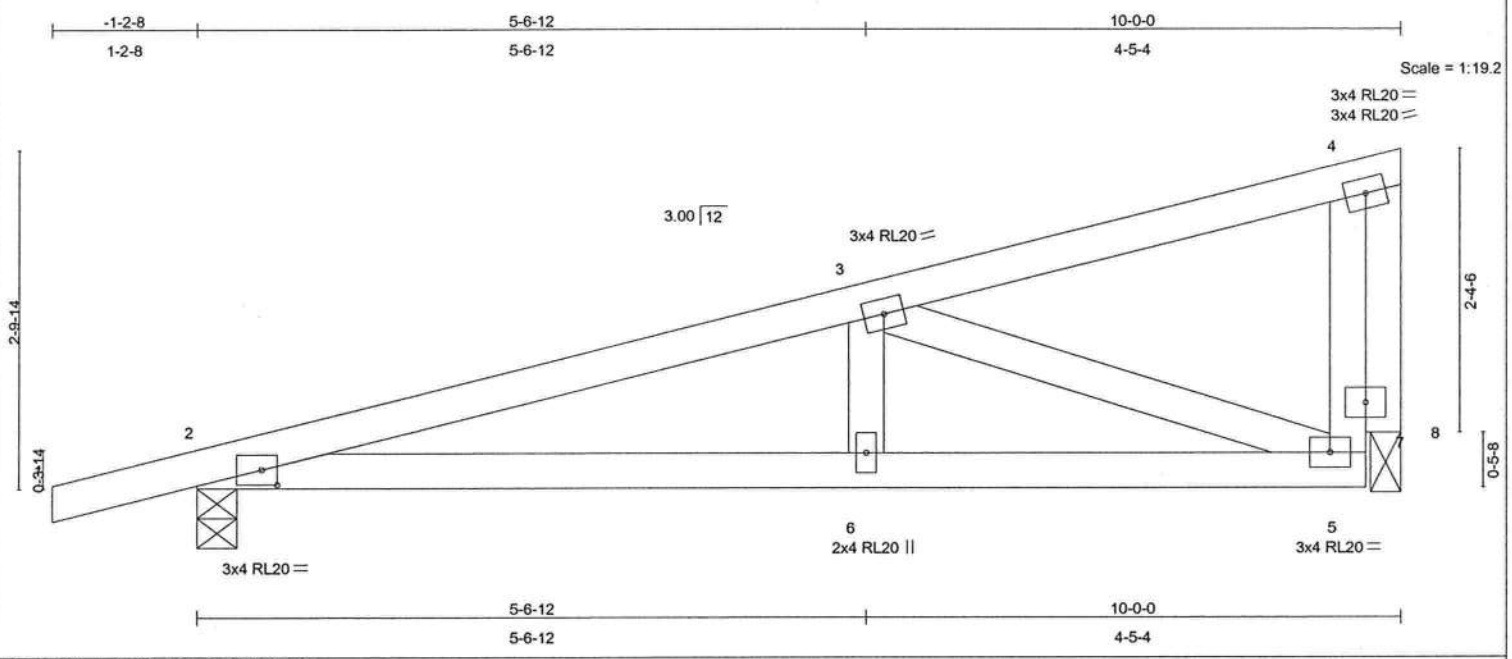

Plate Offsets (X,Y): [2:0-1-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.02	2-6	>999	360	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.07	2-6	>999	180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

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

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

REACTIONS (lb/size) 2=438/0-4-0, 8=331/0-3-0
Max Horz 2=129(LC 3)
Max Uplift2=-203(LC 3), 8=-134(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-749/206, 3-4=-106/17, 5-7=-72/257, 4-7=-72/257
BOT CHORD 2-6=-271/690, 5-6=-271/690
WEBS 3-6=0/208, 3-5=-653/253, 4-8=-336/137, 7-8=-28/60

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2 and 134 lb uplift at joint 8.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501089
J6700223	FL	ROOF TRUSS	3	1	Job Reference (optional)

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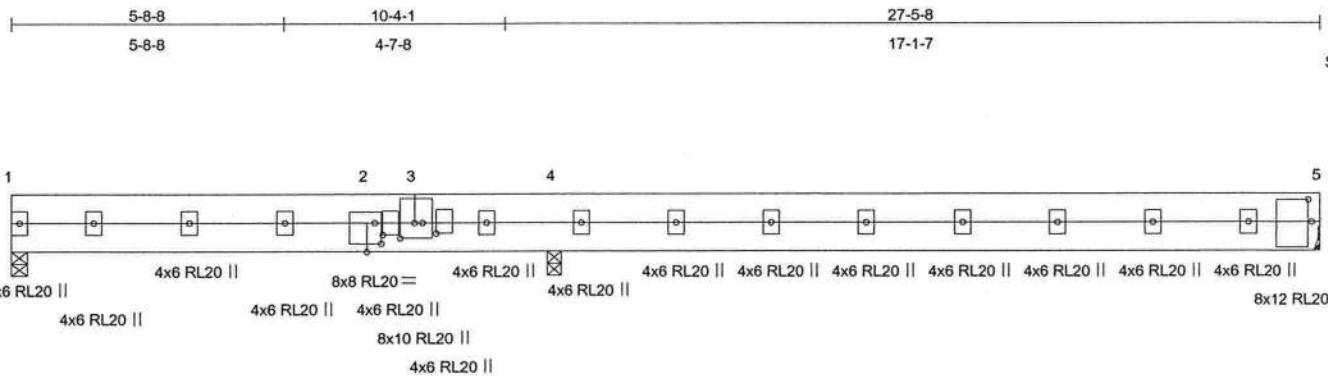

TRUSS NOT SYMMETRIC
DO NOT ERECT THE TRUSS BACKWARDS

Plate Offsets (X,Y): [2:0-3-10,0-2-1], [2:0-3-0,0-2-0], [3:0-3-13,0-3-10], [3:0-2-10,0-3-6], [5:0-5-10,0-0-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	0.09	4-5	>999	360	RL20	253/171
TCDL	7.0	Lumber Increase	1.25	BC	0.00	Vert(TL)	-0.12	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 169 lb	

LUMBER
TOP CHORD 2 X 8 SYP SS
BOT CHORD 2 X 8 SYP SS

BRACING
TOP CHORD Structural wood sheathing directly applied or 9-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=185/0-4-0, 5=348/Mechanical, 4=949/0-3-8
Max Uplift1=-129(LC 3), 5=-243(LC 3), 4=-663(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) Provide adequate drainage to prevent water ponding.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 1, 243 lb uplift at joint 5 and 663 lb uplift at joint 4.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501090
J0700223	PB01	PIGGYBACK	2	1	Job Reference (optional)

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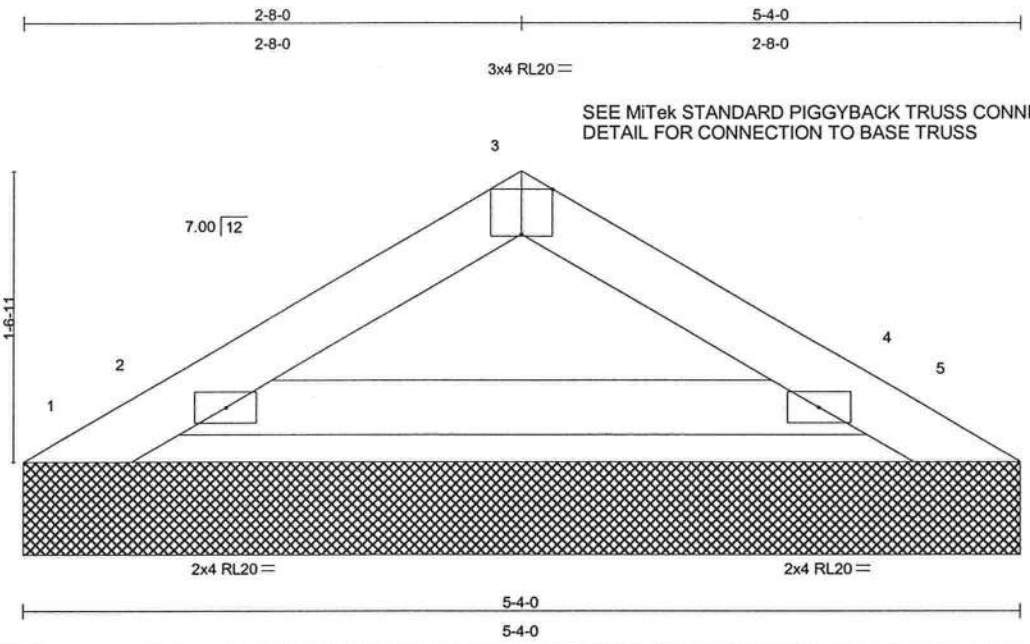


Plate Offsets (X,Y): [3:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	*	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 15 lb	

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

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

REACTIONS (lb/size) 1=-17/5-4-0, 5=-17/5-4-0, 2=194/5-4-0, 4=194/5-4-0
Max Horz 1=-48(LC 3)
Max Uplift1=-28(LC 3), 5=-17(LC 1), 2=-92(LC 5), 4=-82(LC 6)
Max Grav 1=41(LC 4), 5=24(LC 6), 2=194(LC 1), 4=194(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-62/61, 2-3=-107/50, 3-4=-107/50, 4-5=-11/28
BOT CHORD 2-4=-17/65

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 17 lb uplift at joint 5, 92 lb uplift at joint 2 and 82 lb uplift at joint 4.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T2501091
J0700223	PB02	PIGGYBACK	24	1	Job Reference (optional)

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Fri Mar 16 15:12:43 2007 Page 1

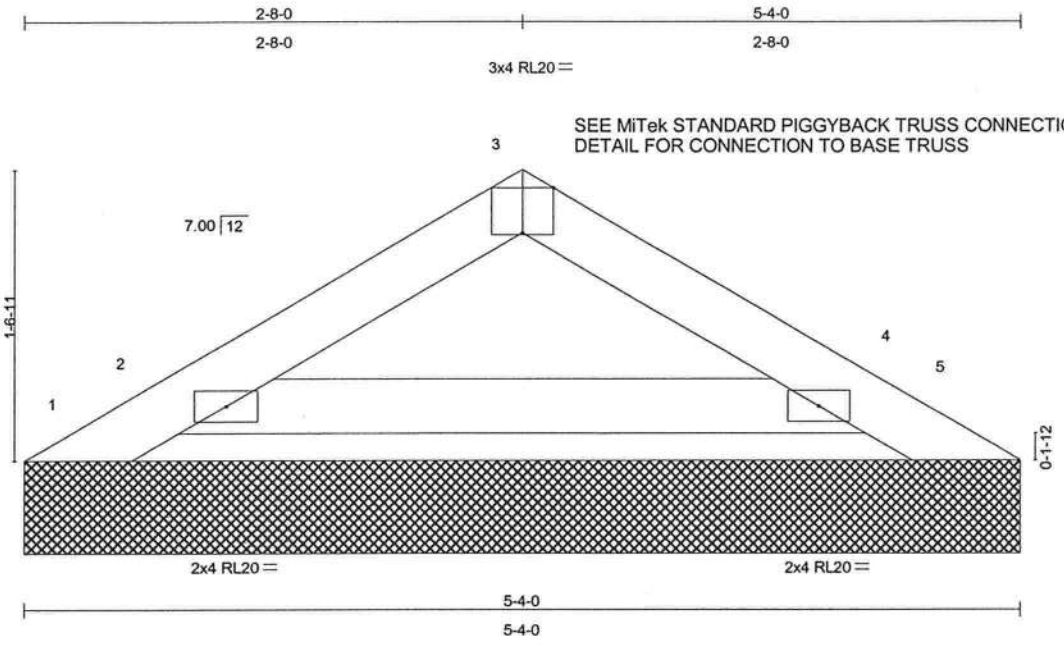


Plate Offsets (X,Y): [3:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	RL20	253/171
TCDL 7.0		Lumber Increase	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	*	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 15 lb	

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

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

REACTIONS (lb/size) 1=-17/5-4-0, 5=-17/5-4-0, 2=194/5-4-0, 4=194/5-4-0
Max Horz 1=-48(LC 3)
Max Uplift 1=-28(LC 3), 5=-17(LC 1), 2=-92(LC 5), 4=-82(LC 6)
Max Grav 1=41(LC 4), 5=24(LC 6), 2=194(LC 1), 4=194(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-62/61, 2-3=-107/50, 3-4=-107/50, 4-5=-11/28
BOT CHORD 2-4=-17/65

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.00 plate grip DOL=1.00.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 17 lb uplift at joint 5, 92 lb uplift at joint 2 and 82 lb uplift at joint 4.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 16,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

J.L. Rye
Rye Construction
Re: Smith Residence

Mr. Rye,

Regarding the Smith residence, for the garage door header for the main house, it shall be a double 2x12 SYP #2 and strapped at each end for a min of 450 lbs uplift resistance (Simpson LSTA9 top, H3 bottom). Also, all other headers and beams are to be double 2x12 SYP #2. For the separate garage, the 18'garage door header is to be a 2 ply 16" LVL and strapped per the wind load engineering.

If you have any questions regarding this matter please feel free to contact me.

Sincerely,

Frank J. Sapienza Jr.
License Professional Engineer
Florida License Number 48566

4/23/07

Wind Load Analysis and Certification

Smith Residence by Rye Construction

2004 Florida Building Code (Residential) section 1609 according to ASCE 7-02
Basic Wind Speed = 110 MPH
Importance Factor = 1.0
Exposure Category = B
Applicable Internal Pressure Coefficient = .18
Design Wind Pressure for use of External Components = 31.1 psf
Mean Roof Height = 16.5'

3/19/07

Roof Decking
7/16" OSB, 5/8" CDX or ¾" CDX Decking; 48"x96" Sheets, Perpendicular to Roof Framing Members 8d common (.131" dia) nails at 4" O.C. on Ends, 8" O.C. in Interior or 8d (.113") ring shank nail @ 4" O.C. ends, 6" O.C. interior.
Trusses or Rafters at 2' O.C. (horizontal distance), No Intermediate Blocking Required
Rafters: 2x6 SYP #2 up to 10' horizontal span, 2x8 SYP #2 up to14' horizontal span

Shear Wall Segments
7/16" OSB, 48" Wide Sheets Placed Vertical - Sheathing Continuous from Top Plate down to Pressure Treated Sole Plate Bearing on Foundation.
8d common (.131" dia) nails at 3" O.C. on Edges and Ends, 8" O.C. in Interior
Transverse Shearwall = 45', Longitudinal Shearwall = 52'
2x4 SPF (No. 1&2) Studs at 16" O.C., up to 12' wall height
or: 2x6 SPF (No. 1&2) Studs at 16" O.C., up to 18' wall height
See attached detail for stud and jack requirements for wall openings
Nail Together Double Top Plate 6" O.C. w/12-d Common Nails (SYP top plates) Need Header size
Other Wall Segments - Same as Shear Walls

Gabled End Wall Framing
Balloon Frame (see detail) or see attached alternate details.
T-Block (with 2x4's) bottom chord of porch gable trusses at 4' O.C to 6' from wall

Special Notes: Other than double sheathed sections as shown on plans, no special corner framing required. Sheath interior shearwalls to roof sheathing or floor sheathing or see attached alternate Interior Shearwall Detail (Interior footer required under all interior shearwalls)

Footings and Foundations (Based on Truss Engineering)
20" deep x 14" wide monolithic with 2-#5's, Continuous
or: 20" Wide x 10" Deep 2500 psi Concrete Strip Footing with 2-#5's, Continuous
8"x8"x16" Concrete Masonry Stemwall, Minimum 2 Courses, Maximum 5 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners and 8'-0" O.C. (10" hook top and bottom) (min 25" lap all #5 rebar) **(1) #5 continuous top course. All 4" slabs requires 6x6 WWM**
Interior footers: 16" wide by 10" deep (including 4" slab) with 2-#5's, Continuous,
Porch Footers: see above or: 8" wide by 8" deep bell footing with 1-#5, Continuous with minimum of 24"x24" x 12" pad under each post (w/ 2- #5 each way) or 16" deep x 12" wide monolithic with 2-#5, Cont. with no pads.
Note: footer design based on continuous bearing. Continuous footers (grade beams) for pier foundation systems must be designed by pier foundation subcontractor.

Hurricane-Resistance Hardware (Based on Truss Engineering)
Truss Clips/Headers/Girders/Posts/Beams /Top and Bottom of Wall Unit - See Table
Anchor Bolts- A-307 (1/2"Dia. x 8" with min 6" embedment) at 48"O.C. (First bolt at 9" from Corner, then 48" O.C.) and at each end of Each Shearwall Segment (2" round or square washers).

I hereby certify that the accompanying Wind Load Analysis for the **Smith Residence**, demonstrates compliance with the 2004 FBC section 1609 according to ASCE 7-02, to the best of my knowledge.

Frank J. Sapienza Jr.
License Professional Engineer
Florida License Number 48566

HOLD-DOWN TABLE **Smith Residence** **3/19/2007**

Wood Sections	Uplift Force Lbs	Top Connector Simpson **	Rating Lbs	Bottom Connector Simpson **	Rating Lbs
HEADERS					
	up to 455 lbs	LSTA9	775	H3	455
	up to 910 lbs	LSTA12	970	2-H3	910
	up to 1235 lbs	LSTA18	1235	LTT19	1350
	up to 1750 lbs	2-LSTA12	1940	LTT20	1750
	up to 2470 lbs	2-LSTA18	2470	HD2A-2.5	2565
	up to 2775 lbs	3-LSTA18	3705	HD2A-3.5	2775
	up to 3705 lbs	3-LSTA18	3705	HD5A-3	3705

To determine uplift force on header at each end, total the uplifts for each truss resting on the header and divide by 2 (assumes uniform load) Note: must use proper bolt anchors sufficient to support required load

Trusses/Girders -

up to 600 lbs - use H2.5A top, no special device required at bottom
over 600 lbs but under 990 lbs use H10 top, no special device required at bottom
up to 1215 lbs use TS22 or equivalent at top and LTT19 at bottom
up to 1750 lbs use 2-TS22 or equivalent at top and LTT20 at bottom
up to 2430 lbs use 2-TS22 or equivalent at top and HD2A bottom
up to 3645 lbs use 3-TS22 or equivalent at top and HD5A bottom
Must Use proper bolt anchors

Note: it is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation

Strap rafters to truss or at each end with min uplift resistance of 450 lbs each end
Strap ridge beam at each end with min uplift resistance of 1800 lbs

Note: Four (4) 12d comm toenails (2 on each side) required per truss/rafter per bearing point into plate to resist both lateral loads (wall to truss) and transverse loads (max plate height =12', not including gable)

Horizontal Resistance (from truss loads) - Note: these devices are in addition to required toe-nails

up to 110 lbs - use H2.5A
up to 525 lbs use H10
up to 1090 lbs use H10 plus A23

Note: hardware to be used must satisfy both uplift and horizontal resistance, combination of devices is acceptable

Note: for combination of loads (uplift and horizontal/lateral) on a single device, the ratio of actual uplift/allowable uplift + actual horizontal load/allowable horizontal cannot exceed 1

	top		bottom	
BEAM SEATS	LSTA18*	1235	LTT19*	1350
POSTS (max post spacing = 14')	2-LSTA18	2470	ABU44	2200

*** or per truss engineering** Must Use proper bolt anchors

STUDS

Wall Sheathing Nailing Adequate Exterior Walls bottom (8d nails at 3"O.C.)
Wall Sheathing Nailing Adequate Exterior Walls Top (8d nails at 3"O.C.), as long as sheathing covers top plate, otherwise use SP2 @32" O.C. in addition to sheathing nailing,
Use SP2 top and SP1 bottom each stud an ancor bolts @ 32" O.C. for all interior load bearing walls that have uplift. Interior anchor bolts to be 1/2" x 8" A307 or 1/2" x 6" wedge anchor or equiv.

