

DATE 08/02/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000026084

APPLICANT PAMELA SMITH PHONE 754-9561
ADDRESS 377 SW MAULDIN AVE LAKE CITY FL 32024
OWNER LOUIS SCHWARTZ PHONE 305 542-9193
ADDRESS 253 NW MELANIE WAY LAKE CITY FL 32055
CONTRACTOR LOUIS SCHWARTZ PHONE 305 542-9193
LOCATION OF PROPERTY 41N, TL ON MOORE RD, TL ON MELANIE WAY, 4TH LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 72800.00
HEATED FLOOR AREA 1456.00 TOTAL AREA 2398.00 HEIGHT 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING A-3 MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 14-3S-16-02123-043 SUBDIVISION CHADWORTH
LOT 5 BLOCK PHASE UNIT TOTAL ACRES 1.08

Culvert Permit No. Culvert Waiver Contractor's License Number CBC1253816
EXISTING 07-562-N BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: SEC. 2.3.1 LEGAL NON-CONFORMING LOT OF RECORD, ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1031

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 \$ 365.00 CERTIFICATION FEE \$ 11.99 SURCHARGE FEE \$ 11.99
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 463.98
INSPECTORS OFFICE CLERKS OFFICE

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

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

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 INCONVENIENCE, 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.

Prepared by:
Marie Crawford
Provident Title & Mortgage, Inc.
444 SW Alachua Avenue
Lake City, Florida 32025

Inst:2007007271 Date:03/30/2007 Time:09:35

Doc Stamp-Deed : 385.00

DC, P. DeWitt Cason, Columbia County 3:1115 P:415

File Number: 07-056

General Warranty Deed

Made this March 29, 2007 A.D. By **Lenville Bullard Jr. and Denise Bullard**, husband and wife, 304 NE Gilbert Court, Lake City, Florida 32055, hereinafter called the grantor, to **Louis R. Schwartz**, a married man, whose post office address is: 9801 SW 121 Street, miami, Florida 33176, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 4, Block F: Commence at the NE corner of the NW ¼ of SE ¼, Section 14, Township 3 South, Range 16 East, Columbia County, Florida and run thence S 1°20'56" E along the East line of said NW ¼ of SE ¼, 473.50 feet to the Point of Beginning, thence continue S 1°20'56" E along said East line, 161.75 feet, thence S 89°30' W, 310.00 feet to the East line of Melanie Lane, thence N 1°20'56" W along the said East line, 161.75 feet, thence N 89°30' E, 310.00 feet to the Point of Beginning. Containing 1.08 acres, more or less.

Lot 5, Block F: Commence at the NE corner of the NW ¼ of SE ¼, Section 14, Township 3 South, Range 16 East, Columbia County, Florida and run thence S 1°20'56" E along the East line of said NW ¼ of SE ¼, 335.25 feet to the Point of Beginning, thence continue S 1°20'56" E along said East line, 161.75 feet, thence S 89°30' W, 310.00 feet to the East line of Melanie Lane, thence N 1°20'56" W along the said East line, 161.75 feet, thence N 89°30' E, 310.00 feet to the Point of Beginning. Containing 1.08 acres, more or less.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: 14-3S-16-02123-043

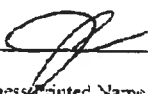
Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

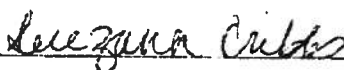
To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2006.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

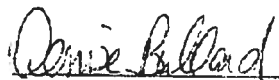
Signed, sealed and delivered in our presence:


Witness Printed Name Judi M. Lowrey


Witness Printed Name Suzanne Cribbs


Lenville Bullard Jr. (Seal)

Address: 304 NE Gilbert Court, Lake City, Florida 32055


Denise Bullard (Seal)

Address: 304 NE Gilbert Court, Lake City, Florida 32055

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 29th day of March, 2007, by Lenville Bullard Jr. and Denise Bullard, husband and wife, who is/are personally known to me or who has produced LSJ as identification.

NOTARY PUBLIC, STATE OF FLORIDA
MARIE CRAWFORD
COLUMBIA COUNTY, FLORIDA
MY COMMISSION EXPIRES 03/26/2010
PROVIDENT TITLE & MORTGAGE, INC.

No (and Public)
Print Name: Marie Crawford
My Commission Expires: March 26, 2010

DATE	08/02/2007				Columbia County Building Permit				PERMIT				
										This Permit Expires One Year From the Date of Issue			
APPLICANT		PAMELA SMITH				PHONE		754-9561					
ADDRESS		377		SW MAULDIN AVE		LAKE CITY		FL		32024			
OWNER		LOUIS SCHWARTZ				PHONE		305 542-9193					
ADDRESS		253		NW MELANIE WAY		LAKE CITY		FL		32055			
CONTRACTOR		LOUIS SCHWARTZ				PHONE		305 542-9193					
LOCATION OF PROPERTY		41N, TL ON MOORE RD, TL ON MELANIE WAY, 4TH LOT ON LEFT											
TYPE DEVELOPMENT		SFD,UTILITY				ESTIMATED COST OF CONSTRUCTION				72800.00			
HEATED FLOOR AREA		1456.00		TOTAL AREA		2398.00		HEIGHT		STORIES 1			
FOUNDATION		CONC		WALLS		FRAMED		ROOF PITCH		6/12 FLOOR SLAB			
LAND USE & ZONING		A-3				MAX. HEIGHT							
Minimum Set Back Requirments:		STREET-FRONT		30.00		REAR		25.00		SIDE 25.00			
NO. EX.D.U.		0		FLOOD ZONE		X		DEVELOPMENT PERMIT NO.					

PARCEL ID		14-3S-16-02123-043		SUBDIVISION		CHADWORTH					
LOT 5		BLOCK		PHASE		UNIT		TOTAL ACRES		1.08	

CBC1253816							
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor			
EXISTING	07-562-N	BK		JH Y			
Driveway Connection	Septic Tank Number	LU & Zoning checked by		Approved for Issuance New Resident			
COMMENTS: SEC. 2.3.1 LEGAL NON-CONFORMING LOT OF RECORD, ONE FOOT ABOVE THE ROAD, NOC ON FILE							
				Check # or Cash		1031	

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$	365.00	CERTIFICATION FEE \$	11.99	SURCHARGE FEE \$	11.99		
MISC. FEES \$	0.00	ZONING CERT. FEE \$	50.00	FIRE FEE \$	0.00	WASTE FEE \$	
FLOOD DEVELOPMENT FEE \$		FLOOD ZONE FEE \$	25.00	CULVERT FEE \$		TOTAL FEE	463.98
INSPECTORS OFFICE		CLERKS OFFICE					

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Columbia County Building Permit Application

For Office Use Only Application # 6707-39 Date Received 7/16/07 By G Permit # 26084
 Application Approved by - Zoning Official BZK Date 26.07.07 Plans Examiner OK JH Date 8-1-07
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Section 2.3.1 legal Abandonment of Lot of Record
☐ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☒ 1/4th of 107th ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit John or Pamela Smith Phone 386-754-9561 Fax Pam
 Address 377 SW Maublin Ave Lake City, FL. 32024 Cell 786-295-9296
 Owners Name Louis R. Schwartz Phone 305-542-9193
 911 Address 253 NW Melanie Way Lake City, FL 32055
 Contractors Name Catalina Caststone Creations Inc Phone 305-542-9193
 Address 9801 SW 121 Street Miami, FL. 33176
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address Hometown Homes - John Benz / D'Souza, E.G.
 Mortgage Lenders Name & Address _____

Circle the correct power company - FL Power & Light - City Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 145-16-02123-043 Estimated Cost of Construction \$120,000
 Subdivision Name Chadworth Lot 5 Block _____ Unit 1 Phase 1
 Driving Directions 41 North to Moore Rd. Turn left 1 1/2 miles to
Melanie Way Turn left 4th lot on left

Type of Construction Residential Number of Existing Dwellings on Property 0
 Total Acreage 1.08 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or None on Existing Driv.
 Actual Distance of Structure from Property Lines - Front 70' Side 50' Side 50' Rear 200'
 Total Building Height 16'-11" Number of Stories 1 Heated Floor Area 1456 Roof Pitch 6/12
 TOTAL 2394

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

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

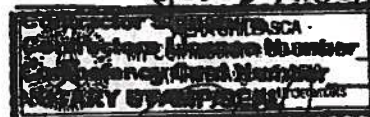
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Pamela J. Smith
 Owner/Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 2nd day of July 2007.
 Personally known ☒ or Produced Identification _____

Louis R. Schwartz
 Notary Signature
 (Revised Sept. 2006)



Louis R. Schwartz
Catalina Caststone Creations
Lake City Office
377 SW Mauldin Ave.
Lake City, FL 32024
License Number: 7001785

To Whom It May Concern:

This letter is to inform you that I give permission to John J. or Pamela T. Smith to authorize work done in my name at my property located at lot 4 & 5 on Melanie Way in Lake City, FL County of Columbia. Parcel Id #14-3S-16-02123-043. Mr Smith will be the site supervisor at this location and can be reached at 786.299.9638.

