DATE 10/19/2005

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000023731

APPLICANT JACKIE NORRIS PHONE 758.3663

ADDRESS POB 238 WHITE SPRINGS FL 32096

OWNER PETE GIEBEIG PHONE 752.7968

ADDRESS 179 SW ARROW BEND DRIVE LAKE CITY FL 32024

CONTRACTOR JOHN D. NORRIS PHONE 758.3663

LOCATION OF PROPERTY C-341 TO KICKLIGHTER RD,TL GO TO CANNON CREEK PLACE S/D TO ARROW BEND DRIVE.LOT 18

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 98600.00

HEATED FLOOR AREA 1972.00 TOTAL AREA 2951.00 HEIGHT 18.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO.

PARCEL ID 24-4S-16-03114-118 SUBDIVISION CANNON CREEK PLACE

LOT 18 BLOCK PHASE UNIT TOTAL ACRES .50

000000847		RG0066597	Jackie Norris	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
18"X32'MITERED	05-0959-N	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: PLAT REQUIRES 1ST. FLOOR ELEVATION TO BE AT A MINIMUM OF 98.5'. ELEVATION LETTER REQUIRED.NOC ON FILE.

Check # or Cash 3502

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 $ 495.00 CERTIFICATION FEE $ 14.76 SURCHARGE FEE $ 14.76

MISC. FEES $ .00 ZONING CERT. FEE $ 50.00 FIRE FEE $ .00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 624.52

INSPECTORS OFFICE 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.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000847

DATE 10/19/2005 PARCEL ID # 24-4S-16-03114-118

APPLICANT JACKIE NORRIS PHONE 758.3663

ADDRESS POB 238 WHITE SPRINGS FL 32096

OWNER PETE GIEBEIG PHONE 752.7968

ADDRESS 179 SW ARROW BEND DRIVE LAKE CITY FL 32024

CONTRACTOR JOHN. D. NORRIS PHONE 758.3663

LOCATION OF PROPERTY C-341-S TO KICKLIGHTER RD,TL GO TO CANNON CREEK PLACE S/D

TO ARROW BEND DRIVE. LOT 18

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CANNON CREEK PLACE 18

SIGNATURE Jackie Norris

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

Building Permit Application

OK STH 10-4-05
BLK 14.10.05

Date 9/24/05

847/ Application No. 0509-90

Applicants Name & Address Jackie Norris PO Box 238 White Spring Fl. 32096 Phone 758-3663

Owners Name & Address Pete Grieben PO Box 1384 Lake City, Fl. Phone 752 7968

Fee Simple Owners Name & Address " " " Phone "

Contractors Name & Address John Norris P. O. Box 238 White Springs Fl. 32096 Phone 758-3663

Legal Description of Property Lot 18 Cannon Creek Place

Location of Property West end of Cannan Creek Rd. (911 Addr) 179 SW A Prow Bend Drive

Tax Parcel Identification No. 24-4S-16-03114-~~067~~118 Estimated Cost of Construction $ 75,000.00

Type of Development residential Number of Existing Dwellings on Property 0

Comprehensive Plan Map Category 2 per Acre RES Low DEN. Zoning Map Category RSH-2

Building Height 21' Number of Stories 1 Floor Area 1920 Total Acreage in Development 40 Ac

Distance From Property Lines (Set Backs) Front 35 29'6" Side 17 40 ~~Side~~ Rear 80 59 Street ~~40'5"~~

Flood Zone Zone X Pplat Certification Date 7/15/05 Development Permit ~~7/15/05~~

Bonding Company Name & Address None

Architect/Engineer Name & Address Freeman

Mortgage Lenders Name & Address None

SITE PLAN ON PLANS Porches 290 GARAGE 489 FLOOR AREA by PLAN = 1972 TOTAL 2,951

Application is hereby made to obtain a permit to do the 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 will be performed to meet the standards of 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 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 YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Peter W. [illegible]
Owner or Agent (including contractor)

[illegible]
Contractor

RG0066597
Contractor License Number

STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me this 27th day of Sept by 2005

ELAINE K. TOLAR
MY COMMISSION # DD 436381
EXPIRES: October 2, 2009
Bonded Thru Notary Public Underwriters

Personally Known X OR Produced Identification

CURRENTS
23731

STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me this 27th day of Sept by 2005

ELAINE K. TOLAR
MY COMMISSION # DD 436381
EXPIRES: October 2, 2009
Bonded Thru Notary Public Underwriters

Personally Known X OR Produced Identification

NOTICE OF COMMENCEMENT

Inst:2005021813 Date:09/07/2005 Time:13:19
DC,P.DeWitt Cason,Columbia County B:1057 P:1340

STATE OF: Florida
COUNTY OF: Columbia

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

1. Description of Property: Lot #18 Cannon Creek Place
179 SW Arrowbend Drive

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

3. Owner Information:
   a. Name and Address: Peter W. Giebeig
   P.O. Box 1384 Lake City, FL 32056
   b. Interest in Property: Fee Simple
   c. Name and Address of Fee Simple titleholder (if other than Owner):

4. Contractor (Name and Address): John D. Norris
P.O. Box 238 White Springs, FL 32096

5. Surety:
   a. Name and Address: N/A
   b. Amount of Bond:

6. Lender (Name and Address): N/A

7. Persons within the State of Florida designated by Owner upon notices or other documents may be Served as provided by 713,13 (l)(a)(7), Florida Statues.
N/A

8. In addition to himself, the Owner designates the following person to recieve a copy of the Lienor's Notice as provided in 713.13 (l)(b), Florida Statues (Name and Address):
N/A

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

Peter W. Giebeig
Type Owner Name: Peter W. Giebeig

Type Owner Name:

Elaine K. Tolar
Witness #1 ELAINE K TOLAR

Lori Simpson
Witness #2 Lori Simpson

Sworn to and subscribed before me by the Owner (s) on this 7th day of SEPT 2005

Elaine K. Tolar
Type Name: Elaine K. TOLAR
Notary Public, State of Florida
COMMISSION EXPIRY/NUMBER:

ELAINE K. TOLAR
MY COMMISSION # DD 436381
EXPIRES: October 2, 2009
Bonded Thru Notary Public Underwriters

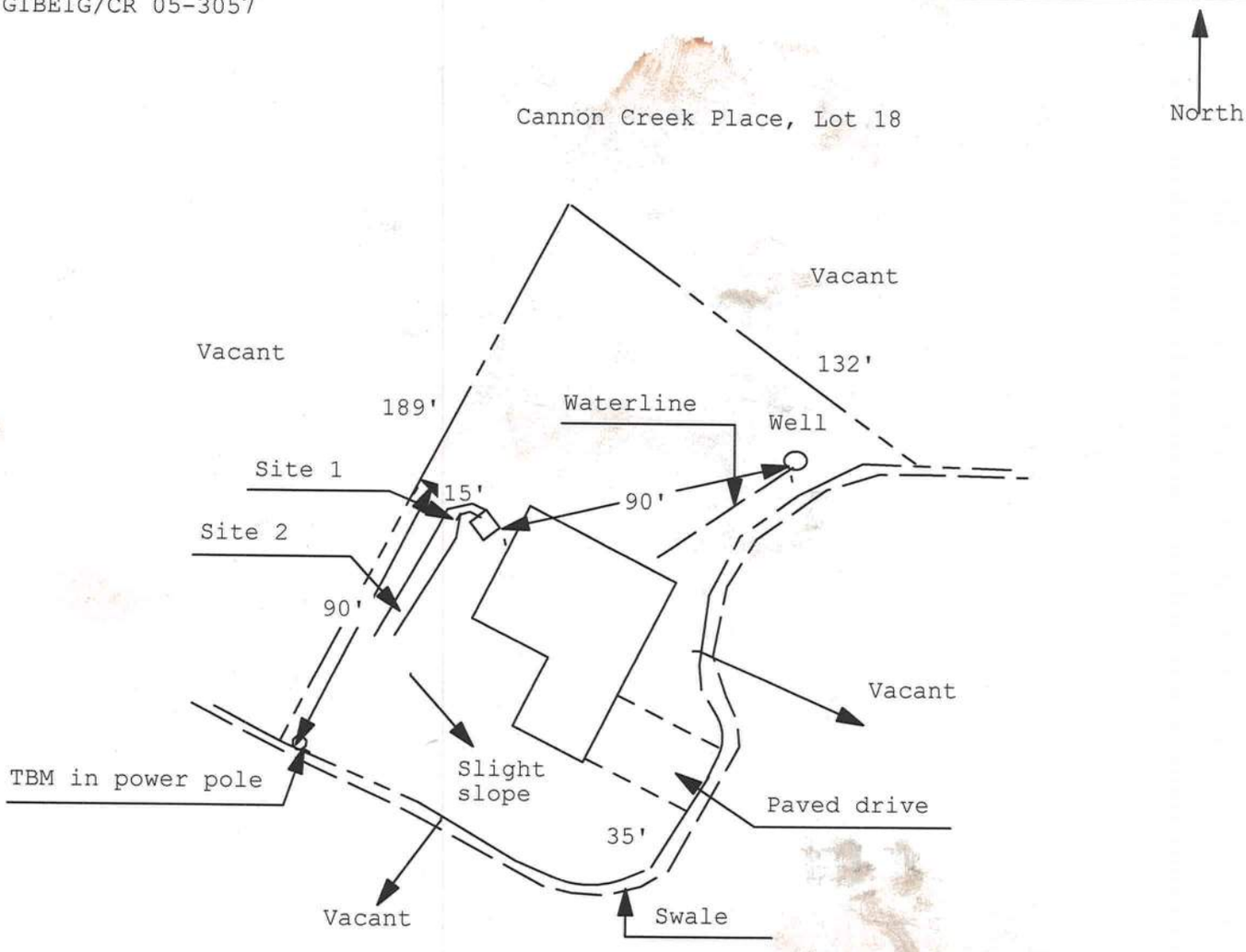
Personally Known PETER W. GIEBEIG
Produced Identification
Did Take an Oath / Did Not Take an Oath

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

Permit Application Number: 05-0959N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

GIBEIG/CR 05-3057



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd **Date** 9/21/05

Plan Approved ✓ **Not Approved** ____ **Date** 9/26/05

By [illegible] Columbia **CPHU**

Notes: _____

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**4 bedroom St. Johns Model**	Builder:	**John Norris**
Address:	**Lot: 18, Sub: Canon Creek, Plat:**	Permitting Office:	**Columbia County**
City, State:	**Lake City, FL**	Permit Number:	23731
Owner:	**Pete Giebeig**	Jurisdiction Number:	221000
Climate Zone:	**South**		

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		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		1972 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	191.0 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 195.8(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Face Brick, Wood, Exterior		R=13.0, 1398.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 168.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1972.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=7.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 12.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.40	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
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)		

Glass/Floor Area: 0.10

Total as-built points: 25864

Total base points: 33578

PASS

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

PREPARED BY: William H. Fuller

DATE: 9/26/05

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.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

EnergyGauge® (Version: FLRCPB v3.30)

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**4 bedroom St. Johns Model**	Builder:	**John Norris**
Address:	**Lot: 18, Sub: Canon Creek, Plat:**	Permitting Office:	**Columbia County**
City, State:	**Lake City, FL**	Permit Number:	
Owner:	**Pete Giebeig**	Jurisdiction Number:	
Climate Zone:	**South**		

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		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		1972 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	191.0 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 195.8(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Face Brick, Wood, Exterior		R=13.0, 1398.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 168.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1972.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=7.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 12.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.40	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
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)		

Glass/Floor Area: 0.10

Total as-built points: 25864

Total base points: 33578

PASS

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

PREPARED BY: _____

DATE: _____

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: _____

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM	X SOF	= Points	
.18	1972.0	32.50	11536.2	Double, Clear	E	1.5	6.0	30.0	68.60	0.92	1888.1	
				Double, Clear	E	1.5	6.0	20.0	68.60	0.92	1258.7	
				Double, Clear	E	1.5	6.0	30.0	68.60	0.92	1888.1	
				Double, Clear	E	12.5	8.0	40.0	68.60	0.44	1196.5	
				Double, Clear	W	1.5	6.0	30.0	61.59	0.92	1696.3	
				Double, Clear	W	1.5	6.0	30.0	61.59	0.92	1696.3	
				Double, Clear	S	1.5	2.0	5.0	58.45	0.57	166.7	
				Double, Clear	S	1.5	4.0	6.0	58.45	0.76	266.1	
				As-Built Total:				**191.0**			**10056.9**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	168.0	1.00	168.0	Face Brick, Wood, Exterior			13.0	1398.0	0.98		1363.1	
Exterior	1398.0	2.70	3774.6	Frame, Wood, Adjacent			13.0	168.0	0.90		151.2	
Base Total:	**1566.0**		**3942.6**	**As-Built Total:**				**1566.0**			**1514.3**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	17.7	2.60	46.0	Exterior Wood				20.0	9.40		188.0	
Exterior	20.0	6.40	128.0	Adjacent Wood				17.7	3.80		67.2	
Base Total:	**37.7**		**174.0**	**As-Built Total:**				**37.7**			**255.2**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1972.0	2.80	5521.6	Under Attic			30.0	1972.0	2.77 X 1.00		5462.4	
Base Total:	**1972.0**		**5521.6**	**As-Built Total:**				**1972.0**			**5462.4**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	195.8(p)	-20.0	-3916.6	Slab-On-Grade Edge Insulation			0.0	195.8(p	-20.00		-3916.6	
Raised	0.0	0.00	0.0									
Base Total:			**-3916.6**	**As-Built Total:**				**195.8**			**-3916.6**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1972.0	18.79	37053.9					1972.0	18.79		37053.9	

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT						
Summer Base Points:			**54311.6**	**Summer As-Built Points:**						**50426.0**
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
54311.6	**0.4266**		**23169.3**	50426.0 **50426.0**	1.000 **1.00**	(1.066 x 1.165 x 0.90) **1.117**	0.284 **0.284**	1.000 **1.000**		16008.5 **16008.5**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM	X WOF	= Points	
.18	1972.0	2.36	837.7	Double, Clear	E	1.5	6.0	30.0	3.30	1.02	101.1	
				Double, Clear	E	1.5	6.0	20.0	3.30	1.02	67.4	
				Double, Clear	E	1.5	6.0	30.0	3.30	1.02	101.1	
				Double, Clear	E	12.5	8.0	40.0	3.30	1.18	156.0	
				Double, Clear	W	1.5	6.0	30.0	3.98	1.00	119.1	
				Double, Clear	W	1.5	6.0	30.0	3.98	1.00	119.1	
				Double, Clear	S	1.5	2.0	5.0	3.12	1.25	19.5	
				Double, Clear	S	1.5	4.0	6.0	3.12	1.07	20.0	
				As-Built Total:				**191.0**			**703.4**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	168.0	0.50	84.0	Face Brick, Wood, Exterior			13.0	1398.0	0.43		594.2	
Exterior	1398.0	0.60	838.8	Frame, Wood, Adjacent			13.0	168.0	0.50		84.0	
Base Total:	**1566.0**		**922.8**	**As-Built Total:**				**1566.0**			**678.2**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM	=	Points	
Adjacent	17.7	1.30	23.0	Exterior Wood				20.0	2.80		56.0	
Exterior	20.0	1.80	36.0	Adjacent Wood				17.7	1.90		33.6	
Base Total:	**37.7**		**59.0**	**As-Built Total:**				**37.7**			**89.6**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM	=	Points	
Under Attic	1972.0	0.10	197.2	Under Attic			30.0	1972.0	0.10 X 1.00		197.2	
Base Total:	**1972.0**		**197.2**	**As-Built Total:**				**1972.0**			**197.2**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points	
Slab	195.8(p)	-2.1	-411.2	Slab-On-Grade Edge Insulation			0.0	195.8(p	-2.10		-411.2	
Raised	0.0	0.00	0.0									
Base Total:			**-411.2**	**As-Built Total:**				**195.8**			**-411.2**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM	=	Points	
	1972.0	-0.06	-118.3					1972.0	-0.06		-118.3	

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT						
Winter Base Points:		**1487.1**	**Winter As-Built Points:**						**1138.8**
Total Winter Points	X System Multiplier	= Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
1487.1	**0.6274**	**933.0**	1138.8 **1138.8**	1.000 **1.00**	(1.087 x 1.137 x 0.91) **1.125**	0.461 **0.461**	1.000 **1.000**	590.5 **590.5**	

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4	2369.00	9476.0		50.0	0.90	4	1.00	2316.36	1.00	9265.4	
				As-Built Total:							**9265.4**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
23169	**933**	**9476**	**33578**	**16008**	**590**	**9265**	**25864**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.5

The higher the score, the more efficient the home.

Pete Giebeig, Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,

1. New construction or existing		New	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		1972 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear - single pane	0.0 ft²	191.0 ft²	
b. Clear - double pane	0.0 ft²	0.0 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	0.0 ft²	
d. Tint/other SHGC - double pane			
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 195.8(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Face Brick, Wood, Exterior		R=13.0, 1398.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 168.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1972.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=7.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 12.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.40	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
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)		

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 850/488-7824.

EnergyGauge® (Version: FLRCPB v3.30)

Residential System Sizing Calculation

Summary

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

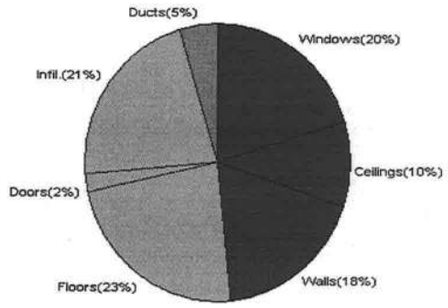
9/26/2005

Location for weather data: Orlando - User customized: Latitude(28) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(44gr.)					
Winter design temperature	38	F	Summer design temperature	98	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	32	F	Summer temperature difference	23	F
Total heating load calculation	**21703**	**Btuh**	**Total cooling load calculation**	**23747**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	165.9	36000	Sensible (SHR = 0.5)	97.5	18000
Heat Pump + Auxiliary(0.0kW)	165.9	36000	Latent	340.3	18000
			Total (Electric Heat Pump)	151.6	36000

WINTER CALCULATIONS

Winter Heating Load (for 1972 sqft)

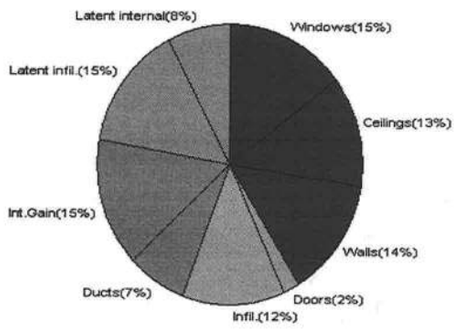
Load component			Load	
Window total	191	sqft	4431	Btuh
Wall total	1566	sqft	3904	Btuh
Door total	38	sqft	457	Btuh
Ceiling total	1972	sqft	2169	Btuh
Floor total	196	ft	5072	Btuh
Infiltration	132	cfm	4637	Btuh
Subtotal			**20670**	**Btuh**
Duct loss			1033	Btuh
TOTAL HEAT LOSS			**21703**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1972 sqft)

Load component			Load	
Window total	191	sqft	3492	Btuh
Wall total	1566	sqft	3234	Btuh
Door total	38	sqft	463	Btuh
Ceiling total	1972	sqft	3076	Btuh
Floor total			0	Btuh
Infiltration	115	cfm	2916	Btuh
Internal gain			3600	Btuh
Subtotal(sensible)			**16780**	**Btuh**
Duct gain			1678	Btuh
Total sensible gain			**18458**	**Btuh**
Latent gain(infiltration)			3449	Btuh
Latent gain(internal)			1840	Btuh
Total latent gain			**5289**	**Btuh**
TOTAL HEAT GAIN			**23747**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: _____

DATE: _____

Residential System Sizing Calculation

Summary

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

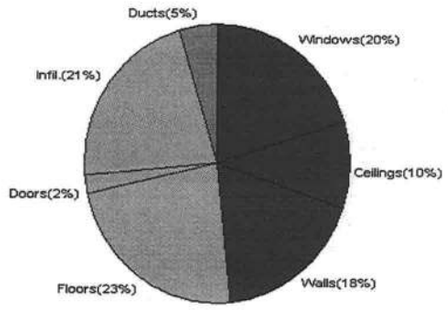
9/26/2005

Location for weather data: Orlando - User customized: Latitude(28) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(44gr.)					
Winter design temperature	38	F	Summer design temperature	98	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	32	F	Summer temperature difference	23	F
Total heating load calculation	**21703**	**Btuh**	**Total cooling load calculation**	**23747**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	165.9	36000	Sensible (SHR = 0.5)	97.5	18000
Heat Pump + Auxiliary(0.0kW)	165.9	36000	Latent	340.3	18000
			Total (Electric Heat Pump)	151.6	36000

WINTER CALCULATIONS

Winter Heating Load (for 1972 sqft)

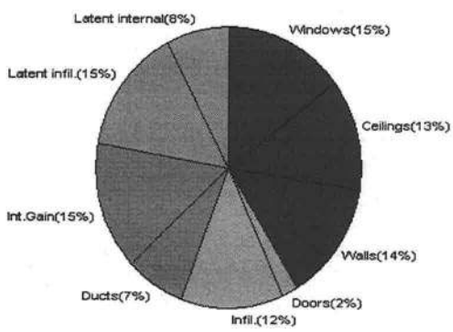
Load component			Load	
Window total	191	sqft	4431	Btuh
Wall total	1566	sqft	3904	Btuh
Door total	38	sqft	457	Btuh
Ceiling total	1972	sqft	2169	Btuh
Floor total	196	ft	5072	Btuh
Infiltration	132	cfm	4637	Btuh
Subtotal			**20670**	**Btuh**
Duct loss			1033	Btuh
TOTAL HEAT LOSS			**21703**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1972 sqft)

Load component			Load	
Window total	191	sqft	3492	Btuh
Wall total	1566	sqft	3234	Btuh
Door total	38	sqft	463	Btuh
Ceiling total	1972	sqft	3076	Btuh
Floor total			0	Btuh
Infiltration	115	cfm	2916	Btuh
Internal gain			3600	Btuh
Subtotal(sensible)			**16780**	**Btuh**
Duct gain			1678	Btuh
Total sensible gain			**18458**	**Btuh**
Latent gain(infiltration)			3449	Btuh
Latent gain(internal)			1840	Btuh
Total latent gain			**5289**	**Btuh**
TOTAL HEAT GAIN			**23747**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY: William H Fall
DATE: 9/26/05

System Sizing Calculations - Winter

Residential Load - Component Details

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

Reference City: Orlando (User customized) Winter Temperature Difference: 32.0 F

9/26/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	30.0	23.2	696 Btuh
2	2, Clear, Metal, DEF	N	20.0	23.2	464 Btuh
3	2, Clear, Metal, DEF	N	30.0	23.2	696 Btuh
4	2, Clear, Metal, DEF	N	40.0	23.2	928 Btuh
5	2, Clear, Metal, DEF	S	30.0	23.2	696 Btuh
6	2, Clear, Metal, DEF	S	30.0	23.2	696 Btuh
7	2, Clear, Metal, DEF	E	5.0	23.2	116 Btuh
8	2, Clear, Metal, DEF	E	6.0	23.2	139 Btuh
	Window Total		191		4431 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1398	2.6	3635 Btuh
2	Frame - Adjacent	13.0	168	1.6	269 Btuh
	Wall Total		1566		3904 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		20	14.7	294 Btuh
2	Wood - Adjac		18	9.2	163 Btuh
	Door Total		38		457Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1972	1.1	2169 Btuh
	Ceiling Total		1972		2169Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	195.8 ft(p)	25.9	5072 Btuh
	Floor Total		196		5072 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	19720(sqft)	132	4637 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			132	4637 Btuh

Totals for Heating	**Subtotal**	**20670 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**1033 Btuh**
	Total Btuh Loss	**21703 Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

Reference City: Orlando (User customized) Summer Temperature Difference: 23.0 F 9/26/2005

Window	Type Panes/SHGC/U/InSh/ExSh Ornt	Overhang Len	 Hgt	Window Area(sqft) Gross	 Shaded	 Unshaded	HTM Shaded	 Unshaded	Load
1	2, Clear, DEF, B, N N	1.5	6	30.0	0.0	30.0	17	17	510 Btuh
2	2, Clear, DEF, B, N N	1.5	6	20.0	0.0	20.0	17	17	340 Btuh
3	2, Clear, DEF, B, N N	1.5	6	30.0	0.0	30.0	17	17	510 Btuh
4	2, Clear, DEF, B, N N	12.5	8	40.0	0.0	40.0	17	17	680 Btuh
5	2, Clear, DEF, B, N S	1.5	6	30.0	30.0	0.0	17	26	510 Btuh
6	2, Clear, DEF, B, N S	1.5	6	30.0	30.0	0.0	17	26	510 Btuh
7	2, Clear, DEF, B, N E	1.5	2	5.0	3.1	1.9	17	48	144 Btuh
8	2, Clear, DEF, B, N E	1.5	4	6.0	0.0	6.0	17	48	288 Btuh
	Window Total			191					3492 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Frame - Exterior	13.0	1398.0	2.1	2992 Btuh
2	Frame - Adjacent	13.0	168.0	1.4	242 Btuh
	Wall Total		1566.0		3234 Btuh

Doors	Type	Area	HTM	Load
1	Wood - Exter	20.0	12.3	246 Btuh
2	Wood - Adjac	17.7	12.3	217 Btuh
	Door Total	37.7		463 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	1972.0	1.6	3076 Btuh
	Ceiling Total		1972.0		3076 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab-On-Grade Edge Insulation	0.0	195.8 ft(p)	0.0	0 Btuh
	Floor Total		195.8		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.35	19720	115.3	2916 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			115	2916 Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load
		8	X	300	+	1200	3600 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

9/26/2005

Totals for Cooling	**Subtotal**	**16780**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**1678**	**Btuh**
	Total sensible gain	**18458**	**Btuh**
	Latent infiltration gain (for 44 gr. humidity difference)	**3449**	**Btuh**
	Latent occupant gain (8 people @ 230 Btuh per person)	**1840**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**23747**	**Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 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 1606 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 104.2.1). 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** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
☑	☐	**Elevations including:**
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☑	c) Overhang dimensions and detail with attic ventilation
☑	☑	d) Location, size and height above roof of chimneys
☐	☑	e) Location and size of skylights
☐	☑	f) Building height
☑	☐	e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned
b) Shear walls
c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
f) 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 104.2.1 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 104.2.1 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
    6. Roof assembly shown here or on roof system detail (FBC 104.2.1 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)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 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)

See NOTE 3

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

Floor Framing System:

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

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☑ ☐ **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

☑ ☐ **HVAC information**

☑ ☐ a) Manual J sizing equipment or equivalent computation

☑ ☐ b) Exhaust fans in bathroom

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

☑ ☐ **Gas System** Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

Notice Of Commencement

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 br submitted by the owner or contractor to this office when applying for a Building Permit.