Please Note: All Beams must be sheathed or strapped to Double Top Plate (if applicable)

**an equivalent device of same or other manufactures can be substituted for any of the devices specified on this page as long as it meets the required load capacities

Note: For nailing into SPF members, multiply table values by .86

3/19/07

Calculation of Lateral (wall to truss) and Transverse (truss to wall) Loads
Smith Residence

Lateral Loads (loads perpendicular to wall)

Max Wall Height (ft)	Max Wall Pressure*	Mult factor	(lbs/ft) Total load on wall
12	17.7	1.3	276.12

wall height x wall pressure x factor

Trusses @2' O.C.
Lateral Load at top of wall = 138.06 (1/2 total load)
Lateral Load at truss = 276.12 (load at top of wall x 2)

Lateral Resistance of 12d comm toe-nail into SYP is 88 lbs
Resistance of four (4) 12d comm toe-nails in SYP
4*88= 352 lbs

352 > 276.12 thus acceptable

*per ASCE7-02 (in lbs/sq ft)

Transverse Loads (loads parallel to wall, wall loads only)
worst case condiditon
17.7 x 10 x 89 = 15753 lbs total load
15753/2 = 7877 load at top
7877/2 = 3938 load per side
3938/54 = 73 lbs/ft
73 x 2 = 146 lbs/truss
transverse resistance of (4) 12d comm toe-nail in SYP = 4 x 44 = 176 lbs
176 > 146 therefore acceptable

3/19/07

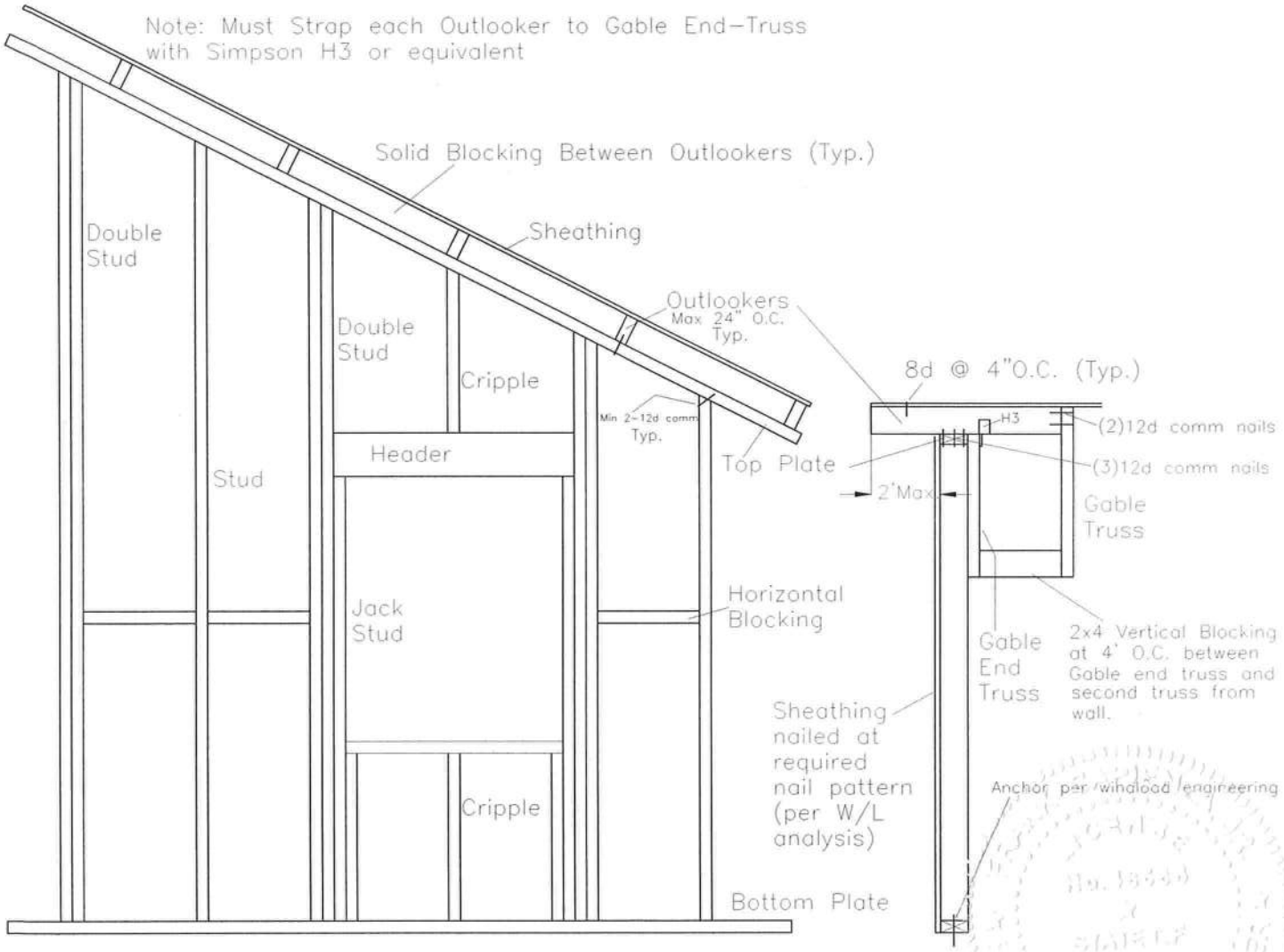
Acceptable Framing Method for Balloon Framed Gable End–Wall with trusses

Balloon Frame with 2x4 SPF No.1&2 @ 16" O.C. with the Following Conditions:
Up to 12' – Block at 8'
Over 12' but Under 14' – 2x4 SYP #2 at 16" O.C. and Block at 4',8'&12'
Over 14' but Under 17' – Double 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'
Over 17' but Under 20' – Triple 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'
Over 20' but Under 23' – Quadruple 2x4 SYP #2 at 16" O.C.and block at 4',8',12',16'&20'
Over 23' – Must be Engineered

In all cases a minimum of a double full length stud is required at each side of openings such as doors and windows

Blocking must be parallel to top and bottom plates with a minimum of 2–12d comm nails

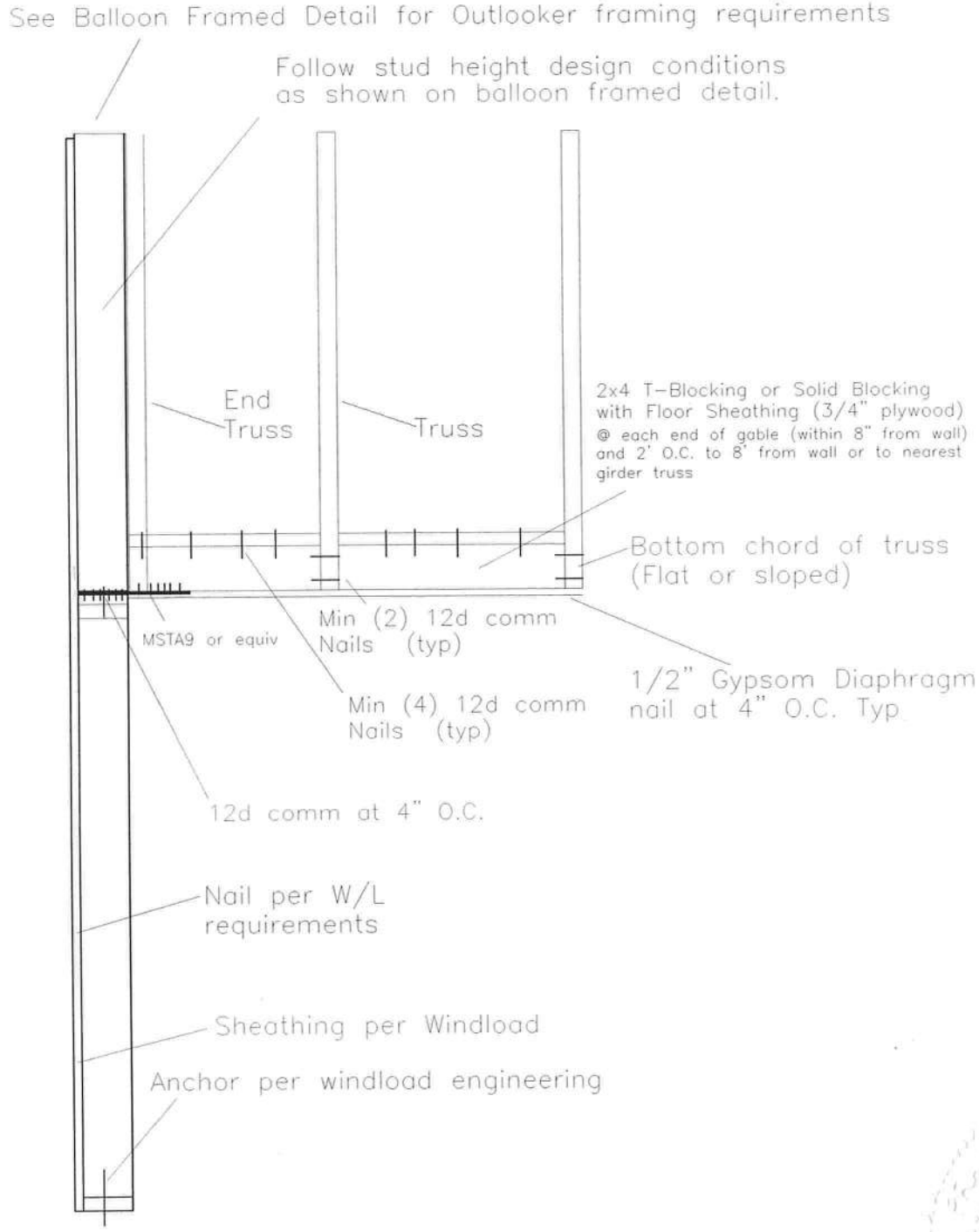
Note: Must Strap each Outlooker to Gable End–Truss with Simpson H3 or equivalent



F. Sapienza, P.E. 3/07

3/19/07

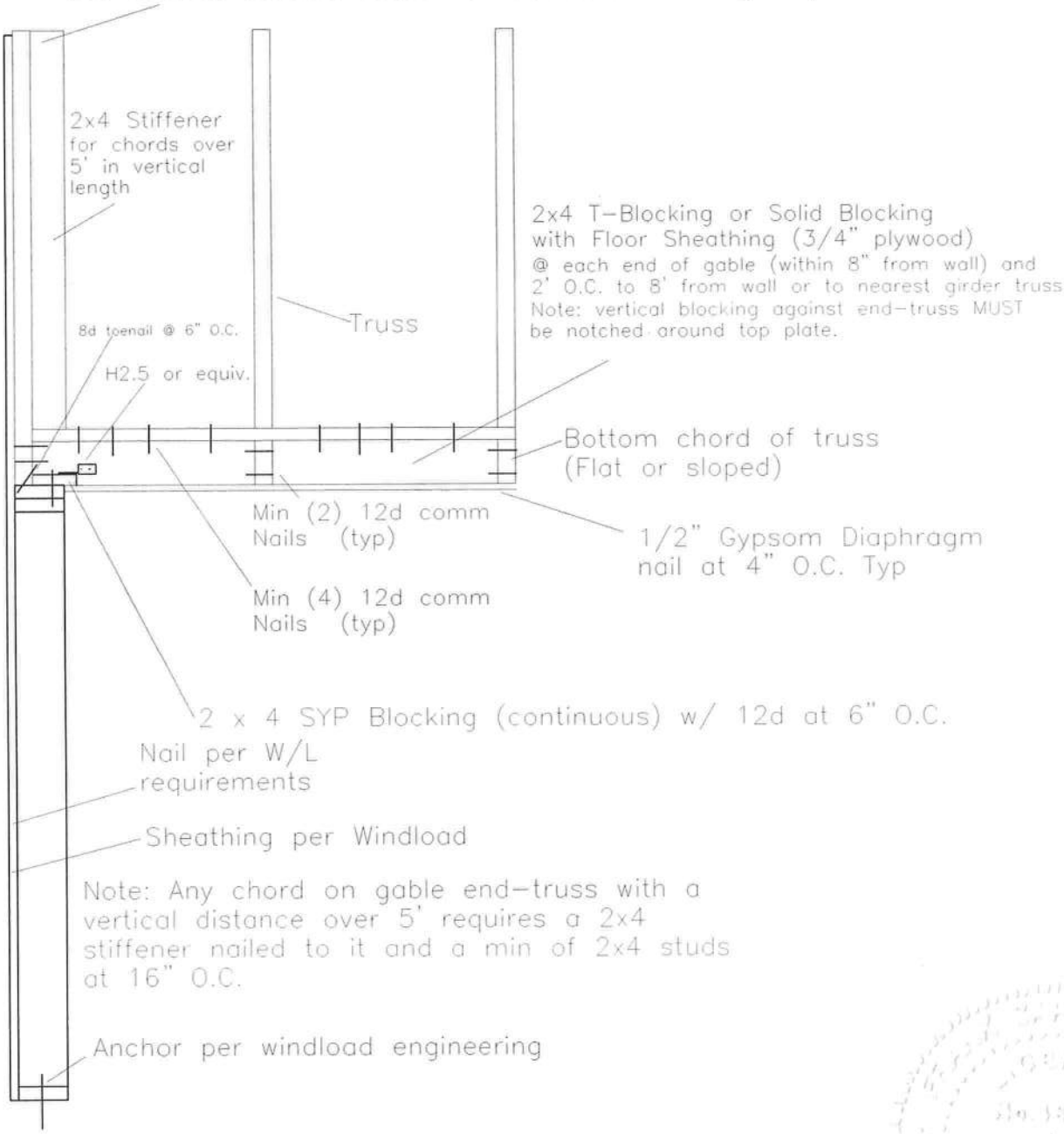
Gable Endwall Framing
with Gable End–Truss



3/14/07

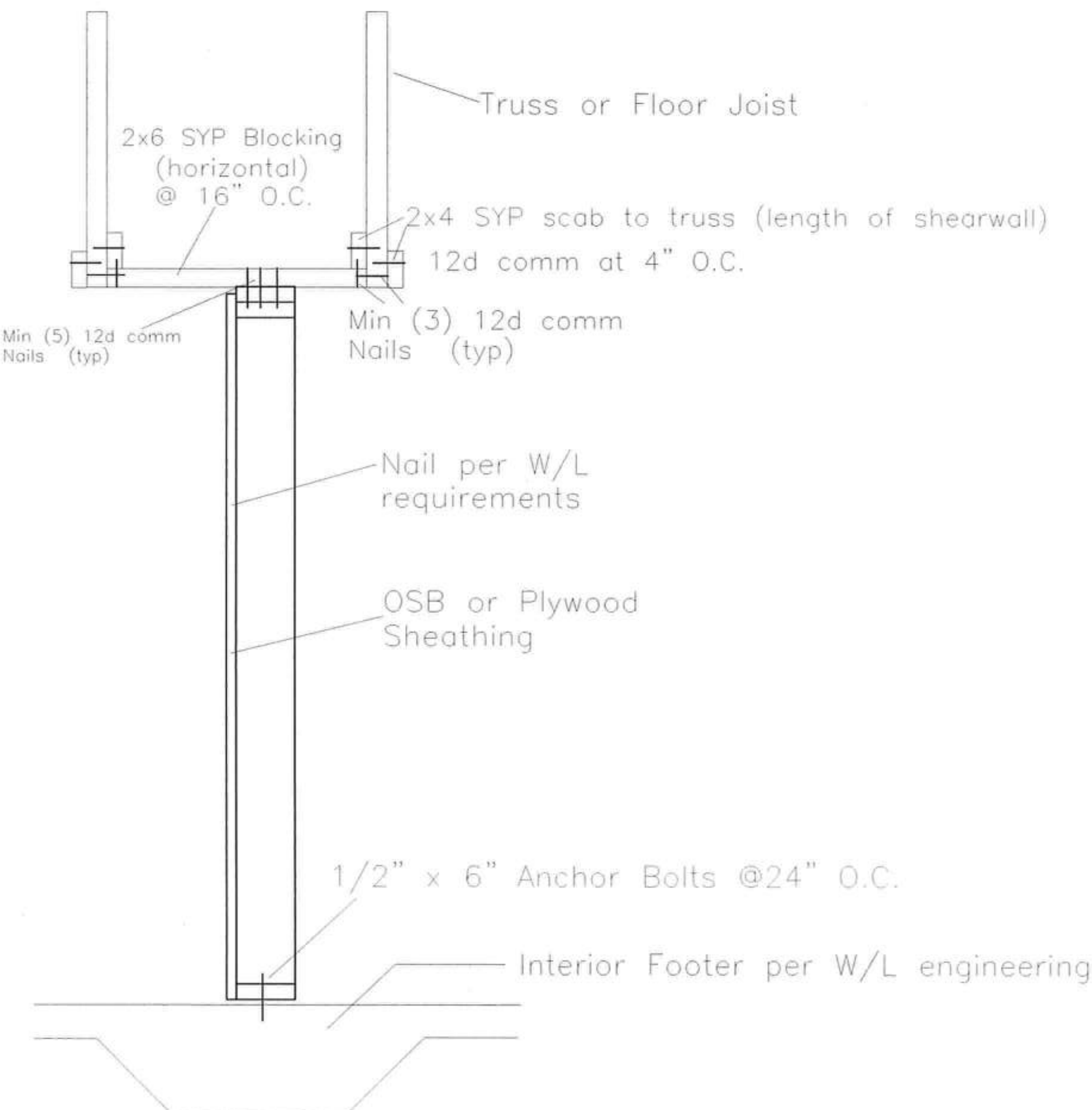
Gable Endwall Framing
with Gable End–Truss

See Balloon Framed Detail for Outlooker framing requirements



3/19/08

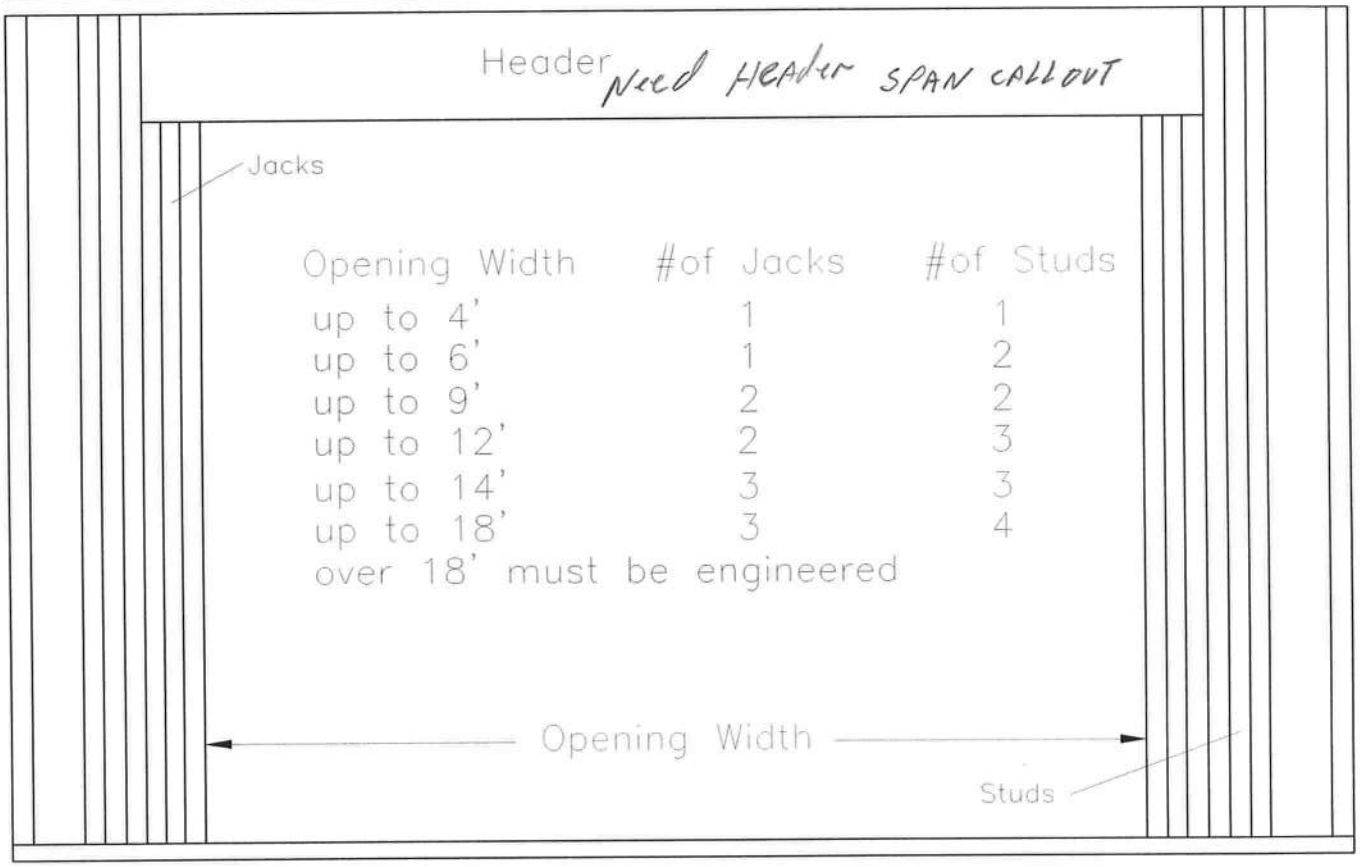
Interior Shearwall Sheathed to
Bottom Truss Chord or Floor System



Note: If truss or floor system crosses perpindicular to shearwall, attach to shearwall using H2.5 or equiv. where each member crosses shearwall

3/19/07

Number of Jack and Stud Requirements per Opening Width
2x4 or 2x6 SPF #1&2 Construction – max Wall Height=12'
(based on 16" O.C. Stud Spacing)



Opening Width	#of Jacks	#of Studs
up to 4'	1	1
up to 6'	1	2
up to 9'	2	2
up to 12'	2	3
up to 14'	3	3
up to 18'	3	4

over 18' must be engineered

Note – Based on uniform loads. Heavy concentrated loads require engineering review

3/19/07

Project Name: Smith Residence

Location:

By: F Sapienza

Start Date: 3/19/2007

Comments:

Local Information

Wind Dir.	Exposure
1	B
2	B
3	B
4	B

Basic Wind Speed: 110 mph

Topography: None

Optional Factors

This project uses load combinations from ASCE 7.