Signature of Affiant: _____

Louis R. Schwartz

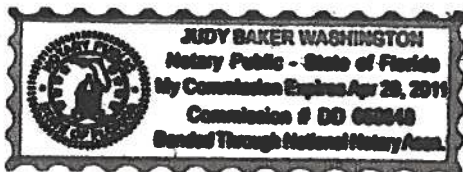
CERTIFICATE OF ACKNOWLEDGMENT OF NOTARY PUBLIC

Sworn to (or affirmed) and subscribed before me this 8th day of June, 2007

By Louis R. Schwartz. The affiant is ☒ personally known to me,

Or _____ produced the following identification: _____

Notary Seal:



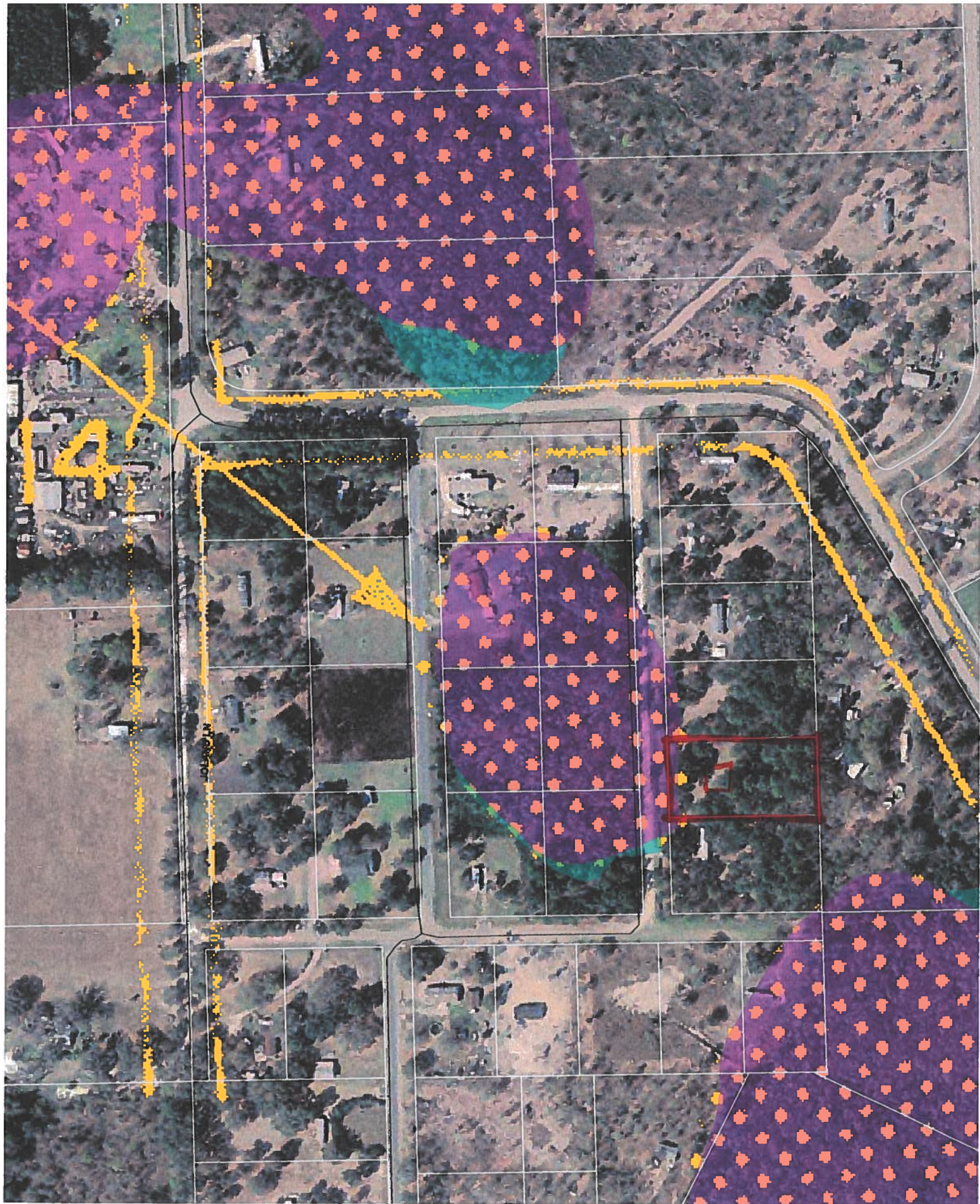
Judy Baker Washington

Signature of Notarial Officer

JUDY BAKER WASHINGTON

Notary Public for the State of Florida

My commission expires: _____



6707-39

10337

LOT 5, BLOCK F

POINT OF COMENCEMENT

N 01°20'56" W 473.50'

LOT 3

N 89°32'11" E 310.20' (S)
N 89°30'00" E 310.00' (D)

FCM 4"x4"
NO ID

POINT OF BEGINNING

VACANT LOT 4

161.34' (S)

161.92' (S)

POINT OF BEGINNING

310.09' (S)

VACANT LOT 5

161.75' (S)

S 01°18'32" E 323.66' (S)
S 01°20'56" E 323.50' (D)

FCM 4"x4"
NO ID

UNPLATTED LAND

S 01°20'56" E 323.50' (D)
REFERENCE BEARING
N 01°20'56" W 323.60' (S)
NW MELANIE WAY (60.00' R/W)

S 89°30'00" W 310.00' (D)
S 89°32'56" W 309.98' (S)

LOT 6

FCM 4"x4"
NO ID

161.85' (S)

(P) = PLAT
(S) = SURVEY MEASUREMENT
NOID = NO SURVEYORS IDENTIFICATION
LS = LAND SURVEYOR
LB = LICENSE BUSINESS
FCM = FOUND CONCRETE MONUMENT
SIR = SET IRON ROD
SCM = SET CONCRETE MONUMENT



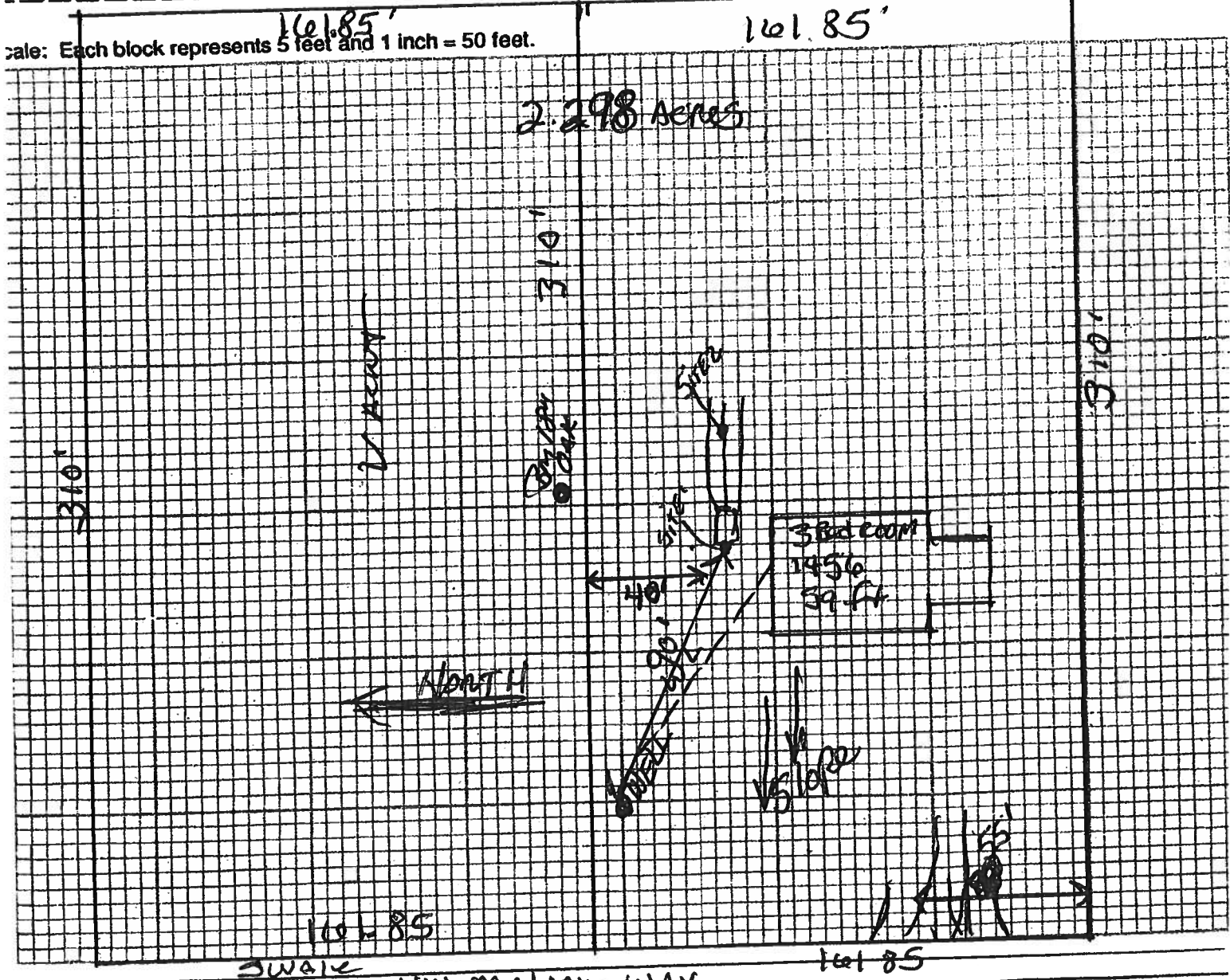
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-05621

Schwartz

PART II - SITE PLAN



Notes: _____

Lot 4 & 5

CHADWORTH'S SUBD.