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 **$10.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$5.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$25.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

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) 758-8787

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

NOTICE:

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

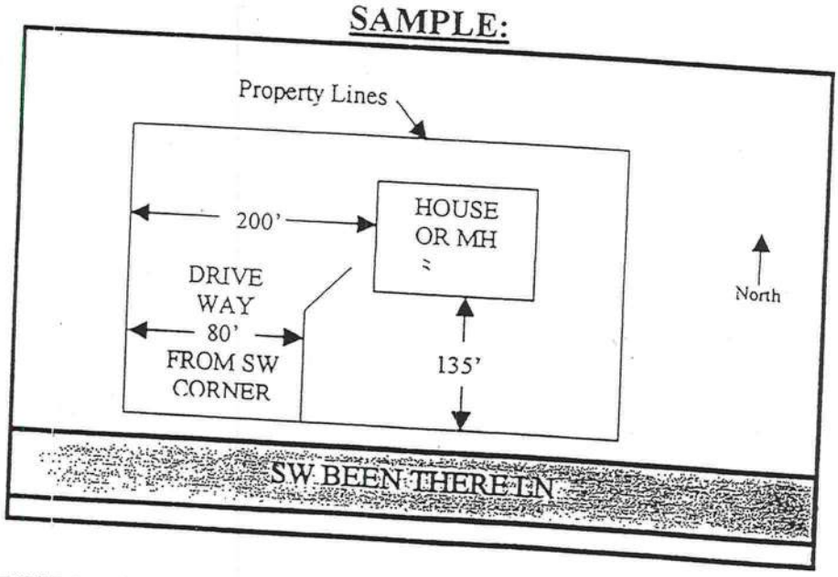
(ADDRESSES CAN NOT BE OBTAINED OVER THE TELEPHONE)

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

THE REQUESTER WILL NEED THE FOLLOWING:

1. THE PARCEL (TAX ID) NUMBER FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
   a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
   b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
   c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.

Project Information for: L132127

Builder:	Giebeig Homes
Lot :	44
Subdivision:	Cannon Creek
County:	Columbia
Truss Count:	26
Design Program:	MiTek 20/20 6.2

September 26,2005

Truss Design Engineer: Lawrence A. Paine, PE
Florida License Number: 21475
Builders FirstSource, Jacksonville, FL. 32244

Truss Design Load Information:

Gravity:		**Wind:**	
Roof:	42.0 psf	Wind Standard:	ASCE 7-98
Floor:	N/A	Wind Speed:	110 mph

Building Code:FBC2004/TPI2002

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

John David Norris Florida Registered General Contractor License No.: RG0066597
Address: 351 NW Corwin GLN Lake City, FL 32055

Truss Design Engineer: Lawrence A. Paine, PE Florida P.E. License No. 21475
Company: Builders FirstSource - Florida, LLC
Address: 6550 Roosevelt Blvd. Jacksonville, FL 32244

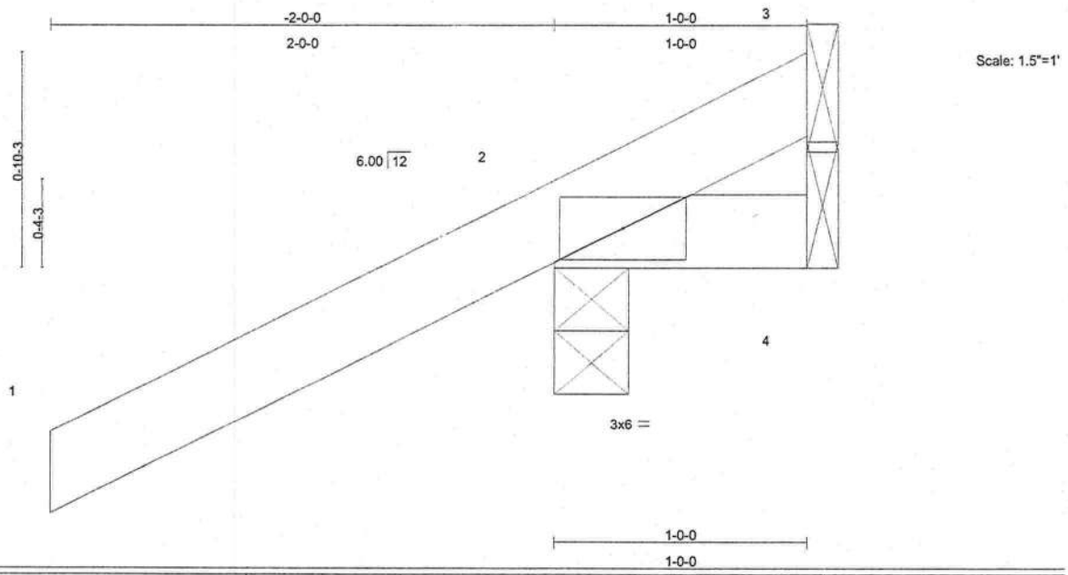
Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building contractor of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 section 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Lawerence A. Paine, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

#	Truss ID	Dwg. #	Seal Date
1	CJ1	J1504656	9/26/05
2	CJ3	J1504657	9/26/05
3	CJ5	J1504658	9/26/05
4	EJ3	J1504659	9/26/05
5	EJ7	J1504660	9/26/05
6	HJ4	J1504661	9/26/05
7	HJ9	J1504662	9/26/05
8	T01	J1504663	9/26/05
9	T02	J1504664	9/26/05
10	T03	J1504665	9/26/05
11	T04	J1504666	9/26/05
12	T05	J1504667	9/26/05
13	T06	J1504668	9/26/05
14	T07	J1504669	9/26/05
15	T08	J1504670	9/26/05
16	T09	J1504671	9/26/05
17	T10	J1504672	9/26/05
18	T11	J1504673	9/26/05
19	T12	J1504674	9/26/05
20	T13	J1504675	9/26/05
21	T14	J1504676	9/26/05
22	T15	J1504677	9/26/05
23	T16	J1504678	9/26/05
24	T17	J1504679	9/26/05
25	T18	J1504680	9/26/05
26	T19	J1504681	9/26/05

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504656
L132127	CJ1	MONO TRUSS	12	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Sun Sep 25 08:11:47 2005 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	0.27	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

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

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

REACTIONS (lb/size) 2=266/0-3-8, 4=14/Mechanical, 3=-90/Mechanical
Max Horz 2=87(load case 5)
Max Uplift 2=-286(load case 5), 4=-9(load case 3), 3=-90(load case 1)
Max Grav 2=266(load case 1), 4=14(load case 1), 3=127(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-69/71
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.14

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2, 9 lb uplift at joint 4 and 90 lb uplift at joint 3.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504657
L132127	CJ3	MONO TRUSS	10	1	Job Reference (optional)	

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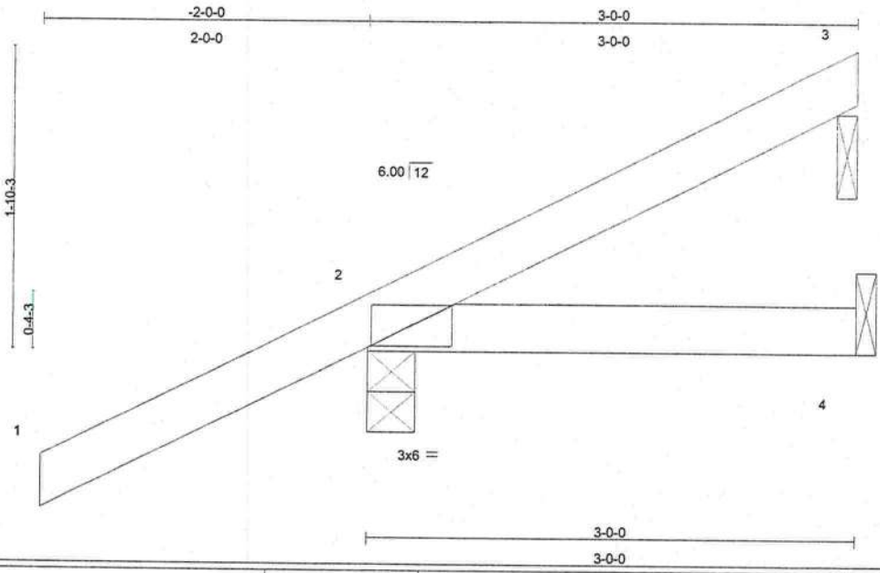

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

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

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

REACTIONS (lb/size) 3=31/0-1-8, 2=278/0-3-8, 4=42/Mechanical
Max Horz 2=132(load case 5)
Max Uplift 3=-25(load case 4), 2=-203(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-57/7
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.14

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3 and 203 lb uplift at joint 2.
4) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

LOAD CASE(S) Standard

September 26,2005

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504658
L132127	CJ5	MONO TRUSS	10	1	Job Reference (optional)	

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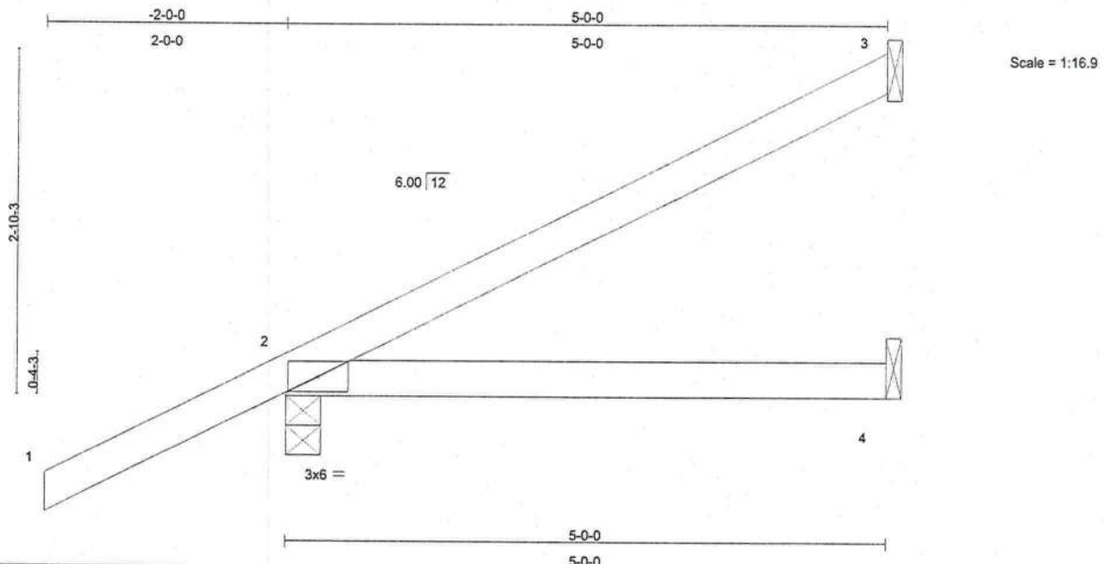


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

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

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift 3=-87(load case 5), 2=-199(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-109/36
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.16

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

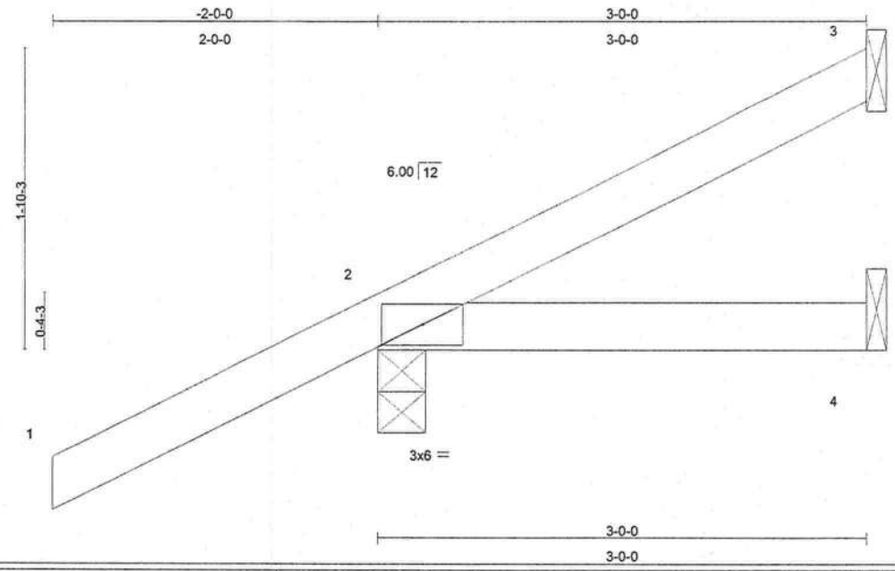
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	EJ3	MONO TRUSS	1	1	J1504659
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.200 s Jul 13 2005 MiTek Industries, Inc. Sun Sep 25 08:11:48 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

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

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

REACTIONS (lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical
Max Horz 2=132(load case 5)
Max Uplift 3=-25(load case 4), 2=-238(load case 5), 4=-27(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-57/7
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.14

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3, 238 lb uplift at joint 2 and 27 lb uplift at joint 4.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504660
L132127	EJ7	MONO TRUSS	19	1	Job Reference (optional)	

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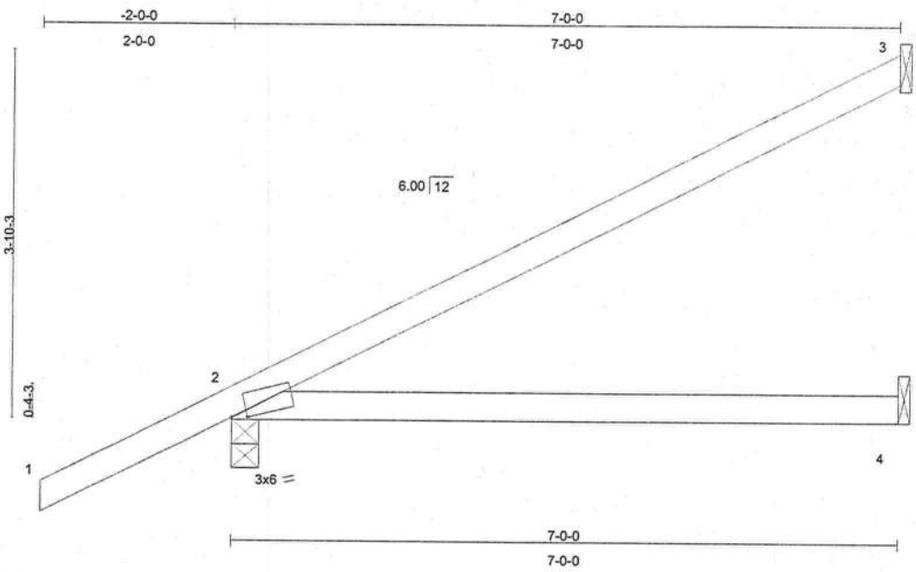

Plate Offsets (X,Y): [2:0-2-0,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.12	2-4	>664	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.21	2-4	>397	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

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

REACTIONS (lb/size) 3=162/Mechanical, 2=419/0-3-8, 4=104/Mechanical
Max Horz 2=224(load case 5)
Max Uplift 3=-134(load case 5), 2=-210(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-142/58
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.85

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3 and 210 lb uplift at joint 2.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504661
L132127	HJ4	MONO TRUSS	1	1	Job Reference (optional)	

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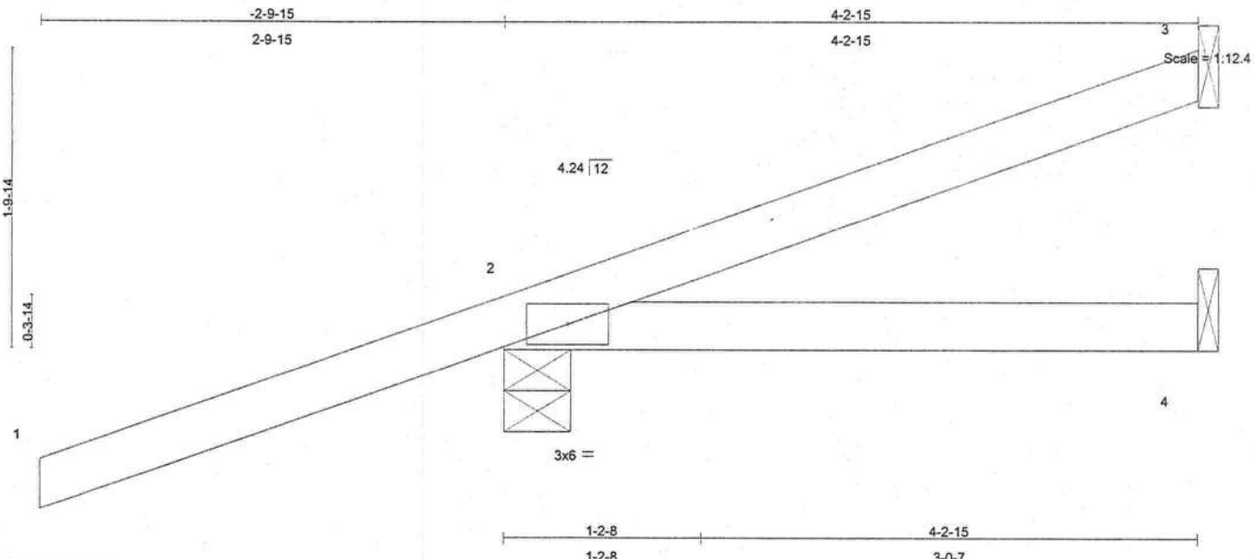

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=15/Mechanical, 2=289/0-4-15, 4=42/Mechanical
Max Horz 2=98(load case 2)
Max Uplift 3=-5(load case 3), 2=-302(load case 2), 4=-41(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-37/3
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3, 302 lb uplift at joint 2 and 41 lb uplift at joint 4.
3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504661
L132127	HJ4	MONO TRUSS	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-3(F=26, B=26)-to-3=-57(F=-2, B=-2), 2=-0(F=15, B=15)-to-4=-32(F=-1, B=-1)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504662
L132127	HJ9	MONO TRUSS	5	1	Job Reference (optional)	

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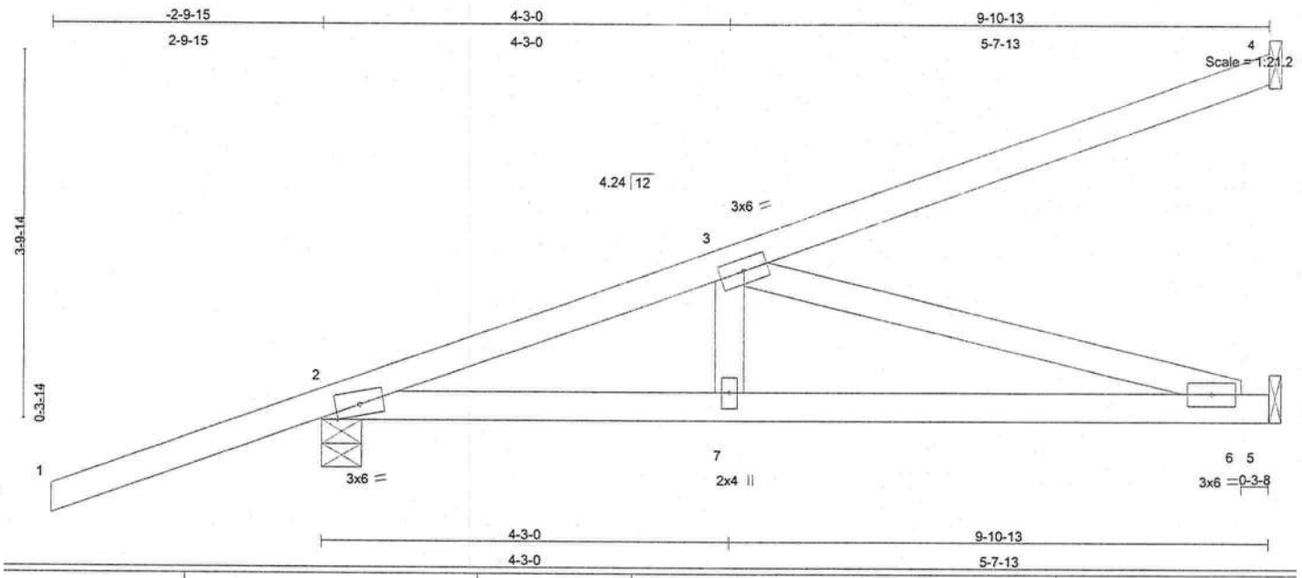

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.17	6-7	>685	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

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

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

REACTIONS (lb/size) 4=269/Mechanical, 2=532/0-4-15, 5=377/Mechanical
Max Horz 2=269(load case 2)
Max Uplift 4=-231(load case 2), 2=-278(load case 2), 5=-63(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-889/121, 3-4=-105/66
BOT CHORD 2-7=-309/824, 6-7=-309/824, 5-6=0/0
WEBS 3-7=0/180, 3-6=-857/322

JOINT STRESS INDEX
2 = 0.73, 3 = 0.22, 6 = 0.23 and 7 = 0.13

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 278 lb uplift at joint 2 and 63 lb uplift at joint 5.
3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	HJ9	MONO TRUSS	5	1	J1504662
					Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-3(F=26, B=26)-to-4=-134(F=-40, B=-40), 2=-0(F=15, B=15)-to-5=-74(F=-22, B=-22)

Truss Design Engineer: Lawrence A. Paine, PE
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T01	HIP	1	1	J1504663
					Job Reference (optional)

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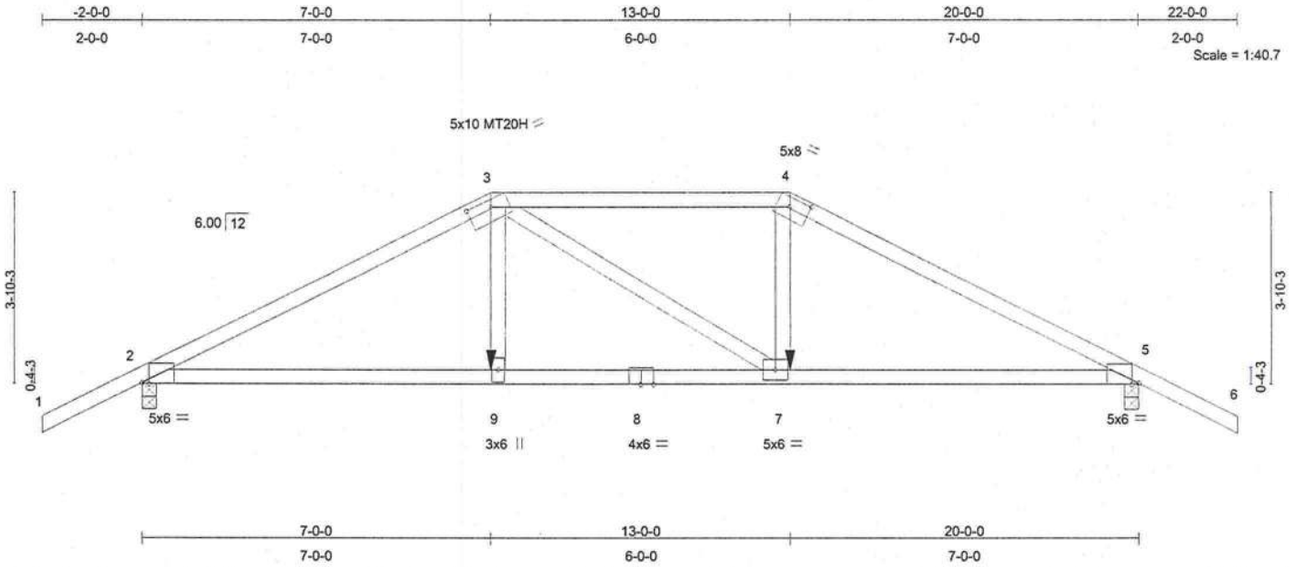

Plate Offsets (X,Y): [2:0-1-11,Edge], [3:0-5-12,0-1-12], [4:0-4-12,0-2-4], [5:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.17	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.27	7-9	>871	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(TL)	0.09	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 88 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-7 oc bracing.