Section - Main Section

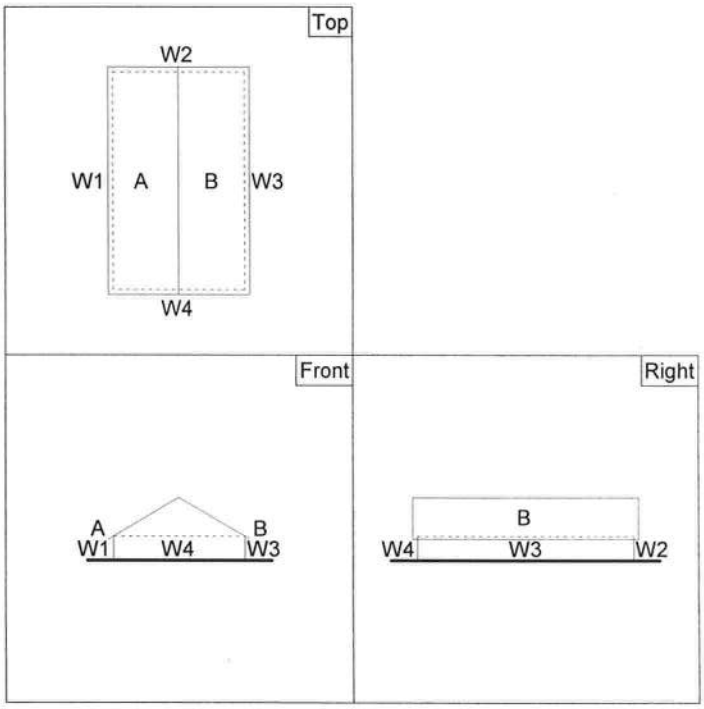
Enclosure Classification: Enclosed
Building Category: II

Wall	Length(ft)	Overhang(ft)
1	89.0	2.0
2	54.0	2.0
3	89.0	2.0
4	54.0	2.0

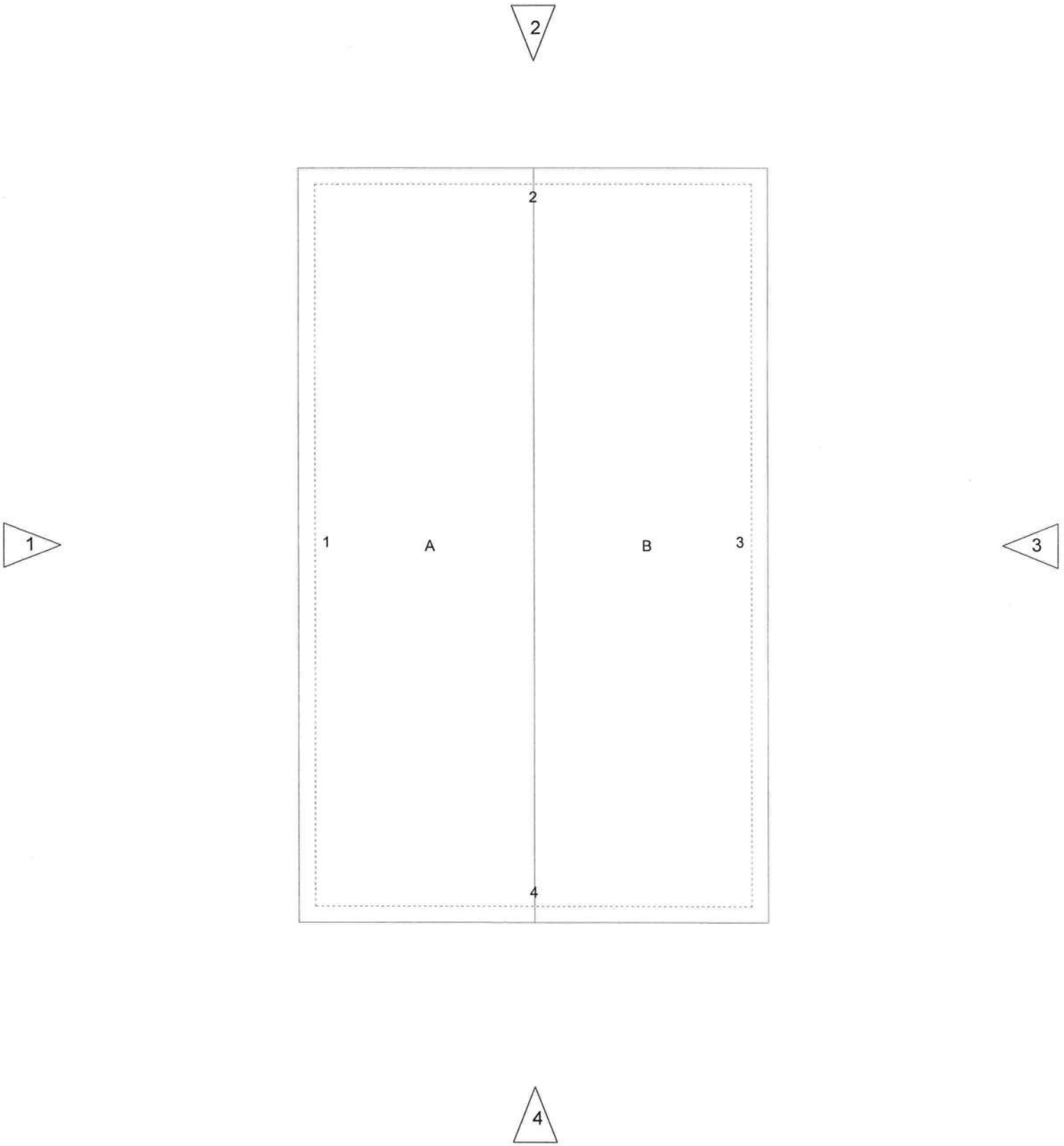
Eave Height: 10 ft
Parapet Height: 0 ft
Parapet Enclosure: Solid

Roof Shape: Gabled

Roof	Slope(:12)
A&B	7.0



Composite Drawing



ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 1

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Windward Wall	10.0	15.1	0.85	0.80	0.18	10.3	7.4	13.1
	Overhang Top	17.9	15.9		0.27	0	3.6		
		17.9	15.9		-0.19		-2.6		
	Overhang Bot	10.0	15.1		0.80		10.3		
2	Side Wall	17.9	15.9	0.85	-0.70	0.18	-9.5	-12.3	-6.6
3	Leeward Wall	17.9	15.9	0.85	-0.50	0.18	-6.8	-9.6	-3.9
4	Side Wall	17.9	15.9	0.85	-0.70	0.18	-9.5	-12.3	-6.6
A	Windward Roof	17.9	15.9	0.85	0.27	0.18	3.6	0.8	6.5
		17.9	15.9		-0.19		-2.6	-5.4	0.3
B	Leeward Roof	17.9	15.9	0.85	-0.60	0.18	-8.1	-11.0	-5.2

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 2

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side Wall	17.9	15.9	0.86	-0.70	0.18	-9.6	-12.4	-6.7
2	Windward Wall	15.0	15.1		0.80		10.4	7.5	13.3
		17.9	15.9				10.9	8.1	13.8
		20.0	16.4				11.3	8.4	14.1
		25.8	17.7				12.2	9.3	15.0
	Overhang Top	17.9	15.9		-0.90	0	-12.3		
	Overhang Bot	17.9	15.9		0.80		10.9		
3	Side Wall	17.9	15.9	0.86	-0.70	0.18	-9.6	-12.4	-6.7
4	Leeward Wall	17.9	15.9	0.86	-0.37	0.18	-5.1	-7.9	-2.2
A&B	Roof	0 to 8.9 *	15.9	0.86	-0.90	0.18	-12.3	-15.2	-9.4
		8.9 to 17.9 *	15.9				-12.3	-15.2	-9.4
		17.9 to 35.8 *	15.9		-0.50		-6.8	-9.7	-4.0
		35.8 to 89.0 *	15.9		-0.30		-4.1	-7.0	-1.2
		0 to 89.0 *	15.9		-0.18		-2.5	-5.3	0.4

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

* Distance from windward edge.

ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 3

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Leeward Wall	17.9	15.9	0.85	-0.50	0.18	-6.8	-9.6	-3.9
2	Side Wall	17.9	15.9		-0.70		-9.5	-12.3	-6.6
3	Windward Wall	10.0	15.1	0.85	0.80	0.18	10.3	7.4	13.1
	Overhang Top	17.9	15.9		0.27	0	3.6		
		17.9	15.9		-0.19		-2.6		
	Overhang Bot	10.0	15.1		0.80		10.3		
4	Side Wall	17.9	15.9	0.85	-0.70	0.18	-9.5	-12.3	-6.6
B	Windward Roof	17.9	15.9	0.85	0.27	0.18	3.6	0.8	6.5
		17.9	15.9		-0.19		-2.6	-5.4	0.3
A	Leeward Roof	17.9	15.9	0.85	-0.60	0.18	-8.1	-11.0	-5.2

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 4

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side Wall	17.9	15.9	0.86	-0.70	0.18	-9.6	-12.4	-6.7
2	Leeward Wall	17.9	15.9		-0.37		-5.1	-7.9	-2.2
3	Side Wall	17.9	15.9	0.86	-0.70	0.18	-9.6	-12.4	-6.7
4	Windward Wall	15.0	15.1	0.86	0.80	0.18	10.4	7.5	13.3
		17.9	15.9				10.9	8.1	13.8
		20.0	16.4				11.3	8.4	14.1
		25.8	17.7				12.2	9.3	15.0
	Overhang Top	17.9	15.9		-0.90	0	-12.3		
	Overhang Bot	17.9	15.9		0.80		10.9		
A&B	Roof	0 to 8.9 *	15.9	0.86	-0.90	0.18	-12.3	-15.2	-9.4
		8.9 to 17.9 *	15.9				-12.3	-15.2	-9.4
		17.9 to 35.8 *	15.9		-0.50		-6.8	-9.7	-4.0
		35.8 to 89.0 *	15.9		-0.30		-4.1	-7.0	-1.2
		0 to 89.0 *	15.9		-0.18		-2.5	-5.3	0.4

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

* Distance from windward edge.

COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING 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 SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. *The following information must be shown as per section 1603.1.4 FBC* ✓a. Basic wind speed (3-second gust), miles per hour (km/hr). ✓b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. ✓c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. ✓d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. ✓e. Components and Cladding. The design wind pressures in terms of psf (kN/m^2) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
☑	☐	**Elevations including:** a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation

☐ N/A ☐ N/A d) Location, size and height above roof of chimneys.
☐ N/A ☐ N/A e) Location and size of skylights
☑ ☐ f) Building height
☑ ☐ e) Number of stories

Floor Plan including:

☑ ☐ a) Rooms labeled and dimensioned.
☑ ☐ b) Shear walls identified.
☑ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ NA d) Show safety glazing of glass, where required by code.
☑ ☐ e) Identify egress windows in bedrooms, and size.
☐ ☐ N/A f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).** NA
☑ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☑ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

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

Roof System:

☑ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☑ ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☑ ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, (synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☑ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene) with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. ~~Crawl space (if applicable)~~ N/A

☐ ☐ c) ~~Metal frame wall and roof~~ (designed, signed and sealed by Florida Prof. Engineer or Architect) N/A

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer N/A

☐ ☐ b) Floor joist size and spacing N/A

☐ ☐ c) Girder size and spacing N/A

☐ ☐ d) Attachment of joist to girder N/A

☐ ☐ e) Wind load requirements where applicable N/A

☑ ☐ **Plumbing Fixture layout**

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

☑ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☑ ☐ h) Exhaust fans in bathroom

HVAC information

☑ ☐ a) Energy Calculations (dimensions shall match plans)

☑ ☐ b) Manual J sizing equipment or equivalent computation

☐ ☐ N/A c) Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☑ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done**

☑ ☐ **Private Potable Water**

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

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

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval: If the project is to be located within the city limits of the Town of Fort White**, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. **(386) 497-2321**

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is **$50.00**

6. **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. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

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

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	THERMA-TRU	EXT FIBERGLASS 1 3/4	FL-5262
A. SWINGING	" "	EXT STEEL 1 3/4	
B. SLIDING			
C. SECTIONAL/ROLL UP	RAYNOR		FL 3610
D. OTHER			
2. WINDOWS	BETTER-BILT	SERIES 740 FRAME FIN	FL 5438.23
A. SINGLE/DOUBLE HUNG	N/A		
B. HORIZONTAL SLIDER	N/A		
C. CASEMENT			
D. FIXED	N/A		
E. MULLION	BETTER-BILT	SERIES 740 FRAME FIN	FL 5438.23
F. SKYLIGHTS	N/A		
G. OTHER	N/A		
3. PANEL WALL			
A. SIDING	JAMES HARDI	7 1/4 X 12 PLANK	FL 889.122
B. SOFFITS	REYNOLDS	VENTED ALUM	
C. STOREFRONTS	N/A		
D. GLASS BLOCK	N/A		
E. OTHER	N/A		
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	CERTAIN-TEED	ARCHITECTURAL 30 YR	FL 250-R-1
B. NON-STRUCT METAL			
C. ROOFING TILES	N/A		
D. SINGLE PLY ROOF	N/A		
E. OTHER	FELT TAMKO	30 LB. ASPHALT	FL 1814.3
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	SIMPSON/HUGHES	AS PER STRUCTURAL ENG	
B. WOOD ANCHORS		AS PER " "	
C. TRUSS PLATES		AS PER TRUSS ENG	
D. INSULATION FORMS	N/A		
E. LINTELS	N/A		
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS	G.P.	7/16 4X10 WINDSTORM OSB	
A.			

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

APPLICANT SIGNATURE

3-26-07
DATE

R-1305 01-04

THERMA-TRU DOORS

Door Designer

System Summary:

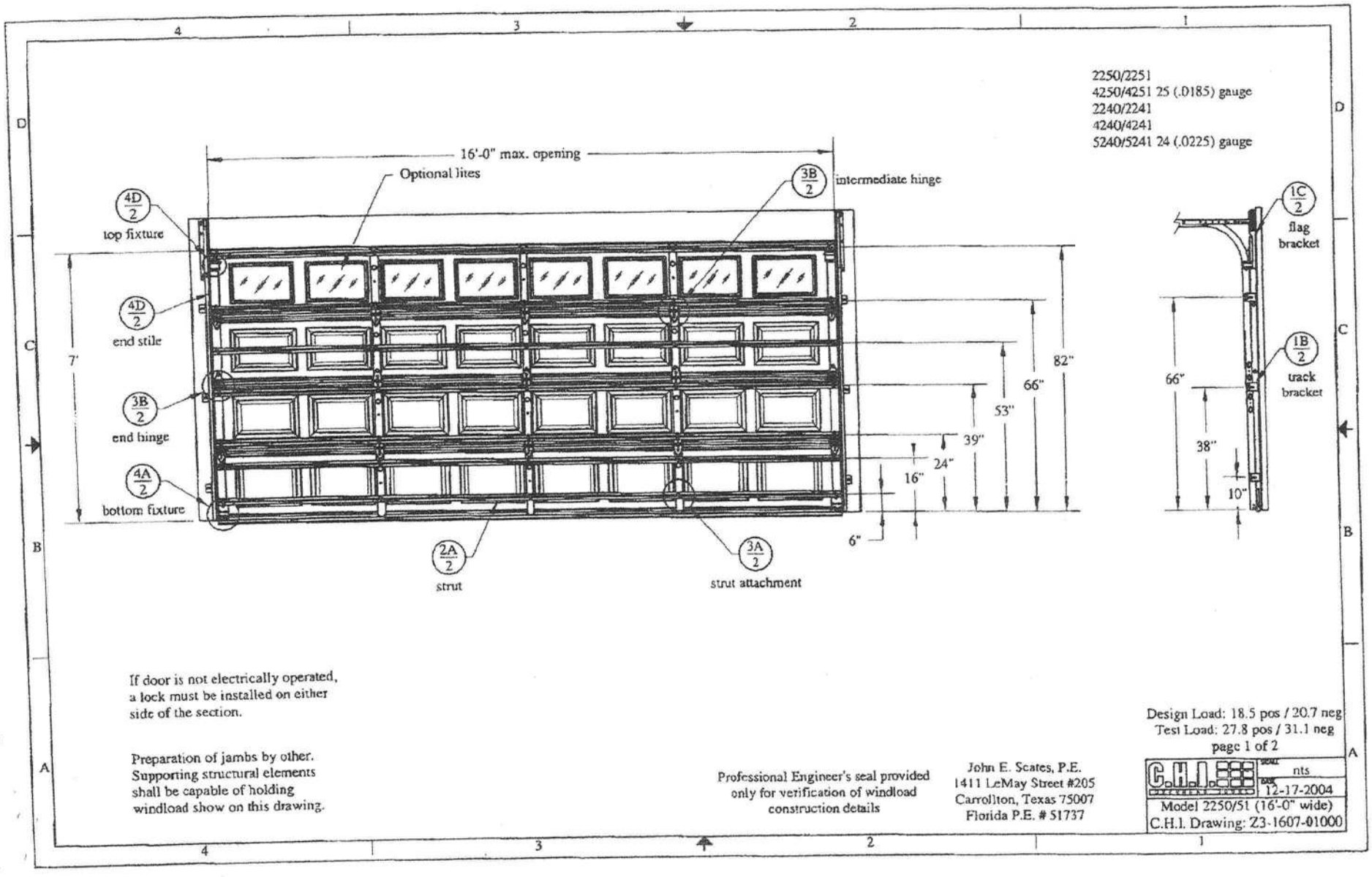
Product Line :
Smooth-Star Embossed Panel
Glass Style :
Crystalline, Brushed Nickel Caming
Door Style :
S900-1C
Sidelite Style :
S916SL-1C
Transom Style :
None

Door Height/Width :
3'0" x 6'8"
Sidelite Height/Width :
12" x 6'8"
Number of Sidelites :
Two

Stain :

Paint :
Burgundy

FL 3610 STATE WIDE CODE #



window & glass options

Add a touch of elegance to the outside of your home with the addition of decorative window & glass options from C.H.I. Our glass options are designed to enhance the natural beauty of your exterior while adding to the value of your home.