Schwartz

Site Plan submitted by: Robert W. Juel Signature

Plan Approved ☒ Not Approved ☐ Date Agust Title

by M. P. L. Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

COLUMBIA COUNTY 9-1-1 ADDRESSING

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

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

Addressing Maintenance

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

DATE REQUESTED: 6/7/2007 DATE ISSUED: 6/8/2007

ENHANCED 9-1-1 ADDRESS:

253 NW MELANIE WAY

LAKE CITY FL 32055

PROPERTY APPRAISER PARCEL NUMBER:

14-3S-16-02123-043

Remarks:

LOT 5 BLOCK F CHADWORTH S/D UNREC

Address Issued By:



Columbia County 9-1-1 Addressing / GIS Department

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

Approved Address

JUN 08 2007

911Addressing/GIS Dept

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (386) 752-1854
FAX (386) 755-7022
804 NW MAIN BLVD.
LAKE CITY, FLORIDA 32055

January 23, 2007

Notice To All Contractors:

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results. All wells will have a pump & tank combination that will be sufficient enough for each situation.

If you have any questions please feel free to call our office.

Thank You ,

A handwritten signature in black ink, appearing to read 'Donald D. Hall'.

Donald D. Hall

Columbia County Property Appraiser

DB Last Updated: 5/11/2007

Parcel: 14-3S-16-02123-043**2007 Proposed Values**[Tax Record](#)[Property Card](#)[Interactive GIS Map](#)[Print](#)**Owner & Property Info**Search Result: 8
<< Prev of 11 Next >>

Owner's Name	SCHWARTZ LOUIS R		
Site Address			
Mailing Address	9801 SW 121 STREET MIAMI, FL 33176		
Use Desc. (code)	VACANT (000000)		
Neighborhood	14316.01	Tax District	3
UD Codes	MKTA03	Market Area	03
Total Land Area	2.298 ACRES		
Description	COMM NE COR OF NW1/4 OF SE1/4, RUN S 473.50 FT FOR POB, CONT S 323.50 FT, W 310 FT, N 323.5 FT, E 310 FT TO POB. (AKA LOT 4,& 5 BLOCK F CHADWORTH S/D UNREC) ORB 611-651, WD 1051-803. POA 1115-414. WD 1115-415.		

GIS Aerial**Property & Assessment Values**

Mkt Land Value	cnt: (1)	\$28,000.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$28,000.00

Just Value	\$28,000.00
Class Value	\$0.00
Assessed Value	\$28,000.00
Exempt Value	\$0.00
Total Taxable Value	\$28,000.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
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2006-07

**COLUMBIA COUNTY OCCUPATIONAL LICENSE
RONNIE BRANNON, TAX COLLECTOR**

LICENSE EXPIRES 09/30/2007

**LICENSE NUMBER:
7001785**

MACHINES ROOMS SEATS EMPLOYEES

BUSINESS TYPE: 000102

BUILDING CONTRACTOR
aid 1111 SDH
DATE 12/06/2006
3701529.0001 of 0001
RONNIE BRANNON TAX C

**CATALINA CASTSTONE CREATIONS
SCHWARTZ LOUIS R
9801 SW 121 STREET
MIAMI, FL 33176-0000**

**SUPPLEMENTAL
RENEWAL
X NEW LICENSE 18.00
TRANSFER**

**PENALTY 0.00
TOTAL 18.00**

**LOCATION 377 SW MAULDIN AVE
ADDRESS: LAKE CITY FL 32024-0000**

X _____
SIGN AND RETURN WITH PAYMENT
I SWEAR THAT THIS APPLICATION FOR LICENSE IS MADE FOR THE BUSINESS OR
PROFESSION INDICATED HEREON AND IS TRUE AND CORRECT.
THE APPLICATION MUST COMPLY WITH STATE AND LOCAL ORDINANCE INCLUDING ZONING.

0000001800 0000001800 0000000000003359 1001 7

AC# 2602644

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L06060100

DATE	BATCH NUMBER	LICENSE NBR
06/01/2006	058088240	CBC1253816

The BUILDING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2008

SCHWARTZ, LOUIS R.
CATALINA CASTSTONE CREATIONS INC
9801 SW 121 STREET
MIAMI

FL 33176

JEB BUSH
GOVERNOR

SIMONE MARSTILLER
SECRETARY

DISPLAY AS REQUIRED BY LAW



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

**CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0763**

(850) 487-1395

**CATALINA CASTSTONE CREATIONS INC
9801 SW 121 STREET
MIAMI FL 33176**

	STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION	AC# 3230661
QB45382	05/23/07	068190750
QUALIFIED BUSINESS ORGANIZATION CATALINA CASTSTONE CREATIONS INC		
(NOT A LICENSE TO PERFORM WORK. ALLOWS COMPANY TO DO BUSINESS IF IT HAS A LICENSED QUALIFIER.)		
IS QUALIFIED under the provisions of Ch. 489 FS. Expiration date: AUG 31, 2009		

DETACH HERE

#3230661

STATE OF FLORIDA

**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD**

SEQ# 107052300635

DATE	BATCH NUMBER	LICENSE NBR
05/23/2007	068190750	QB45382

The BUSINESS ORGANIZATION
Named below IS QUALIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2009
(THIS IS NOT A LICENSE TO PERFORM WORK. THIS ALLOWS
COMPANY TO DO BUSINESS ONLY IF IT HAS A QUALIFIER.)

**CATALINA CASTSTONE CREATIONS INC
9801 SW 121 STREET
MIAMI FL 33176**

**CHARLIE CRIST
GOVERNOR**

DISPLAY AS REQUIRED BY LAW

**HOLLY BENSON
SECRETARY**

Driving directions

Address – 253 nw Melanie Way

**Take north 41 to Moore Road, turn left. Drive approximately 2 miles
To Melanie Way, turn left. Property will be the 4th lot on left**

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: 706072Smith, John & Pam Address: 253 NW Meliane Way City, State: Lake City, FL Owner: Smith, John & Pam Residence Climate Zone: North	Builder: Louis Schwartz Permitting Office: Columbia Permit Number: 26084 Jurisdiction Number: 221000
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1. New construction or existing New ☐ 2. Single family or multi-family Single family ☐ 3. Number of units, if multi-family 1 ☐ 4. Number of Bedrooms 3 ☐ 5. Is this a worst case? Yes ☐ 6. Conditioned floor area (ft²) 1456 ft² ☐ 7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor: Description Area (or Single or Double DEFAULT) 7a. (Dble Default) 173.0 ft² ☐ b. SHGC: (or Clear or Tint DEFAULT) 7b. (Clear) 173.0 ft² ☐ 8. Floor types a. Slab-On-Grade Edge Insulation R=0.0, 160.0(p) ft ☐ b. N/A ☐ c. N/A ☐ 9. Wall types a. Frame, Wood, Exterior R=13.0, 875.0 ft² ☐ b. Frame, Wood, Adjacent R=13.0, 172.0 ft² ☐ c. N/A ☐ d. N/A ☐ e. N/A ☐ 10. Ceiling types a. Under Attic R=30.0, 1500.0 ft² ☐ b. N/A ☐ c. N/A ☐ 11. Ducts a. Sup: Unc. Ret: Unc. AH: Interior Sup. R=6.0, 130.0 ft ☐ b. N/A ☐	12. Cooling systems a. Central Unit Cap: 30.0 kBtu/hr SEER: 13.00 ☐ b. N/A ☐ c. N/A ☐ 13. Heating systems a. Electric Heat Pump Cap: 30.0 kBtu/hr HSPF: 7.90 ☐ b. N/A ☐ c. N/A ☐ 14. Hot water systems a. Electric Resistance Cap: 40.0 gallons EF: 0.93 ☐ b. N/A ☐ c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) ☐
---	--