REACTIONS (lb/size) 2=1774/0-3-8, 5=1774/0-3-8
Max Horz 2=-114(load case 5)
Max Uplift 2=-781(load case 4), 5=-781(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-3149/1245, 3-4=-2769/1162, 4-5=-3150/1245, 5-6=0/47
BOT CHORD 2-9=-1075/2733, 8-9=-1084/2768, 7-8=-1084/2768, 5-7=-1033/2734
WEBS 3-9=-219/849, 3-7=-124/127, 4-7=-251/901

JOINT STRESS INDEX
2 = 0.77, 3 = 0.96, 4 = 0.91, 5 = 0.77, 7 = 0.31, 8 = 0.97 and 9 = 0.27

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 3.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T01	HIP	1	1	J1504663
					Job Reference (optional)

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 781 lb uplift at joint 2 and 781 lb uplift at joint 5.
7) Girder carries hip end with 7-0-0 end setback.
8) 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: 1-3=-54, 3-4=-118(F=-64), 4-6=-54, 2-9=-30, 7-9=-65(F=-35), 5-7=-30
   Concentrated Loads (lb)
   Vert: 9=-539(F) 7=-539(F)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504664
L132127	T02	HIP	1	1	Job Reference (optional)	

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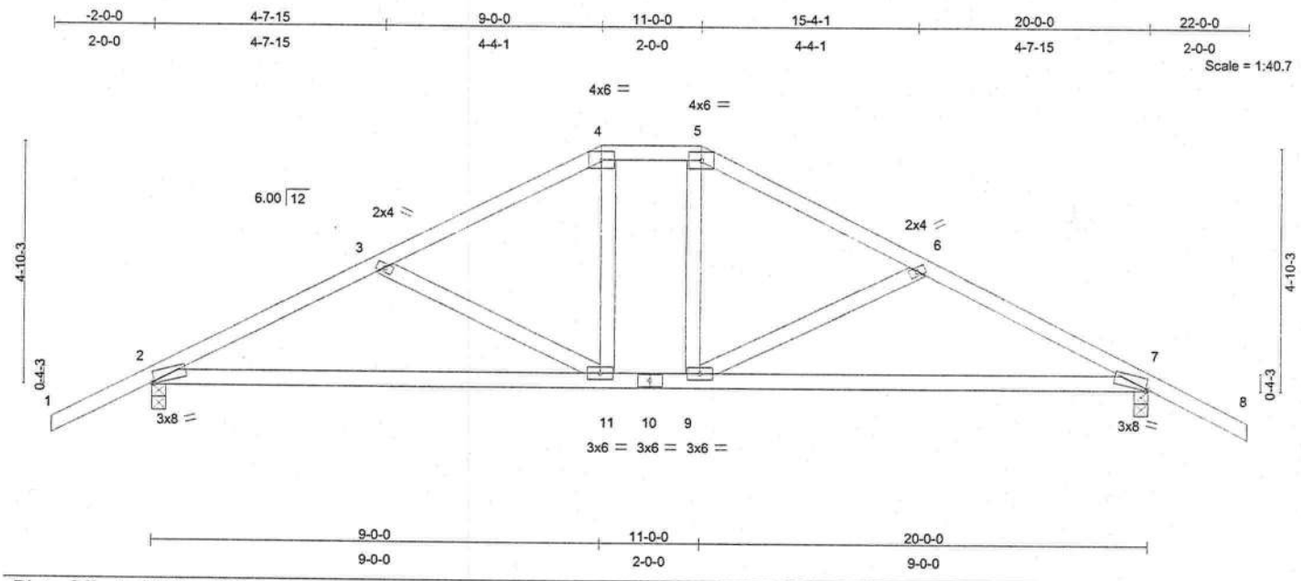

Plate Offsets (X,Y): [2:0-0-10,Edge], [7:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.18	2-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.29	2-11	>823	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 97 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

REACTIONS (lb/size) 2=944/0-3-8, 7=944/0-3-8
Max Horz 2=-134(load case 6)
Max Uplift 2=-369(load case 5), 7=-369(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1337/680, 3-4=-1068/531, 4-5=-911/535, 5-6=-1068/531, 6-7=-1337/680, 7-8=0/47
BOT CHORD 2-11=-438/1158, 10-11=-192/911, 9-10=-192/911, 7-9=-438/1158
WEBS 3-11=-313/277, 4-11=-83/288, 5-9=-83/288, 6-9=-313/277

JOINT STRESS INDEX
2 = 0.79, 3 = 0.33, 4 = 0.44, 5 = 0.44, 6 = 0.33, 7 = 0.79, 9 = 0.34, 10 = 0.63 and 11 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Texas Design Engineer: Lawrence A. Paine, PE
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504664
L132127	T02	HIP	1	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 2 and 369 lb uplift at joint 7.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504665
L132127	T03	COMMON	5	1	Job Reference (optional)	

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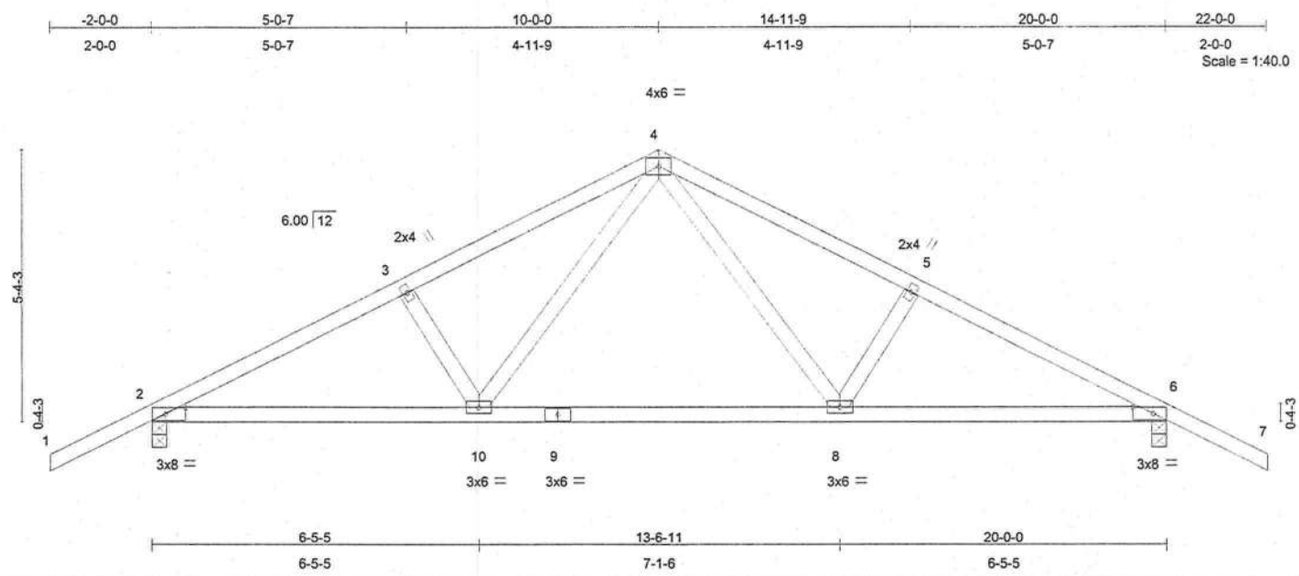

Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.28	8-10	>852	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.45	8-10	>527	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 96 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-4-1 oc bracing.

REACTIONS (lb/size) 2=1193/0-3-8, 6=1193/0-3-8
Max Horz 2=144(load case 5)
Max Uplift 2=-471(load case 5), 6=-471(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/47, 2-3=-1984/987, 3-4=-1853/991, 4-5=-1853/991, 5-6=-1984/987, 6-7=0/47
BOT CHORD	2-10=-704/1700, 9-10=-372/1146, 8-9=-372/1146, 6-8=-704/1700
WEBS	3-10=-199/234, 4-10=-371/818, 4-8=-371/818, 5-8=-199/234

JOINT STRESS INDEX

2 = 0.73, 3 = 0.33, 4 = 0.66, 5 = 0.33, 6 = 0.73, 8 = 0.58, 9 = 0.64 and 10 = 0.58

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 471 lb uplift at joint 2 and 471 lb uplift at joint 6.

Truss Design Engineer: Lawrence A. Paine, PE
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4550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T03	COMMON	5	1	J1504665
					Job Reference (optional)

NOTES

4) 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: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-100(F=-70), 6-8=-30

Truss Design Engineer: Lawrence A. Paine, PE
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T04	HIP	1	1	J1504666
					Job Reference (optional)

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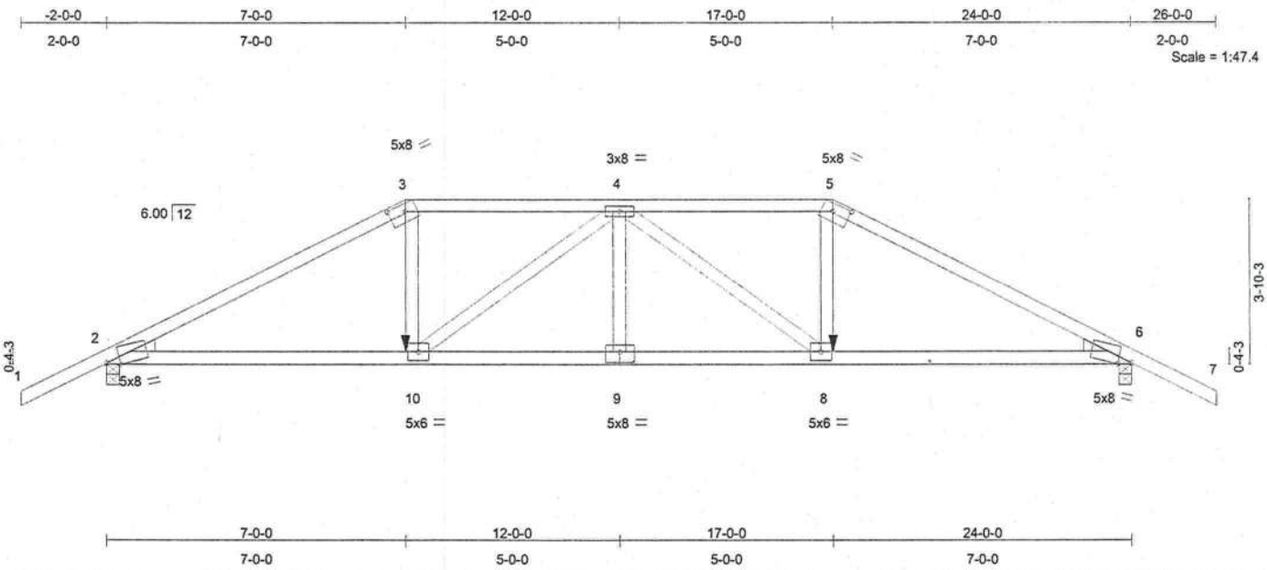

Plate Offsets (X,Y): [2:0-3-13,Edge], [3:0-4-12,0-2-4], [5:0-4-12,0-2-4], [6:0-3-13,Edge], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.23	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.38	9-10	>754	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.53	Horz(TL)	0.14	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 114 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-7 oc bracing.

REACTIONS (lb/size) 2=2140/0-3-8, 6=2140/0-3-8
Max Horz 2=114(load case 4)
Max Uplift 2=-910(load case 4), 6=-910(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-3924/1595, 3-4=-3470/1477, 4-5=-3470/1477, 5-6=-3924/1595, 6-7=0/47
BOT CHORD 2-10=-1379/3418, 9-10=-1677/4064, 8-9=-1677/4064, 6-8=-1338/3418
WEBS 3-10=-468/1313, 4-10=-848/438, 4-9=0/309, 4-8=-848/438, 5-8=-468/1313

JOINT STRESS INDEX
2 = 0.83, 3 = 0.74, 4 = 0.56, 5 = 0.74, 6 = 0.83, 8 = 0.45, 9 = 0.86 and 10 = 0.45

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T04	HIP	1	1	J1504666 Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 910 lb uplift at joint 2 and 910 lb uplift at joint 6.
5) Girder carries hip end with 7-0-0 end setback.
6) 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: 1-3=-54, 3-5=-118(F=-64), 5-7=-54, 2-10=-30, 8-10=-65(F=-35), 6-8=-30
   Concentrated Loads (lb)
   Vert: 10=-539(F) 8=-539(F)

Truss Design Engineer: Lawrence A. Paine, PE
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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T05	HIP	1	1	J1504667
					Job Reference (optional)

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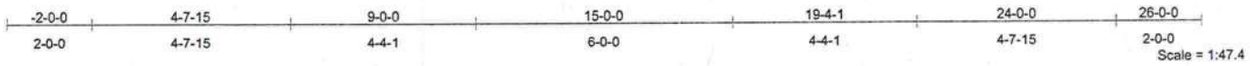

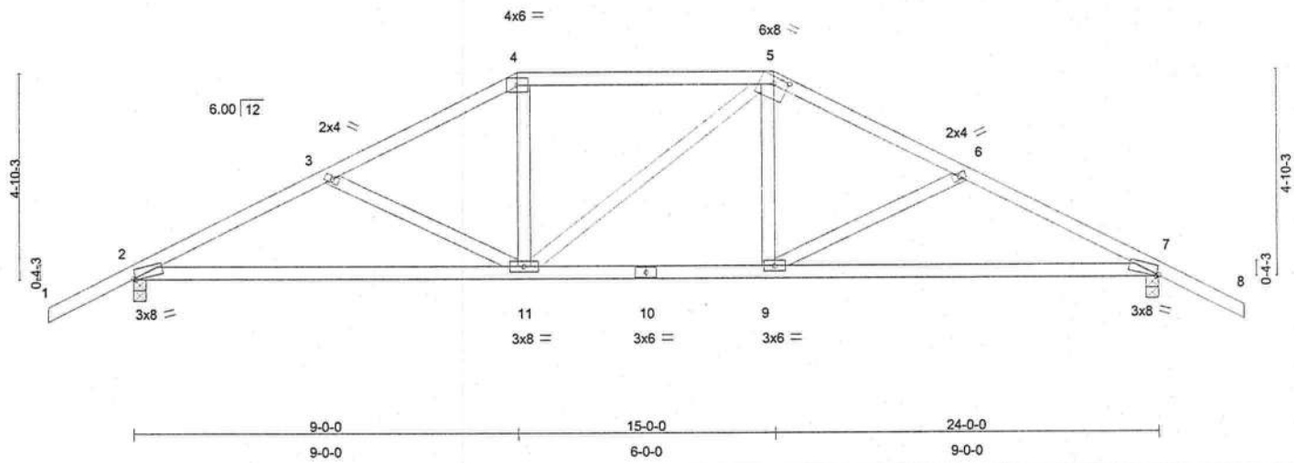

Plate Offsets (X,Y): [2:0-0-10,Edge], [5:0-4-0,0-1-15], [7:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.18	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.31	7-9	>925	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 119 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-1 oc bracing.

REACTIONS (lb/size) 2=1112/0-3-8, 7=1112/0-3-8
Max Horz 2=-134(load case 6)
Max Uplift 2=-400(load case 5), 7=-400(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1684/817, 3-4=-1439/681, 4-5=-1252/674, 5-6=-1438/681, 6-7=-1684/817, 7-8=0/47
BOT CHORD 2-11=-559/1463, 10-11=-331/1252, 9-10=-331/1252, 7-9=-559/1463
WEBS 3-11=-247/256, 4-11=-64/328, 5-11=-110/112, 5-9=-64/328, 6-9=-248/256

JOINT STRESS INDEX
2 = 0.79, 3 = 0.33, 4 = 0.65, 5 = 0.48, 6 = 0.33, 7 = 0.79, 9 = 0.34, 10 = 0.45 and 11 = 0.56

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Expires Design Engineer: Lawrence A. Paine, PE
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6550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504667
L132127	T05	HIP	1	1	Job Reference (optional)	

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 2 and 400 lb uplift at joint 7.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504668
L132127	T06	HIP	1	1	Job Reference (optional)	

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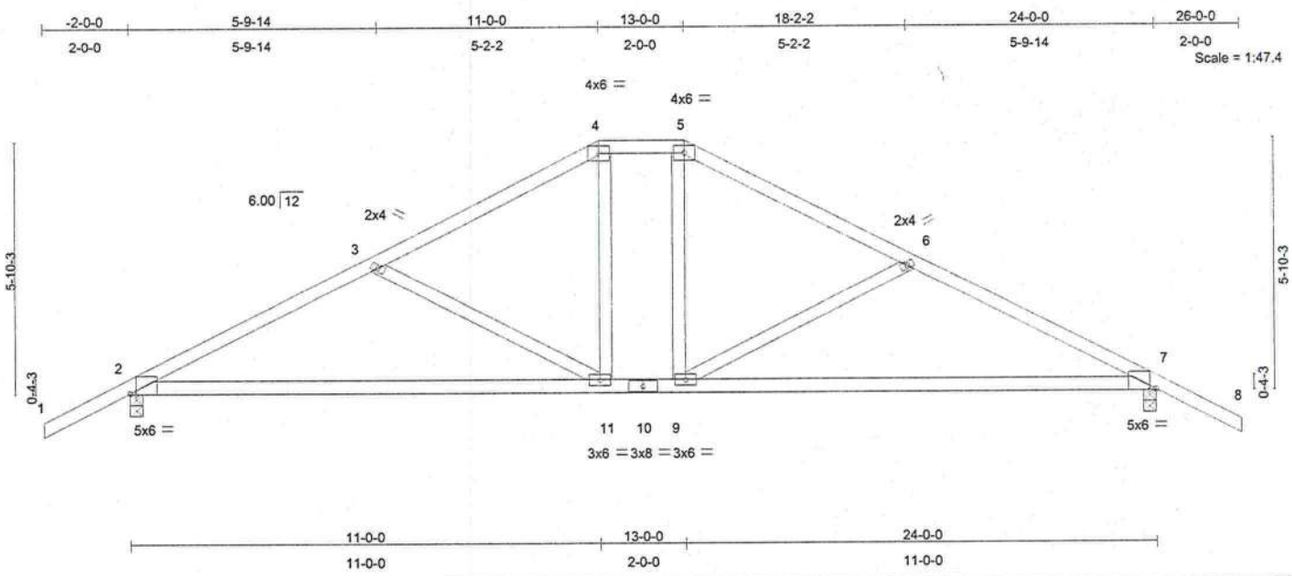

Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.37	7-9	>762	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.61	7-9	>470	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 116 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS (lb/size) 2=1112/0-3-8, 7=1112/0-3-8
Max Horz 2=-154(load case 6)
Max Uplift 2=-419(load case 5), 7=-419(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1628/852, 3-4=-1291/663, 4-5=-1098/663, 5-6=-1291/663, 6-7=-1628/852, 7-8=0/47
BOT CHORD 2-11=-578/1414, 10-11=-261/1098, 9-10=-261/1098, 7-9=-578/1414
WEBS 3-11=-399/362, 4-11=-126/368, 5-9=-126/368, 6-9=-399/362

JOINT STRESS INDEX
2 = 0.70, 3 = 0.33, 4 = 0.59, 5 = 0.59, 6 = 0.33, 7 = 0.70, 9 = 0.34, 10 = 0.94 and 11 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504668
L132127	T06	HIP	1	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 419 lb uplift at joint 2 and 419 lb uplift at joint 7.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504669
L132127	T07	COMMON	2	1	Job Reference (optional)	

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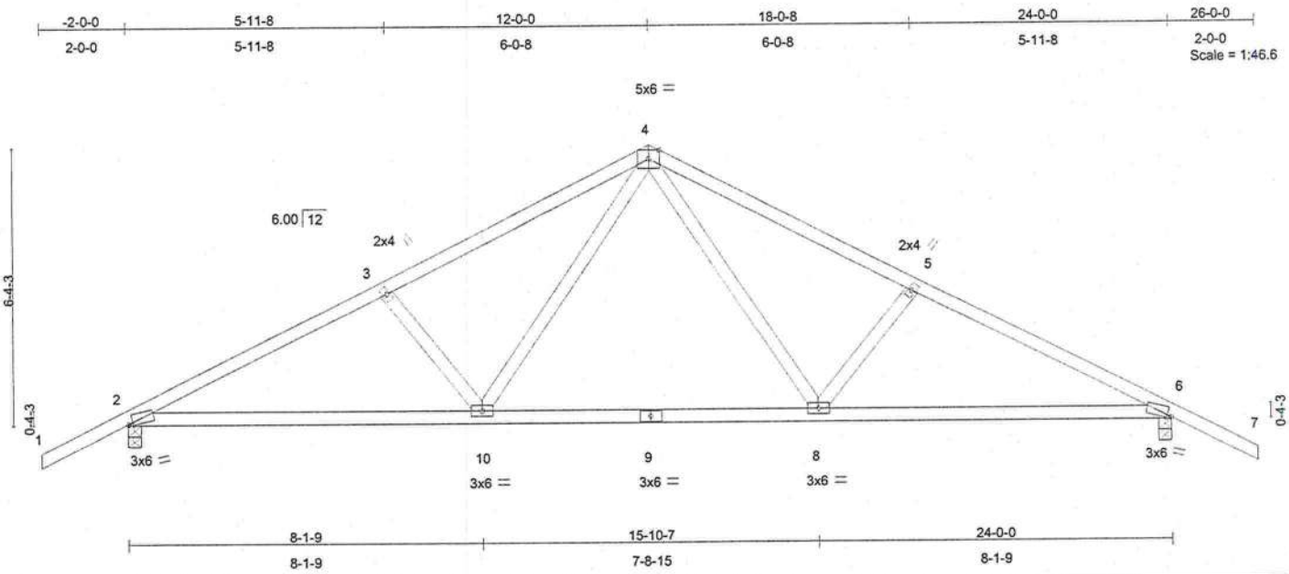

Plate Offsets (X,Y): [2:0-1-5,0-0-7], [6:0-1-5,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.13	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.21	2-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 114 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-0 oc bracing.

REACTIONS (lb/size) 2=1112/0-3-8, 6=1112/0-3-8
Max Horz 2=164(load case 5)
Max Uplift 2=-427(load case 5), 6=-427(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1694/860, 3-4=-1501/826, 4-5=-1501/826, 5-6=-1694/860, 6-7=0/47
BOT CHORD 2-10=-586/1449, 9-10=-260/974, 8-9=-260/974, 6-8=-586/1449
WEBS 3-10=-305/322, 4-10=-243/579, 4-8=-243/579, 5-8=-305/322

JOINT STRESS INDEX
2 = 0.76, 3 = 0.33, 4 = 0.61, 5 = 0.33, 6 = 0.76, 8 = 0.43, 9 = 0.45 and 10 = 0.43

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 2 and 427 lb uplift at joint 6.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T08	SCISSOR	5	1	J1504670
					Job Reference (optional)

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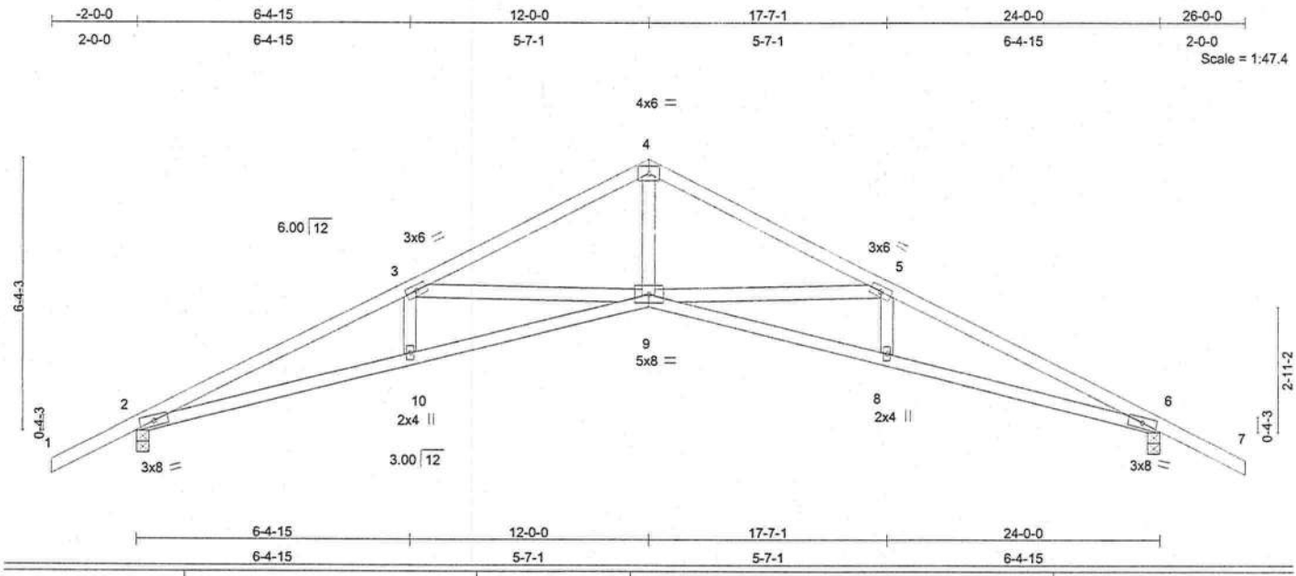

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.30	9-10	>945	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.48	9-10	>588	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.35	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 108 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-2-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-1-3 oc bracing.

REACTIONS (lb/size) 2=1112/0-3-8, 6=1112/0-3-8
Max Horz 2=163(load case 5)
Max Uplift 2=-427(load case 5), 6=-427(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/46, 2-3=-3131/1366, 3-4=-2225/943, 4-5=-2225/943, 5-6=-3131/1366, 6-7=0/46
BOT CHORD	2-10=-1060/2813, 9-10=-1063/2811, 8-9=-1063/2811, 6-8=-1060/2813
WEBS	3-10=0/179, 3-9=-829/540, 4-9=-555/1620, 5-9=-829/540, 5-8=0/179

JOINT STRESS INDEX

2 = 0.72, 3 = 0.39, 4 = 0.76, 5 = 0.39, 6 = 0.72, 8 = 0.33, 9 = 0.86 and 10 = 0.33

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504670
L132127	T08	SCISSOR	5	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 2 and 427 lb uplift at joint 6.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T09	SPECIAL	1	1	J1504671
					Job Reference (optional)

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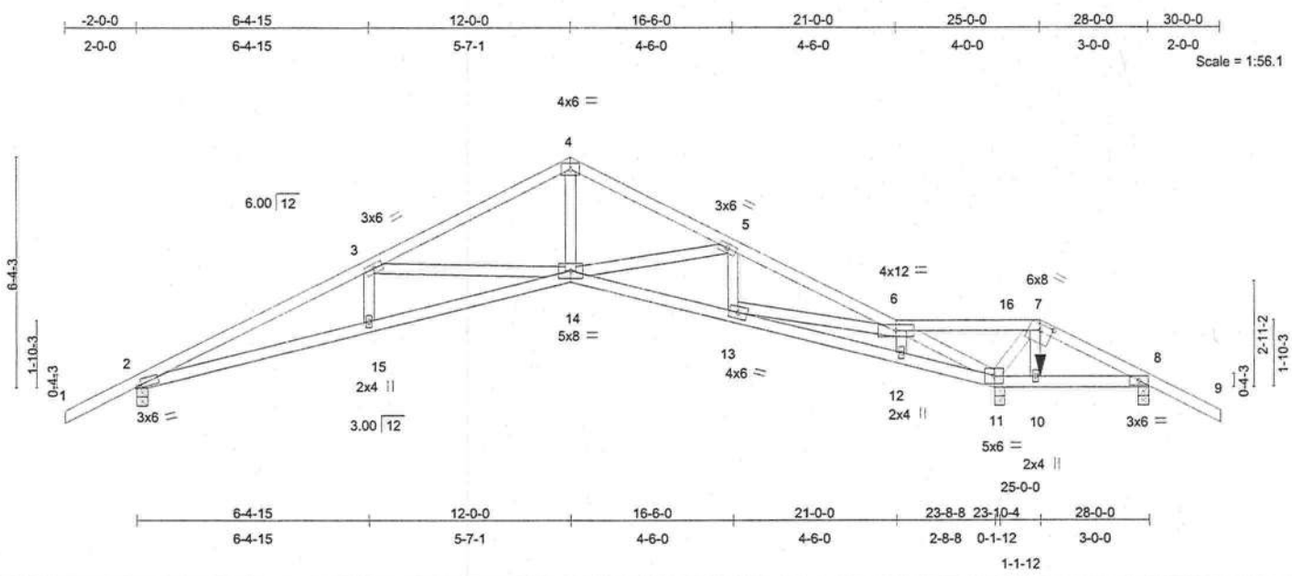

Plate Offsets (X,Y): [2:0-1-7,0-0-9], [7:0-4-0,0-1-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.20	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.33	14-15	>863	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(TL)	0.19	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 135 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-12 oc bracing.