Color Selections*

White

Almond

Sandstone

Brown

PANEL CONSTRUCTION

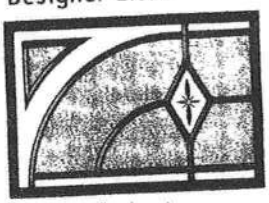
Chosen for its weather resistant feature, the tongue and groove design was engineered to ensure a secure fit while strengthening the structural integrity of the door.

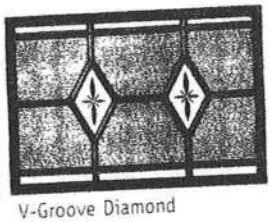
2250/4250
Uninsulated.

2251/4251
1 3/8" Polystyrene insulation with a vinyl back.

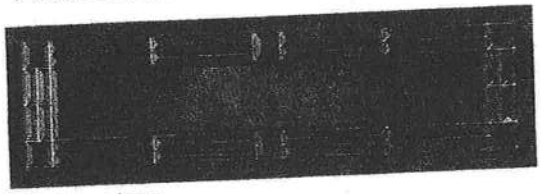
2255/4255
9/16" Polystyrene insulation with a vinyl back.

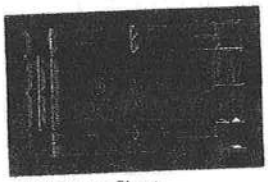
Designer Lites**

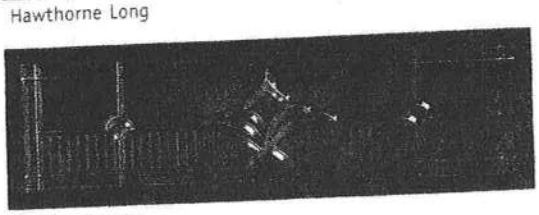

V-Groove Sunburst


V-Groove Diamond


V-Groove Cathedral


Hawthorne Long


Hawthorne Short


Somerset Long


Somerset Short

Note: *Hawthorne and Somerset glazing options are transparent.*

MODEL
☐ 2250 ☐ 4250 ☐ 2251 ☐ 4251 ☐ 2255 ☐ 4255 **WIDTH** _____ x **HEIGHT** _____

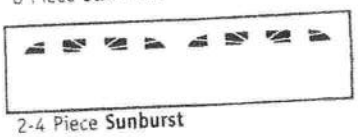
NOTES _____

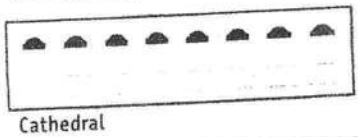
TOTAL $ _____

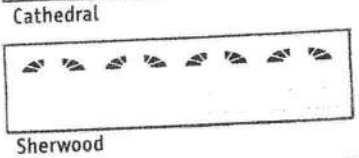
Standard Window Design Trims

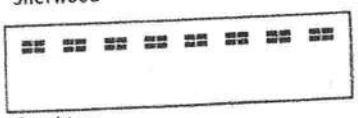
SHORT PANEL

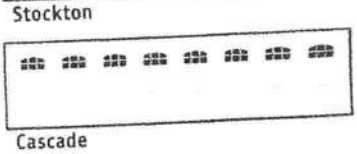

8 Piece **Sunburst**


2-4 Piece **Sunburst**

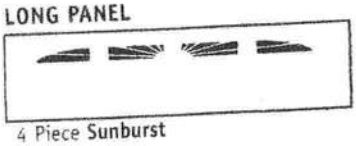

Cathedral

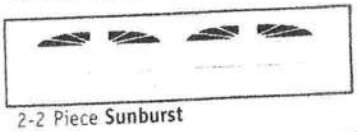

Sherwood

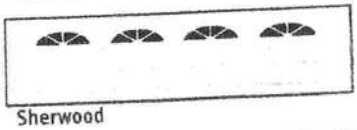

Stockton

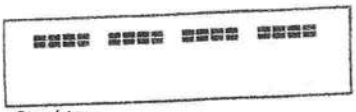

Cascade

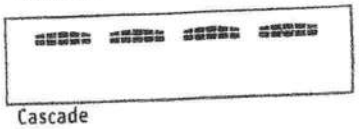
LONG PANEL


4 Piece **Sunburst**


2-2 Piece **Sunburst**


Sherwood


Stockton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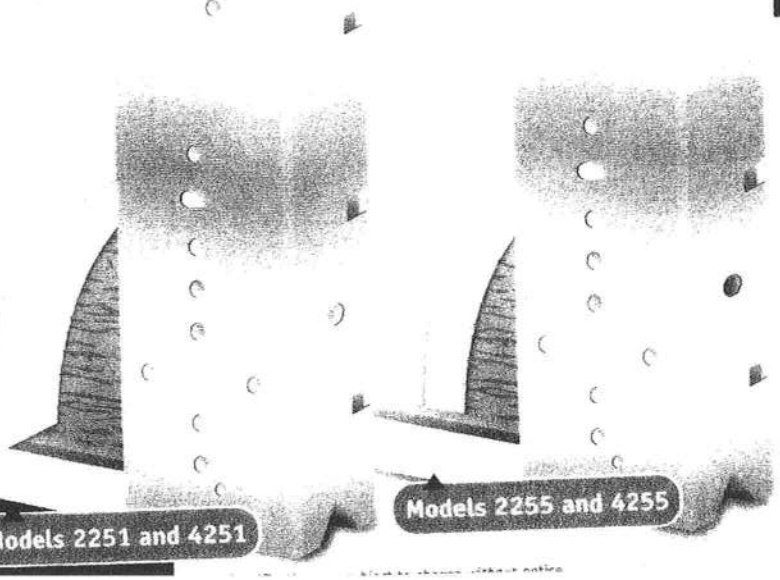


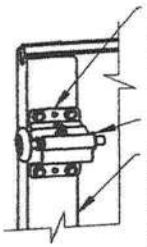
C.H.I. Doors Distributed by:

See your distributor for information about C.H.I.'s **Limited Lifetime Warranty.**
C.H.I. doors are manufactured in Arthur, Illinois, USA.

* Refer to samples at your local C.H.I. Distributor for exact color match.

** For all available window options, please see our Glass Options Brochure, or visit your C.H.I. Distributor.

C.H.I. OVERHEAD DOORS
1485 SUNRISE DRIVE, ARTHUR, IL 61911
www.chiohd.com



14 gauge (.070) galvanized steel top fixture manufactured by C.H.I. Each fixture attached with four 1/4" x 3/4" screws.

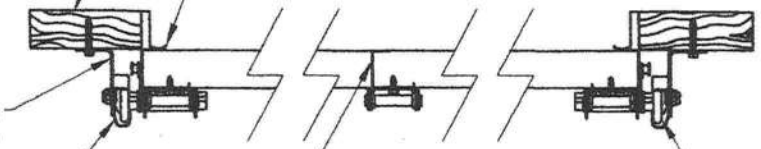
push nut

20 gauge (.036) end stile manufactured by C.H.I.

Strut, if applicable, not shown for clarity.

The 2x6 vertical wood jambs are to be grade 2 or better Southern Pine. Fasteners may be countersunk to provide a flush mounting surface.

2" x 7/16" (nominal) Stop molding required (not supplied by C.H.I.)



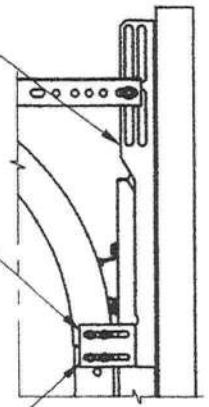
12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

20 gauge (.036) center stile manufactured by C.H.I.

2" steel roller

2" x .051 min. galvanized steel track fastened to track brackets. Each track bracket attached with one 1/4" x 5/8" track bolt and nut.

Details on some views may have been omitted for clarity.



12 gauge (.086) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.

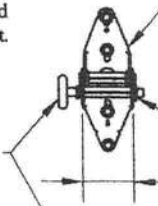
Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts.

End Hinge

14 gauge (.069) galvanized steel end hinge fastened to section with four 1/4" x 3/4" screws.

push nut



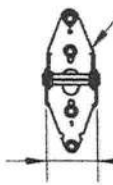
2" steel track roller.

2 3/4"

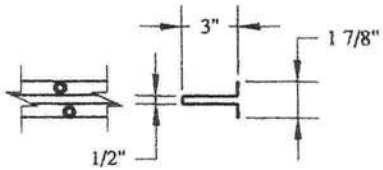
3-1/2" (min.) stem3 1/2"

Intermediate Hinge

18 gauge (.047) galvanized steel intermediate hinge fastened to section with four 1/4" x 3/4" screws.



2 3/4"

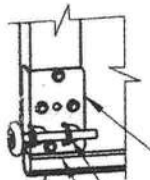


3"

1 7/8"

1/2"

18 gauge (.047) 50 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.

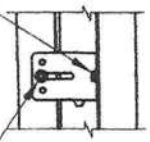


Vinyl weatherstrip

12 gauge (.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

push nut

Aluminum extrusion



12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

Design Load: 30 pos / 33.5 neg
Test Load: 45 pos / 50.3 neg
page 2 of 2

Professional Engineer's seal provided only for verification of windload construction details

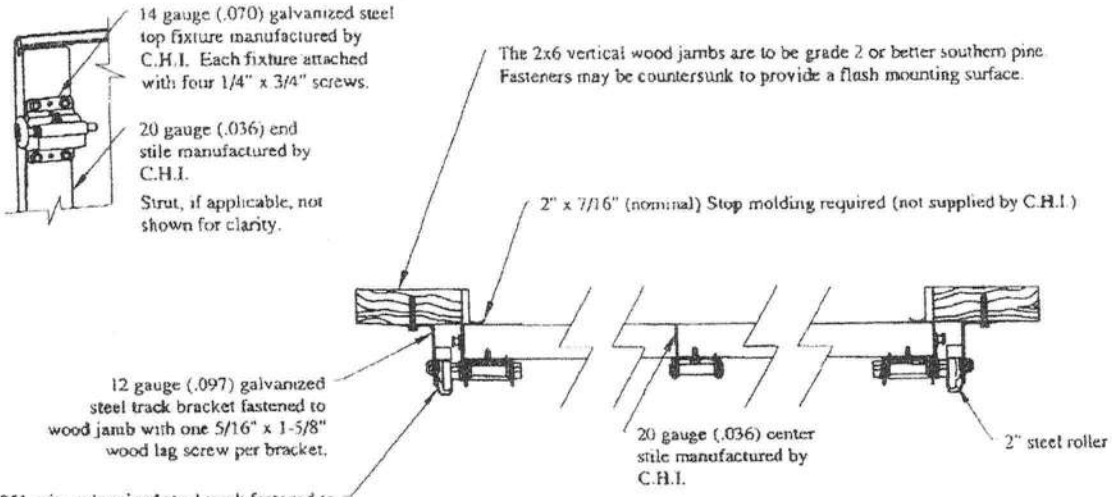
John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

C.H.I. OVERHEAD DOORS

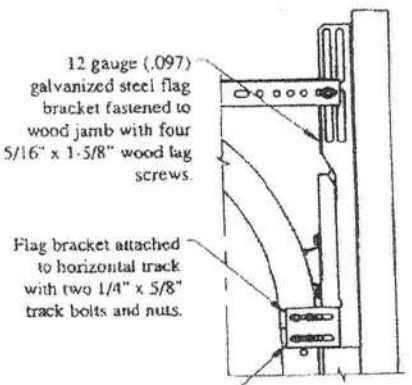
SCALE nts

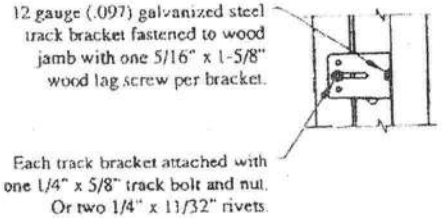
DATE 8-15-2005

Model 2250/51 (18'-0" wide)
C.H.I. Drawing: Z6-1807-01000



Details on some views may have been omitted for clarity.





Design Load: 19.2 pos / 22.0 neg
Test Load: 28.8 pos / 33.0 neg
page 2 of 2

Professional Engineer's seal provided only for verification of windload construction details

John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

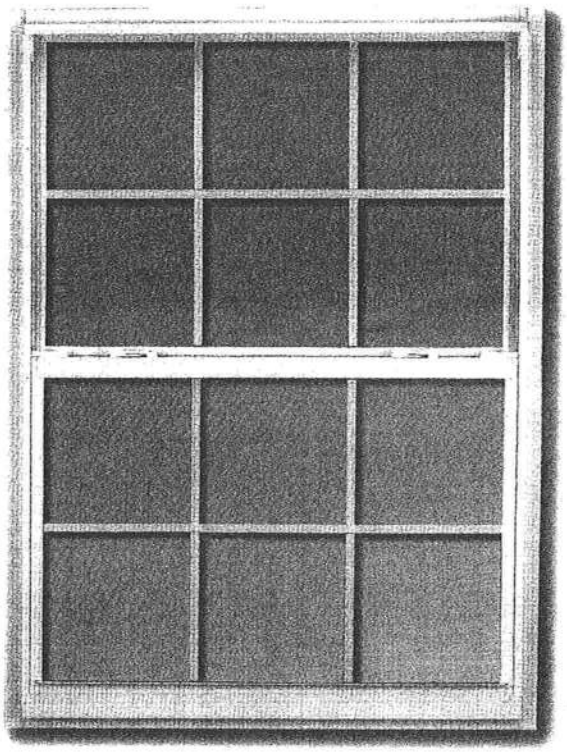
C.H.I.	SCALE nts.
	DATE 12-17-2004

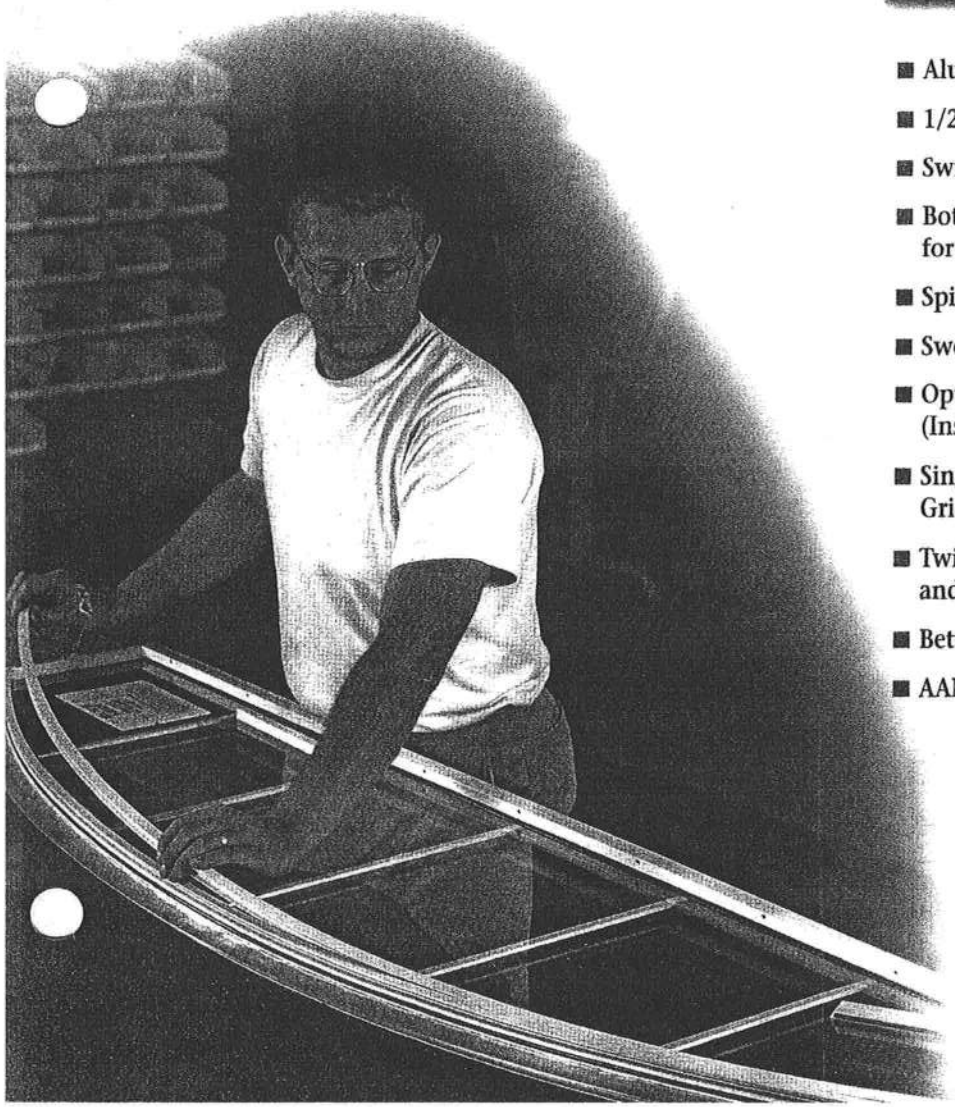
Model 2250/51 (9'-0" wide)
C.H.I. Drawing: Z3-0907-01000

SERIES

740

Insulated Single Hung Aluminum Windows



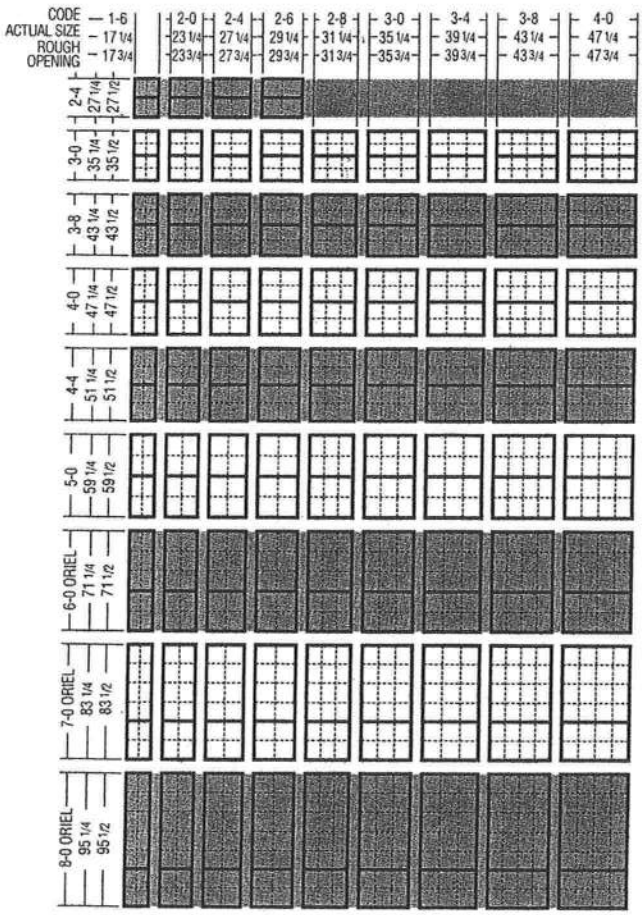


- Aluminum Single Hung Window
- 1/2" Insulated Glass
- Swiggle® Seal Glass Spacer System
- Bottom Sash Tilts, Top Sash Removable for Drywall Pass-Through
- Spiral Balances
- Sweep Lock System at Meeting Rail
- Optional Decorative Grids Between the Glass (Insulated Glass Units)
- Single Glazed Available with Snap-In Grid System
- Twin and Triple Units in One Continuous Header and Sill Frame
- BetterBilt 10 Year Limited Warranty
- AAMA Labeled and NFRC Certified