Glass/Floor Area: 0.12

Total as-built points: 19847

Total base points: 22859

PASS

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

PREPARED BY: [Signature]
DATE: 6-11-07

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

OWNER/AGENT: _____
DATE: _____

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

BUILDING OFFICIAL: _____
DATE: _____



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

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: 253 NW Meliane Way, Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1456.0	20.04	5252.1	Double, Clear	W	1.5	6.5	18.0	38.52	0.93	642.9
				Double, Clear	W	1.5	3.5	18.0	38.52	0.78	539.9
				Double, Clear	W	6.0	5.5	20.0	38.52	0.51	391.9
				Double, Clear	W	6.0	3.5	9.0	38.52	0.42	146.9
				Double, Clear	E	6.0	6.5	72.0	42.06	0.54	1626.5
				Double, Clear	S	1.5	0.0	36.0	35.87	0.43	557.7
				As-Built Total:				173.0	3905.7		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	172.0	0.70	120.4	Frame, Wood, Exterior	13.0		875.0	1.50		1312.5	
Exterior	875.0	1.70	1487.5	Frame, Wood, Adjacent	13.0		172.0	0.60		103.2	
Base Total:				As-Built Total:				1047.0	1415.7		
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points				
Adjacent	20.0	1.60	32.0	Exterior Insulated			20.0	4.10		82.0	
Exterior	40.0	4.10	164.0	Exterior Insulated			20.0	4.10		82.0	
				Adjacent Insulated			20.0	1.60		32.0	
Base Total:				As-Built Total:				60.0	196.0		
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1456.0	1.73	2518.9	Under Attic	30.0		1500.0	1.73 X 1.00		2595.0	
Base Total:				As-Built Total:				1500.0	2595.0		
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	160.0(p)	-37.0	-5920.0	Slab-On-Grade Edge Insulation	0.0		160.0(p)	-41.20		-6592.0	
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				160.0	-6592.0		
INFILTRATION Area X BSPM = Points								Area X SPM = Points			
								1456.0	10.21 14865.8		

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: 253 NW Meliane Way, Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 18520.6				Summer As-Built Points: 16386.2						
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
18520.6		0.4266	7900.9	(sys 1: Central Unit 30000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 16386	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	4894.4	
				16386.2	1.00	1.138	0.263	1.000	4894.4	

Residential Whole Building Performance Method A - Details

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC Overhang Ornt Len Hgt Area X WPM X WOF = Points							
.18	1456.0	12.74	3338.9	Double, Clear	W	1.5	6.5	18.0	20.73	1.02	380.5
				Double, Clear	W	1.5	3.5	18.0	20.73	1.07	397.9
				Double, Clear	W	6.0	5.5	20.0	20.73	1.18	487.8
				Double, Clear	W	6.0	3.5	9.0	20.73	1.22	226.8
				Double, Clear	E	6.0	6.5	72.0	18.79	1.26	1711.2
				Double, Clear	S	1.5	0.0	36.0	13.30	3.66	1752.1
				As-Built Total: 173.0 4956.2							
WALL TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Adjacent	172.0	3.60	619.2	Frame, Wood, Exterior			13.0	875.0	3.40		2975.0
Exterior	875.0	3.70	3237.5	Frame, Wood, Adjacent			13.0	172.0	3.30		567.6
Base Total: 1047.0 3856.7				As-Built Total: 1047.0 3542.6							
DOOR TYPES Area X BWPM = Points				Type Area X WPM = Points							
Adjacent	20.0	8.00	160.0	Exterior Insulated				20.0	8.40		168.0
Exterior	40.0	8.40	336.0	Exterior Insulated				20.0	8.40		168.0
				Adjacent Insulated				20.0	8.00		160.0
Base Total: 60.0 496.0				As-Built Total: 60.0 496.0							
CEILING TYPESArea X BWPM = Points				Type R-Value Area X WPM X WCM = Points							
Under Attic	1456.0	2.05	2984.8	Under Attic			30.0	1500.0	2.05 X 1.00		3075.0
Base Total: 1456.0 2984.8				As-Built Total: 1500.0 3075.0							
FLOOR TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Slab	160.0(p)	8.9	1424.0	Slab-On-Grade Edge Insulation			0.0	160.0(p)	18.80		3008.0
Raised	0.0	0.00	0.0								
Base Total: 1424.0				As-Built Total: 160.0 3008.0							
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
	1456.0	-0.59	-859.0					1456.0	-0.59		-859.0

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: 253 NW Meliane Way, Lake City, FL,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 11241.4				Winter As-Built Points: 14218.8									
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
11241.4		0.6274	7052.8	(sys 1: Electric Heat Pump 30000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 14218.8 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 7132.9 14218.8 1.00 1.162 0.432 1.000 7132.9									

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 253 NW Meliane Way, Lake City, FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING					Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit = Total Multiplier
Number of Bedrooms	X	Multiplier	=	Total						
3		2635.00		7905.0	40.0	0.93	3		1.00	2606.67
					As-Built Total:					7820.0

CODE COMPLIANCE STATUS											
BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
7901		7053		7905	22859	4894		7133		7820	19847

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 253 NW Meliane Way, 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 612.1.ABC.3.2. 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* = 85.8

The higher the score, the more efficient the home.

Smith, John & Pam Residence, 253 NW Meliane Way, Lake City, FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 30.0 kBtu/hr ___ SEER: 13.00 ___
3. Number of units, if multi-family	1	___	b. N/A	___
4. Number of Bedrooms	3	___	c. N/A	___
5. Is this a worst case?	Yes	___		
6. Conditioned floor area (ft ²)	1456 ft ²	___	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)			a. Electric Heat Pump	Cap: 30.0 kBtu/hr ___ HSPF: 7.90 ___
a. U-factor:	Description Area		b. N/A	___
(or Single or Double DEFAULT)	7a. (Dble Default) 173.0 ft ²	___	c. N/A	___
b. SHGC:				
(or Clear or Tint DEFAULT)	7b. (Clear) 173.0 ft ²	___	14. Hot water systems	
8. Floor types			a. Electric Resistance	Cap: 40.0 gallons ___ EF: 0.93 ___
a. Slab-On-Grade Edge Insulation	R=0.0, 160.0(p) ft	___	b. N/A	___
b. N/A		___	c. Conservation credits	___
c. N/A		___	(HR-Heat recovery, Solar	
9. Wall types			DHP-Dedicated heat pump)	
a. Frame, Wood, Exterior	R=13.0, 875.0 ft ²	___	15. HVAC credits	
b. Frame, Wood, Adjacent	R=13.0, 172.0 ft ²	___	(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		___	HF-Whole house fan,	
d. N/A		___	PT-Programmable Thermostat,	
e. N/A		___	MZ-C-Multizone cooling,	
10. Ceiling types			MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 1500.0 ft ²	___		
b. N/A		___		
c. N/A		___		
11. Ducts				
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft	___		
b. N/A		___		

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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

26084

Permit Number: 000026084

Tax Folio Number: 14-3S-16-02123-043

State of: Florida
County of: Columbia

File Number: 07-056CL

NOTICE OF COMMENCEMENT

Inst: 200712023641 Date: 10/22/2007 Time: 10:44 AM
✓ DC, P. DeWitt Cason, Columbia County Page 1 of 1

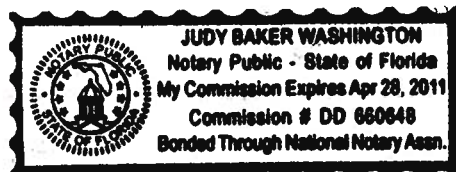
The undersigned hereby gives notice that improvement will be made to certain real property, and, in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