REACTIONS (lb/size) 2=975/0-3-8, 11=2093/0-3-8, 8=-430/0-3-8
Max Horz 2=-163(load case 5)
Max Uplift 2=-397(load case 4), 11=-607(load case 5), 8=-430(load case 1)
Max Grav 2=975(load case 1), 11=2093(load case 1), 8=52(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2585/739, 3-4=-1634/411, 4-5=-1612/437, 5-6=-1623/399, 6-16=-431/2022, 7-16=-431/2022, 7-8=-280/1469, 8-9=0/47
BOT CHORD 2-15=-693/2316, 14-15=-695/2312, 13-14=-233/1460, 12-13=-405/156, 11-12=-376/161, 10-11=-1251/341, 8-10=-1256/342
WEBS 3-15=0/185, 3-14=-857/428, 4-14=-220/1112, 5-14=-152/237, 5-13=-216/103, 6-13=-371/1765, 6-12=0/123, 6-11=-1928/586, 7-11=-1201/339, 7-10=-64/103

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
2 = 0.79, 3 = 0.39, 4 = 0.52, 5 = 0.39, 6 = 0.67, 7 = 0.60, 8 = 0.66, 10 = 0.33, 11 = 0.81, 12 = 0.33, 13 = 0.64, 14 = 0.70 and 15 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.

September 26,2005

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T09	SPECIAL	1	1	J1504671
					Job Reference (optional)

NOTES

2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 2, 607 lb uplift at joint 11 and 430 lb uplift at joint 8.
6) 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: 1-4=-54, 4-6=-54, 6-16=-54, 7-16=-64(F=-10), 7-9=-54, 2-14=-30, 11-14=-30, 10-11=-35(F=-5), 8-10=-30
   Concentrated Loads (lb)
   Vert: 10=-63(F)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T10	SPECIAL	1	1	J1504672
					Job Reference (optional)

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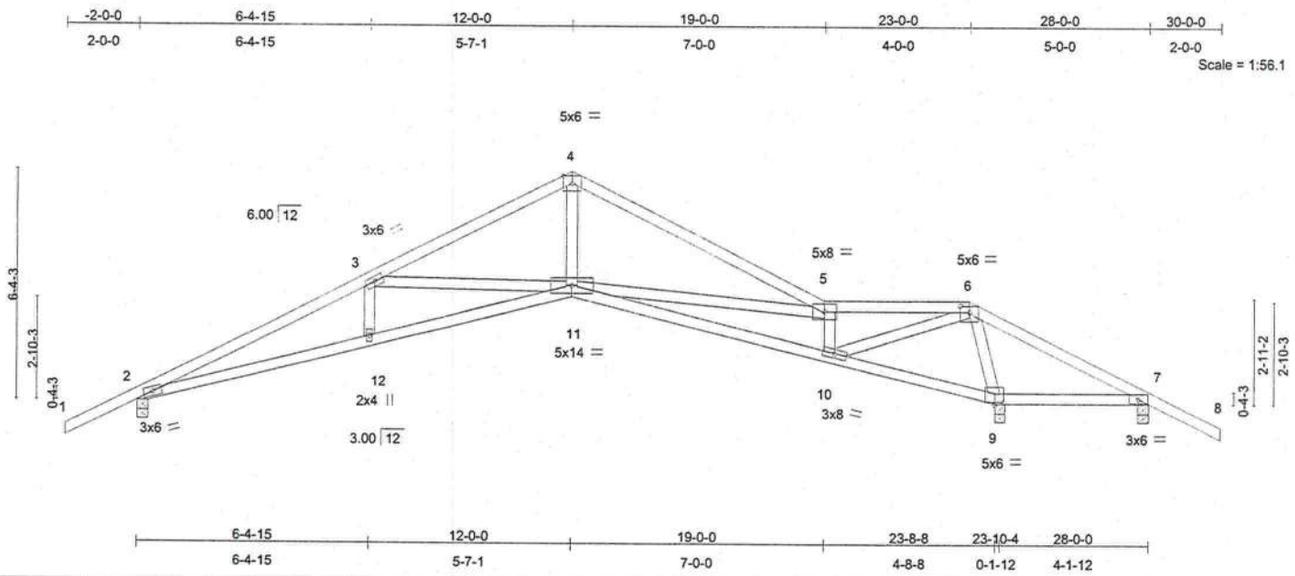

Plate Offsets (X,Y): [6:0-3-0,0-2-0], [9:0-3-0,0-0-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.30	10-11	>957	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.17	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 132 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-6-10 oc bracing.

REACTIONS (lb/size) 2=936/0-3-8, 7=-672/0-3-8, 9=2295/0-3-8
Max Horz 2=-163(load case 6)
Max Uplift 2=-389(load case 5), 7=-672(load case 1), 9=-631(load case 6)
Max Grav 2=936(load case 1), 7=111(load case 5), 9=2295(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2412/1059, 3-4=-1502/642, 4-5=-1522/625, 5-6=-426/293, 6-7=-879/2135, 7-8=0/47
BOT CHORD 2-12=-778/2156, 11-12=-778/2155, 10-11=-132/549, 9-10=-1391/725, 7-9=-1836/928
WEBS 3-12=0/175, 3-11=-843/529, 4-11=-222/928, 5-11=-201/816, 5-10=-911/545, 6-10=-810/1824, 6-9=-1881/873

JOINT STRESS INDEX
2 = 0.75, 3 = 0.39, 4 = 0.67, 5 = 0.93, 6 = 0.73, 7 = 0.75, 9 = 0.84, 10 = 0.82, 11 = 0.66 and 12 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504672
L132127	T10	SPECIAL	1	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint 2, 672 lb uplift at joint 7 and 631 lb uplift at joint 9.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be Installed and loaded vertically. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T11	SPECIAL	1	1	J1504673
					Job Reference (optional)

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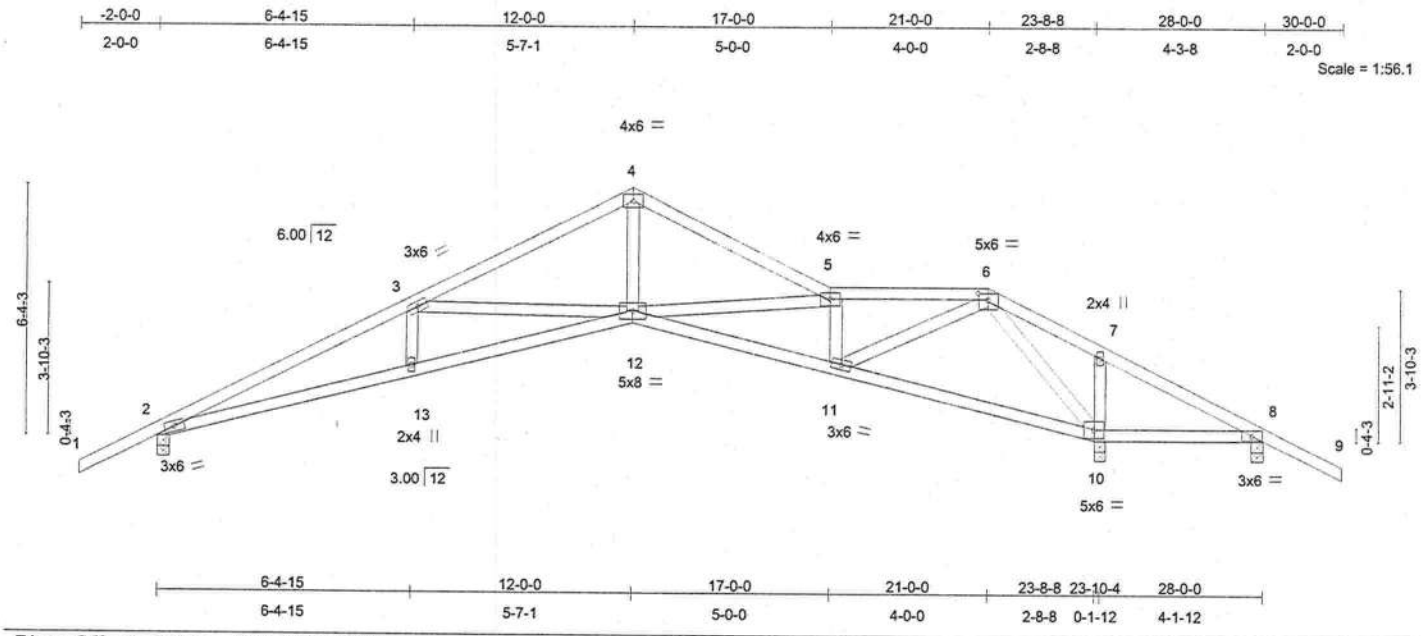

Plate Offsets (X,Y): [6:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.19	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.31	12-13	>914	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.18	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 135 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-6-7 oc bracing.

REACTIONS (lb/size) 2=939/0-3-8, 10=2280/0-3-8, 8=-659/0-3-8
Max Horz 2=-163(load case 6)
Max Uplift 2=-387(load case 5), 10=-572(load case 6), 8=-659(load case 1)
Max Grav 2=939(load case 1), 10=2280(load case 1), 8=120(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2436/1078, 3-4=-1479/636, 4-5=-1466/637, 5-6=-971/534, 6-7=-658/1991, 7-8=-771/2020, 8-9=0/47
BOT CHORD 2-13=-797/2180, 12-13=-799/2176, 11-12=-300/1090, 10-11=-476/326, 8-10=-1741/817
WEBS 3-13=0/186, 3-12=-867/560, 4-12=-285/963, 5-12=-92/364, 5-11=-900/477, 6-11=-623/1569, 6-10=-2177/864, 7-10=-247/247

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
2 = 0.76, 3 = 0.39, 4 = 0.64, 5 = 0.70, 6 = 0.80, 7 = 0.33, 8 = 0.72, 10 = 0.89, 11 = 0.85, 12 = 0.66 and 13 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.

Continued on page 2

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T11	SPECIAL	1	1	J1504673
					Job Reference (optional)

NOTES

2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 2, 572 lb uplift at joint 10 and 659 lb uplift at joint 8.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T12	SPECIAL	1	1	J1504674
					Job Reference (optional)

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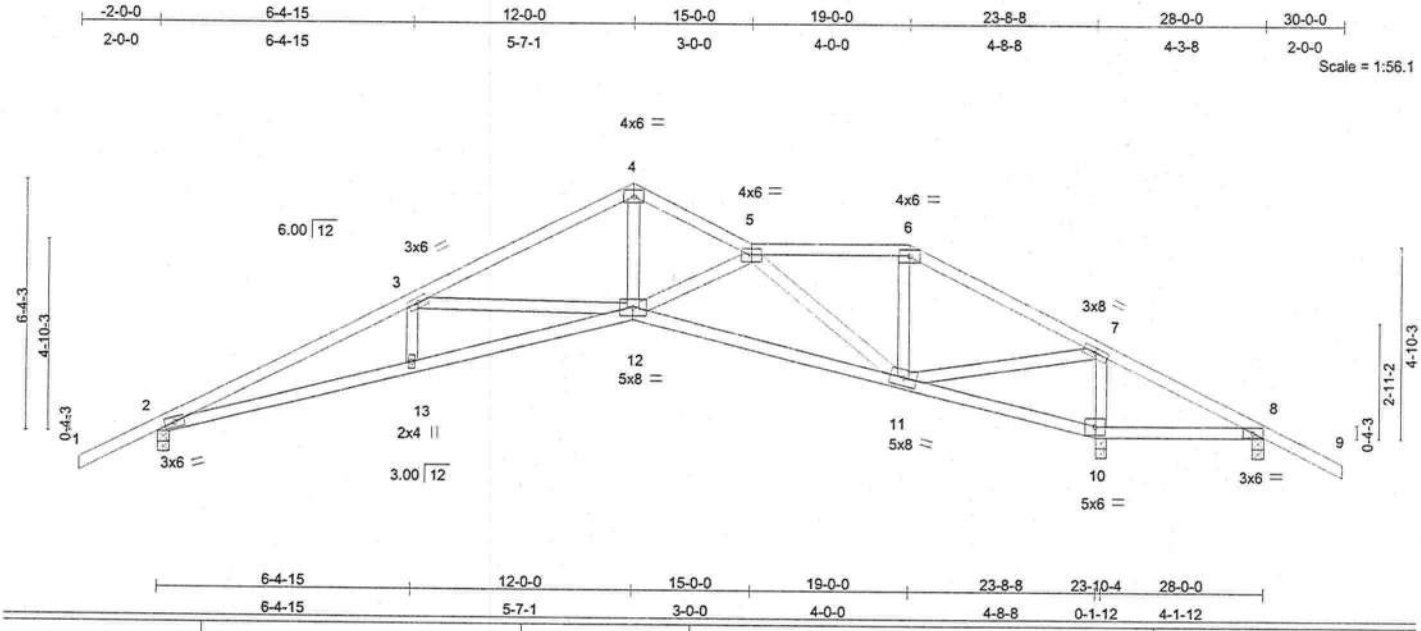

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.19	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.31	12-13	>920	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.18	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 137 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-0 oc bracing.

REACTIONS (lb/size) 2=961/0-3-8, 10=2130/0-3-8, 8=-532/0-3-8
Max Horz 2=-163(load case 6)
Max Uplift 2=-390(load case 5), 10=-523(load case 5), 8=-534(load case 7)
Max Grav 2=961(load case 1), 10=2130(load case 1), 8=102(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2524/1115, 3-4=-1581/657, 4-5=-1530/672, 5-6=-385/294, 6-7=-495/266, 7-8=-610/1765, 8-9=0/47
BOT CHORD 2-13=-831/2260, 12-13=-833/2259, 11-12=-352/1371, 10-11=-1688/750, 8-10=-1511/669
WEBS 3-13=0/175, 3-12=-843/578, 4-12=-346/1087, 5-12=-97/216, 5-11=-1269/510, 6-11=-81/104, 7-11=-687/2000, 7-10=-1585/748

JOINT STRESS INDEX
2 = 0.78, 3 = 0.39, 4 = 0.53, 5 = 0.38, 6 = 0.53, 7 = 0.89, 8 = 0.62, 10 = 0.83, 11 = 0.84, 12 = 0.77 and 13 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T12	SPECIAL	1	1	J1504674
					Job Reference (optional)

NOTES

3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 2, 523 lb uplift at joint 10 and 534 lb uplift at joint 8.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T13	SPECIAL	1	1	J1504675
					Job Reference (optional)

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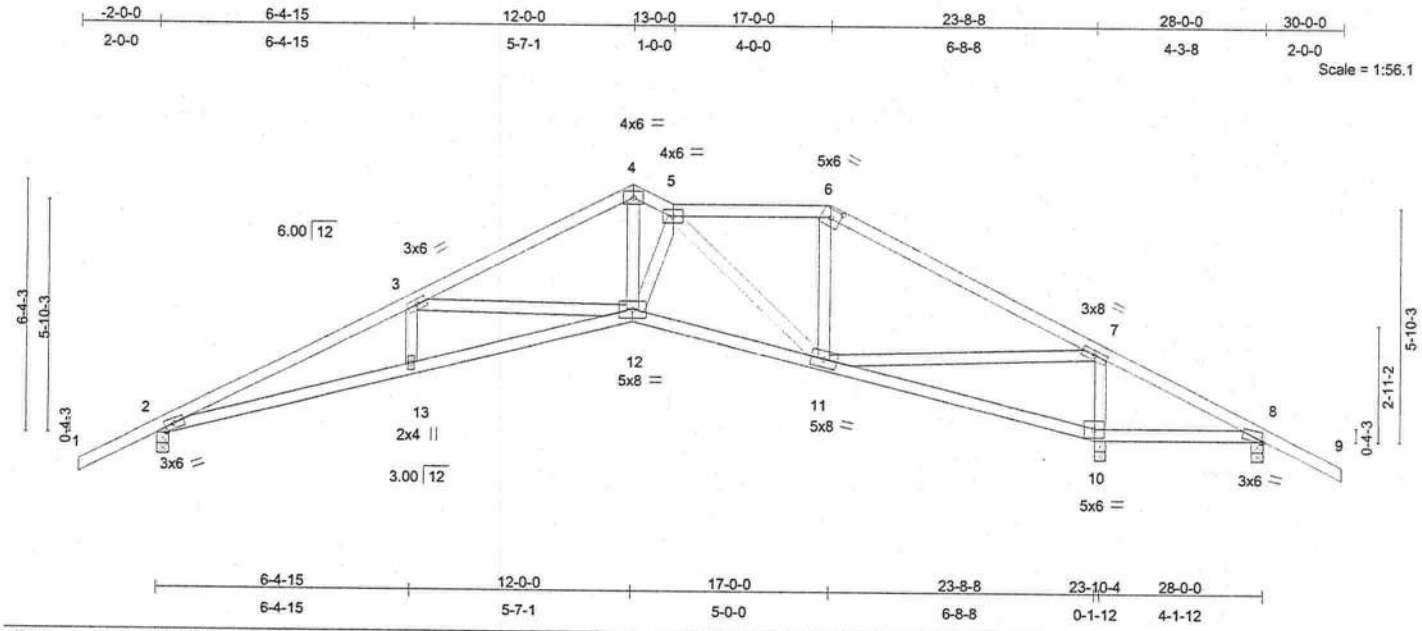

Plate Offsets (X,Y): [2:0-2-12,0-1-8], [6:0-3-0,0-2-7], [8:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.21	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.34	12-13	>841	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.19	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 140 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-11 oc bracing.

REACTIONS (lb/size) 2=996/0-3-8, 10=1894/0-3-8, 8=-331/0-3-8
Max Horz 2=-163(load case 6)
Max Uplift 2=-398(load case 5), 10=-476(load case 6), 8=-391(load case 7)
Max Grav 2=996(load case 1), 10=1894(load case 1), 8=55(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2670/1153, 3-4=-1721/710, 4-5=-1582/687, 5-6=-808/500, 6-7=-986/465, 7-8=-413/1281, 8-9=0/47
BOT CHORD 2-13=-865/2393, 12-13=-868/2389, 11-12=-291/1531, 10-11=-1236/556, 8-10=-1075/483
WEBS 3-13=0/187, 3-12=-845/562, 4-12=-299/1110, 5-12=-133/175, 5-11=-931/253, 6-11=0/151, 7-11=-637/1982, 7-10=-1414/731

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
2 = 0.80, 3 = 0.39, 4 = 0.60, 5 = 0.45, 6 = 0.66, 7 = 0.81, 8 = 0.80, 10 = 0.73, 11 = 0.85, 12 = 0.73 and 13 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.

Continued on page 2

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504675
L132127	T13	SPECIAL	1	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 398 lb uplift at joint 2, 476 lb uplift at joint 10 and 391 lb uplift at joint 8.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T14	SPECIAL	1	1	J1504676
					Job Reference (optional)

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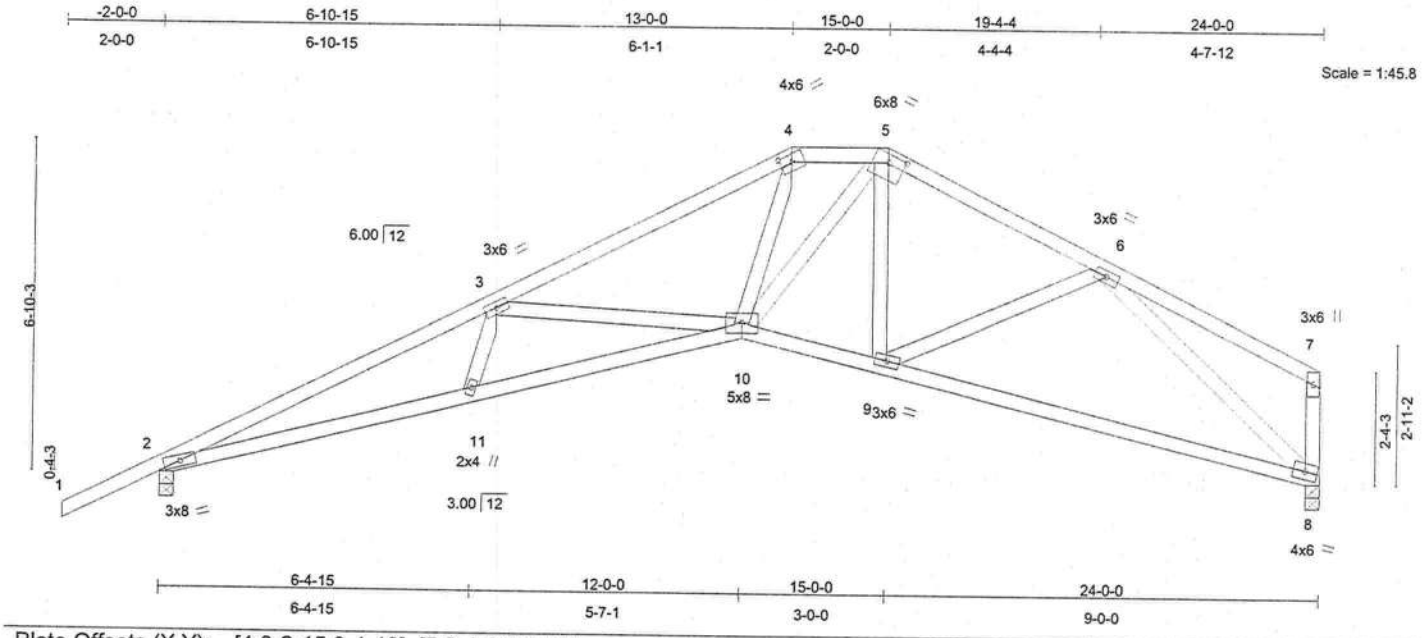

Plate Offsets (X,Y): [4:0-2-15,0-1-13], [5:0-4-0,0-1-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.23	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.37	10-11	>759	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.23	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 127 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-4 oc bracing.

REACTIONS (lb/size) 2=1117/0-3-8, 8=991/0-3-8
Max Horz 2=247(load case 5)
Max Uplift 2=-433(load case 5), 8=-268(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3164/1528, 3-4=-2180/1095, 4-5=-1686/979, 5-6=-1516/791, 6-7=-213/96, 7-8=-194/138
BOT CHORD 2-11=-1409/2842, 10-11=-1426/2777, 9-10=-522/1343, 8-9=-575/1133
WEBS 3-11=0/219, 3-10=-812/587, 4-10=-276/727, 5-10=-343/635, 5-9=-30/119, 6-9=-32/322, 6-8=-1309/750

JOINT STRESS INDEX
2 = 0.73, 3 = 0.43, 4 = 0.73, 5 = 0.44, 6 = 0.44, 7 = 0.32, 8 = 0.58, 9 = 0.37, 10 = 0.84 and 11 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T14	SPECIAL	1	1	J1504676
					Job Reference (optional)

NOTES

4) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 433 lb uplift at joint 2 and 268 lb uplift at joint 8.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T15	SCISSOR	2	1	J1504677
					Job Reference (optional)

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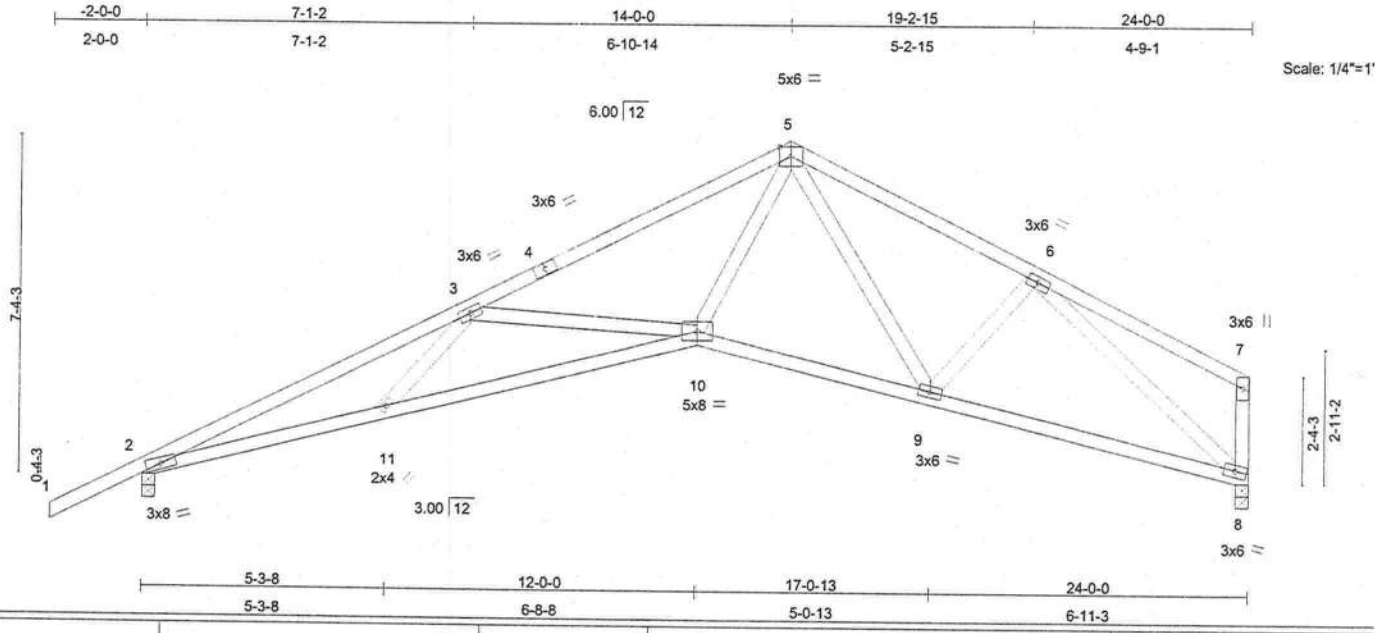

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.27	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.44	10-11	>649	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(TL)	0.24	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-2 oc bracing.