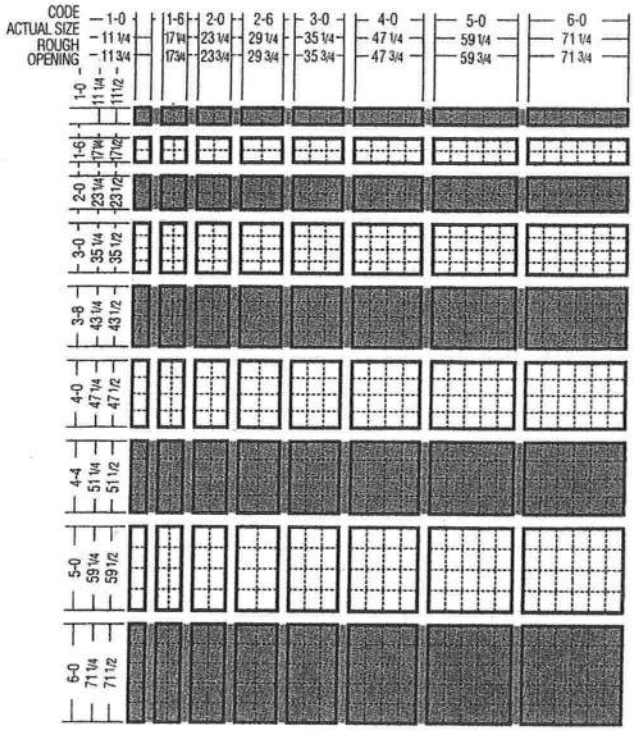
BetterBilt®
DOORS AND WINDOWS

SERIES 740 Insulated Single Hung Aluminum Windows

SINGLE HUNG WINDOW SIZES

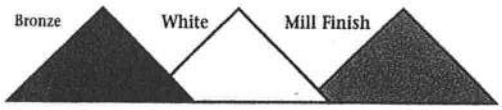


PICTURE WINDOW SIZES



Also available: Series 744 High Performance Window with DH-R50 Rating

Colors



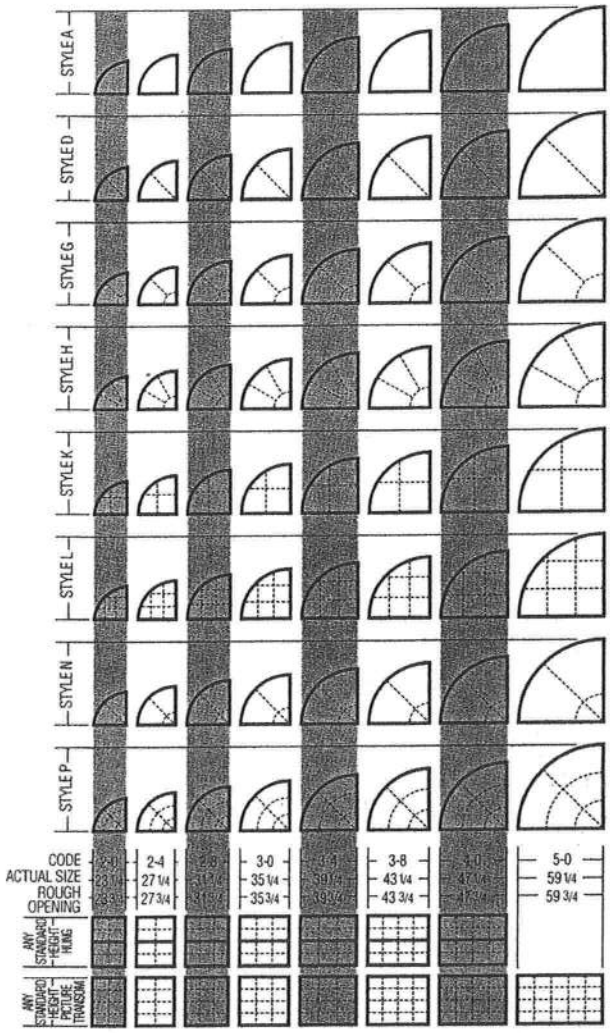
AAMA MEMBER

QUALITY CONTROL & TESTING
AAMA CERTIFICATION PROGRAM
ACCREDITED BY: AMERICAN NATIONAL STANDARDS INSTITUTE
Validator: ALI® CODE: BB-1

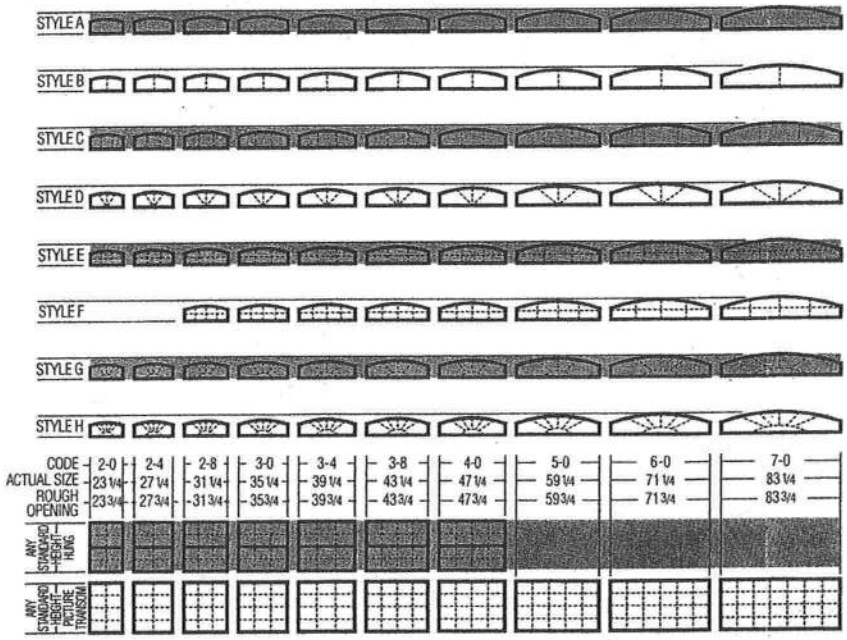
NFRC National Fenestration Rating Council CERTIFIED

Some products may require special glazing options to meet certain Energy Star criteria. Contact your sales representative for more information.

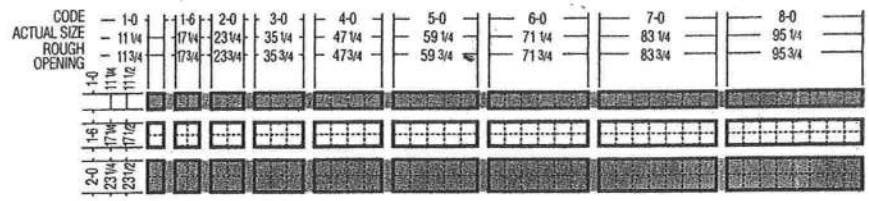
QUARTER CIRCLE WINDOW SIZES



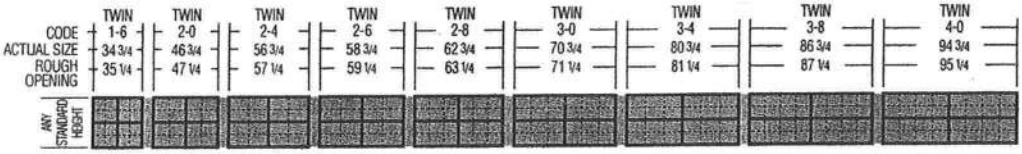
EYEBROW WINDOW SIZES



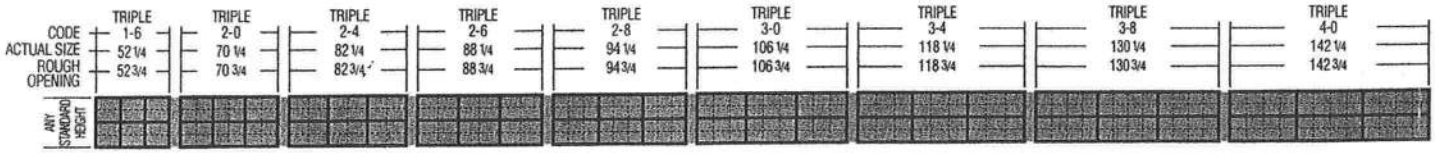
TRANSOM WINDOW SIZES



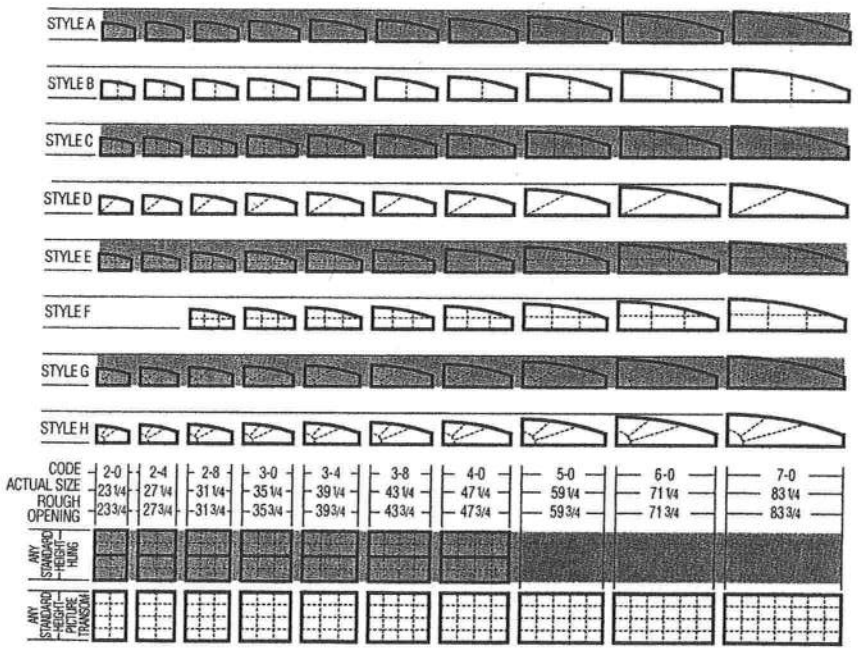
TWIN SINGLE HUNG UNIT SIZES



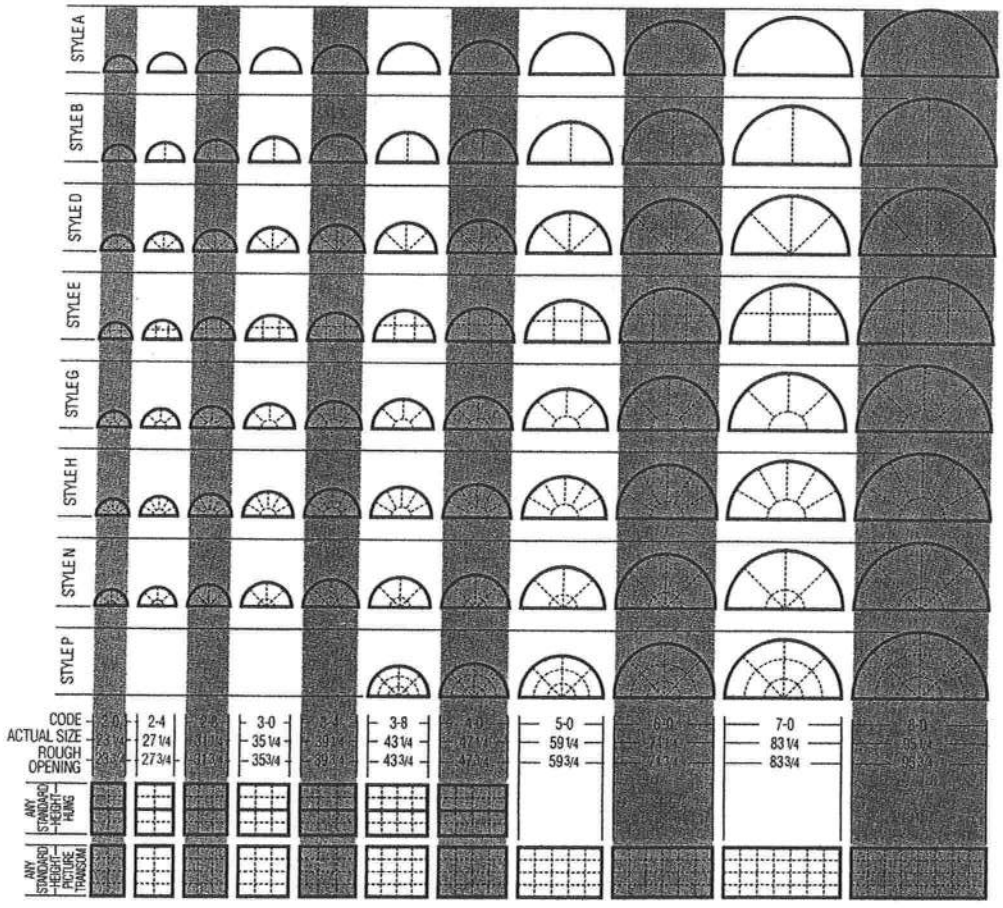
TRIPLE SINGLE HUNG UNIT SIZES



HALF EYEBROW WINDOW SIZES



CIRCLE TOP WINDOW SIZES



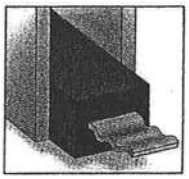
Swiggle® Seal Glass Spacer System

Swiggle Seal is a revolutionary seal system which works two ways to prevent condensation and the transference of heat and cold between panes of glass:

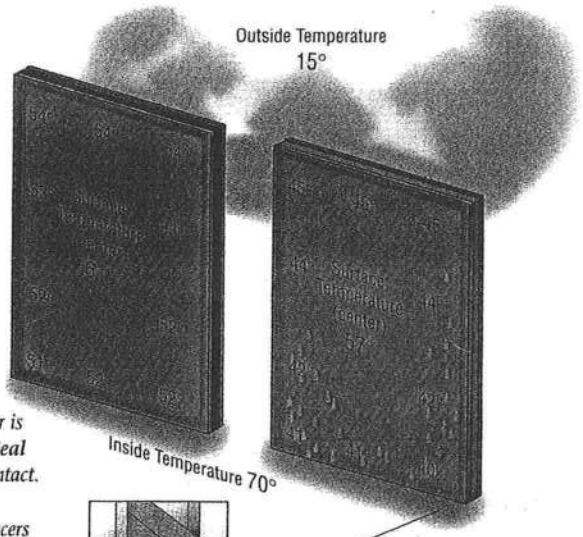
1 The advanced seal uses a specially formulated desiccant to actually absorb stray moisture and prevent damaging condensation.

2 A corrugated aluminum spacer is completely surrounded by the seal, eliminating the conductive metal to glass contact that causes traditional windows to lose much of their insulating properties.

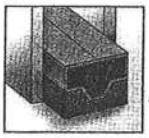
You'll enjoy a clearer view and less energy loss with BetterBilt windows using Swiggle Seal.

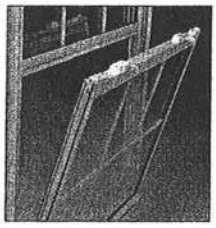


*A corrugated aluminum spacer is encapsulated in the **Swiggle Seal** to eliminate glass to metal contact.*

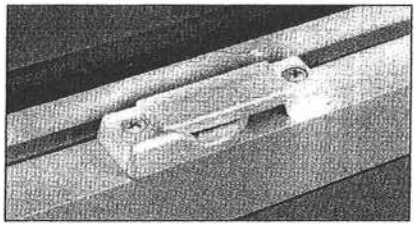


Traditional aluminum spacers directly contact the glass and allow heat and cold to be conducted through the window.



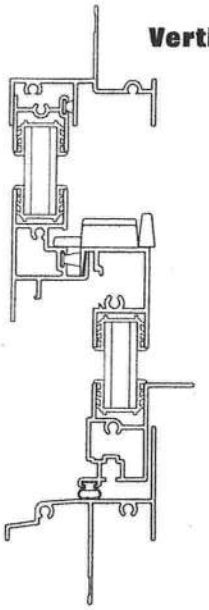


Bottom sash tilts for easy cleaning.

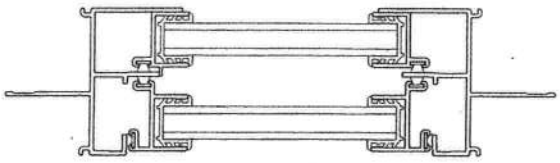


Two sweep locks at the meeting rail provide extra security.