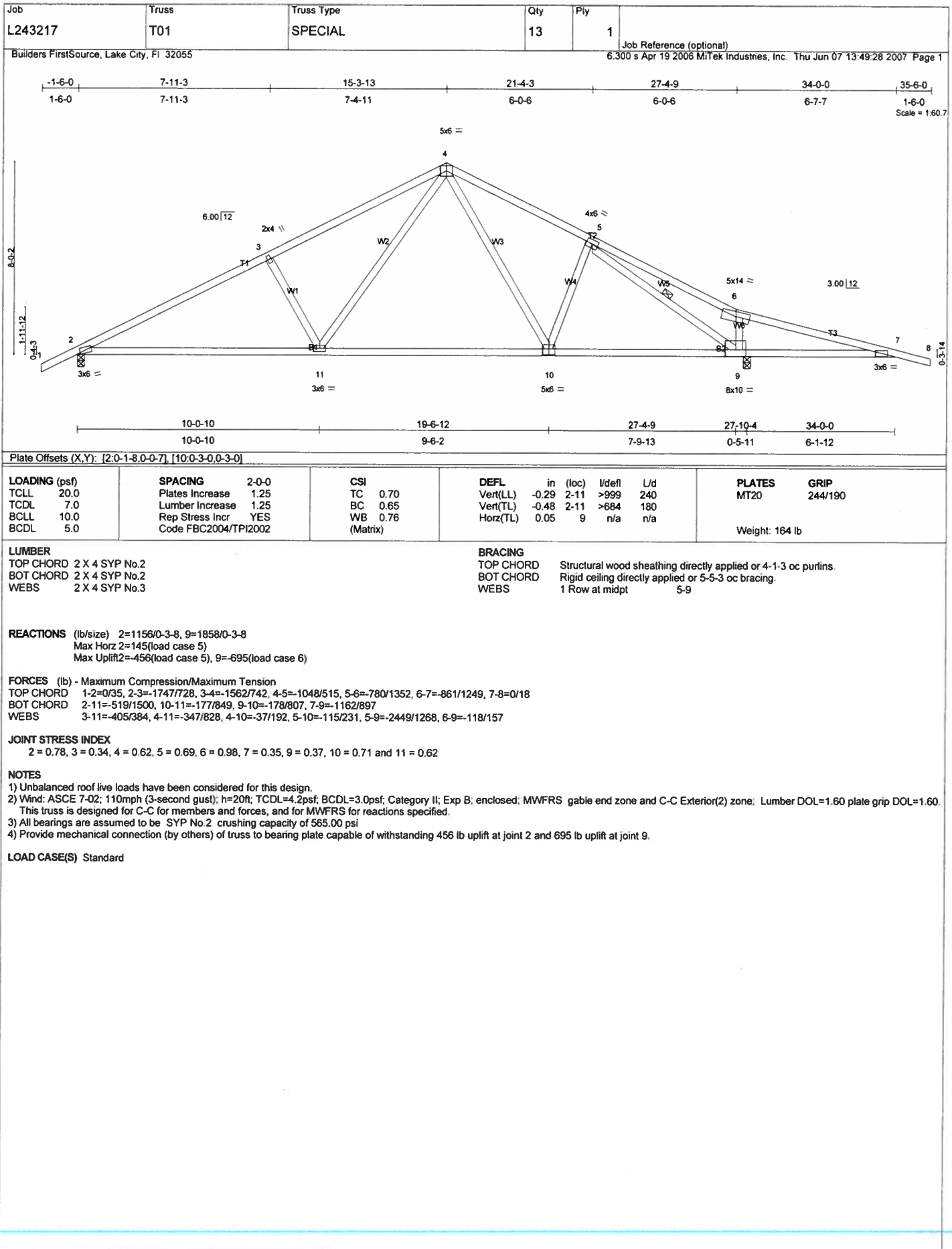
1. **Description of Property:**
Lot 5, Block F, Commence at the NE corner of the NW 1/4 of the SE 1/4, Section 14, Township 3 South, Range 16 East, Columbia County, Florida and run thence South 1 degree 20'56" E along the East line of said NW 1/4 of the SE 1/4, 635.25 feet to the Point of Beginning, thence continue South 1 degree 20'56" E along said East line, 161.75 feet, thence South 89 degrees 30' W, 310.00 feet to the East line of Melanie Lane, thence North 1 degree 20'56" W along the said East line, 161.75 feet, thence North 89 degrees 30' E, 310.00 feet to the Point of Beginning.
2. **General Description of Improvements:** new construction
3. **Owner Information:**
 - a. **Name and Address:** Louis R. Schwartz, 377 SW Mauldin Avenue, Lake City, FL 32024
 - b. **Interest in property:** Fee Simple
 - c. **Names and address of fee simple title holder (if other than owner):**
4. **Contractor:** Catalina Caststone Creations, Inc.
5. **Surety:** n/a
6. **Lender:** Ocala National Bank, ISAOA/ATMA
112 N. Magnolia Avenue, Ocala, Florida 34475
7. **Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.** John Smith
8. **In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.** John Smith
9. **Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified):** October 2, 2008

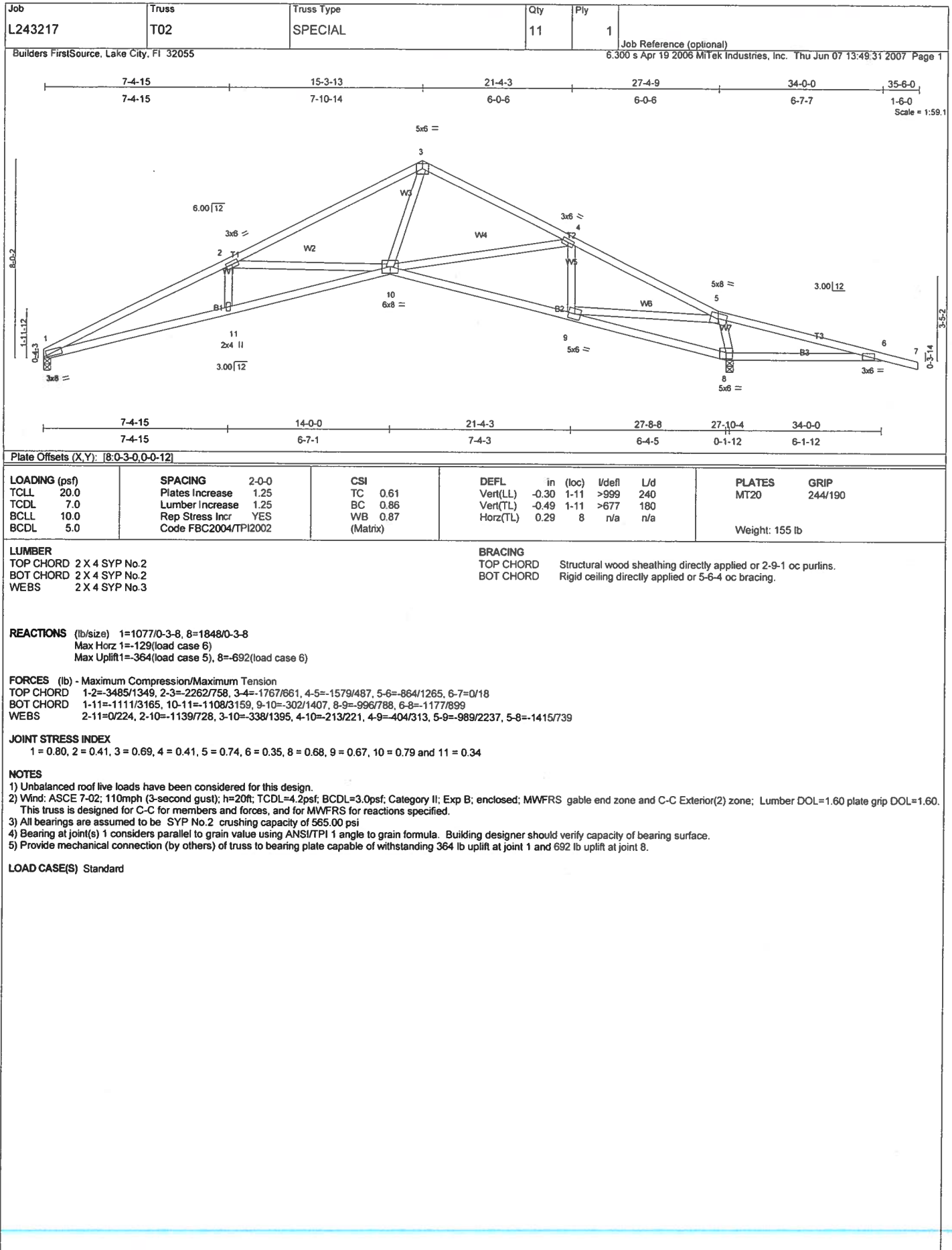
Louis R. Schwartz
Louis R. Schwartz

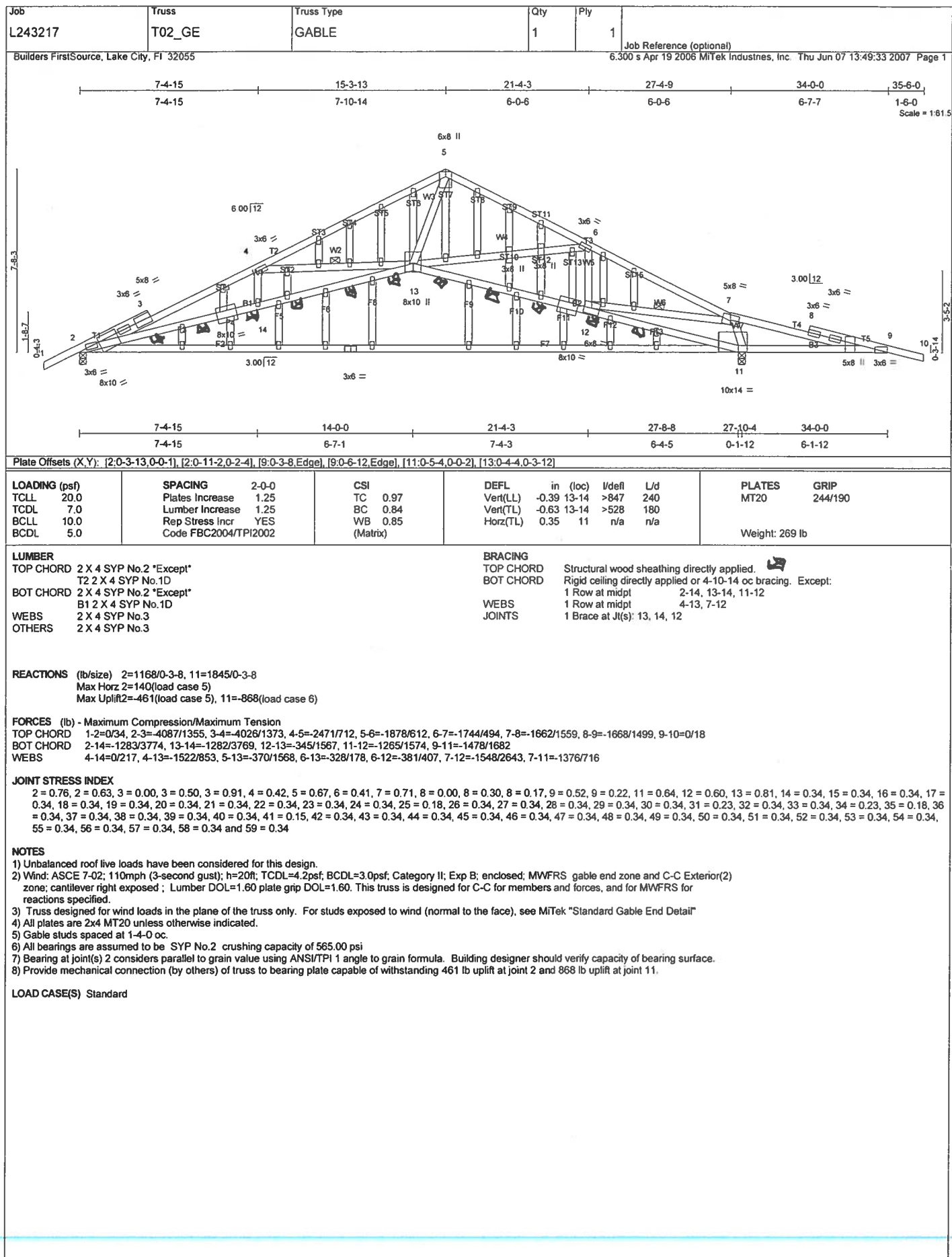
Sworn to and subscribed before me October 11, 2007 by who is personally known to me or who did provide properly known identification.