REACTIONS (lb/size) 2=1117/0-3-8, 8=991/0-3-8
Max Horz 2=257(load case 5)
Max Uplift 2=-439(load case 5), 8=-277(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3244/1543, 3-4=-2191/1098, 4-5=-2107/1121, 5-6=-1452/837, 6-7=-176/121, 7-8=-181/157
BOT CHORD 2-11=-1422/2911, 10-11=-1476/2717, 9-10=-558/1331, 8-9=-590/1166
WEBS 3-11=0/306, 3-10=-762/628, 5-10=-607/1397, 5-9=-123/101, 6-9=-29/284, 6-8=-1400/742

JOINT STRESS INDEX
2 = 0.74, 3 = 0.39, 4 = 0.41, 5 = 0.63, 6 = 0.39, 7 = 0.31, 8 = 0.57, 9 = 0.40, 10 = 0.84 and 11 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T15	SCISSOR	2	1	J1504677
					Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 2 and 277 lb uplift at joint 8.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC	J1504678
L132127	T16	MONO HIP	1	1	Job Reference (optional)	

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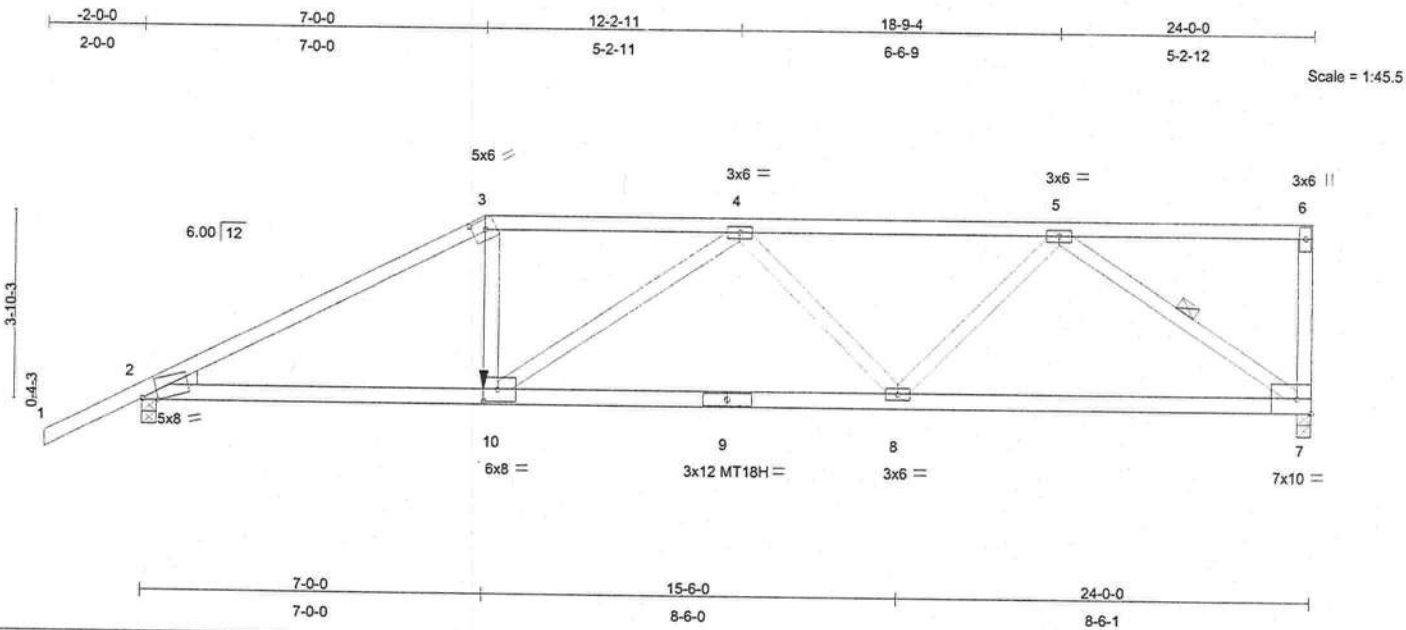

Plate Offsets (X,Y): [2:0-3-13,Edge], [3:0-3-4,0-2-8], [10:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.32	8-10	>878	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.99	Vert(TL)	-0.54	8-10	>529	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(TL)	0.11	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 118 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except* 6-7 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-14 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 7=2222/0-3-8, 2=2085/0-3-8
Max Horz 2=226(load case 4)
Max Uplift 7=-999(load case 3), 2=-873(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-3840/1586, 3-4=-3391/1469, 4-5=-3464/1449, 5-6=-135/20, 6-7=-268/203
BOT CHORD 2-10=-1452/3339, 9-10=-1788/3835, 8-9=-1788/3835, 7-8=-1225/2561
WEBS 3-10=-449/1249, 4-10=-542/451, 4-8=-548/501, 5-8=-331/1334, 5-7=-2959/1469

JOINT STRESS INDEX
2 = 0.81, 3 = 0.74, 4 = 0.36, 5 = 0.94, 6 = 0.56, 7 = 0.51, 8 = 0.83, 9 = 0.97 and 10 = 0.33

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T16	MONO HIP	1	1	J1504678
					Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 999 lb uplift at joint 7 and 873 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) 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: 1-3=-54, 3-6=-118(F=-64), 2-10=-30, 7-10=-65(F=-35)
   Concentrated Loads (lb)
   Vert: 10=-539(F)

Truss Design Engineer: Lawrence A. Paine, PE
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6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T17	MONO HIP	1	1	J1504679
					Job Reference (optional)

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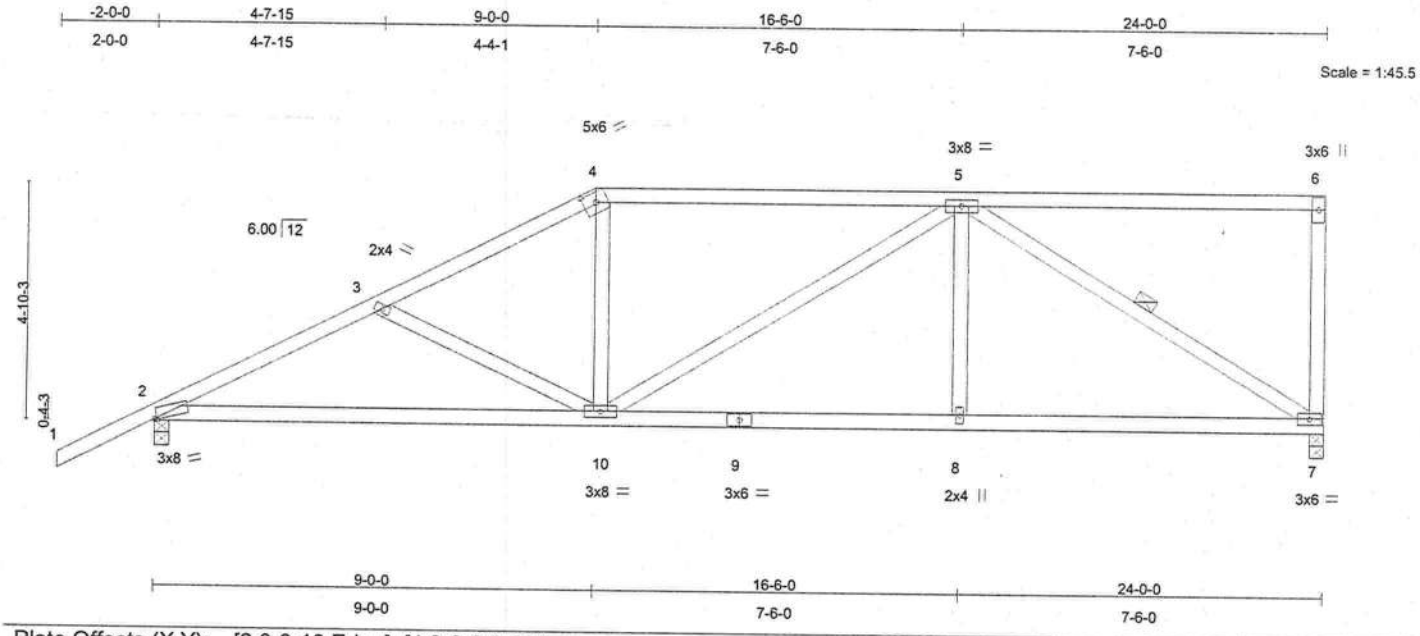

Plate Offsets (X,Y): [2:0-0-10,Edge], [4:0-3-0,0-2-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.16	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.28	2-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 127 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-10-9 oc bracing.
WEBS	1 Row at midpt 5-7

REACTIONS (lb/size) 7=991/0-3-8, 2=1117/0-3-8
Max Horz 2=272(load case 5)
Max Uplift 7=-357(load case 4), 2=-390(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/47, 2-3=-1696/736, 3-4=-1464/608, 4-5=-1280/610, 5-6=-63/24, 6-7=-183/129
BOT CHORD	2-10=-829/1470, 9-10=-526/1186, 8-9=-526/1186, 7-8=-526/1186
WEBS	3-10=-223/244, 4-10=0/299, 5-10=-100/110, 5-8=0/210, 5-7=-1321/591

JOINT STRESS INDEX

2 = 0.74, 3 = 0.33, 4 = 0.58, 5 = 0.61, 6 = 0.46, 7 = 0.60, 8 = 0.33, 9 = 0.46 and 10 = 0.56

NOTES

1) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 357 lb uplift at joint 7 and 390 lb uplift at joint 2.

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Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T17	MONO HIP	1	1	J1504679 Job Reference (optional)

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T18	HIP	1	1	J1504680
					Job Reference (optional)

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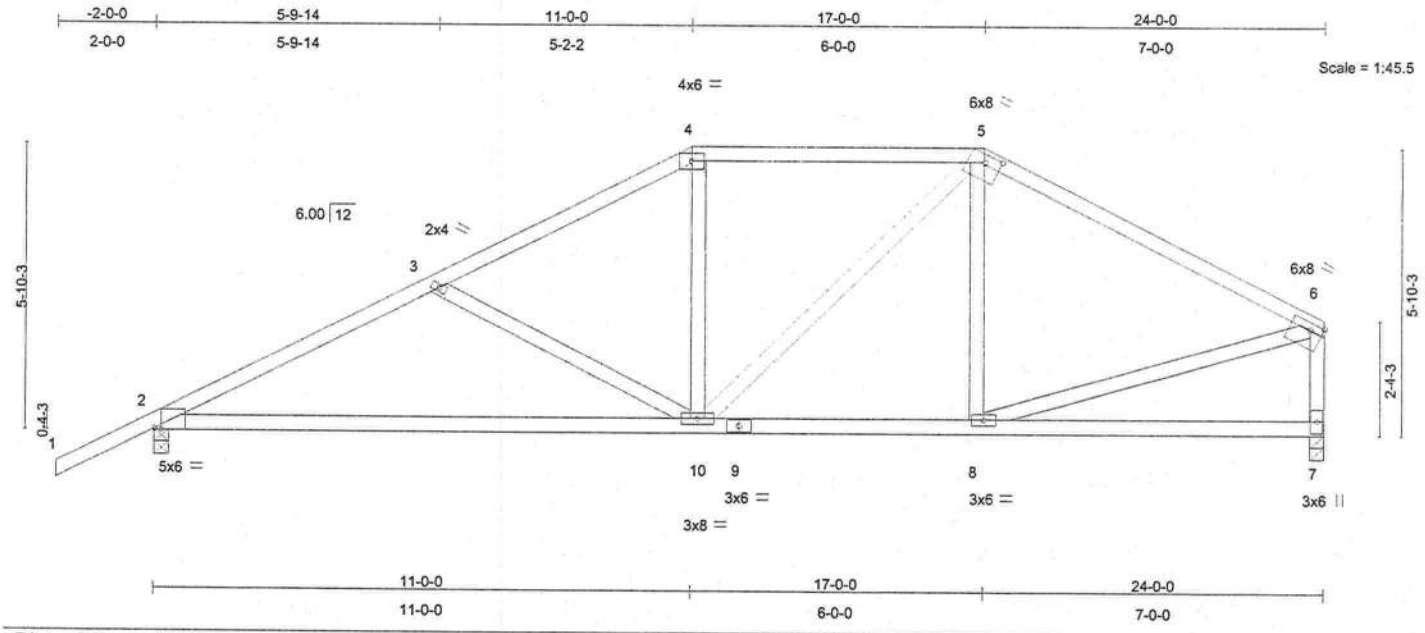


Plate Offsets (X,Y): [2:0-1-11,Edge], [5:0-4-0,0-1-15], [6:Edge,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.74	Vert(LL)	-0.33	2-10	>853	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.58	2-10	>494	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 127 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS (lb/size) 2=1117/0-3-8, 7=991/0-3-8
Max Horz 2=228(load case 5)
Max Uplift 2=-418(load case 5), 7=-247(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1632/824, 3-4=-1303/636, 4-5=-1110/637, 5-6=-1109/549, 6-7=-872/494
BOT CHORD 2-10=-753/1418, 9-10=-375/915, 8-9=-375/915, 7-8=-107/159
WEBS 3-10=-355/359, 4-10=-49/270, 5-10=-110/353, 5-8=-87/119, 6-8=-283/792

JOINT STRESS INDEX
2 = 0.68, 3 = 0.33, 4 = 0.62, 5 = 0.71, 6 = 0.75, 7 = 0.46, 8 = 0.43, 9 = 0.64 and 10 = 0.56

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Continued on page 2

Exp: Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T18	HIP	1	1	J1504680 Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 418 lb uplift at joint 2 and 247 lb uplift at joint 7.

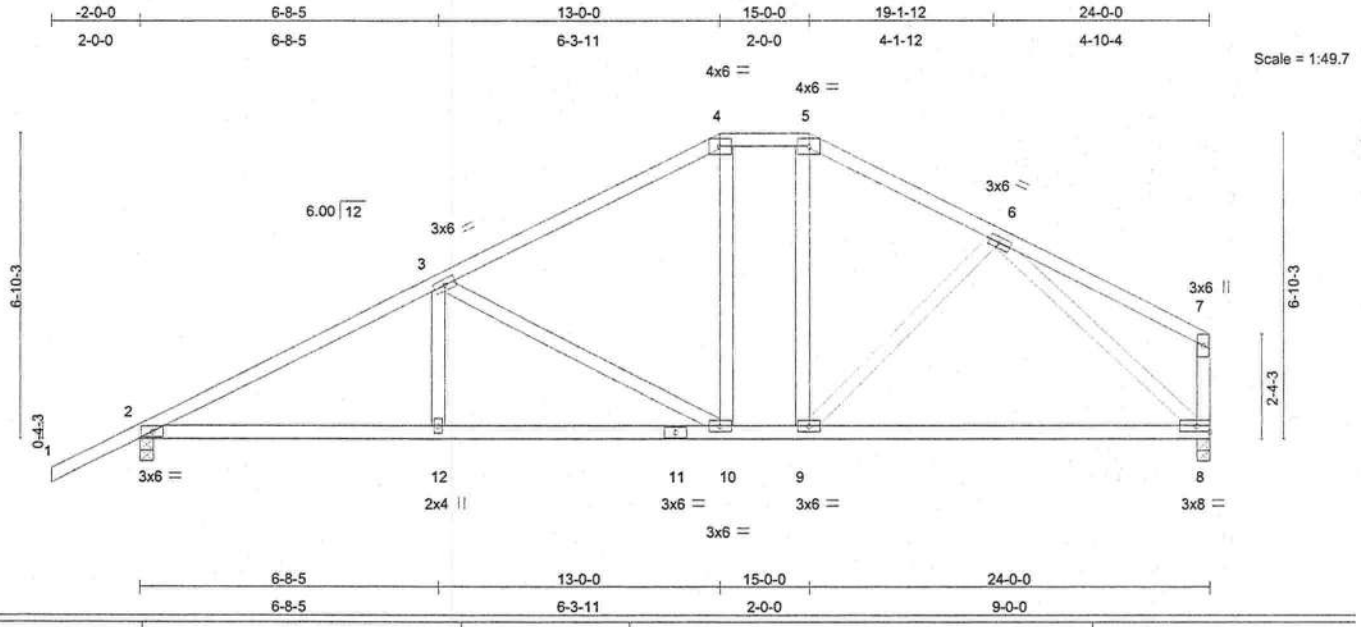
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
					J1504681
L132127	T19	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Sun Sep 25 08:11:58 2005 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	0.73	Vert(LL)	-0.15	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.23	10-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.05	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 133 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.

REACTIONS (lb/size) 2=1117/0-3-8, 8=991/0-3-8
Max Horz 2=248(load case 5)
Max Uplift 2=-433(load case 5), 8=-268(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1731/827, 3-4=-1079/604, 4-5=-893/614, 5-6=-1039/620, 6-7=-217/100, 7-8=-200/152
BOT CHORD 2-12=-749/1473, 11-12=-749/1473, 10-11=-749/1473, 9-10=-356/893, 8-9=-420/822
WEBS 3-12=0/248, 3-10=-682/447, 4-10=-106/266, 5-9=-108/242, 6-9=-30/206, 6-8=-956/559

JOINT STRESS INDEX
2 = 0.75, 3 = 0.39, 4 = 0.50, 5 = 0.67, 6 = 0.38, 7 = 0.34, 8 = 0.63, 9 = 0.36, 10 = 0.34, 11 = 0.67 and 12 = 0.33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

September 26,2005

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 44 CC
L132127	T19	HIP	1	1	J1504681
					Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 433 lb uplift at joint 2 and 268 lb uplift at joint 8.

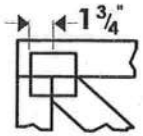
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

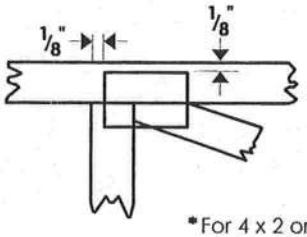
September 26,2005

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

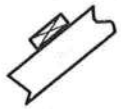
*This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

4 x 4

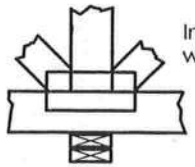
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



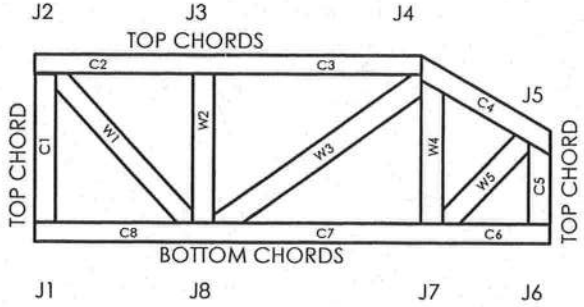
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

TAMKO®
ROOFING PRODUCTS

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMK(s Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Buil ng Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-46

TAMKO Roofing Products, Inc.

2300 35th STREET P.O. BOX 2149 TUSCALOOSA, AL 35403-2149 205-752-3555 FAX 205-349-2049

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Ceco Door Products
9159 Telecom Drive
Milan, TN 38358

In Swing

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: The Ceco Series Single Flush / Embossed Inswing Commercial Steel Doors –Impact

APPROVAL DOCUMENT: Drawing No **RD0728**, titled "3-0 x 7-0 , Series Regent, Omega, Imperial, Versa door", prepared by manufacturer, sheets 1 through 9 of 9 dated 05/22/02 and latest revised on 10-10-02, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

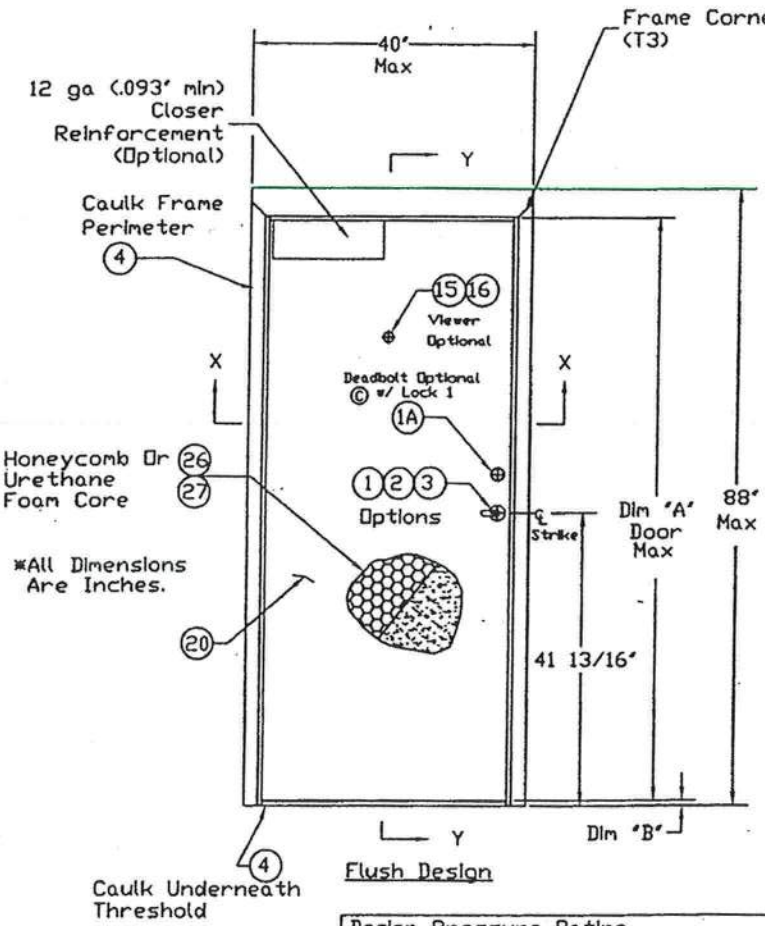
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

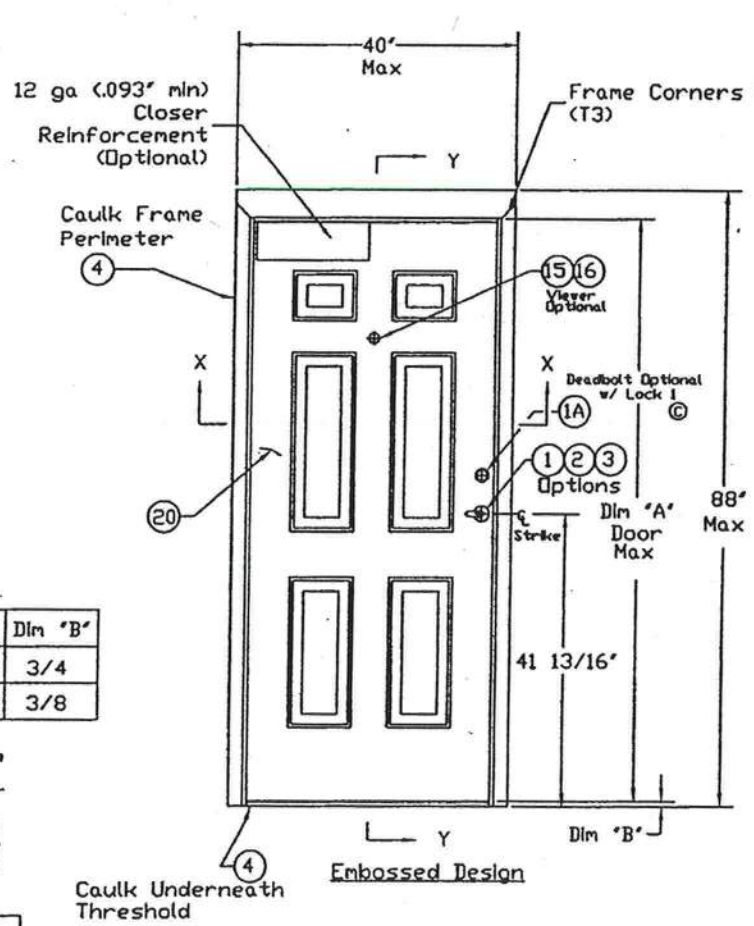
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA consists of this page 1 as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

PRODUCT CONTROL ACCEPTED





In-Swing Door
(Exterior View)

	Dim "A"	Dim "B"
3/4" Undercut	83 1/8	3/4
3/8" Undercut	83 1/2	3/8

Approved as complying with the Florida Building Code
Date OCTOBER 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

Design Pressure Rating		
	Where Water Infiltration Requirement Is Needed	Where Water Infiltration Requirement Is Not Needed
Positive	Not Approved	+70 PSF
Negative	Not Approved	-70 PSF

Notes:
1) In-swing Not Approved For Water Infiltration
2) This Door Does Not Need A Hurricane Protection System
3) Hinge Spacing Is 33" O.C., 13" From Top Of Frame & 9" From The Botton.

MATERIAL SPECIFICATIONS:
Finish: Rust Inhibitive Primer

3-0 x 7-0 Series
Regent, Omega, Imperial, & Versadoor
In-Swing Elevation Drawing

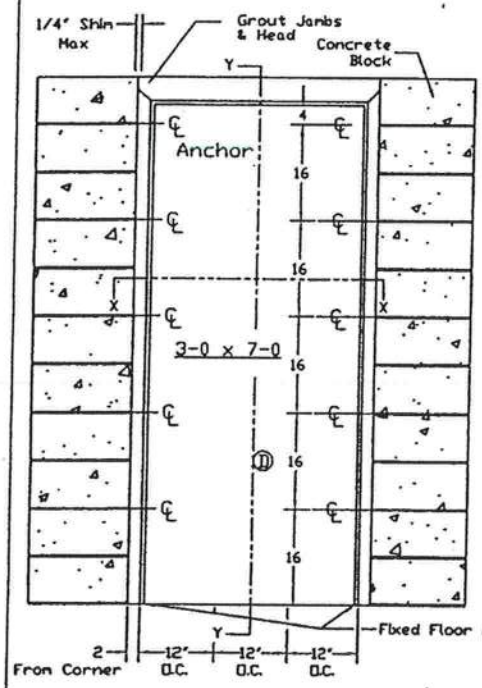
CECO DOOR PRODUCTS
Milan, Tennessee 38358

ISSUE	REVISIONS
B 10/10/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
A 8/28/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.