Vertical Detail

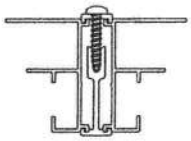


Horizontal Detail



Mullion Available

TWO PIECE MULL SYSTEM
INTERIOR-558, EXTERIOR-557, #10 x 1" SCREW
1/4" ADD ON



SINGLE HUNG OPENING SPECIFICATIONS

CODE SIZE	ACTUAL WINDOW SIZE	SASH RAISED Clear Opening Sq. Ft.	SASH RAISED Clear Opening Width x Height	SCREEN SIZE Width x Height	TOP GLASS SIZE Width x Height	BTM GLASS SIZE Width x Height
1624	17 1/4 x 27 1/4	1.01	14 1/2 x 10 1/16	15 1/8 x 13 7/16	15 x 11 3/4	15 x 11 3/4
1630	17 1/4 x 35 1/4	1.42	14 1/2 x 14 1/16	15 1/8 x 17 7/16	15 x 15 3/4	15 x 15 3/4
1638	17 1/4 x 43 1/4	1.82	14 1/2 x 18 1/16	15 1/8 x 21 7/16	15 x 19 3/4	15 x 19 3/4
1640	17 1/4 x 47 1/4	2.02	14 1/2 x 20 1/16	15 1/8 x 23 7/16	15 x 21 3/4	15 x 21 3/4
1644	17 1/4 x 51 1/4	2.22	14 1/2 x 22 1/16	15 1/8 x 25 7/16	15 x 23 3/4	15 x 23 3/4
1650	17 1/4 x 59 1/4	2.62	14 1/2 x 26 1/16	15 1/8 x 29 7/16	15 x 27 3/4	15 x 27 3/4
1660 Oriel	17 1/4 x 71 1/4	2.54	14 1/2 x 25 3/16	15 1/8 x 29 7/16	15 x 39 3/4	15 x 27 3/4
2024	23 1/4 x 27 1/4	1.43	20 1/2 x 10 1/16	21 1/8 x 13 7/16	21 x 11 3/4	21 x 11 3/4
2030	23 1/4 x 35 1/4	2.00	20 1/2 x 14 1/16	21 1/8 x 17 7/16	21 x 15 3/4	21 x 15 3/4
2038	23 1/4 x 43 1/4	2.57	20 1/2 x 18 1/16	21 1/8 x 21 7/16	21 x 19 3/4	21 x 19 3/4
2040	23 1/4 x 47 1/4	2.86	20 1/2 x 20 1/16	21 1/8 x 23 7/16	21 x 21 3/4	21 x 21 3/4
2044	23 1/4 x 51 1/4	3.14	20 1/2 x 22 1/16	21 1/8 x 25 7/16	21 x 23 3/4	21 x 23 3/4
2050	23 1/4 x 59 1/4	3.71	20 1/2 x 26 1/16	21 1/8 x 29 7/16	21 x 27 3/4	21 x 27 3/4
2060 Oriel	23 1/4 x 71 1/4	3.59	20 1/2 x 25 3/16	21 1/8 x 29 7/16	21 x 39 3/4	21 x 27 3/4
2424	27 1/4 x 27 1/4	1.71	24 1/2 x 10 1/16	25 1/8 x 13 7/16	25 x 11 3/4	25 x 11 3/4
2430	27 1/4 x 35 1/4	2.39	24 1/2 x 14 1/16	25 1/8 x 17 7/16	25 x 15 3/4	25 x 15 3/4
2438	27 1/4 x 43 1/4	3.07	24 1/2 x 18 1/16	25 1/8 x 21 7/16	25 x 19 3/4	25 x 19 3/4
2440	27 1/4 x 47 1/4	3.41	24 1/2 x 20 1/16	25 1/8 x 23 7/16	25 x 21 3/4	25 x 21 3/4
2444	27 1/4 x 51 1/4	3.75	24 1/2 x 22 1/16	25 1/8 x 25 7/16	25 x 23 3/4	25 x 23 3/4
2450	27 1/4 x 59 1/4	4.43	24 1/2 x 26 1/16	25 1/8 x 29 7/16	25 x 27 3/4	25 x 27 3/4
2460 Oriel	27 1/4 x 71 1/4	4.29	24 1/2 x 25 3/16	25 1/8 x 29 7/16	25 x 39 3/4	25 x 27 3/4
2624	29 1/4 x 27 1/4	1.85	29 1/2 x 10 1/16	27 1/8 x 13 7/16	27 x 11 3/4	27 x 11 3/4
2630	29 1/4 x 35 1/4	2.59	29 1/2 x 14 1/16	27 1/8 x 17 7/16	27 x 15 3/4	27 x 15 3/4
2638	29 1/4 x 43 1/4	3.32	29 1/2 x 18 1/16	27 1/8 x 21 7/16	27 x 19 3/4	27 x 19 3/4
2640	29 1/4 x 47 1/4	3.69	29 1/2 x 20 1/16	27 1/8 x 23 7/16	27 x 21 3/4	27 x 21 3/4
2644	29 1/4 x 51 1/4	4.06	29 1/2 x 22 1/16	27 1/8 x 25 7/16	27 x 23 3/4	27 x 23 3/4
2650	29 1/4 x 59 1/4	4.80	29 1/2 x 26 1/16	27 1/8 x 29 7/16	27 x 27 3/4	27 x 27 3/4
2660 Oriel	29 1/4 x 71 1/4	5.16	29 1/2 x 25 3/16	27 1/8 x 29 7/16	27 x 39 3/4	27 x 27 3/4
2830	31 1/4 x 35 1/4	2.78	28 1/2 x 14 1/16	29 1/8 x 17 7/16	29 x 15 3/4	29 x 15 3/4
2838	31 1/4 x 43 1/4	3.57	28 1/2 x 18 1/16	29 1/8 x 21 7/16	29 x 19 3/4	29 x 19 3/4
2840	31 1/4 x 47 1/4	3.97	28 1/2 x 20 1/16	29 1/8 x 23 7/16	29 x 21 3/4	29 x 21 3/4
2844	31 1/4 x 51 1/4	4.37	28 1/2 x 22 1/16	29 1/8 x 25 7/16	29 x 23 3/4	29 x 23 3/4
2850	31 1/4 x 59 1/4	5.16	28 1/2 x 26 1/16	29 1/8 x 29 7/16	29 x 27 3/4	29 x 27 3/4
2860 Oriel	31 1/4 x 71 1/4	4.99	28 1/2 x 25 3/16	29 1/8 x 29 7/16	29 x 39 3/4	29 x 27 3/4
3030	35 1/4 x 35 1/4	3.17	32 1/2 x 14 1/16	33 1/8 x 17 7/16	33 x 15 3/4	33 x 15 3/4
3038	35 1/4 x 43 1/4	4.08	32 1/2 x 18 1/16	33 1/8 x 21 7/16	33 x 19 3/4	33 x 19 3/4
3040	35 1/4 x 47 1/4	4.53	32 1/2 x 20 1/16	33 1/8 x 23 7/16	33 x 21 3/4	33 x 21 3/4
3044	35 1/4 x 51 1/4	4.98	32 1/2 x 22 1/16	33 1/8 x 25 7/16	33 x 23 3/4	33 x 23 3/4
3050	35 1/4 x 59 1/4	5.88	32 1/2 x 26 1/16	33 1/8 x 29 7/16	33 x 27 3/4	33 x 27 3/4
3060 Oriel	35 1/4 x 71 1/4	5.68	32 1/2 x 25 3/16	33 1/8 x 29 7/16	33 x 39 3/4	33 x 27 3/4
3070 Oriel	35 1/4 x 83 1/4	5.68	32 1/2 x 25 3/16	33 1/8 x 29 7/16	33 x 51 3/4	33 x 27 3/4
3080 Oriel	35 1/4 x 95 1/4	5.68	32 1/2 x 25 3/16	33 1/8 x 29 7/16	33 x 63 3/4	33 x 27 3/4
3430	39 1/4 x 35 1/4	3.56	36 1/2 x 14 1/16	37 1/8 x 17 7/16	37 x 15 3/4	37 x 15 3/4
3438	39 1/4 x 43 1/4	4.58	36 1/2 x 18 1/16	37 1/8 x 21 7/16	37 x 19 3/4	37 x 19 3/4
3440	39 1/4 x 47 1/4	5.09	36 1/2 x 20 1/16	37 1/8 x 23 7/16	37 x 21 3/4	37 x 21 3/4
3444	39 1/4 x 51 1/4	5.59	36 1/2 x 22 1/16	37 1/8 x 25 7/16	37 x 23 3/4	37 x 23 3/4
3450	39 1/4 x 59 1/4	6.61	36 1/2 x 26 1/16	37 1/8 x 29 7/16	37 x 27 3/4	37 x 27 3/4
3460 Oriel	39 1/4 x 71 1/4	6.38	36 1/2 x 25 3/16	37 1/8 x 29 7/16	37 x 39 3/4	37 x 27 3/4
3470 Oriel	39 1/4 x 83 1/4	6.38	36 1/2 x 25 3/16	37 1/8 x 29 7/16	37 x 51 3/4	37 x 27 3/4
3480 Oriel	39 1/4 x 95 1/4	6.38	36 1/2 x 25 3/16	37 1/8 x 29 7/16	37 x 63 3/4	37 x 27 3/4
3830	43 1/4 x 35 1/4	3.96	40 1/2 x 14 1/16	41 1/8 x 17 7/16	41 x 15 3/4	41 x 15 3/4
3838	43 1/4 x 43 1/4	5.08	40 1/2 x 18 1/16	41 1/8 x 21 7/16	41 x 19 3/4	41 x 19 3/4
3840	43 1/4 x 47 1/4	5.64	40 1/2 x 20 1/16	41 1/8 x 23 7/16	41 x 21 3/4	41 x 21 3/4
3844	43 1/4 x 51 1/4	6.21	40 1/2 x 22 1/16	41 1/8 x 25 7/16	41 x 23 3/4	41 x 23 3/4
3850	43 1/4 x 59 1/4	7.33	40 1/2 x 26 1/16	41 1/8 x 29 7/16	41 x 27 3/4	41 x 27 3/4
3860 Oriel	43 1/4 x 71 1/4	7.08	40 1/2 x 25 3/16	41 1/8 x 29 7/16	41 x 39 3/4	41 x 27 3/4
3870 Oriel	43 1/4 x 83 1/4	7.08	40 1/2 x 25 3/16	41 1/8 x 29 7/16	41 x 51 3/4	41 x 27 3/4
3880 Oriel	43 1/4 x 95 1/4	7.08	40 1/2 x 25 3/16	41 1/8 x 29 7/16	41 x 63 3/4	41 x 27 3/4
4030	47 1/4 x 35 1/4	4.35	44 1/2 x 14 1/16	45 1/8 x 17 7/16	45 x 15 3/4	45 x 15 3/4
4038	47 1/4 x 43 1/4	5.58	44 1/2 x 18 1/16	45 1/8 x 21 7/16	45 x 19 3/4	45 x 19 3/4
4040	47 1/4 x 47 1/4	6.20	44 1/2 x 20 1/16	45 1/8 x 23 7/16	45 x 21 3/4	45 x 21 3/4
4044	47 1/4 x 51 1/4	6.82	44 1/2 x 22 1/16	45 1/8 x 25 7/16	45 x 23 3/4	45 x 23 3/4
4050	47 1/4 x 59 1/4	8.05	44 1/2 x 26 1/16	45 1/8 x 29 7/16	45 x 27 3/4	45 x 27 3/4
4060 Oriel	47 1/4 x 71 1/4	7.78	44 1/2 x 25 3/16	45 1/8 x 29 7/16	45 x 39 3/4	45 x 27 3/4
4070 Oriel	47 1/4 x 83 1/4	7.78	44 1/2 x 25 3/16	45 1/8 x 29 7/16	45 x 51 3/4	45 x 27 3/4
4080 Oriel	47 1/4 x 95 1/4	7.78	44 1/2 x 25 3/16	45 1/8 x 29 7/16	45 x 63 3/4	45 x 27 3/4

BetterBilt DOORS AND WINDOWS

BetterBilt Doors & Windows
East Region: 704 12th Avenue • Smyrna, TN 37167 • 1-800-545-5413 • Fax: 1-800-255-8106
West Region: 7555 East Highway 69 • Prescott Valley, AZ 86314 • 1-800-468-0304 • Fax: 1-800-635-2718
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PTID_5438_I_Installation instructions - Capitol Nail Fin Alum Windows.pdf
PTID_5438_I_Installation instructions - Capitol Nail Fin Vinyl Windows.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 10/14/2005
Date Approved: 10/17/2005
Date Certified to the 2004 Code:

Page: Go

App/Seq #	Product Model # or Name	Model Description	Limits of Use
5438.21	740/3740 Fin Frame	52x71 Insulated DSB Annealed	R-45 DP-47.2 Per manufacturers installation instructions.
5438.22	740/3740 Fin Frame	52x71 Single Glazed 3/16" Annealed	R-35 DP-47.2 Per manufacturers installation instructions.
5438.23	740/3740 Fin Frame Oriel	52x71 Single Glazed 3/16" Annealed	R-35 DP-47.2 Per manufacturers installation instructions.
5438.24	740/3740 Fin Frame Oriel	47x89 Single Glazed 3/16" Annealed	R-35 DP-47.2 Per manufacturers installation instructions.
5438.25	740/3740 Fin Frame Oriel	39x90 Single Glazed 3/16" Annealed Sash / DSB Tempered Fixed	R-35* DP-47.2 Per manufacturers installation instructions.
5438.26	740/3740 Flange Frame	52x71 Single Glazed DSB Tempered	R-45 DP-47.2 Per manufacturers installation instructions.
5438.27	740/3740 Flange Frame	52x71 Insulated DSB Annealed	R-45 DP-47.2 Per manufacturers installation instructions.
5438.28	740/3740 Flange Frame	53x72 Single Glazed 3/16" Annealed	R-25 DP-34.7 Per manufacturers installation instructions.
5438.29	740/3740 Flange Frame Oriel	47x89 Single Glazed DSB Tempered	R-35 DP-42.9 Per manufacturers installation instructions.
5438.30	740/3740 Flange Frame Oriel	47x89 Insulated 3/16" Annealed	R-35 DP-42.7 Per manufacturers installation instructions.
	740/3740 Flange Frame	36x88 Insulated 3/16" Annealed	R-35* DP-47.2 Per

5418.13	740 Flange Frame	71x71 Insulated DSB Tempered	R-35 DP -45.3 Per manufacturers installation instructions.
5418.14	740 Flange Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.15	740/3740 Flange Frame	109x53 Single Glazed DSB Tempered	R-40 DP -40 Per manufacturers installation instructions.
5418.16	8500 Fin Frame	65x84 Insulated DSB Annealed	R-30 DP -40 Per manufacturers installation instructions.
5418.17	8500/1250 Finless Frame	72x96 Insulated DSB Tempered	R-30 DP -35 Per manufacturers installation instructions.
5418.18	8500/1250 Finless Frame	62x80 Insulated DSB Annealed	R-45 DP -45 Per manufacturers installation instructions.
5418.19	8500/1250 Finless Frame	48x48 Insulated DSB Annealed	R-65 DP -70 Per manufacturers installation instructions.
5418.20	Insight Series	62x63 Insulated DSB Annealed	R-25 DP -34.7 Per manufacturers installation instructions.

Next

BetterBilt Nail Fin Alum Windows.pdf
PTID_5418_I_Installation instructions - BetterBilt Nail Fin Vinyl Windows.pdf
PTID_5418_I_Installation instructions - Capitol Nail Fin Alum Windows.pdf
PTID_5418_I_Installation instructions - Capitol Nail Fin Vinyl Windows.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 10/14/2005
Date Approved: 10/17/2005
Date Certified to the 2004 Code:

Page: Go

App/Seq #	Product Model # or Name	Model Description	Limits of Use
5418.1	165 Fin Frame	72x72 Single Glazed 3/16" Tempered	C-35 DP -47.2 Per manufacturers installation instructions.
5418.2	165 Fin Frame	71x71 Single Glazed DSB Tempered	R-45 DP -47.2 Per manufacturers installation instructions.
5418.3	165 Fin Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.4	165 Flange Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.5	165/3000 Flange Beveled Frame	72x72 Single Glazed 3/16" Tempered	C-45 DP -47.2 Per manufacturers installation instructions.
5418.6	4300/4340 Fin Frame	60x72 DSB Annealed	LC-45 DP -50 Per manufacturers installation instructions.
5418.7	4300/4340 Fin Frame	48x48 SSB Annealed	LC-60 DP -60 Per manufacturers installation instructions.
5418.8	4300/4340 Fin Frame	65x84 DSB Annealed	LC-30 DP -35 Per manufacturers installation instructions.
5418.9	650 Flange Frame	60x80 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.10	740 Fin Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.11	740 Fin Frame	71x71 Single Glazed DSB Tempered	R-45 DP -47.2 Per manufacturers installation instructions.
5418.12	740 Flange Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.

MI HOME PRODUCTS

- PRIME ALUMINUM WINDOWS -

INSTALLATION INSTRUCTIONS FOR "NAIL FIN" PRODUCTS

MI Home Products 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.

2. Set unit plumb and square into opening and make sure that there is 3/16" ± 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 before any and all fasteners are set.

3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (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". Install load bearing shim adjacent to each anchor. Use shim where space exceeds 1/16".

4. Flash over head and caulk outside perimeter in accordance with code requirements and good installation practices.

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 any other debris that may have collected on the unit and make sure that sash/vent tracks and interlocks are also clear. 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 as you would you automobile.

- CAUTION -

MI Home Products 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 laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. MI Home Products window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing near doors, bathtubs, and shower enclosures. Also be aware of emergency egress code requirements.

Corporate Headquarters:
360 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

FLORIDA DEPARTMENT OF Community Affairs

FLORIDA DEPARTMENT OF Community Affairs

Product Approval

USER: Public User

FL #	FL250-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer Address/Phone/Email	CertainTeed Corporation-Roofing PO Box 1100 1400 Union Meeting Rd Blue Bell, PA 19422 (610) 341-6678 allan.r.snyder@saint-gobain.com
Authorized Signature	Richard Snyder allan.r.snyder@saint-gobain.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Miami-Dade BCCO - CER

Referenced Standard and Year (of Standard)	**Standard** ASTM D3462 ASTM E108 TAS 100 TAS 107 TAS 110 UL 790
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	09/08/2005
Date Validated	09/08/2005
Date Pending FBC Approval	09/27/2005
Date Approved	10/11/2005

Summary of Products

FL #	Model, Number or Name	Description
250.1	Carriage House Shangle	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** PTID_250_R1_I_010503(Series.pdf PTID_250_R1_I_010516(PTID_250_R1_I_010612(PTID_250_R1_I_020110(Series.pdf PTID_250_R1_I_021216(CT20_XT25_XT30_Patriot PTID_250_R1_I_021219(Series.pdf PTID_250_R1_I_040616(Grand Manor.pdf Verified By:
250.2	Classic Horizon Shangle	Fiberglass 3 tab overlay s
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:

250.3	CT 20 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.4	Grand Manor Shangle	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.5	Hatteras	Fiberglass 4 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.6	Landmark 30 (and AR)	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.7	Landmark 40 (and AR)	Fiberglass laminate shingl
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.8	Landmark 50 (and AR)	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.9	Landmark TL	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:**		**Certification Agency Ce** **Installation Instruction** Verified By:

Impact Resistant: **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		
250.10	Patriot AR	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.11	Presidential Shake (and AR)	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.12	Presidential Shake TL	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.13	Presidential Shake TL AR	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.14	XT 25 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.15	XT 30 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:

Back Next

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

FLORIDA DEPARTMENT OF Community Affairs

FLORIDA DEPARTMENT OF Community Affairs

Product Approval

USER: Public User

FL #	FL250-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer Address/Phone/Email	CertainTeed Corporation-Roofing PO Box 1100 1400 Union Meeting Rd Blue Bell, PA 19422 (610) 341-6678 allan.r.snyder@saint-gobain.com
Authorized Signature	Richard Snyder allan.r.snyder@saint-gobain.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Miami-Dade BCCO - CER

Referenced Standard and Year (of Standard)	**Standard**
	ASTM D3462
	ASTM E108
	TAS 100
	TAS 107
	TAS 110
	UL 790

Equivalence of Product Standards Certified By

Product Approval Method	Method 1 Option A
Date Submitted	09/08/2005
Date Validated	09/08/2005
Date Pending FBC Approval	09/27/2005
Date Approved	10/11/2005

Summary of Products

FL #	Model, Number or Name	Description
250.1	Carriage House Shangle	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** PTID_250_R1_I_010503(Series.pdf PTID_250_R1_I_010516(PTID_250_R1_I_010612(PTID_250_R1_I_020110(Series.pdf PTID_250_R1_I_021216(CT20_XT25_XT30_Patriot PTID_250_R1_I_021219(Series.pdf PTID_250_R1_I_040616(Grand Manor.pdf Verified By:
250.2	Classic Horizon Shangle	Fiberglass 3 tab overlay s
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:

250.3	CT 20 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.4	Grand Manor Shangle	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.5	Hatteras	Fiberglass 4 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.6	Landmark 30 (and AR)	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.7	Landmark 40 (and AR)	Fiberglass laminate shingl
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.8	Landmark 50 (and AR)	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.9	Landmark TL	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:**		**Certification Agency Ce** **Installation Instruction** Verified By:

Impact Resistant: **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		
250.10	Patriot AR	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.11	Presidential Shake (and AR)	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.12	Presidential Shake TL	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.13	Presidential Shake TL AR	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.14	XT 25 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.15	XT 30 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:

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DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

Load Short Form
ZONE 1
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Design Information

	Htg	Clg
Outside db (°F)	17	91
Inside db (°F)	70	75
Design TD (°F)	53	16
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	35

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make Ruud
Trade Ruud UPNE Series
Model UPNE-042J*Z

Efficiency	8.5 HSPF	
Heating input		
Heating output	41000	Btuh @ 47°F
Temperature rise	28	°F
Actual air flow	1350	cfm
Air flow factor	0.026	cfm/Btuh
Static pressure	0.01	in H2O
Space thermostat		

COOLING EQUIPMENT

Make Ruud
Trade Ruud UPNE Series
Cond UPNE-042J*Z
Coil 21AHSA42HM+RCSA-H*4821A*

Efficiency	13 SEER	
Sensible cooling	28350	Btuh
Latent cooling	12150	Btuh
Total cooling	40500	Btuh
Actual air flow	1350	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.01	in H2O
Load sensible heat ratio	0.86	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
LAUNDRY	109	3870	4213	99	191
BEDROOM 3	163	5739	1916	147	87
BEDROOM 2	181	5604	2240	143	101
BATH	63	128	167	3	8
COMPUTER AREA	92	2272	2258	58	102
HALL	44	89	116	2	5
DINING	174	3504	1505	90	68
KITCHEN	195	396	3729	10	169
NOOK	90	5325	2744	136	124
1/2 BATH / HALL	54	110	143	3	6
ENTRY/STAIRS	109	4597	1582	118	72
LIVING	323	6196	3530	159	160
M/BEDROOM	218	7958	3209	204	145
M/BATH/CLOSETS	243	6945	2500	178	113

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

ZONE 1	d	2057	52733	29852	1350	1350
Other equip loads			4316	1303		
Equip. @ 0.96	RSM			29909		
Latent cooling				4923		
TOTALS		2057	57049	34832	1350	1350

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

Load Short Form
ZONE 2
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Design Information

	Htg	Clg
Outside db (°F)	17	91
Inside db (°F)	70	75
Design TD (°F)	53	16
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	35

Infiltration	
Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make Ruud
Trade Ruud UPNE Series
Model UPNE-024J*Z

Efficiency	8.3 HSPF	
Heating input		
Heating output	22600	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	780	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0.10	in H2O
Space thermostat		

COOLING EQUIPMENT

Make Ruud
Trade Ruud UPNE Series
Cond UPNE-024J*Z
Coil RCFA-H*2417A*+RXMD-C04

Efficiency	13 SEER	
Sensible cooling	16380	Btuh
Latent cooling	7020	Btuh
Total cooling	23400	Btuh
Actual air flow	780	cfm
Air flow factor	0.071	cfm/Btuh
Static pressure	0.10	in H2O
Load sensible heat ratio	0.84	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BONUS	1006	18287	11029	780	780
ZONE 2 d	1006	18287	11029	780	780
Other equip loads		4540	432		
Equip. @ 0.96 RSM			11003		
Latent cooling			2187		
TOTALS	1006	22827	13189	780	780

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

Building Analysis
Entire House
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Design Conditions

Location:
Washington National AP, DC, US
Elevation: 0 ft
Latitude: 38 °N

Outdoor:	Heating	Cooling
Dry bulb (°F)	17	91
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	74
Wind speed (mph)	15.0	7.5

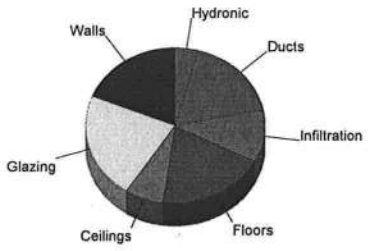
Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	53	16
Relative humidity (%)	30	50
Moisture difference (gr/lb)	22.3	34.7

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	0

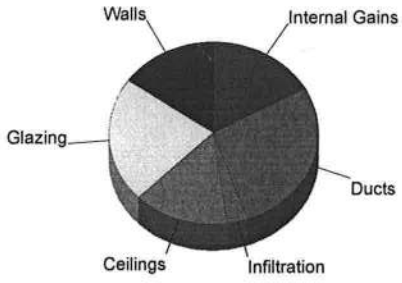
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.8	14025	18.9
Glazing	48.1	16293	22.0
Doors	0.0	0	0.0
Ceilings	1.7	5194	7.0
Floors	4.7	14431	19.5
Infiltration	2.5	8044	10.9
Ducts		13034	17.6
Piping		3110	4.2
Humidification		0	0.0
Ventilation		0	0.0
Adjustments		0	
Total		**74130**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.7	6219	15.2
Glazing	26.7	9063	22.2
Doors	0.0	0	0.0
Ceilings	2.0	6076	14.9
Floors	0.0	0	0.0
Infiltration	0.4	1301	3.2
Ducts		11303	27.6
Ventilation		0	0.0
Internal gains		6920	16.9
Blower		0	0.0
Adjustments		0	
Total		**40882**	**100.0**



Overall U-value = 0.112 Btuh/ft²-°F

Data entries checked.