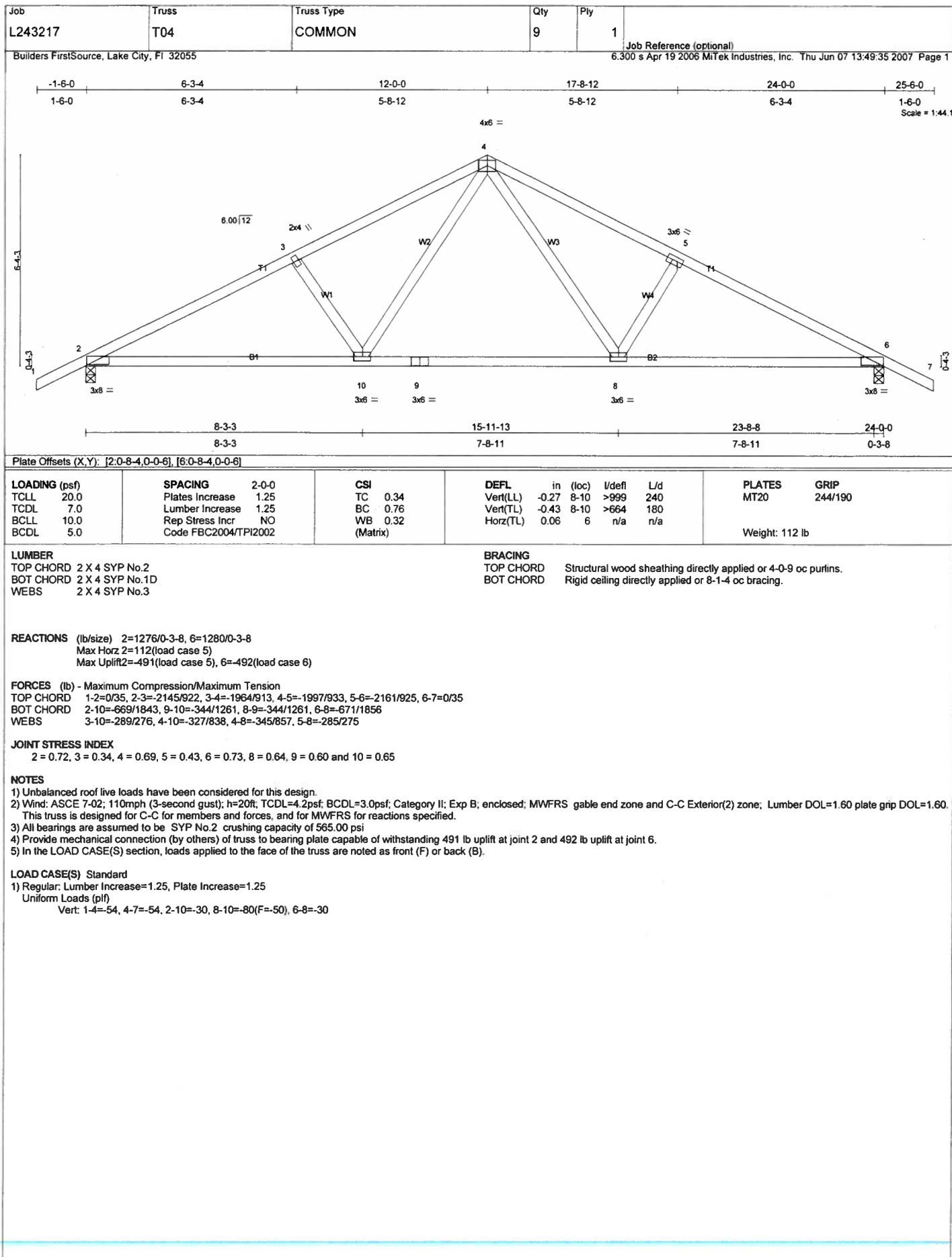
Judy Baker Washington
Notary Public JUDY BAKER WASHINGTON
My Commission Expires: _____