DRAWN BY: LT
DATE: 5/22/02
DRAWING NUMBER: RD0728
Sheet 1 of 9

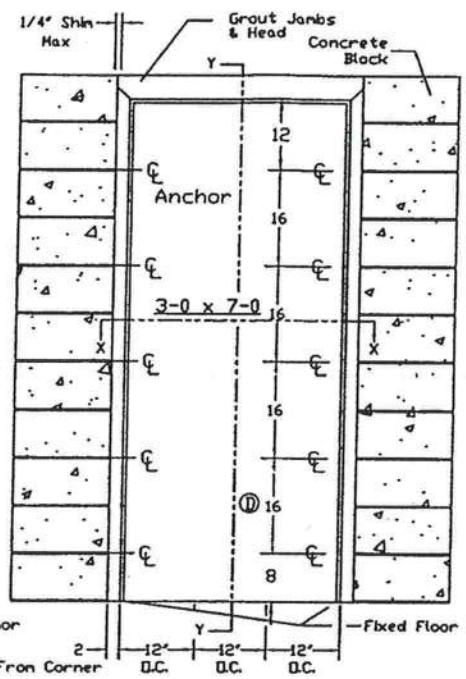
Masonry 'T' Anchor

Min. 3500 PSI



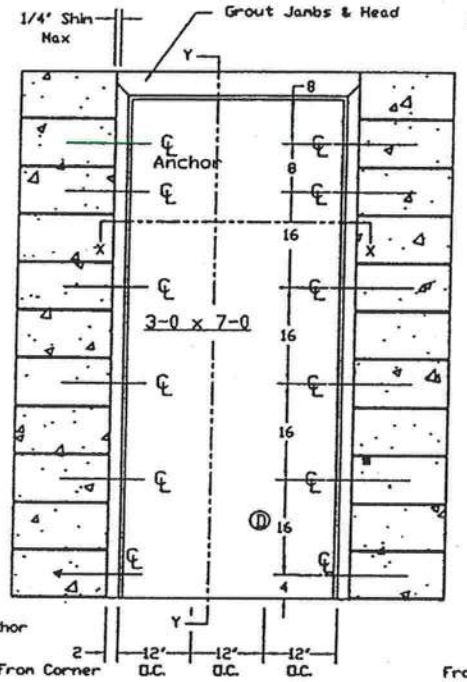
Masonry Wire Anchor

Min. 3500 PSI

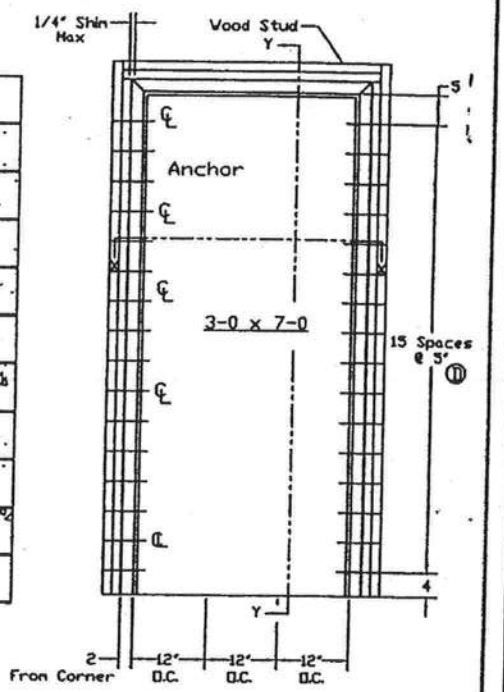


Existing Opening W/Lockbolt or Sleeve Anchor Into Block

Min. 3500 PSI

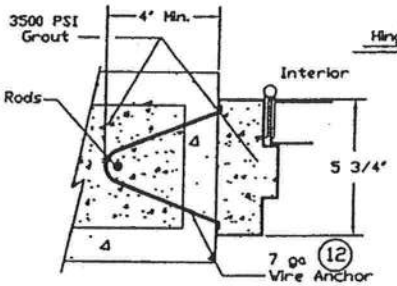


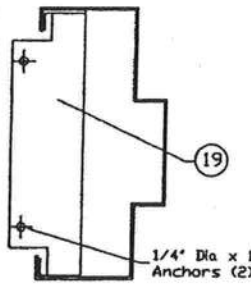
Existing Opening Anchor Into Wood Stud

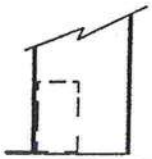


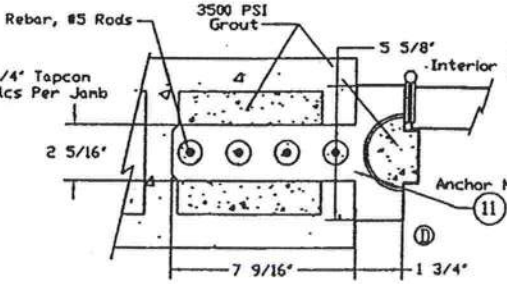
*All Dimensions Are Inches

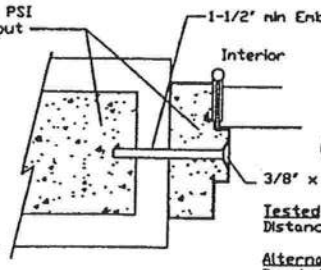
Installation Details Hinge Jambs / Lock Jambs





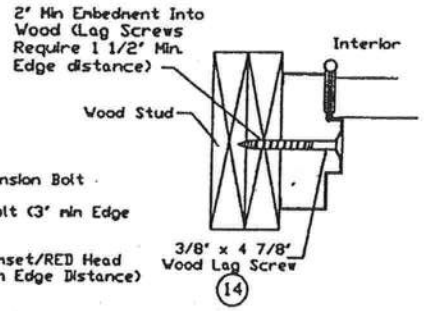






Tested Rawl Lok/Bolt (3" min Edge Distance)

Alternative ITW Ranset/RED Head Dynabolt (2-1/2" min Edge Distance)



Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

ISSUE	REVISIONS
A 8/28/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.

DRAWN BY: LT
DATE: 5/22/02

DRAWING NUMBER: RD0728

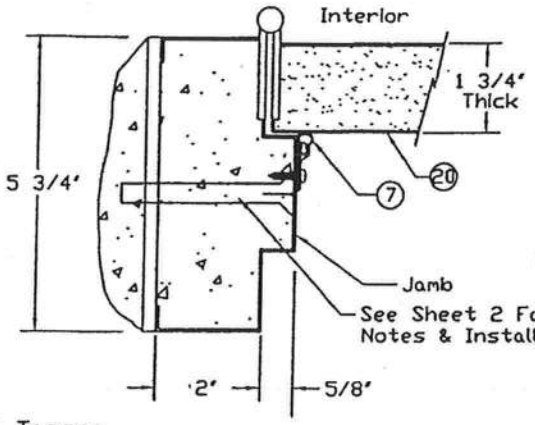
Sheet 2 of 9

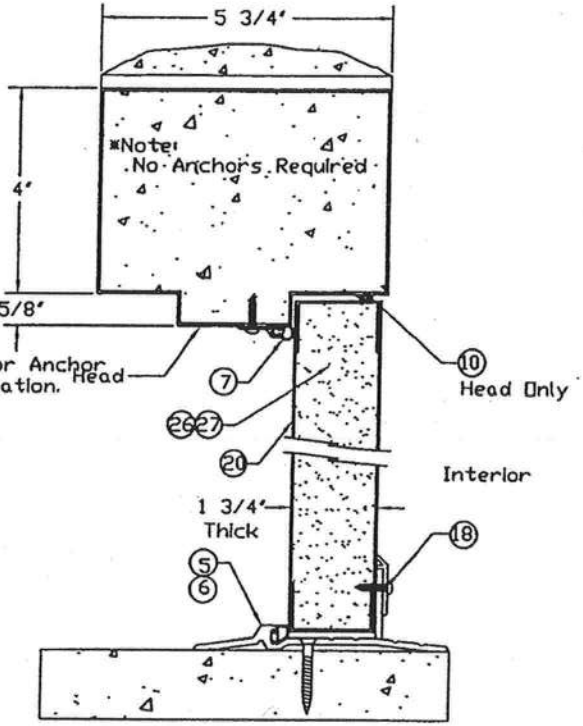
MATERIAL SPECIFICATIONS:

Frame Anchor (Inswing Doors) Regent, Omega, Imperial & Versadoor Installation Details

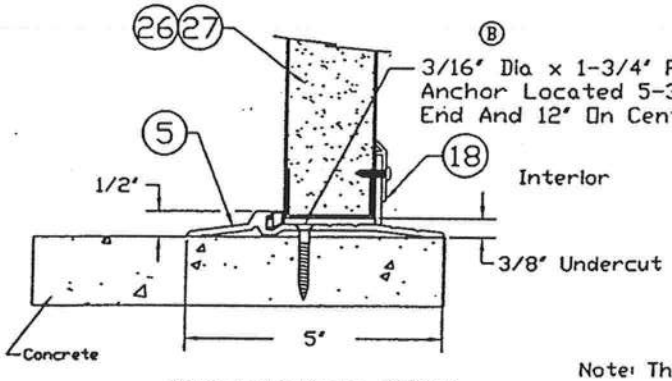
CECO DOOR PRODUCTS
Milan, Tennessee 38358

*Note: Structural Member At Header Must Be Designed To carry 58.3#/ft. load Imposed And Must Be Reviewed By Building Official.





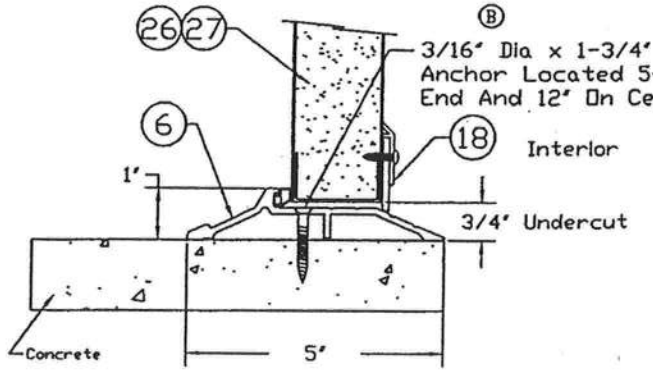
Section Y-Y



Threshold: Pemko 2005AV

Inswing
(Not Approved For Water)

Note: Thresholds Not Approved For Water.



Threshold: Pemko 181AV

Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

D	8/16/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda
C	8/29/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda

ISSUE REVISIONS

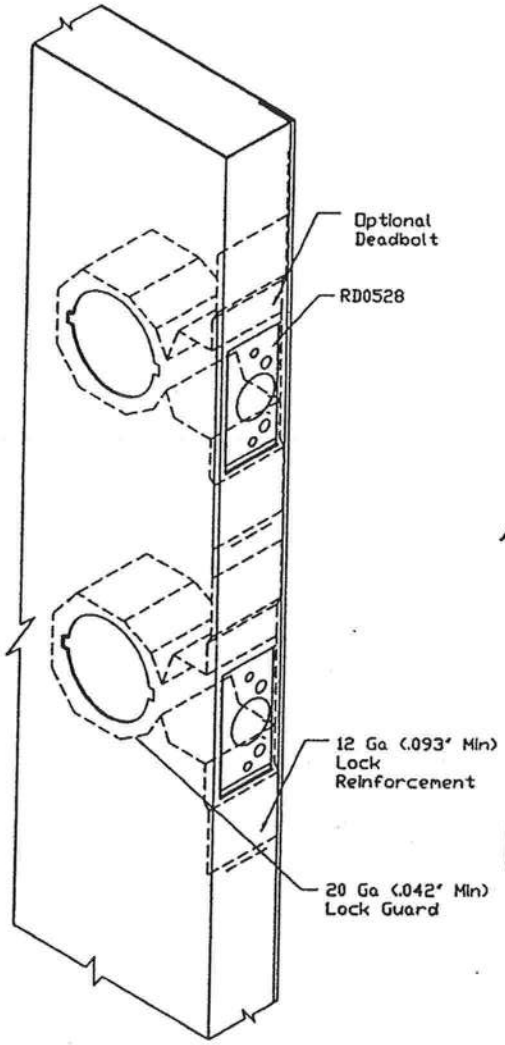
MATERIAL SPECIFICATIONS:

Threshold & Weatherstrip (Inswing Doors)
Regent, Omega, Imperial, Versadoor
Installation Details

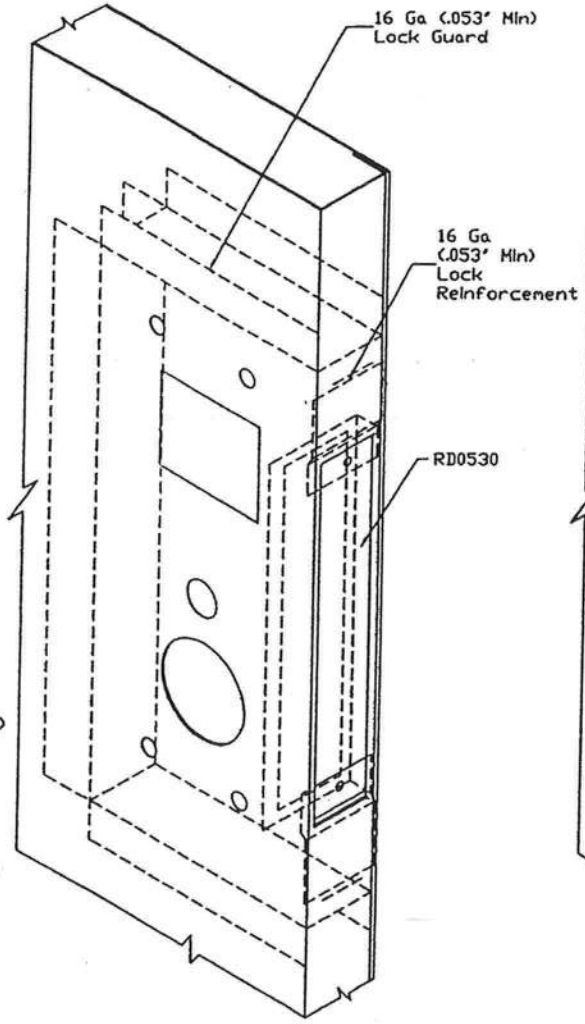
CECO DOOR PRODUCTS
Milan, Tennessee 38358

DRAWN BY: LT
DATE: 5/22/02

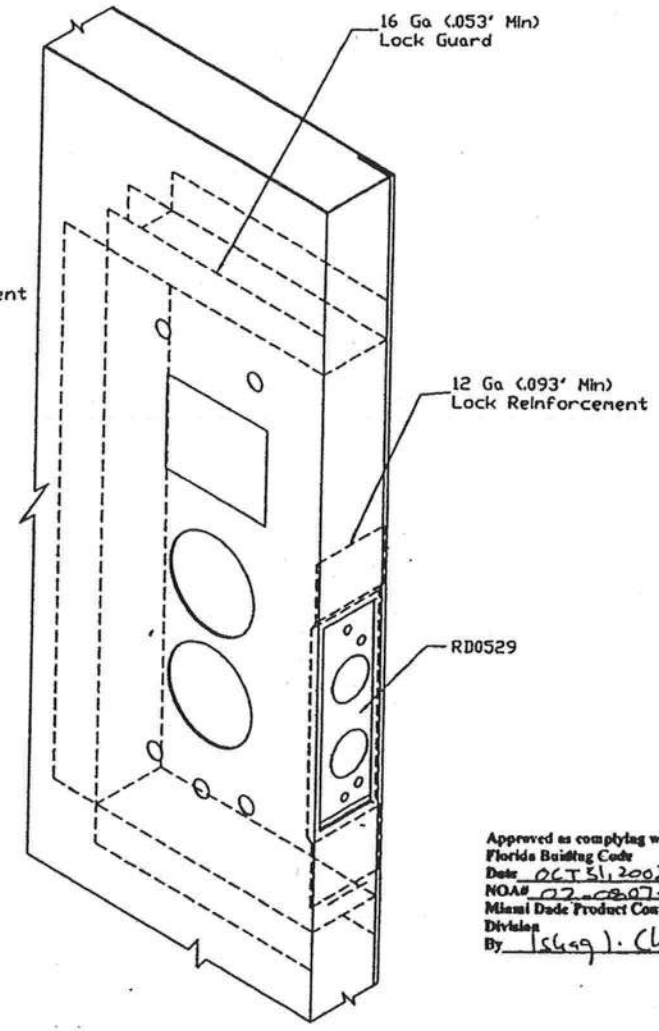
RD0728
Sheet 3 Of 9



Schlage AL53PD



Saflok MT



Saflok Premier SL2500

Approved as complying with the Florida Building Code
Date: OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By: [signature]

A 8/29/02 LT	Added RD0528, RD0529 & RD0530.
ISSUE	REVISIONS

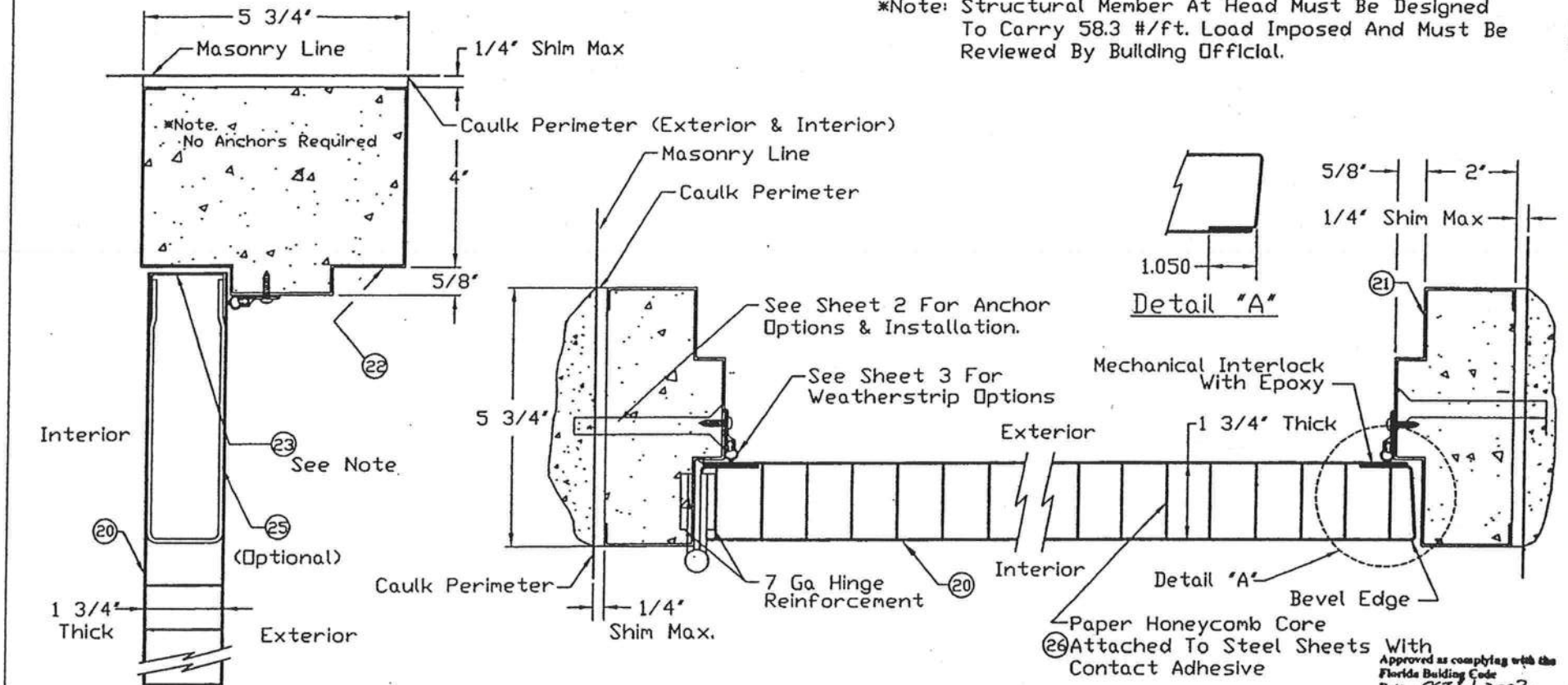
MATERIAL SPECIFICATIONS:

Lock Reinforcement (Inswing Doors)
Regent, Omega, Imperial, Versadoor
Reinforcement Details

CECO DOOR PRODUCTS
Milan, Tennessee 38358

DRAWN BY: LT	DATE: 5/28/02
DRAWING NUMBER: RD0728	
Sheet 4 of 9	

*Note: Structural Member At Head Must Be Designed To Carry 58.3 #/ft. Load Imposed And Must Be Reviewed By Building Official.

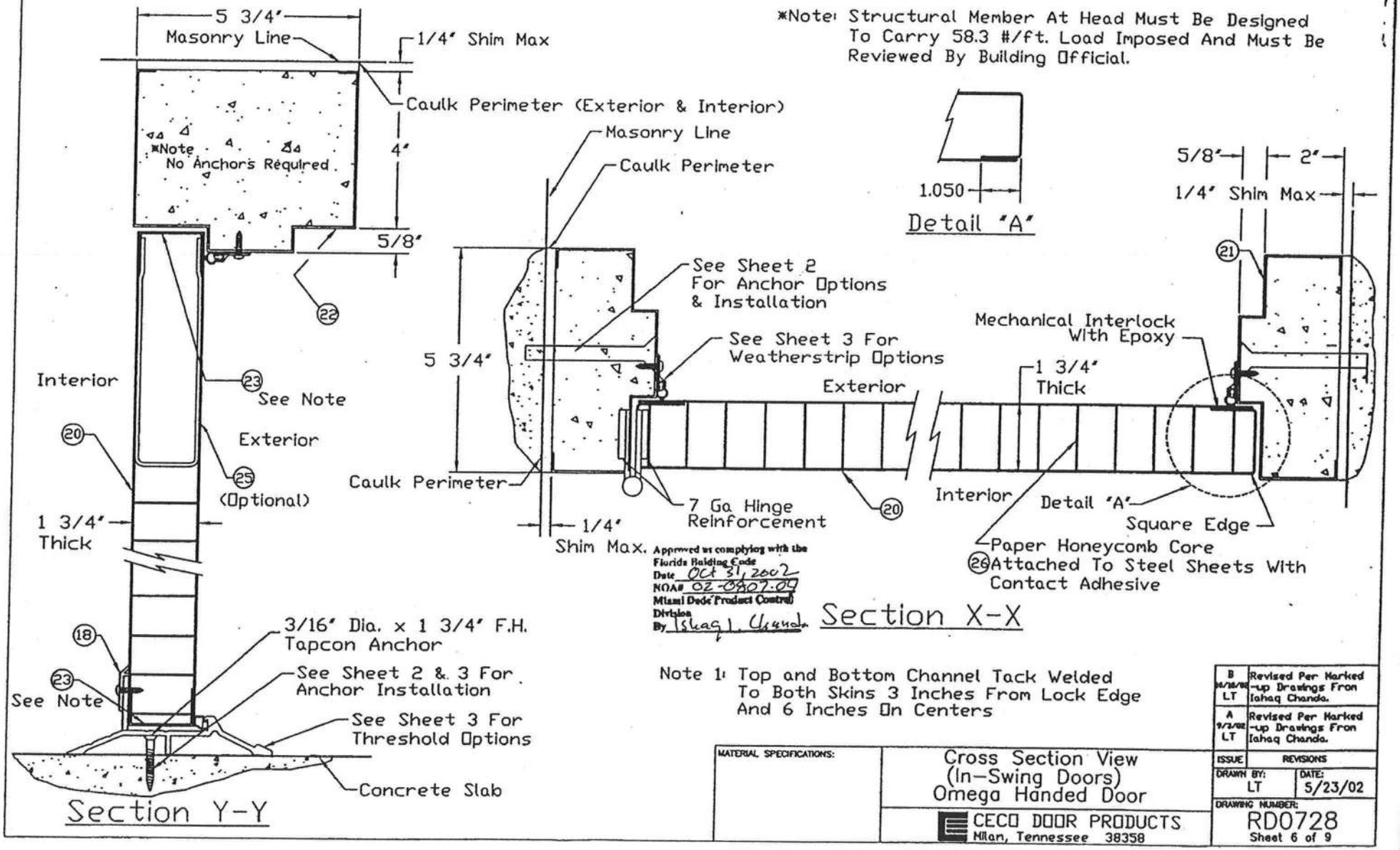


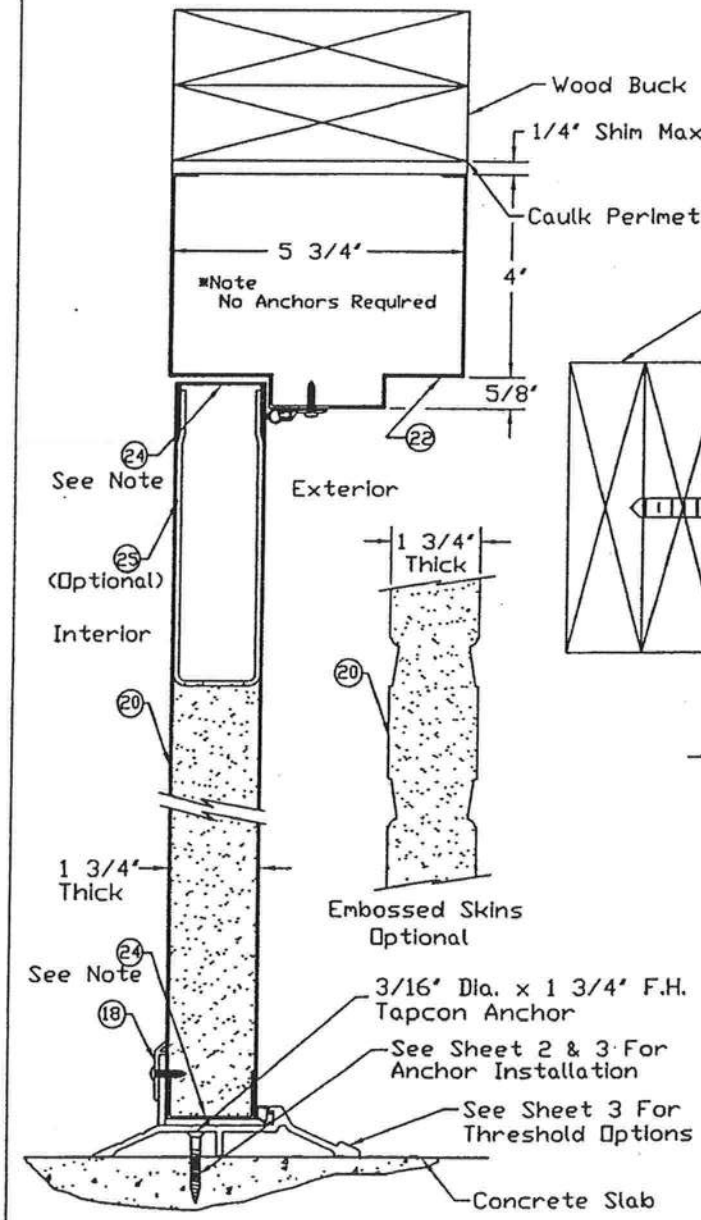
Note 1: Top and Bottom Channel Tack Welded To Both Skins 3 Inches From Lock Edge And 6 Inches On Centers

Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0307.04
Miami Dade Product Control Division
By [signature]

ISSUE	REVISIONS
C 10/16/02 LT	Revised Per Marked -up Drawings From Iahaq Chanda.
B 8/26/02 LT	Revised Per Marked -up Drawings From Iahaq Chanda.