Building Analysis
ZONE 1
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Design Conditions

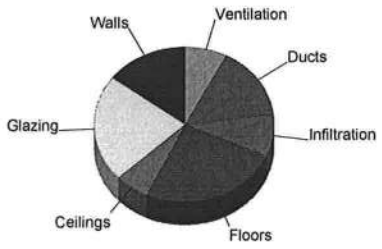
Location:
Washington National AP, DC, US
Elevation: 0 ft
Latitude: 38 °N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	17	91
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	74
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	53	16
Relative humidity (%)	30	50
Moisture difference (gr/lb)	22.3	34.7
Infiltration:		
Method	Simplified	
Construction quality	Average	
Fireplaces	0	

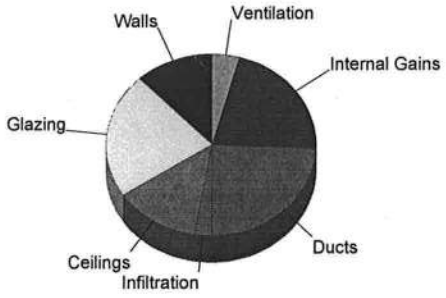
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.3	8411	14.7
Glazing	48.6	12696	22.3
Doors	0.0	0	0.0
Ceilings	1.7	3488	6.1
Floors	7.0	14431	25.3
Infiltration	2.5	4967	8.7
Ducts		8740	15.3
Piping		0	0.0
Humidification		0	0.0
Ventilation		4316	7.6
Adjustments		0	
Total		**57049**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.5	3730	12.0
Glazing	26.6	6949	22.3
Doors	0.0	0	0.0
Ceilings	2.0	4081	13.1
Floors	0.0	0	0.0
Infiltration	0.4	803	2.6
Ducts		7600	24.4
Ventilation		1303	4.2
Internal gains		6690	21.5
Blower		0	0.0
Adjustments		0	
Total		**31155**	**100.0**



Overall U-value = 0.134 Btuh/ft²-°F

Data entries checked.

Building Analysis
ZONE 2
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Design Conditions

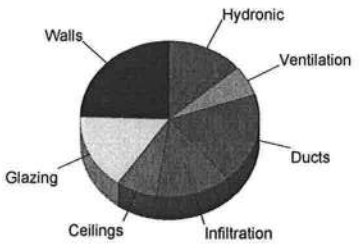
Location:
Washington National AP, DC, US
Elevation: 0 ft
Latitude: 38 °N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	17	91
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	74
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	53	16
Relative humidity (%)	30	50
Moisture difference (gr/lb)	22.3	34.7
Infiltration:		
Method	Simplified	
Construction quality	Average	
Fireplaces	0	

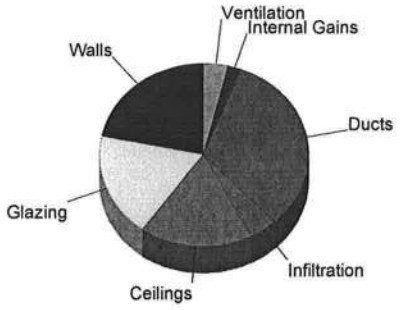
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.8	5614	24.6
Glazing	46.1	3597	15.8
Doors	0.0	0	0.0
Ceilings	1.7	1705	7.5
Floors	0.0	0	0.0
Infiltration	2.5	3077	13.5
Ducts		4294	18.8
Piping		3110	13.6
Humidification		0	0.0
Ventilation		1430	6.3
Adjustments		0	
Total		**22827**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.1	2489	21.7
Glazing	27.1	2114	18.4
Doors	0.0	0	0.0
Ceilings	2.0	1995	17.4
Floors	0.0	0	0.0
Infiltration	0.4	498	4.3
Ducts		3703	32.3
Ventilation		432	3.8
Internal gains		230	2.0
Blower		0	0.0
Adjustments		0	
Total		**11461**	**100.0**



Overall U-value = 0.063 Btuh/ft²-°F

Data entries checked.

Project Summary
Entire House
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Notes:

Design Information

Weather: Washington National AP, DC, US

Winter Design Conditions

Outside db	17	°F
Inside db	70	°F
Design TD	53	°F

Summer Design Conditions

Outside db	91	°F
Inside db	75	°F
Design TD	16	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	35	gr/lb

Heating Summary

Structure	57986	Btuh
Ducts	13034	Btuh
Central vent (99 cfm)	0	Btuh
Humidification	0	Btuh
Piping	3110	Btuh
Equipment load	74130	Btuh

Sensible Cooling Equipment Load Sizing

Structure	29579	Btuh
Ducts	11303	Btuh
Central vent (99 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.96	
Equipment sensible load	39247	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	3062	3062
Volume (ft³)	29565	29565
Air changes/hour	0.28	0.15
Equiv. AVF (cfm)	138	74

Latent Cooling Equipment Load Sizing

Structure	2542	Btuh
Ducts	2245	Btuh
Central vent (99 cfm)	0	Btuh
Equipment latent load	4787	Btuh
Equipment total load	44034	Btuh
Req. total capacity at 0.70 SHR	4.7	ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a

Efficiency	n/a	
Heating input		
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	0	cfm
Air flow factor	0.000	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat	n/a	

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	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	0.000	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.00	

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

Project Summary
ZONE 1
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Notes:

Design Information

Weather: Washington National AP, DC, US

Winter Design Conditions

Outside db	17	°F
Inside db	70	°F
Design TD	53	°F

Summer Design Conditions

Outside db	91	°F
Inside db	75	°F
Design TD	16	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	35	gr/lb

Heating Summary

Structure	43994	Btuh
Ducts	8740	Btuh
Central vent (74 cfm)	4316	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	57049	Btuh

Sensible Cooling Equipment Load Sizing

Structure	22253	Btuh
Ducts	7600	Btuh
Central vent (74 cfm)	1303	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.96	
Equipment sensible load	29909	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2057	2057
Volume (ft³)	20515	20515
Air changes/hour	0.25	0.13
Equiv. AVF (cfm)	85	46

Latent Cooling Equipment Load Sizing

Structure	1675	Btuh
Ducts	1503	Btuh
Central vent (74 cfm)	1744	Btuh
Equipment latent load	4923	Btuh
Equipment total load	34832	Btuh
Req. total capacity at 0.70 SHR	3.6	ton

Heating Equipment Summary

Make Ruud
Trade Ruud UPNE Series
Model UPNE-042J*Z

Efficiency	8.5 HSPF	
Heating input		
Heating output	41000	Btuh @ 47°F
Temperature rise	28	°F
Actual air flow	1350	cfm
Air flow factor	0.026	cfm/Btuh
Static pressure	0.01	in H2O
Space thermostat		

Cooling Equipment Summary

Make Ruud
Trade Ruud UPNE Series
Cond UPNE-042J*Z
Coil 21AHSA42HM+RCSA-H*4821A*

Efficiency	13 SEER	
Sensible cooling	28350	Btuh
Latent cooling	12150	Btuh
Total cooling	40500	Btuh
Actual air flow	1350	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.01	in H2O
Load sensible heat ratio	0.86	

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Project Summary
ZONE 2
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

Notes:

Design Information

Weather: Washington National AP, DC, US

Winter Design Conditions

Outside db	17	°F
Inside db	70	°F
Design TD	53	°F

Summer Design Conditions

Outside db	91	°F
Inside db	75	°F
Design TD	16	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	35	gr/lb

Heating Summary

Structure	13993	Btuh
Ducts	4294	Btuh
Central vent (25 cfm)	1430	Btuh
Humidification	0	Btuh
Piping	3110	Btuh
Equipment load	22827	Btuh

Sensible Cooling Equipment Load Sizing

Structure	7326	Btuh
Ducts	3703	Btuh
Central vent (25 cfm)	432	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.96	
Equipment sensible load	11003	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1006	1006
Volume (ft³)	9050	9050
Air changes/hour	0.35	0.19
Equiv. AVF (cfm)	53	28

Latent Cooling Equipment Load Sizing

Structure	866	Btuh
Ducts	743	Btuh
Central vent (25 cfm)	578	Btuh
Equipment latent load	2187	Btuh
Equipment total load	13189	Btuh
Req. total capacity at 0.70 SHR	1.3	ton

Heating Equipment Summary

Make	Ruud
Trade	Ruud UPNE Series
Model	UPNE-024J*Z

Efficiency	8.3 HSPF	
Heating input		
Heating output	22600	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	780	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0.10	in H2O
Space thermostat		

Cooling Equipment Summary

Make	Ruud
Trade	Ruud UPNE Series
Cond	UPNE-024J*Z
Coil	RCFA-H*2417A*+RXMD-C04

Efficiency	13 SEER	
Sensible cooling	16380	Btuh
Latent cooling	7020	Btuh
Total cooling	23400	Btuh
Actual air flow	780	cfm
Air flow factor	0.071	cfm/Btuh
Static pressure	0.10	in H2O
Load sensible heat ratio	0.84	

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

Duct System Summary
ZONE 1
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

	Heating	Cooling
External static pressure	***0.01*** in H2O	***0.01*** in H2O
Pressure losses	0.25 in H2O	0.25 in H2O
Available static pressure	-0.2 in H2O	-0.2 in H2O
Supply / return available pressure	-0.14 / -0.10 in H2O	-0.14 / -0.10 in H2O
Lowest friction rate	***0.100*** in/100ft	***0.100*** in/100ft
Actual air flow	1350 cfm	1350 cfm
Total effective length (TEL)	250 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
LAUNDRY-A	c	2107	50	95	0.100	7	8x5	VlFx	150.0	0.0	ST1
LAUNDRY	c	2107	50	95	0.100	7	8x5	VlFx	150.0	0.0	ST1
BEDROOM 3	h	5739	147	87	0.100	8	8x6	VlFx	150.0	0.0	ST1
BEDROOM 2	h	5604	143	101	0.100	8	8x6	VlFx	150.0	0.0	ST1A
BATH	c	167	3	8	0.100	4	8x1	VlFx	150.0	0.0	ST1
COMPUTER AREA	c	2258	58	102	0.100	7	8x5	VlFx	150.0	0.0	ST1
HALL	c	116	2	5	0.100	4	8x1	VlFx	150.0	0.0	ST1
DINING	h	3504	90	68	0.100	6	8x4	VlFx	150.0	0.0	ST1
KITCHEN	c	3729	10	169	0.100	8	8x6	VlFx	150.0	0.0	ST1
NOOK	h	5325	136	124	0.100	8	8x6	VlFx	150.0	0.0	ST1
1/2 BATH / HALL	c	143	3	6	0.100	4	8x1	VlFx	150.0	0.0	ST1
ENTRY/STAIRS	h	4597	118	72	0.100	7	8x5	VlFx	150.0	0.0	ST1
LIVING	c	3530	159	160	0.100	8	8x6	VlFx	150.0	0.0	ST1
M/BEDROOM	h	7958	204	145	0.100	9	8x8	VlFx	150.0	0.0	ST1
M/BATH/CLOSETS	h	6945	178	113	0.100	8	8x6	VlFx	150.0	0.0	ST1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
ST1	Peak AVF	1350	1350	0.100	506	21	16 x 24	RectFbg	
ST1A	Peak AVF	143	101	0.100	323	10	16 x 4	RectFbg	ST1

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)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb3	0x0	147	87	100.0	0.100	441	8	8x 6		VlFx	
rb2	0x0	143	101	100.0	0.100	430	8	8x 6		VlFx	
rb4	0x0	159	160	100.0	0.100	479	8	8x 6		VlFx	
rb5	0x0	204	145	100.0	0.100	458	9	8x 8		VlFx	

Duct System Summary
ZONE 2
LARRY RESMONDO AIR CONDITIONING

Job: WALT AND KRISSY SMI...
Date: Feb 28, 2007
By:

Project Information

For: JERRY RYE, RYE CONSTRUCTION

	Heating	Cooling
External static pressure	***0.10*** in H2O	***0.10*** in H2O
Pressure losses	0.25 in H2O	0.25 in H2O
Available static pressure	-0.2 in H2O	-0.2 in H2O
Supply / return available pressure	-0.08 / -0.07 in H2O	-0.08 / -0.07 in H2O
Lowest friction rate	***0.010*** in/100ft	***0.010*** in/100ft
Actual air flow	780 cfm	780 cfm
Total effective length (TEL)	130 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BONUS-A	c 6095	260	260	0.010	12	8x15	VIFx	70.0	0.0	st1
BONUS-B	c 6095	260	260	0.010	12	8x15	VIFx	70.0	0.0	st1
BONUS	c 3677	260	260	0.010	12	8x15	VIFx	70.0	0.0	st1A

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1	Peak AVF	780	780	0.010	305	21	16 x 23	RectFbg	
st1A	Peak AVF	0	0	0.010	0	0	16 x 0	RectFbg	st1

Bold/italic values have been manually overridden

GEO-TECH, INC.

ENGINEERING CONSULTANTS IN GEOTECHNICAL • ENVIRONMENTAL • CONSTRUCTION MATERIALS TESTING

February 27, 2007
Project No. 073206.01G

Rye Construction Company, Inc.
3817 N.W. 28th Terrace
Gainesville, Florida 32605

Attention: Jerry Rye

Reference: Proposed Smith Residence
Walter Little Road
Columbia County, Florida

Dear Mr. Rye,

As requested, Geo-Tech, Inc. has performed a preliminary geotechnical engineering investigation and evaluation of the site for the proposed Smith residence to be constructed near Walter Little Road in Columbia County, Florida. The purposes of our investigation were to identify shallow subsurface soils within the proposed building limits, to comment on the suitability of these soils for conventional foundation systems, and to provide preliminary recommendations for site preparation and other geotechnical concerns as required.

We understand the residence will be single-story and have a plan area of about 2,500 square feet. Support for the residence is to be provided by conventional, shallow spread footings and stem walls. Foundation loads were not provided; however, we believe column and wall loads will not exceed 25 kips and 1.5 kips per foot, respectively.

Site Investigation

Subsurface conditions at the site were investigated by performing four (4) auger borings advanced to depths of 10 feet. Borings were performed at the relative locations indicated on the attached drawing. These locations were selected by Geo-Tech, Inc., and the building limits were staked on site. Representative samples of the site soils were collected and returned to our laboratory for visual examination and classification by a geotechnical engineer.

Auger borings are performed by mechanically advancing a slender, solid-stem, flight auger into the soil to the desired depth, by retracting the auger, and by examining cuttings recover on the auger flights. Samples are examined for soil type and color.

Findings

The soil borings generally encountered three soil strata. The first layer consists of 1 to 6 feet of grayish brown, tannish gray or grayish tan sand (SP) and/or sand with silt (SP/SM).

The second layer consists of 1 to 4 or more feet of generally grayish orange or gray and orange, clayey sand (SC). The third layer consists of 5 to 8 or more feet of generally gray, orange and red, sandy clay (CL) or clay with sand (CH).

Ground water was not encountered at any boring location at the time of our investigation, and we believe the wet season water table will occur at a depth of more than 4 feet below the existing surface grade. Note however that storm water will perch on the clayey soils encountered near the ground surface that may make site preparation, especially compaction, difficult.

For a more detailed description of the subsurface conditions encountered, please refer to the attached borings logs. Note specifically the transition between soil layers is typically gradual and not abrupt as indicated by the logs; therefore, the thickness of soil layers should be considered approximate.

Discussion and Recommendations

Based upon our findings, we believe the building site should be moved in an easterly direction to possibly avoid the clay soils encountered at boring locations A-1 and A-2. We believe the clay soils encountered at these two boring locations are moderately active implying a moderate risk of shrink/swell behavior that could cause movement of the foundations or floor slabs. Alternatively, the building site can be filled to provide separation between the foundations and the clay soils, or some combination of fill placement with limited excavation and replacement of clay soils can be performed. Should the building site be moved, additional borings should be performed as required to investigate the new building area.

The local standard-of-care for placing conventional, shallow footings over active clay soils is to provide separation between the active soils and the bottoms of the foundations. For slightly active soils 3 feet of separation is typically suggested. For moderately to highly active soils 4 to 5 or more feet is suggested. Note however that providing separation between foundations and active soils does not provide a guarantee that some foundation or slab movement will not occur. It does however reduce the likelihood of significant movement.

Should you choose to excavate and replace the clay soils, we suggest the clay soils be excavated and replaced to a minimum depth of 4 feet below the bottoms of the foundations and 3 feet below floor slabs. The lateral limits of excavation should extend a minimum of 2.5 feet beyond the edges of the foundations. We recommend a sufficient portion of the excavated clay soil be retained on site and used as backfill at the outer

edges of the stem walls. These clay replacement soils will help reduce the transfer of moisture between the ground surface and the clay soils that remain below the foundations. These clay soils should be proof-compacted for full depth to a minimum of 95% of the Standard Proctor maximum dry density or to 90% of the Modified Proctor maximum dry density, as you prefer. Additionally, the upper surface of the clay replacement soils should be sloped away from the structure in order to direct storm water away from the foundations. Grading of the site and/or elevations should be selected such that a minimum of 6 inches of sandy surface soil is present above the clay replacement soils. The residence should also be equipped with storm gutters and down spouts that will transfer storm water away from foundation areas. Swales should also be provided as required to direct surface flow away from the residence.

Fill or replacement soil generally should consist of clean, fine sand containing less than 10% passing the No. 200 sieve. Replacement soil may however consist of clayey sand containing less than about 25% passing the No. 200 sieve. For either soil the maximum lift thickness should not exceed 12 inches, and each lift should be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density.