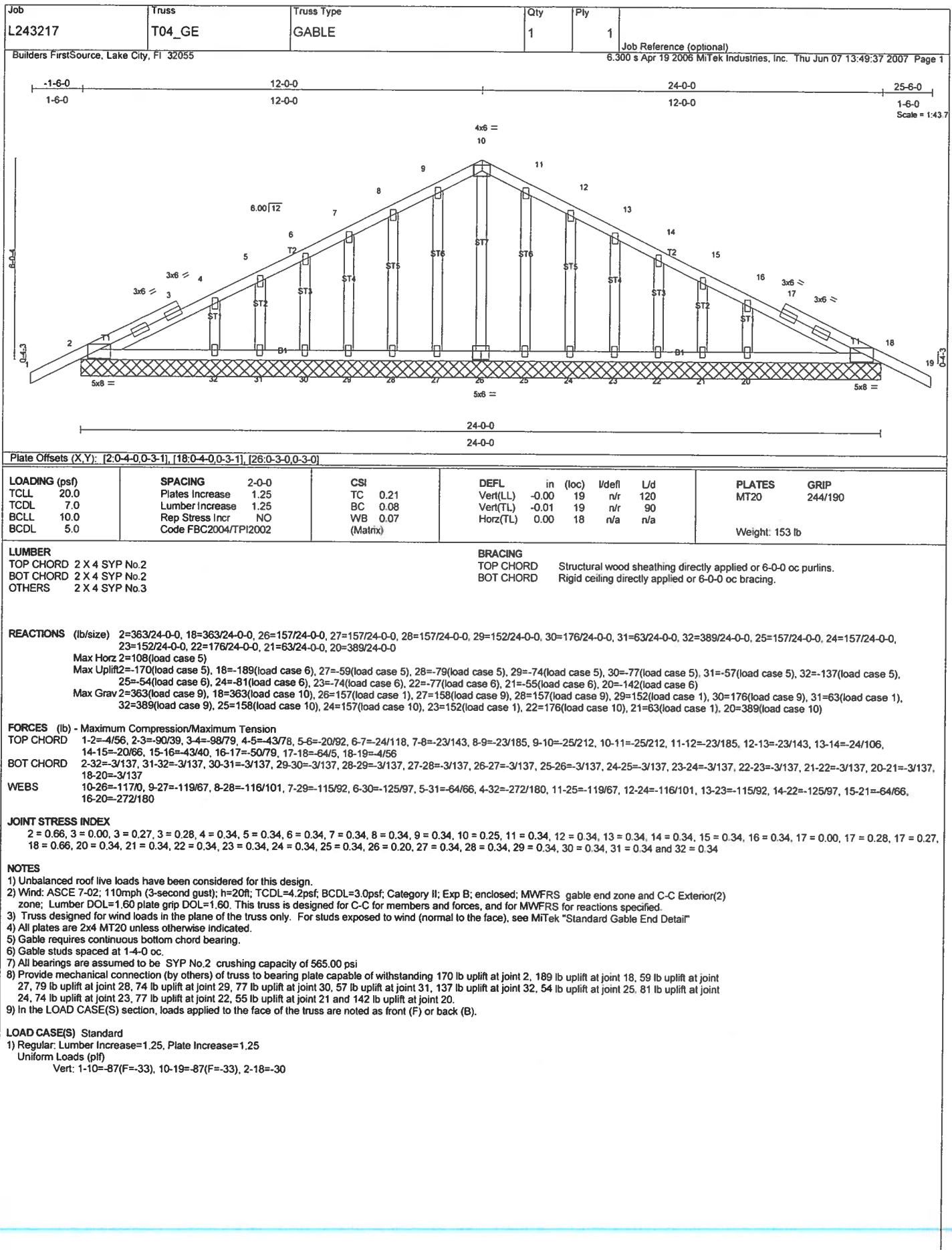


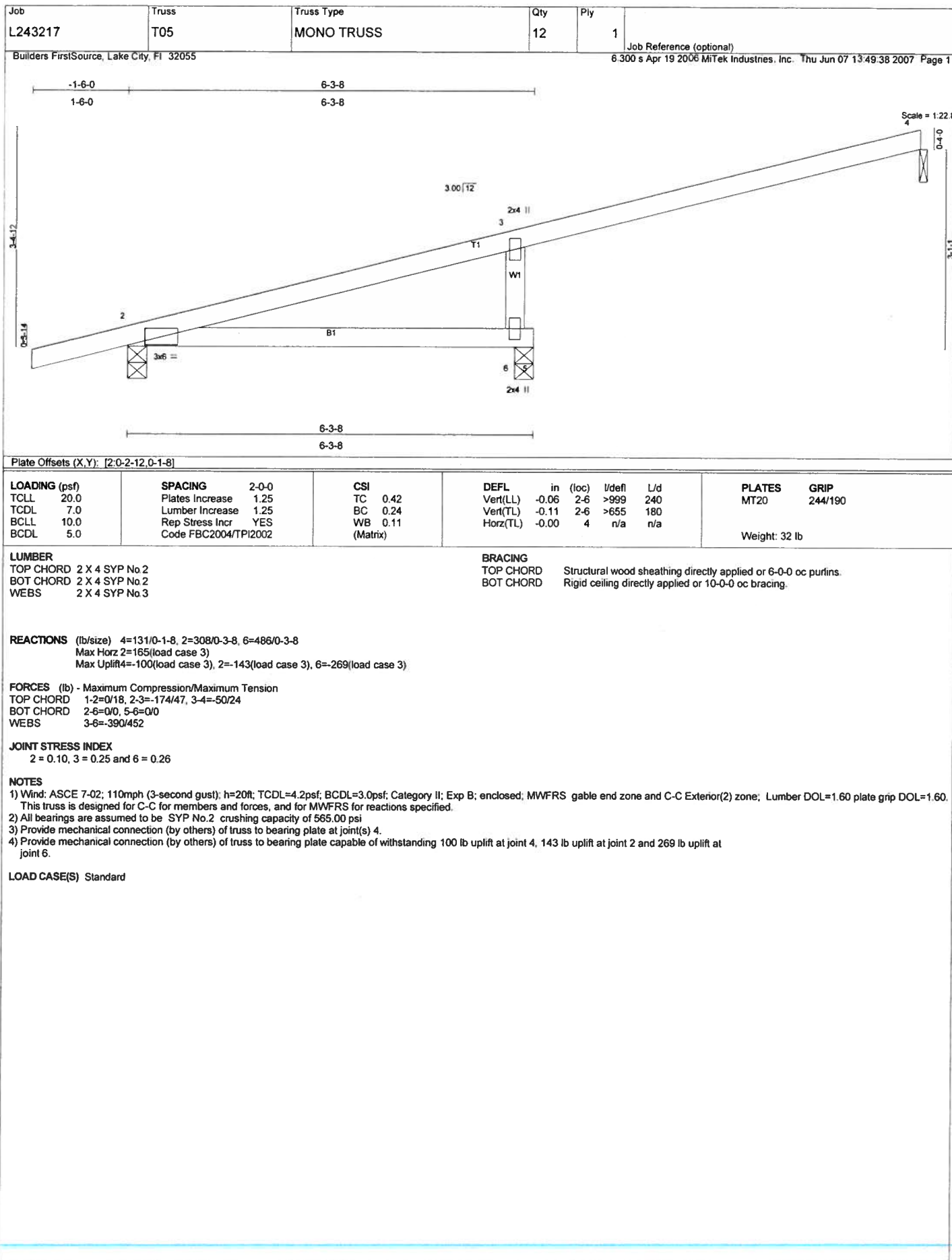










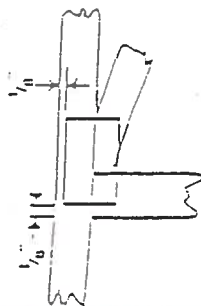


Symbols

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 flange and vertical web.



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

PLATE SIZE

4 X 4

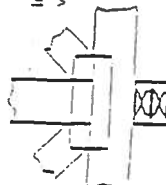
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



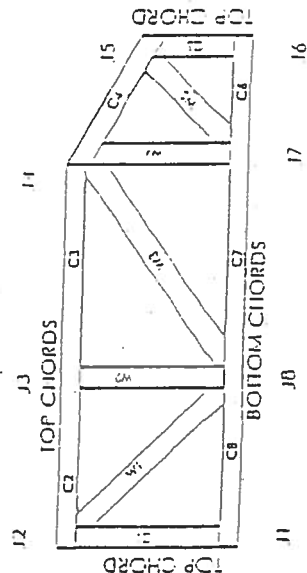
Indicates location of required continuous lateral bracing.

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
SACCI	9667, 9432A
VISC/DIHR	960022-W, 970036-11
HER	561



Mitek Engineering Reference Sheet: H11-7473

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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 luss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/2 panel length, (1' 8" 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 luss 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 lusses are the responsibility of others unless shown.
13. Do not overload roof or floor lusses with stacks of construction materials.
14. Do not cut or alter luss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of lusses.



**NOTICE OF INSPECTION
AND/OR TREATMENT**

* 26084

Date of Inspection

10/31/07

Date of Treatment

Date of Spot Treatment

Premise Pro

Pesticide Used

subterranean Termites

Wood-Destroying Organisms Treated

****Notice****

It is a violation of Florida State Law (Chap. 482.226) for anyone other than the property owner to remove this notice.

Address:

Pestmaster Services of Lake City

879 S.W. Arlington Blvd., Suite 106 • Lake City, FL 32025

1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other

Residential System Sizing Calculation

Summary

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

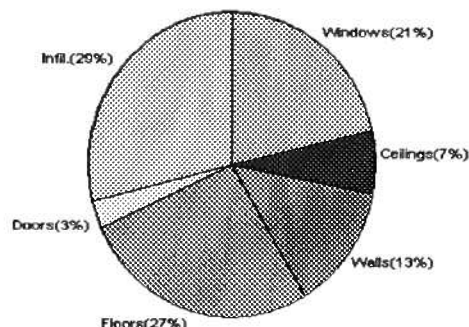
6/11/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	25929 Btuh	Total cooling load calculation	20014 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.7 30000	Sensible (SHR = 0.75)	146.7 22500
Heat Pump + Auxiliary(0.0kW)	115.7 30000	Latent	160.4 7500
		Total (Electric Heat Pump)	149.9 30000

WINTER CALCULATIONS

Winter Heating Load (for 1456 sqft)

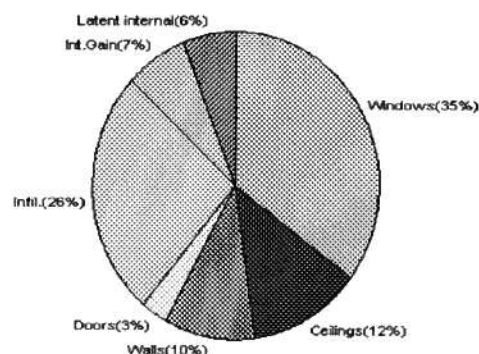
Load component	Load
Window total 173 sqft	5569 Btuh
Wall total 1047 sqft	3438 Btuh
Door total 60 sqft	777 Btuh
Ceiling total 1500 sqft	1768 Btuh
Floor total 160 sqft	6986 Btuh
Infiltration 182 cfm	7392 Btuh
Duct loss	0 Btuh
Subtotal	25929 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	25929 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1456 sqft)

Load component	Load
Window total 173 sqft	7030 Btuh
Wall total 1047 sqft	2085 Btuh
Door total 60 sqft	588 Btuh
Ceiling total 1500 sqft	2484 Btuh
Floor total	0 Btuh
Infiltration 95 cfm	1770 Btuh
Internal gain	1380 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	15337 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	3476 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
Total latent gain	4676 Btuh
TOTAL HEAT GAIN	20014 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 6-11-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/11/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
2	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
5	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
6	2, Clear, Metal, 0.87	SW	36.0		32.2	1159 Btuh
Window Total			173(sqft)			5569 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	875		3.3	2874 Btuh
2	Frame - Wood - Adj(0.09)	13.0	172		3.3	565 Btuh
Wall Total			1047			3438 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1500		1.2	1768 Btuh
Ceiling Total			1500			1768Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	160.0	ft(p)	43.7	6986 Btuh
Floor Total			160			6986 Btuh
Zone Envelope Subtotal:						18537 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	11648	182.5		7392 Btuh
Ductload	, R6.0, Supply(), Return() (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					25929 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	25929 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25929 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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)