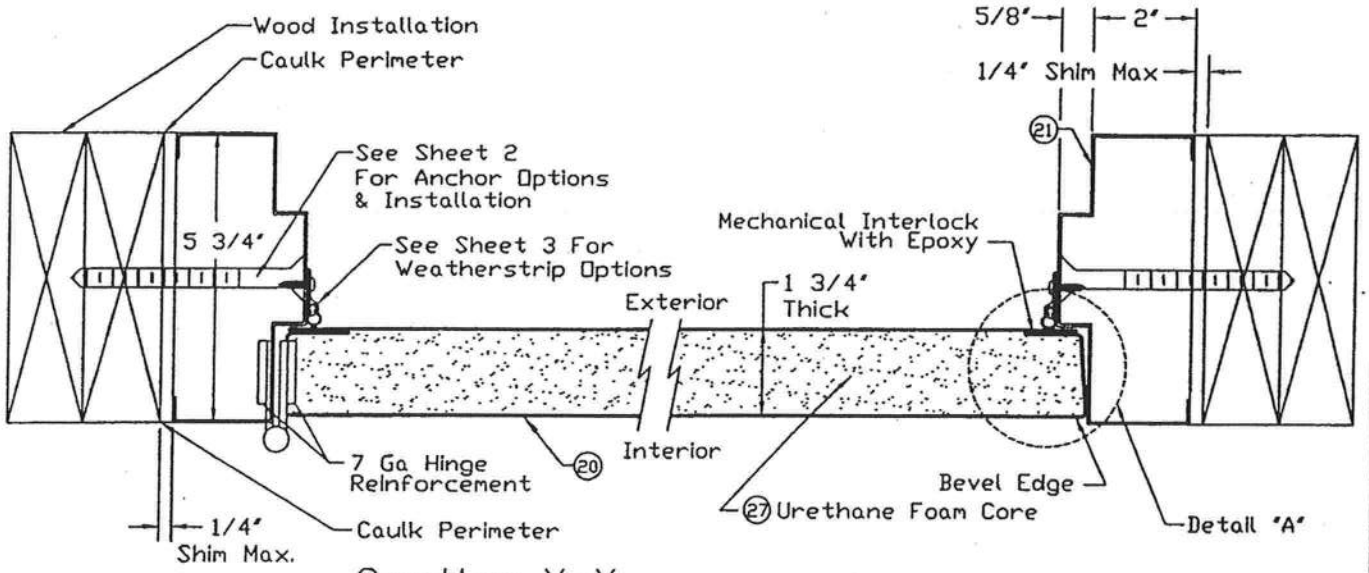
MATERIAL SPECIFICATIONS:	Cross Section View (Inswing Doors) Regent Handed Door	DRAWN BY: LT	DATE: 5/22/02
	CECO DOOR PRODUCTS Milan, Tennessee 38358	DRAWING NUMBER: RD0728	Sheet 5 of 9


5 3/4"
Masonry Line
1/4" Shim Max
Caulk Perimeter (Exterior & Interior)
4"
*Note
No Anchors Required
5/8"
22
Interior
23
See Note
Exterior
20
25
(Optional)
1 3/4"
Thick
18
3/16" Dia. x 1 3/4" F.H.
Tapcon Anchor
23
See Note
See Sheet 2 & 3 For
Anchor Installation
See Sheet 3 For
Threshold Options
Concrete Slab
Section Y-Y
*Note: Structural Member At Head Must Be Designed
To Carry 58.3 #/ft. Load Imposed And Must Be
Reviewed By Building Official.
Masonry Line
Caulk Perimeter
5 3/4"
See Sheet 2
For Anchor Options
& Installation
See Sheet 3 For
Weatherstrip Options
Exterior
Caulk Perimeter
7 Ga Hinge
Reinforcement
20
1/4"
Shim Max.
1.050
Detail "A"
5/8"
2"
1/4" Shim Max
21
Mechanical Interlock
With Epoxy
1 3/4"
Thick
Interior
Detail "A"
Square Edge
26
Paper Honeycomb Core
Attached To Steel Sheets With
Contact Adhesive
Section X-X
Approved as complying with the
Florida Building Code
Date Oct 31, 2002
NOA# 02-0807.04
Miami Dade Product Control
Division
By Ishaq I. Chanda
Note 1: Top and Bottom Channel Tack Welded
To Both Skins 3 Inches From Lock Edge
And 6 Inches On Centers
MATERIAL SPECIFICATIONS:
Cross Section View
(In-Swing Doors)
Omega Handed Door
CECO DOOR PRODUCTS
Milan, Tennessee 38358
B 10/28/02 LT Revised Per Marked -up Drawings From Ishaq Chanda.
A 9/3/02 LT Revised Per Marked -up Drawings From Ishaq Chanda.
ISSUE REVISIONS
DRAWN BY: LT
DATE: 5/23/02
DRAWING NUMBER:
RD0728
Sheet 6 of 9



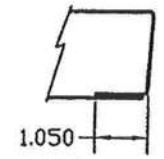
Section Y-Y

Note: Structural member at Head Must Be Designed To carry 58.3 #/ft. Load Imposed And Must Be Reviewed By Building Official.



Section X-X

Note: Top & Bottom Channels Assembled Std Method To Skins With Spot Welds & Tape. Channels Are Then Tack Welded To Both Skins 3" From Lock Edge And 6 Inches On Center.



Detail "A"

Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

B 9/1/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
ISSUE	REVISIONS

DRAWN BY: LT | DATE: 5/23/02

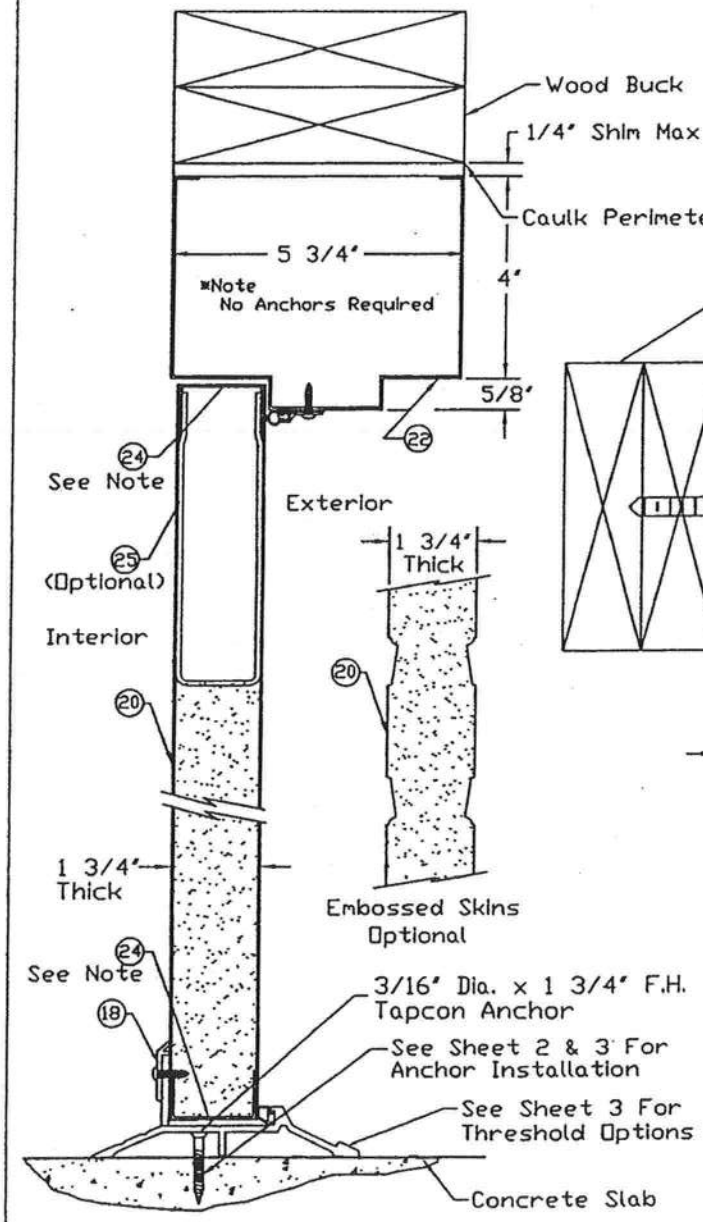
DRAWING NUMBER: RD0728

Sheet 7 of 9

MATERIAL SPECIFICATIONS:

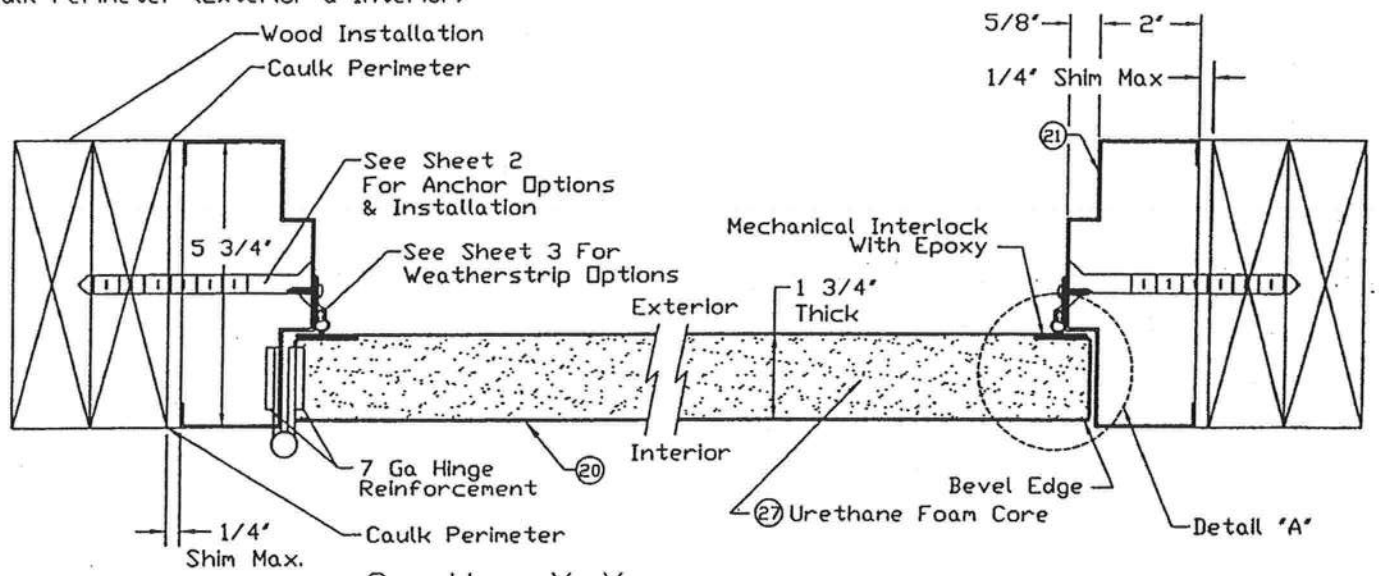
Cross Section View
(In-Swing Doors)
Imperial Handed Door

CECO DOOR PRODUCTS
Milan, Tennessee 38358



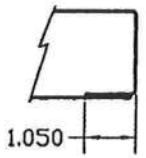
Section Y-Y

Note: Structural member at Head Must Be Designed To carry 58.3 #/ft. Load Imposed And Must Be Reviewed By Building Official.



Section X-X

Note: Top & Bottom Channels Assembled Std Method To Skins With Spot Welds & Tape. Channels Are Then Tack Welded To Both Skins 3" From Lock Edge And 6 Inches On Center.



Detail "A"

Approved as complying with the Florida Building Code
Date OCT 21, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

B 5/23/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
ISSUE	REVISIONS

DRAWN BY: LT
DATE: 5/23/02

MATERIAL SPECIFICATIONS:

Cross Section View
(In-Swing Doors)
Versadoor Handed Door

CECO DOOR PRODUCTS
Milan, Tennessee 38358

DRAWING NUMBER: RD0728
Sheet 8 of 9

1	Cylindrical Lock & Lock Reinforcement (RD0528)	Schlage	AL53PD
1A	Deadbolt (Optional) Ⓓ	Schlage	B100
2	Or Cylindrical Lock & Lock Reinforcement	Saflok	Premier SL2500
3	Or Mortise Lock	Saflok	MT
4	Caulk	Dow Corning	899 Silicone Glazing Sealant
5	Threshold	Pemko	2005AV36
6	Or	Pemko	181AV36
7	Weatherstrip	Pemko	303AV3684
8	Hinge (Ball Bearing)	Hager or Equal (Attached w/ (8) #12-24 x 1/2 MS Per Hinge)	4-1/2 x 4-1/2 x .134 (Std Weight)
9	Or (Spring)	Hager or Equal (Attached w/ (8) #12-24 x 1/2 MS Per Hinge)	4-1/2 x 4-1/2 x .134 (Std Weight)
10	Weatherstrip	Pemko	S88
11	Frame Anchor	Masonary Tee (RD0057)	16 ga (.053" min) Galv Steel Fymin = 30ksi
12	Or	Wire, Relaxed Dimension 9" x 8"	#7 (.167 " min) Galv Steel Wire (70,000 - 90,000 psi Tensile Strength)
13	Or	Expansion Bolt	3/8" x 5" F.H. Rawl Lok/Bolt Or 3/8" x 5" F.H. Ramset/RED Head
14	Or	Wood Lag Screw	3/8" x 4-5/8"
15	Viewer	Hager	1755
16	Or	MAG Security	8724-C
17	Drip Cap; Top	Pemko	346
18	Sweep	Pemko	315 N
19	Floor Anchor	Fixed Floor Anchor	16 ga (.053" min) galvanized Steel
20	Face Sheet A60 Galv Conforming To ASTM A653	Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 Ga (.053" min)
21	Series SF, Frame Jamb, Double Rabbet Profile, A60 Galv Conforming To ASTM A653	16 Ga (.053" min) Commercial Steel Type B (Minimum Yield Strength 30,000psi)	2" Face, 5-3/4" Depth Min. (RD0033)
22	Series SF, Frame Head, Double Rabbet, Profile A60 Galv Conforming To ASTM A653	16 Ga (.053" min) Commercial Steel Type B (Minimum Yield Strength 30,000psi)	4" Face, 5-3/4" Depth Min. (RD0033)
23	Door Channels; Spot Welded To Bottom Skin Glued To Top Skin; Tack Welded To Both	16 Ga (.053" min) A60 Galv Conforming To ASTM A653 Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 ga (.053" min) x 1" x 1-3/4" x 1"
24	Door Channels; Spot Welded To Bottom Skin Taped To Top Skin; Tack Welded To Both	16 Ga (.053" min) A60 Galv Conforming To ASTM A653 Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 ga (.053" min x 1" x 1-3/4" x 1"
25	Closer Reinforcement (Optional)	12 Ga (.093" min) CS Type B	12 ga (.093" min) x 5-3/8" x 16"
26	Honeycomb Core	Non-Impregnated Kraft Paper Ⓔ	1.2" Nominal Cell Size
27	Urethane Core	Foam Enterprises	2 lb/ft^3 Density

Approved as complying with the Florida Building Code
Date Oct 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

B	10/10/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
A	9/4/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.

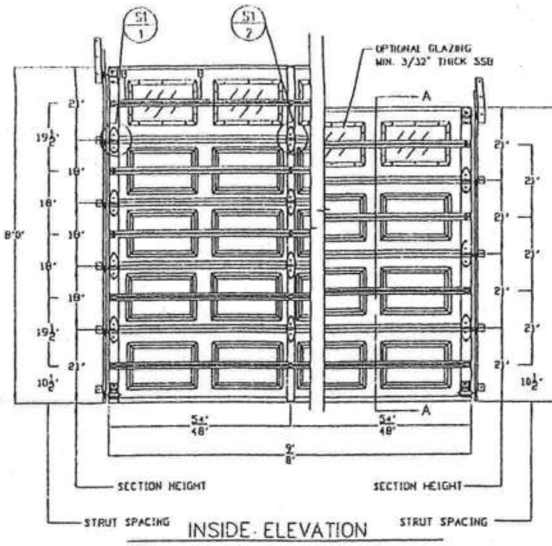
MATERIAL SPECIFICATIONS:

3-0 x 7-0 Series In-Swing Bill Of Materials

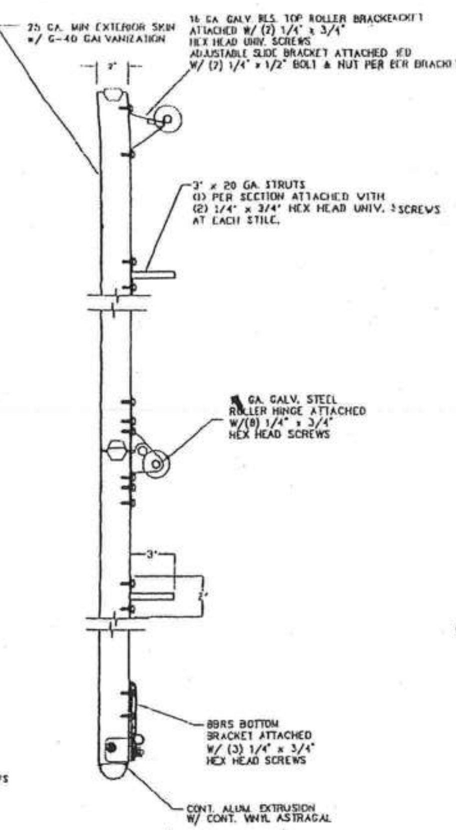
CECO DOOR PRODUCTS
Milan, Tennessee 38358

ISSUE	REVISIONS
DRAWN BY: LT	DATE: 5/28/02

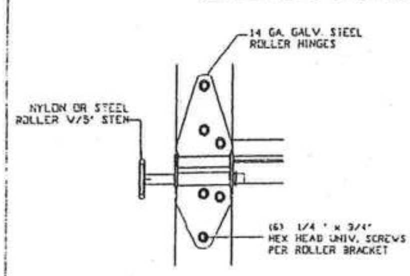
DRAWING NUMBER:
RD0728
Sheet 9 Of 9



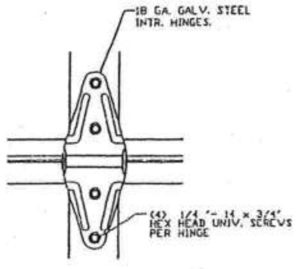
INSIDE ELEVATION



SECTION A–A (SIDE VIEW)



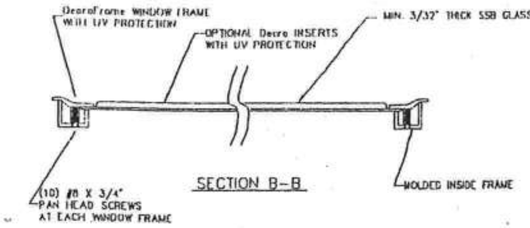
TYP. ROLLER BRACKET (S1/1)
N.T.S.



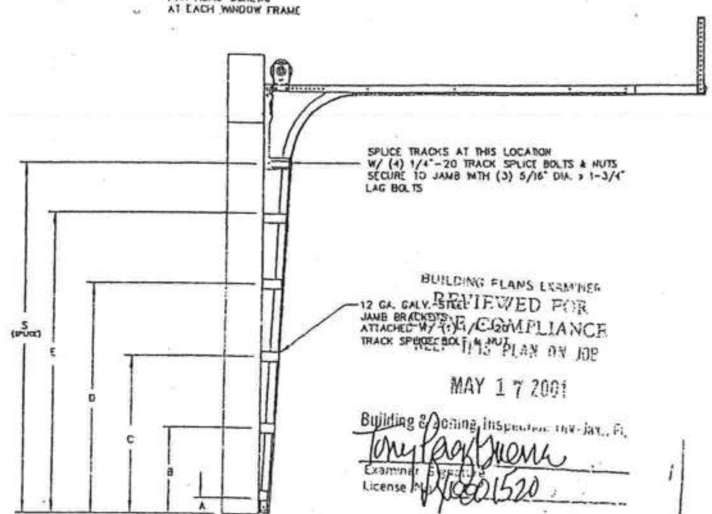
TYP. HINGE CONNECTION (S1/2)
N.T.S.

GLAZING OPTION CROSS SECTION

TEST No. SBC-580-011 ON OCTOBER 12, 1995 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +48.4 PSF AND -54.7 PSF. BY COMPARISON, FOUR (4) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 9' X 7' AND 9' X 8' MODEL 600 AND 950 DOORS



SECTION B–B



BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection, Inv-Jax, Fl.
Examiner
License No.

TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 25 GA. (.019") MIN. ROLL FORMED LIGHT COMMERCIAL QUALITY. G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS
   - A. BASIC WIND SPEED OF 110 MPH
   - B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   - C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   - D. USE FACTOR OF 1.0
   - E. EXPOSURE RATING OF C

WOOD JAMB ATTACHMENT TO STRUCTURE

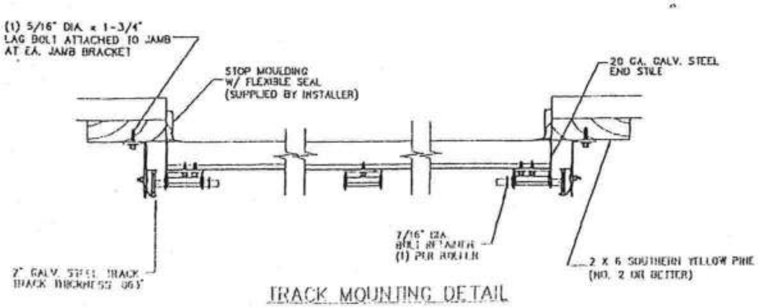
RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 4" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 24" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



TRACK MOUNTING DETAIL

MAX SIZE 9' x 8'	
DESIGN LOADS +28.7 PSF -31.3 PSF	
TEST LOADS +43.0 PSF -44.8 PSF	

Amarr GARAGE DOORS
MODEL #600 STRATFORD
MODEL #950 HERITAGE III
DRAWING NUMBER SBC-580-007-J
SHEET 1 OF 1

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 480/680/880 Drop-in
PRODUCT TYPE: Aluminum Horizontal Sliding Window (XO-Fin)

	Results	
Title	**Test Specimen #1**	**Test Specimen #2**
Rating	HS-C30 71 x 71	HS-C40 71 x 59
Operating Force	11 lbf max.	14 lbf max.
Air Infiltration	0.11 cfm/ft^2	0.09 cfm/ft^2
Water Resistance Test Pressure	5.3 psf	6.0 psf
Uniform Load Deflection Test Pressure	± 30.0 psf	+ 45.0 psf -47.2 psf
Uniform Structural Load Test Pressure	± 45.0 psf	+ 67.5 psf -70.8 psf
Forced Entry Resistance	Grade 10	Grade 10

Reference should be made to ATI Report Identification No. 01-47320.03 for complete test specimen description and data.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

ATI Report Identification No.: 01-47320.03
Test Dates: 10/07/03
Through: 10/08/03
And: 12/01/03
And: 12/15/03
And: 03/17/04
Report Date: 04/16/04
Expiration Date: 10/07/07

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on two Series/Model 480/680/880 Drop-in, aluminum horizontal sliding windows at MI Home Products, Inc. test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: HS-C30 71 x 71; Test Specimen #2: HS-C40 71 x 59. Test specimen description and results are reported herein.

Test Specification: The test specimens were evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 480/680/880 Drop-in

Product Type: Aluminum Horizontal Sliding Window (XO Fin)

Test Specimen #1: HS-C30 71 x 71

Overall Size: 5' 11-7/16" wide by 5' 11" high

Active Sash Size: 2' 11-5/8" wide by 5' 8-3/8" high

Fixed Daylight Opening Size: 2' 8-3/16" wide by 5' 5-5/8" high

Screen Size: 2' 10" wide by 5' 6-1/2" high

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.250" high by 0.187" backed polypile with center fin	1 Row	Active sash top and bottom rails and fixed meeting rail interlock
0.250" high by 0.187" backed polypile with center fin	2 Rows	Jamb stile

Test Specimen #2: HS-C40 71 x 59

Overall Size: 5' 11-3/8" wide by 4' 11-1/8" high

Active Sash Size: 2' 11-5/8" wide by 4' 8-1/4" high

Fixed Daylight Opening Size: 2' 8-1/4" wide by 4' 5-7/8" high

Screen Size: 2' 10-1/4" wide by 4' 7-1/8" high

Weatherstripping:

Description	Quantity	Location
0.310" high by 0.187" backed polypile with center fin	1 Row	Active sash top and bottom rails
0.250" high by 0.187" backed polypile with center fin	1 Rows	Fixed meeting rail interlock
0.310" high by 0.187" backed polypile with center fin	2 Rows	Jamb stile
0.550" high by 1" by 1" backed polypile pad	1 Pad	Corner of bottom rail and locking stile

Test Specimen Description: (Continued)

The following descriptions apply to all specimens.

Finish: All aluminum was white.

Glazing Details: The window utilized 5/8" thick sealed insulating glass constructed from two sheets of 1/8" thick clear annealed glass and a Swiggle spacer system. The lites were interior glazed onto double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

Frame Construction: The frame was constructed of thermally broken extruded aluminum. The corners were secured utilizing three #8 x 1" screws per corner through the jambs into the head and sill screw bosses. End caps were utilized on the ends of the fixed meeting rails and secured with two #8 x 3/4" screws per cap. The meeting rails were then secured to the frame with two #8 x 3/4" screws.

Sash Construction: The sash was constructed of thermally broken extruded aluminum. The corners were secured utilizing one #8 x 1" screw per corner through the head and sill into the jambs screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible vinyl spline.

Hardware:

Description	Quantity	Location
Cam lock	1	One midspan of active panel with integral lock keeper on fixed meeting stile
Roller assembly	2	One each end of bottom rail
Screen constant force spring	2	5" from rails on screen stiles
Screen lift handles	2	5" from rails on screen stiles

Drainage:

Description	Quantity	Location
1-1/4" long by 1/4" wide weepslot with cover	2	3-1/2" from jambs on sill face
1/2" long by 1/8" wide weepslot	2	2" from jambs on sill track

Reinforcement: No reinforcement was utilized.

Installation: The window was installed into a #2 Spruce-Pine-Fir wood buck. The window was secured utilizing #8 x 1-5/8" drywall screws located in corners and 12" on center around nail-fin perimeter. Silicone was utilized around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: HS-C30 71 x 71			
2.2.2.5.1	Operating Force	11 lbf	25 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.11 cfm/ft^2	0.3 cfm/ft^2 max.

***Note #1**: The tested specimen meets the performance levels specified in ANSI/AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

2.1.3	Water Resistance per ASTM E 547-00 (with and without screen) 4.50 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	30.0 psf (positive)	0.75"	See Note #2
	30.0 psf (negative)	0.71"	See Note #2

***Note #2**: The Uniform Load Deflection test is not requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	45.0 psf (positive)	0.13"	0.26" max.
	45.0 psf (negative)	<0.01"	0.26" max.
2.2.2.5.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Handle stile	0.13"/25%	0.50"/100%
	Lock stile	0.19"/38%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.09"/19%	0.50"/100%
	Bottom rail	0.06"/13%	0.50"/100%

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: HS-C30 71 x 71 (Continued)			
2.1.8	Forced Entry Resistance per ASTM F 588		
Type: A	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 thru A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547-00 (with and without screen) 5.3 psf	No leakage	No leakage
Test Specimen #2: HS-C40 71 x 59			
2.2.2.5.1	Operating Force	14 lbf	25 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.09 cfm/ft^2	0.3 cfm/ft^2 max.
	***Note #1**: The tested specimen meets the performance levels specified in ANSI/AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*		
2.1.3	Water Resistance per ASTM E 547-00 (with and without screen) 4.50 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	30.0 psf (positive)	0.62"	See Note #2
	30.0 psf (negative)	0.51"	See Note #2
2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	45.0 psf (positive)	0.03"	0.21" max.
	45.0 psf (negative)	0.04"	0.21" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #2: HS-C40 71 x 59 (Continued)			
2.2.2.5.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Handle stile	0.13"/25%	0.50"/100%
	Lock stile	0.13"/25%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.03"/6%	0.50"/100%
	Bottom rail	0.03"/6%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 thru A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547-00 (with and without screen) 6.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	45.0 psf (positive)	0.62"	See Note #2
	47.2 psf (negative)	0.54"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	67.5 psf (positive)	0.04"	0.21" max.
	70.8 psf (negative)	0.08"	0.21" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced except in full without approval of Architectural Testing.