With exception of the clay soils encountered, we believe the site soils are suitable to provide support for the residence using conventional, shallow spread footings and recommend footings be sized to exert a maximum soil bearing pressure of 2,500 pounds per square foot. Additionally, we recommend footings have minimum widths of 18 and 24 inches for strip and isolated footings, respectively. The bottoms of foundations should be embedded a minimum of 18 inches below the finished surface grade.

The building site should be stripped of grass, roots, topsoil and other deleterious materials that may be present. Excavation should then be performed as required to establish the appropriate site grading and to remove clay soils. Suitable replacement soils should then be placed as required and compacted.

The site should then be thoroughly proof-rolled using heavy, rubber-tired equipment (a large, loaded front-end loader, for example). Proof-rolling helps to compact the bearing soils and to locate zones of especially loose soil that may be present, such as former stump areas or areas previously excavated and filled. Such zones of loose soil should be excavated and replaced or otherwise treated as directed by the geotechnical engineer.

The site should then be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a depth of 2 feet in foundation areas and 1 foot in floor areas. We recommend using a vibratory-drum roller having a minimum static weight of 5 tons to perform this compaction.

Additional replacement or fill soils may be placed as required. These soils generally should consist of clean, fine sand containing less than 10% passing the No. 200 sieve. However, clayey sands containing less than about 25% passing the No. 200

sieve may also be used if desired. Maximum lift thickness should not exceed 12 inches, and each lift should be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density.

Field density testing should be performed in the compacted subgrade, in each lift of fill, and in foundation excavations to verify the recommended compaction has been achieved.

Note again that excavation and replacement of active soils to the suggested depth of 4 feet below the bottoms of foundations provides no guarantee that some foundation or slab movement will not occur. Also note that Standard Penetration Test borings to determine soil densities were not performed. Therefore, the site preparation recommendations provided within this report are preliminary and are based upon the assumption the sandy surface soils present at this site are not in a very loose condition. For all residential construction of significance and commercial construction, we recommend site investigation specifically include Standard Penetration Test borings to evaluate densities of the existing site soils in order to prepare specific site preparation recommendations.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us if you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Geo-Technologies, Inc.

John C. Dorman, Jr., Ph.D., P.E. 2/27/07
Geotechnical Engineer 52 612

A-1

Ground Water: N/A

Depth (ft)	Soil Description
0	Grayish Brown SAND with SILT (SP/SM)
	Orangish Gray, CLAYEY SAND (SC)
5	Orangish Gray, Light Gray, Orange and Red, VERY SANDY CLAY (CL)
	Light Gray, Light Orange and Red, SANDY CLAY (CL)
10	Light Gray and Light Orange, CLAYEY SAND (SC)

A-2

Ground Water: N/A

Depth (ft)	Soil Description
0	Grayish Brown SAND with SILT (SP/SM)
	Grayish Orange, CLAYEY SAND (SC)
5	Light Gray, Red and Orange, SANDY CLAY (CL)
10	Light Gray and Orange, CLAY with SAND (CH)

A-3

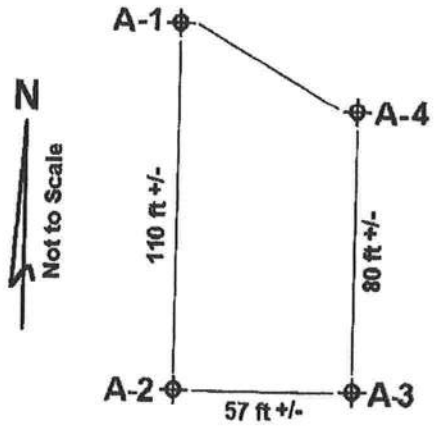
Ground Water: N/A

Depth (ft)	Soil Description
0	Tannish Gray SAND with SILT (SP/SM)
5	Grayish Tan SAND (SP)
	Orange and Gray, SLIGHTLY CLAYEY SAND (SC)
10	Orange and Gray, CLAYEY SAND (SC)

A-4

Ground Water: N/A

Depth (ft)	Soil Description
0	Tannish Gray SAND with SILT (SP/SM)
5	Light Tannish Gray SAND (SP)
	Light Orange, SLIGHTLY CLAYEY SAND (SC)
10	Light Tannish Orange SAND (SP)



Boring Logs and Location Plan: Walter Smith Residence
Columbia County, Florida

25765 (SPD)
25766

GEO-TECH, INC.

Engineering Consultants in Geotechnical • Environmental • Construction Materials Testing

FIELD DENSITY WORKSHEET

CLIENT RYE Const. DATE 9 MAY 07

PROJECT NO.

PROJECT NAME SMITH RES. LAKE CITY PERMIT NO. #00025465

~~EARTH CONTRACTOR~~ 1214 SW WALTER AVE TESTED BY JMC

❑ Standard Proctor

COMPACTION REQUIREMENT (%) 95% ☑ Modified Proctor FIELD CONTACT Jerry

TOTAL ON-SITE TIME MILES FROM OFFICE

❑ Limerock ❑ Subgrade ❑ Pipe Backfill ☑ Building Pad ☑ Building Footing ❑ Other

TEST LOCATION	LAB PROCTOR DENS.	LAB PROCTOR OMC	TEST DEPTH	PROBE DEPTH	% MOIST.	WET DENSITY (PCF)	DRY DENSITY (PCF)	% COMP.
House FTGS.								
CTR. of W. FTG.	110.4	10.1	FG	12"	4.6	112.6	107.6	97.5
CTR. of C. FTG					4.0	112.5	108.2	98.0
CTR. of S. FTG					4.2	112.2	107.7	97.6
CTR. of INT. FTG					3.8	112.1	108.0	97.8
SHOP FTGS.								
CTR of N. FTG					3.6	112.3	108.4	98.2
CTR of S. FTG.					4.4	113.5	108.7	98.5

REMARKS

* Density failed to meet minimum project requirement

** Retest indicates minimum density requirement was obtained.

( ) Client is aware of unsatisfactory test results.

4000 SW 35TH TERRACE, SUITE C • GAINESVILLE, FLORIDA 32608 • PHONE: (352) 372-1274

GEO-TECH, INC.

Engineering Consultants in Geotechnical • Environmental • Construction Materials Testing

FIELD DENSITY WORKSHEET

CLIENT RYE CONST. DATE 4 JUN 07

PROJECT NO.

PROJECT NAME SMITH RES. LAKE CITY PERMIT NO. #000025765

~~EARTH~~ CONTRACTOR 1214 SW WALKER AVE TESTED BY JWL

COMPACTION REQUIREMENT (%) 95% ☐ Standard Proctor ☑ Modified Proctor FIELD CONTACT

TOTAL ON-SITE TIME MILES FROM OFFICE

☐ Limerock ☐ Subgrade ☐ Pipe Backfill ☑ Building Pad ☐ Building Footing ☐ Other

TEST LOCATION	LAB PROCTOR DENS.	LAB PROCTOR OMC	TEST DEPTH	PROBE DEPTH	% MOIST.	WET DENSITY (PCF)	DRY DENSITY (PCF)	% COMP.
CTR. of PAD	110.4	10.1	FG	12"	4.6	111.9	107.0	96.9
CTR. of S. END	〃	〃	〃	〃	5.2	114.0	108.4	98.2
CTR. of GARAGE AREA	〃	〃	〃	〃	6.0	116.8	110.2	99.8

REMARKS

* Density failed to meet minimum project requirement

** Retest indicates minimum density requirement was obtained.

( ) Client is aware of unsatisfactory test results.

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. # 25765

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055
Company Business License No. JB102478 Company Phone No. 386-755-3611 • 352-494-5751
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Rye Construction Company Phone No. 352-258-8603

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Walt Smith Residence
Home + Detached Garage 1214 SW Walter Ave.
Lake City, FL 32024

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1' Inside 2' Type of Fill Sand

Section 4: Treatment Information

Date(s) of Treatment(s) 6/7/07
Brand Name of Product(s) Used Bifen XTS
EPA Registration No. 53883-189
Approximate Final Mix Solution % .06% 4702
Approximate Size of Treatment Area: Sq. ft. ~~5702~~ Linear ft. 512 Linear ft. of Masonry Voids 474
Approximate Total Gallons of Solution Applied 1080 gals.
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

Name of Applicator(s) S. Gregory Certification No. (if required by State law) JF1043760

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

Authorized Signature Shannon Gregory Date 6/7/07

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

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 02-5S-16-03437-003 **Building permit No.** 000025765

Use Classification SFD,UTILITY **Fire:** 122.20

Permit Holder RYE CONSTRUCTION **Waste:** 167.50

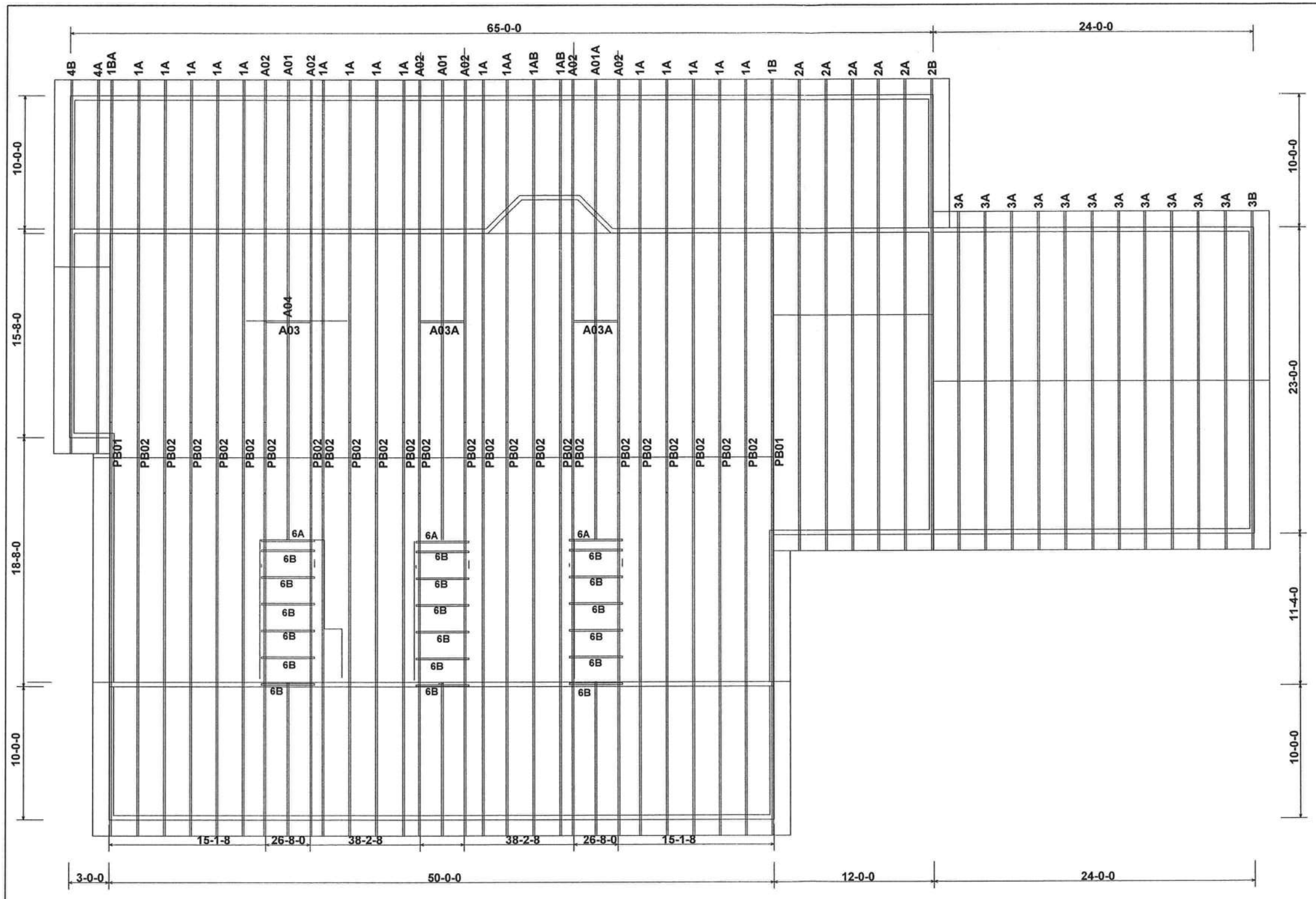
Owner of Building WALT & KRISSY SMITH **Total:** 289.70

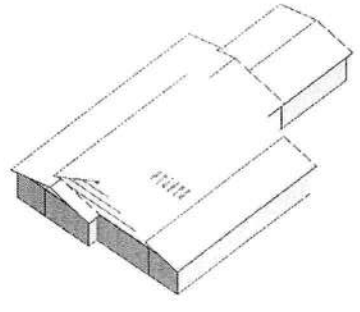
Location: 1214 SW WALTER AVENUE

Date: 12/21/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)





HD SUPPLY LUMBER & BUILDING MATERIALS

6100 S.E. 68th ST. OCALA 34472
Phone: (352) 307-7600 Fax: (352) 307-8887

CLIENT APPROVAL

1. Client to review overall placement plan including dimensions, roof and ceiling conditions, top chord size, overhang / cantilever lengths,heel heights, bearing & non-bearing wall locations and heights.
2. Client to review entry and / or other conditions that require centering of peaks, overhangs or cantilevers to ensure proper truss design.
3. Client to review AHU conditions such as, hung from ceiling, recessed into ceiling or attic mounted. It is the client's responsibility to inform truss plant of locations, size, and weights.
4. Client to review special conditions; such as beam loads, dropped soffit loads and skylite locations to ensure proper truss design / placement.
5. Ceiling drops and valleys not shown are to be field framed by client.
6. Hip and corner jacks not cut are to be cut in the field by others.
7. Overhangs are 2x4 or 2x6, no blocking is applied.
8. Overhangs are considered wild, cut to fit in field.
9. Temporary or permanent bracing is not included in truss package.
10. Erect trusses per HIB-91 Summary Sheet. Prior to erecting trusses refer to sealed truss engineering sheets for additional important info.
11. It is the client's responsibility to coordinate delivery dates with truss plant. Truss delivery will be on the agreed upon date with truss plant.
12. Client to provide a marked location for delivery. Location must be accessible, level and clear of materials and debris. In lieu of this, trusses will be delivered in the best available location at our driver's discretion. No charges will be accepted if above criteria is not met.
13. All truss repairs must be coordinated thru the truss plant. Do Not Cut Any Trusses before contacting truss plant with specifics of problem.
14. No back charges or crane charges of any kind will be accepted unless specifically approved in writing by truss plant management.

DESIGN CRITERIA

Loading: 47 # psf, Shingles ; 30 TCLL, 7 TCDL, 0 BCLL, 10 BCDL

T.C. Pitch	: 3 & 7 / 12	Wind Code	: ANSI / ASCE 7-02
B.C. Pitch	: 0 / 12	Design Method	: MWFRS / ASCE 7-02
T.C. Size	: 2 x 4	Wind Speed	: 110 mph / Exp. B
Heel Hgt.	: 0-3-14	Mean Hgt.	: 25' Min.
Bearing	: 0-8-0	Building Cat.	: II
Cantilever	: None	Importance Factor	: 1.00
Overhang	: 2-0-0	Enclosure	: Enclosed
O.H. Cut	: Plumb		
Spacing	: 24" O.C.		
Lumber	: SYP		

HANGERS

TYP. HUS28
@ THDH28-2

BRG. SCHEDULE

10'-0" Brg. Hgt.

All Bearing Heights Above Finished Floor

NOTES

CLIENT INFO.

Client : RYE CONSTRUTION
Project :WALT SMITH
Address :
.
County ALACHUA

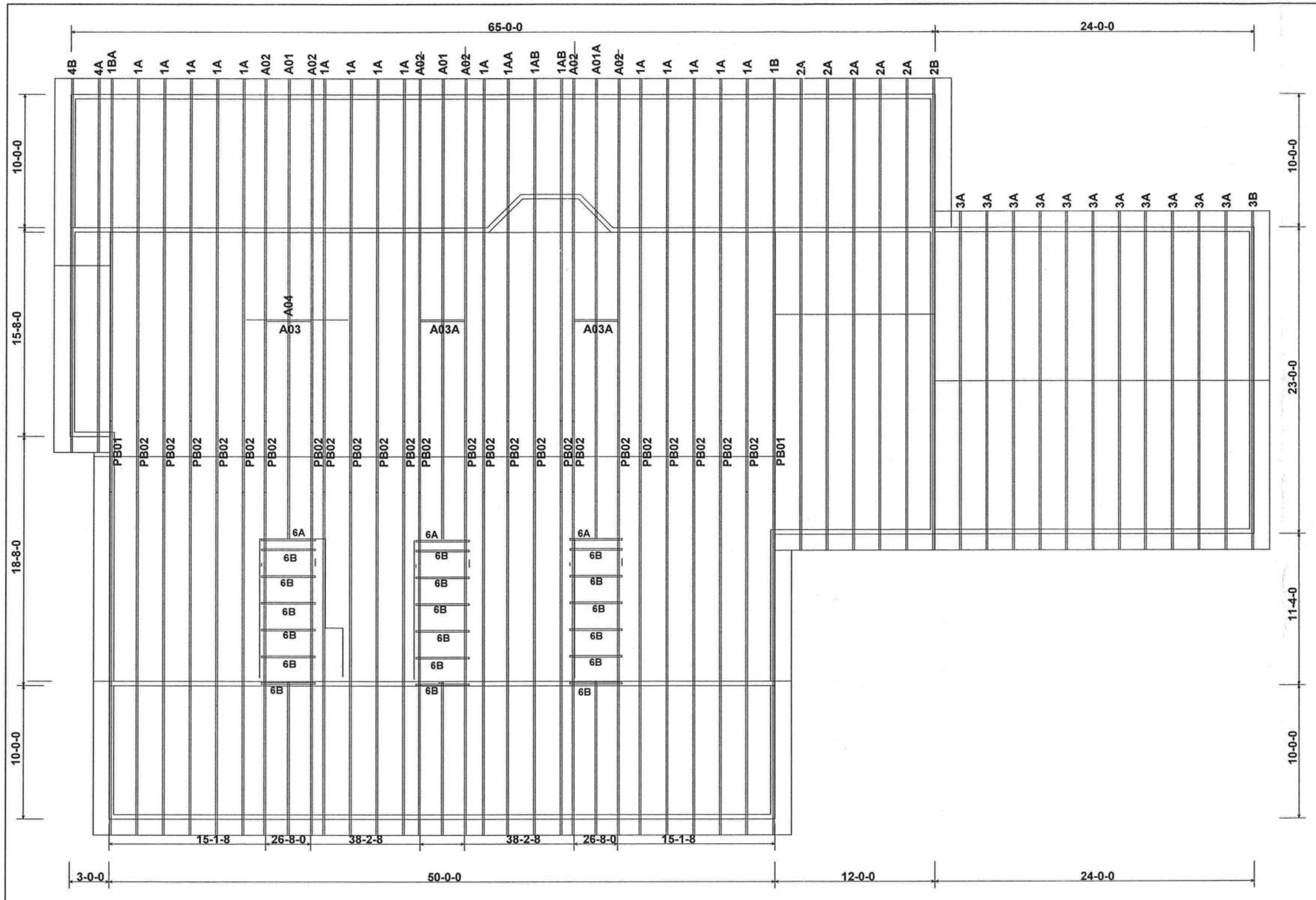
REV.

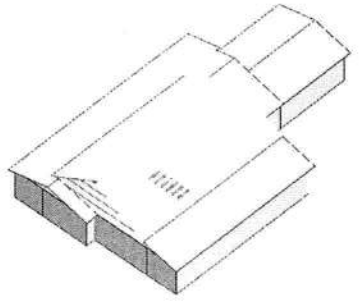
Date : 3-19-7
Revised: .

Scale : N.T.S.
Drawn By : TOMMY. M

Sheet # 1 of 1

COX Job #J07-00223





Tom Smith Truss Company

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COX Job #J07-00223