For ARCHITECTURAL TESTING, INC

Digitally Signed by: Eric Westphal

Eric Westphal
Technician

Digitally Signed by: Steven M. Urich

Steven M. Urich, P. E.
Senior Project Engineer

EW:dme
01-47320.03

APRIL 20, 2004

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**4 bedroom St. Johns Model**	Builder:	**John Norris**
Address:	**Lot: 18, Sub: Canon Creek, Plat:**	Permitting Office:	**Columbia County**
City, State:	**Lake City, FL**	Permit Number:	
Owner:	**Pete Giebeig**	Jurisdiction Number:	
Climate Zone:	**South**		

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		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		1972 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	191.0 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 195.8(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Face Brick, Wood, Exterior		R=13.0, 1398.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 168.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1972.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=7.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 12.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.40	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
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)		

Glass/Floor Area: 0.10

Total as-built points: 25864

Total base points: 33578

PASS

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

PREPARED BY: William H Free

DATE: 9/26/05

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: _____

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**4 bedroom St. Johns Model**	Builder:	**John Norris**
Address:	**Lot: 18, Sub: Canon Creek, Plat:**	Permitting Office:	**Columbia County**
City, State:	**Lake City, FL**	Permit Number:	
Owner:	**Pete Giebeig**	Jurisdiction Number:	
Climate Zone:	**South**		

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		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		1972 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	191.0 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 195.8(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Face Brick, Wood, Exterior		R=13.0, 1398.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 168.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1972.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=7.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 12.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.40	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
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)		

Glass/Floor Area: 0.10

Total as-built points: 25864

Total base points: 33578

PASS

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

PREPARED BY: _____

DATE: _____

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.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1972.0	32.50	11536.2	Double, Clear	E	1.5	6.0	30.0	68.60	0.92	1888.1
				Double, Clear	E	1.5	6.0	20.0	68.60	0.92	1258.7
				Double, Clear	E	1.5	6.0	30.0	68.60	0.92	1888.1
				Double, Clear	E	12.5	8.0	40.0	68.60	0.44	1196.5
				Double, Clear	W	1.5	6.0	30.0	61.59	0.92	1696.3
				Double, Clear	W	1.5	6.0	30.0	61.59	0.92	1696.3
				Double, Clear	S	1.5	2.0	5.0	58.45	0.57	166.7
				Double, Clear	S	1.5	4.0	6.0	58.45	0.76	266.1
				As-Built Total:				**191.0**			**10056.9**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	168.0	1.00	168.0	Face Brick, Wood, Exterior	13.0	1398.0	0.98	1363.1
Exterior	1398.0	2.70	3774.6	Frame, Wood, Adjacent	13.0	168.0	0.90	151.2
Base Total:	**1566.0**		**3942.6**	**As-Built Total:**		**1566.0**		**1514.3**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	17.7	2.60	46.0	Exterior Wood	20.0	9.40	188.0
Exterior	20.0	6.40	128.0	Adjacent Wood	17.7	3.80	67.2
Base Total:	**37.7**		**174.0**	**As-Built Total:**	**37.7**		**255.2**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1972.0	2.80	5521.6	Under Attic	30.0	1972.0	2.77 X 1.00	5462.4
Base Total:	**1972.0**		**5521.6**	**As-Built Total:**		**1972.0**		**5462.4**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	195.8(p)	-20.0	-3916.6	Slab-On-Grade Edge Insulation	0.0	195.8(p	-20.00	-3916.6
Raised	0.0	0.00	0.0					
Base Total:			**-3916.6**	**As-Built Total:**		**195.8**		**-3916.6**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	1972.0	18.79	37053.9	1972.0	18.79	37053.9

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT						
Summer Base Points:		**54311.6**	**Summer As-Built Points:**						**50426.0**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
54311.6	**0.4266**	**23169.3**	50426.0 **50426.0**	1.000 **1.00**	(1.066 x 1.165 x 0.90) **1.117**	0.284 **0.284**	1.000 **1.000**	16008.5 **16008.5**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1972.0	2.36	837.7	Double, Clear	E	1.5	6.0	30.0	3.30	1.02	101.1
				Double, Clear	E	1.5	6.0	20.0	3.30	1.02	67.4
				Double, Clear	E	1.5	6.0	30.0	3.30	1.02	101.1
				Double, Clear	E	12.5	8.0	40.0	3.30	1.18	156.0
				Double, Clear	W	1.5	6.0	30.0	3.98	1.00	119.1
				Double, Clear	W	1.5	6.0	30.0	3.98	1.00	119.1
				Double, Clear	S	1.5	2.0	5.0	3.12	1.25	19.5
				Double, Clear	S	1.5	4.0	6.0	3.12	1.07	20.0
				As-Built Total:				**191.0**			**703.4**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Adjacent	168.0	0.50	84.0	Face Brick, Wood, Exterior			13.0	1398.0	0.43		594.2
Exterior	1398.0	0.60	838.8	Frame, Wood, Adjacent			13.0	168.0	0.50		84.0
Base Total:	**1566.0**		**922.8**	**As-Built Total:**				**1566.0**			**678.2**
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points
Adjacent	17.7	1.30	23.0	Exterior Wood				20.0	2.80		56.0
Exterior	20.0	1.80	36.0	Adjacent Wood				17.7	1.90		33.6
Base Total:	**37.7**		**59.0**	**As-Built Total:**				**37.7**			**89.6**
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points
Under Attic	1972.0	0.10	197.2	Under Attic			30.0	1972.0	0.10 X 1.00		197.2
Base Total:	**1972.0**		**197.2**	**As-Built Total:**				**1972.0**			**197.2**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Slab	195.8(p)	-2.1	-411.2	Slab-On-Grade Edge Insulation			0.0	195.8(p	-2.10		-411.2
Raised	0.0	0.00	0.0								
Base Total:			**-411.2**	**As-Built Total:**				**195.8**			**-411.2**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points
	1972.0	-0.06	-118.3					1972.0	-0.06		-118.3

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT						
Winter Base Points:		**1487.1**	**Winter As-Built Points:**						**1138.8**
Total Winter Points	X System Multiplier	= Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
1487.1	**0.6274**	**933.0**	1138.8 **1138.8**	1.000 **1.00**	(1.087 x 1.137 x 0.91) **1.125**	0.461 **0.461**	1.000 **1.000**	590.5 **590.5**

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2369.00	9476.0	50.0	0.90	4	1.00	2316.36	1.00	9265.4	
				As-Built Total:						**9265.4**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
23169	**933**	**9476**	**33578**	**16008**	**590**	**9265**	**25864**

PASS

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.5

The higher the score, the more efficient the home.

Pete Giebeig, Lot: 18, Sub: Canon Creek, Plat: , Lake City, FL,

1. New construction or existing		New	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		1972 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear - single pane	0.0 ft²	191.0 ft²	
b. Clear - double pane	0.0 ft²	0.0 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	0.0 ft²	
d. Tint/other SHGC - double pane			
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 195.8(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Face Brick, Wood, Exterior		R=13.0, 1398.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 168.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1972.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=7.0, 60.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 12.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.40	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
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)		

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 850/488-7824.*

Residential System Sizing Calculation

Summary

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

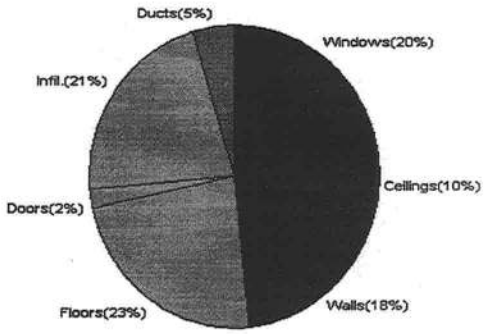
9/26/2005

Location for weather data: Orlando - User customized: Latitude(28) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(44gr.)					
Winter design temperature	38	F	Summer design temperature	98	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	32	F	Summer temperature difference	23	F
Total heating load calculation	**21703**	**Btuh**	**Total cooling load calculation**	**23747**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	165.9	36000	Sensible (SHR = 0.5)	97.5	18000
Heat Pump + Auxiliary(0.0kW)	165.9	36000	Latent	340.3	18000
			Total (Electric Heat Pump)	151.6	36000

WINTER CALCULATIONS

Winter Heating Load (for 1972 sqft)

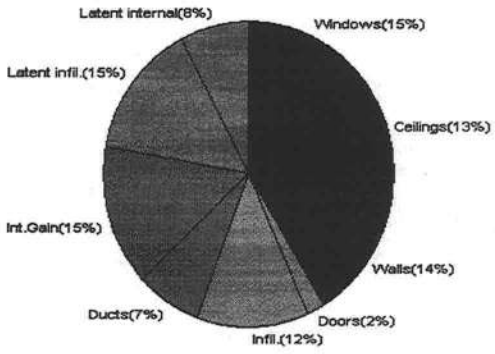
Load component			Load	
Window total	191	sqft	4431	Btuh
Wall total	1566	sqft	3904	Btuh
Door total	38	sqft	457	Btuh
Ceiling total	1972	sqft	2169	Btuh
Floor total	196	ft	5072	Btuh
Infiltration	132	cfm	4637	Btuh
Subtotal			**20670**	**Btuh**
Duct loss			1033	Btuh
TOTAL HEAT LOSS			**21703**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1972 sqft)

Load component			Load	
Window total	191	sqft	3492	Btuh
Wall total	1566	sqft	3234	Btuh
Door total	38	sqft	463	Btuh
Ceiling total	1972	sqft	3076	Btuh
Floor total			0	Btuh
Infiltration	115	cfm	2916	Btuh
Internal gain			3600	Btuh
Subtotal(sensible)			**16780**	**Btuh**
Duct gain			1678	Btuh
Total sensible gain			**18458**	**Btuh**
Latent gain(infiltration)			3449	Btuh
Latent gain(internal)			1840	Btuh
Total latent gain			**5289**	**Btuh**
TOTAL HEAT GAIN			**23747**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY: Walter H Free
DATE: 9/26/05

Residential System Sizing Calculation

Summary

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

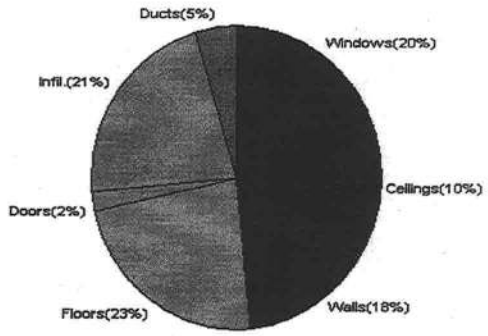
9/26/2005

Location for weather data: Orlando - User customized: Latitude(28) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(44gr.)					
Winter design temperature	38	F	Summer design temperature	98	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	32	F	Summer temperature difference	23	F
Total heating load calculation	**21703**	**Btuh**	**Total cooling load calculation**	**23747**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	165.9	36000	Sensible (SHR = 0.5)	97.5	18000
Heat Pump + Auxiliary(0.0kW)	165.9	36000	Latent	340.3	18000
			Total (Electric Heat Pump)	151.6	36000

WINTER CALCULATIONS

Winter Heating Load (for 1972 sqft)

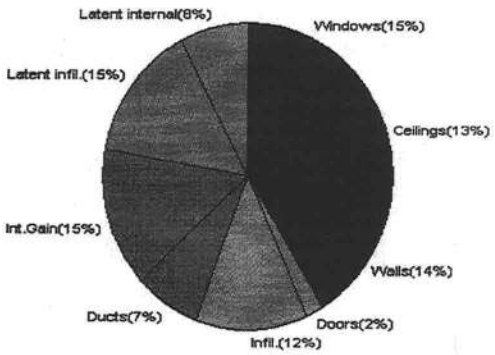
Load component			Load	
Window total	191	sqft	4431	Btuh
Wall total	1566	sqft	3904	Btuh
Door total	38	sqft	457	Btuh
Ceiling total	1972	sqft	2169	Btuh
Floor total	196	ft	5072	Btuh
Infiltration	132	cfm	4637	Btuh
Subtotal			**20670**	**Btuh**
Duct loss			1033	Btuh
TOTAL HEAT LOSS			**21703**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1972 sqft)

Load component			Load	
Window total	191	sqft	3492	Btuh
Wall total	1566	sqft	3234	Btuh
Door total	38	sqft	463	Btuh
Ceiling total	1972	sqft	3076	Btuh
Floor total			0	Btuh
Infiltration	115	cfm	2916	Btuh
Internal gain			3600	Btuh
Subtotal(sensible)			**16780**	**Btuh**
Duct gain			1678	Btuh
Total sensible gain			**18458**	**Btuh**
Latent gain(infiltration)			3449	Btuh
Latent gain(internal)			1840	Btuh
Total latent gain			**5289**	**Btuh**
TOTAL HEAT GAIN			**23747**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Component Details

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

Reference City: Orlando (User customized) Winter Temperature Difference: 32.0 F

9/26/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	30.0	23.2	696 Btuh
2	2, Clear, Metal, DEF	N	20.0	23.2	464 Btuh
3	2, Clear, Metal, DEF	N	30.0	23.2	696 Btuh
4	2, Clear, Metal, DEF	N	40.0	23.2	928 Btuh
5	2, Clear, Metal, DEF	S	30.0	23.2	696 Btuh
6	2, Clear, Metal, DEF	S	30.0	23.2	696 Btuh
7	2, Clear, Metal, DEF	E	5.0	23.2	116 Btuh
8	2, Clear, Metal, DEF	E	6.0	23.2	139 Btuh
	Window Total		191		4431 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1398	2.6	3635 Btuh
2	Frame - Adjacent	13.0	168	1.6	269 Btuh
	Wall Total		1566		3904 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		20	14.7	294 Btuh
2	Wood - Adjac		18	9.2	163 Btuh
	Door Total		38		457Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1972	1.1	2169 Btuh
	Ceiling Total		1972		2169Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	195.8 ft(p)	25.9	5072 Btuh
	Floor Total		196		5072 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	19720(sqft)	132	4637 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			132	4637 Btuh

Totals for Heating	**Subtotal**	**20670 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**1033 Btuh**
	Total Btuh Loss	**21703 Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

Reference City: Orlando (User customized) Summer Temperature Difference: 23.0 F 9/26/2005

Window	Type Panes/SHGC/U/InSh/ExSh Ornt		Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load	
1	2, Clear, DEF, B, N	N	1.5	6	30.0	0.0	30.0	17	17	510	Btuh
2	2, Clear, DEF, B, N	N	1.5	6	20.0	0.0	20.0	17	17	340	Btuh
3	2, Clear, DEF, B, N	N	1.5	6	30.0	0.0	30.0	17	17	510	Btuh
4	2, Clear, DEF, B, N	N	12.5	8	40.0	0.0	40.0	17	17	680	Btuh
5	2, Clear, DEF, B, N	S	1.5	6	30.0	30.0	0.0	17	26	510	Btuh
6	2, Clear, DEF, B, N	S	1.5	6	30.0	30.0	0.0	17	26	510	Btuh
7	2, Clear, DEF, B, N	E	1.5	2	5.0	3.1	1.9	17	48	144	Btuh
8	2, Clear, DEF, B, N	E	1.5	4	6.0	0.0	6.0	17	48	288	Btuh
	Window Total				191					3492	Btuh

Walls	Type	R-Value	Area	HTM	Load	
1	Frame - Exterior	13.0	1398.0	2.1	2992	Btuh
2	Frame - Adjacent	13.0	168.0	1.4	242	Btuh
	Wall Total		1566.0		3234	Btuh

Doors	Type	Area	HTM	Load	
1	Wood - Exter	20.0	12.3	246	Btuh
2	Wood - Adjac	17.7	12.3	217	Btuh
	Door Total	37.7		463	Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load	
1	Under Attic/Dark	30.0	1972.0	1.6	3076	Btuh
	Ceiling Total		1972.0		3076	Btuh

Floors	Type	R-Value	Size	HTM	Load	
1	Slab-On-Grade Edge Insulation	0.0	195.8 ft(p)	0.0	0	Btuh
	Floor Total		195.8		0	Btuh

Infiltration	Type	ACH	Volume	CFM=	Load	
	Natural	0.35	19720	115.3	2916	Btuh
	Mechanical			0	0	Btuh
	Infiltration Total			115	2916	Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load	
	8	X 300	+	1200	3600	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Pete Giebeig

Lake City, FL

Project Title:
4 bedroom St. Johns Model

Code Only
Professional Version
Climate: South

9/26/2005

Totals for Cooling	**Subtotal**	**16780**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**1678**	**Btuh**
	Total sensible gain	**18458**	**Btuh**
	Latent infiltration gain (for 44 gr. humidity difference)	**3449**	**Btuh**
	Latent occupant gain (8 people @ 230 Btuh per person)	**1840**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**23747**	**Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

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 24-4S-16-03114-118 **Building permit No.** 000023731

Use Classification SFD/UTILITY **Fire:** 35.52

Permit Holder JOHN D. NORRIS **Waste:** 73.50

Owner of Building PETE GIEBEIG **Total:** 109.02

Location: 179 SW ARROW BEND DRIVE(CANNON CREEK,LOT 18)

Date: 04/10/2006

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

BRITT SURVEYING
830 West Duval Street • Lake City, FL 32055
Phone (386) 752-7163 • Fax (386) 752-5573

Land Surveyors and Mappers

23731

11/14/05

L-16800

To Whom It May Concern:

C/o: Trent Giebeig

Re: Lot 18 Cannon Creek Place

The elevation of the proposed foundation is found to be 98.88 feet. The proposed floor elevation is shown to be 98.50 feet on the plat of record. The highest adjacent grade is 98.06 feet and the lowest adjacent grade is 97.60 feet. Elevations are based on NGVD29 datum.

L. Scott Britt
PLS #5757

Notice of Treatment 11714

Applicator: **Florida Pest Control & Chemical Co. (www.flapest .com)**
Address: BAYA Ave
City L.C. Phone 752 1103

Site Location: Subdivision Cannon Creek Place
Lot # 18 Block# ______ Permit # 23731
Address 179 SW Arrow Bend Dr

Product used	Active Ingredient	% Concentration
☐ Dursban TC	Chlorpyrifos	0.5%
☑ Termidor	Fipronil	0.06%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling	2951	237	230

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

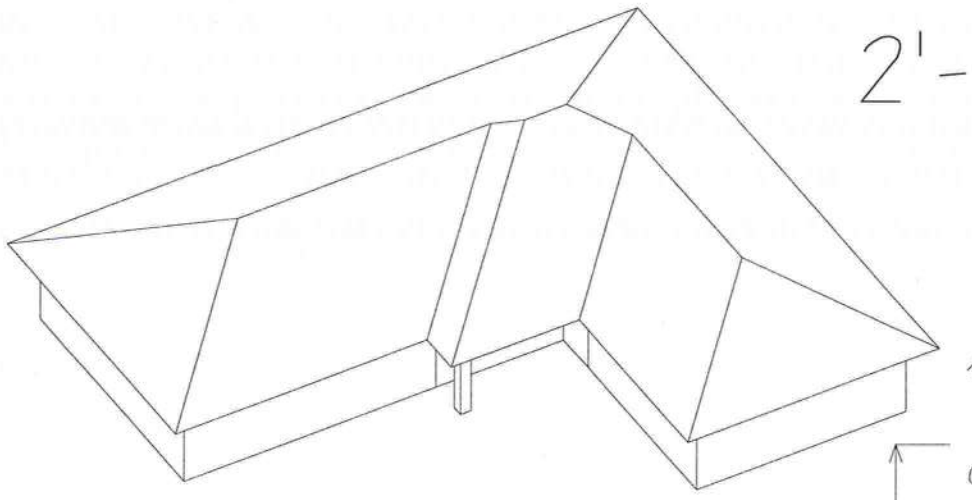
If this notice is for the final exterior treatment, initial this line ________.

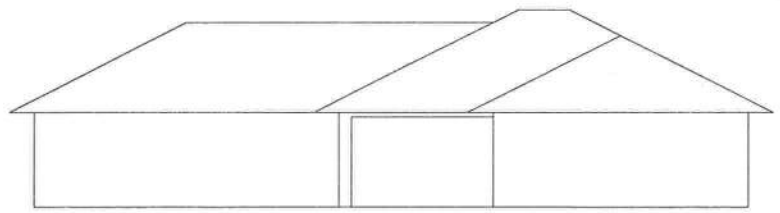
11-14-05 Date   0745 Time   F254 Gunny Print Technician's Name

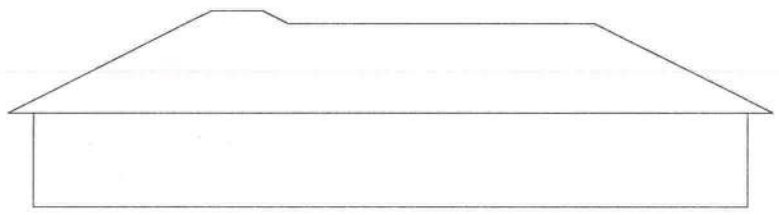
Remarks: ______________________

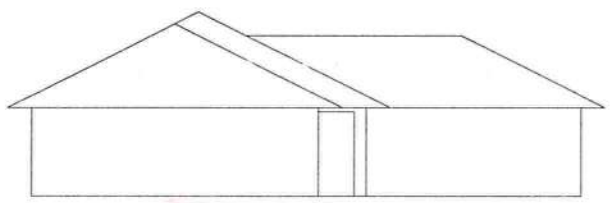
Applicator - White   Permit File - Canary   Permit Holder - Pink

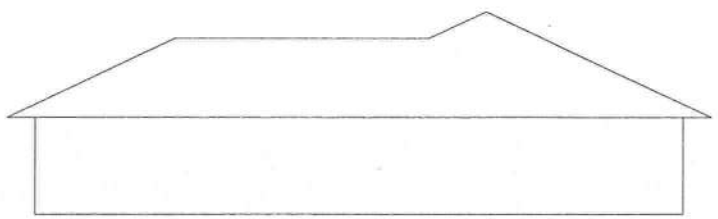
6/12 PITCH
2'-0" O/H

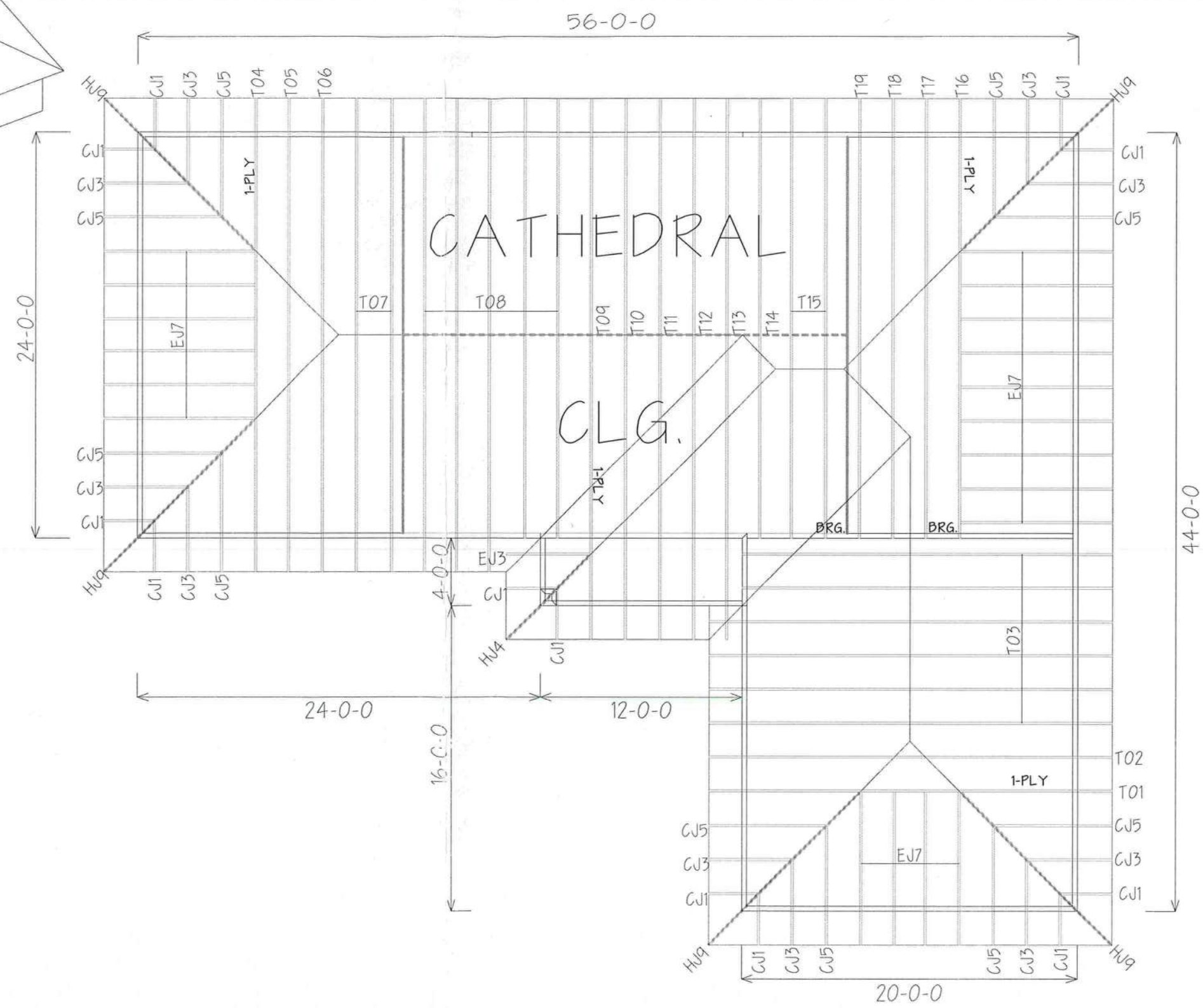












BEARING HEIGHT SCHEDUL

8'-0"

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BR REFER TO ENGINEERED DRAWINGS FOR PERMA BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HUS26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVA

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOU BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERI CONDITIONS TO INSURE AGAINST CHANGES THAT WILL R IN EXTRA CHARGES TO YOU.

Requested Delivery Date: _____

Approved by: _____ Date: _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-

Lake City
PHONE: 904-755-6894 FAX: 904-755

Sanford
PHONE: 407-322-0059 FAX: 407-322-

BUILDER: GIEBEIG HOMES

LEGAL ADDRESS: LOT 44 CANNON CRE

MODEL:	REVISION:
SUWANNEE	SCALE: N
DATE: 9-25-05	DRAWN BY: k.l.h.
JOB #: L1321	