For Florida residences only



System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

6/11/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
2	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
5	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
6	2, Clear, Metal, 0.87	SW	36.0		32.2	1159 Btuh
Window Total			173(sqft)			5569 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	875		3.3	2874 Btuh
2	Frame - Wood - Adj(0.09)	13.0	172		3.3	565 Btuh
Wall Total			1047			3438 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1500		1.2	1768 Btuh
Ceiling Total			1500			1768Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	160.0	ft(p)	43.7	6986 Btuh
Floor Total			160			6986 Btuh
Zone Envelope Subtotal:						18537 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	11648	182.5		7392 Btuh
Ductload	, R6.0, Supply(), Return() (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					25929 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	25929 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25929 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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)

For Florida residences only



System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

6/11/2007

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	NW	6ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	NW	6ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
5	2, Clear, 0.87, None,N,N	SE	6ft.	6.5ft.	72.0	72.0	0.0	29	63	2085	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043	Btuh
	Window Total				173 (sqft)					7030 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			875.0			2.1		1825 Btuh	
2	Frame - Wood - Adj	13.0/0.09			172.0			1.5		260 Btuh	
	Wall Total			1047 (sqft)					2085 Btuh		
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
	Door Total			60 (sqft)					588 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1500.0			1.7		2484 Btuh	
	Ceiling Total			1500 (sqft)					2484 Btuh		
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			160 (ft(p))			0.0		0 Btuh	
	Floor Total			160.0 (sqft)					0 Btuh		
	Zone Envelope Subtotal:									12187 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			11648			95.1		1770 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	, R6.0, Supply(), Return()							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									15337 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

6/11/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	15337 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	15337 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	15337 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3476 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4676 Btuh
	TOTAL GAIN	20014 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

6/11/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	NW	6ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	NW	6ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
5	2, Clear, 0.87, None,N,N	SE	6ft.	6.5ft.	72.0	72.0	0.0	29	63	2085	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043	Btuh
Window Total					173 (sqft)					7030 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			875.0		2.1		1825 Btuh		
2	Frame - Wood - Adj	13.0/0.09			172.0		1.5		260 Btuh		
Wall Total						1047 (sqft)				2085 Btuh	
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				20.0		9.8		196 Btuh		
2	Insulated - Exterior				20.0		9.8		196 Btuh		
3	Insulated - Exterior				20.0		9.8		196 Btuh		
Door Total						60 (sqft)				588 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			1500.0		1.7		2484 Btuh		
Ceiling Total						1500 (sqft)				2484 Btuh	
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			160 (ft(p))		0.0		0 Btuh		
Floor Total						160.0 (sqft)				0 Btuh	
	Zone Envelope Subtotal:									12187 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load		
	SensibleNatural	0.49			11648		95.1		1770 Btuh		
Internal gain		Occupants			Btuh/occupant		Appliance		Load		
		6			X 230 +		0		1380 Btuh		
Duct load	, R6.0, Supply(), Return()									DGM = 0.00	
	Sensible Zone Load									15337 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

6/11/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	15337 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	15337 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	15337 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3476 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4676 Btuh
	TOTAL GAIN	20014 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

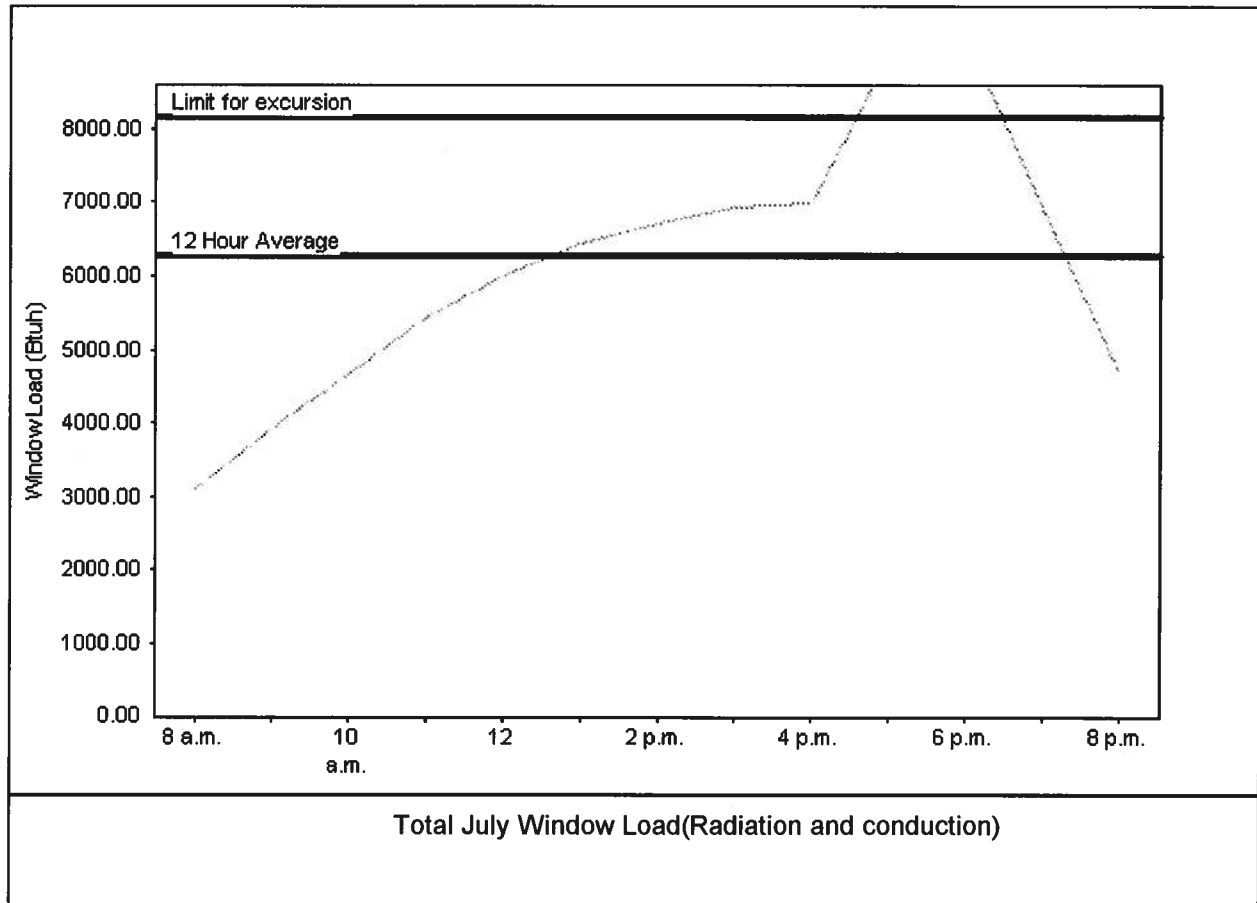
Class 3 Rating
Registration No. 0
Climate: North

6/11/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	6274 Btuh
Summer setpoint	75 F	Peak window load for July	9167 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	8156 Btuh
Latitude	29 North	Window excursion (July)	1011 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *6-11-07*

EnergyGauge® FLR2PB v4.1





**ANSI/AAMA/NWWDA 101/LS.2-97
TEST REPORT**

Rendered to:

MI WINDOWS AND DOORS, INC

**SERIES/MODEL: 420/430/440
PRODUCT TYPE: Aluminum Sliding Glass Door**

Title	Summary of Results		
	Test Specimen #1	Test Specimen #2	Test Specimen #3
Rating	SGD-R25 182 x 96	SGD-R35 182 x 80	SGD-R40 144 x 96
Operating Force	17 lbf max.	17 lbf max.	N/A
Air Infiltration	0.23 cfm/ft ²	0.27 cfm/ft ²	N/A
Water Resistance Test Pressure	3.75/6.0/9.0 psf	6.0 psf	N/A
Uniform Load Deflection Test Pressure	±35.0 psf	±35.0 psf	+40.0 psf/-40.1 psf
Uniform Load Structural Test Pressure	±37.5 psf	±52.5 psf	+60.0 psf/-60.2 psf
Forced Entry Resistance	Grade 10	Grade 10	N/A

Reference should be made to ATI Report No. 52112.01-122-47 for complete test specimen description and data.



ANSI/AAMA/NWWDA 101/LS.2-97 TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.: 52112.01-122-47
Revision 2: 09/14/05
Test Dates: 06/30/04
Through: 08/12/04
Report Date: 08/30/04
Expiration Date: 07/02/08

Project Summary: Architectural Testing, Inc. (ATT) was contracted by MI Windows and Doors, Inc. to witness testing on three Series/Model 420/430/440, aluminum sliding glass doors at MI Windows and Doors, Inc. test facility in Elizabethtown, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: SGD-R25 182 x 96; Test Specimen #2: SGD-R35 182 x 80; Test Specimen #3: SGD-R40 144 x 96. Test specimen description and results are reported herein.

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

Test Specimen Description:

Series/Model: 420/430/440

Product Type: Aluminum Sliding Glass Door

Test Specimen #1: SGD-R25 182 x 96 (XXO)

Overall Size: 15' 1-3/4" wide by 8' 0" high

Active Door Panel Size (2): 5' 0-1/2" wide by 7' 11" high

Fixed Door Panel Size: 5' 1" wide by 7' 11" high

Screen Size: 5' 0-3/8" wide by 7' 11" high

Overall Area: 121.2 ft²

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520).

Test Specimen Description: (Continued)

Test Specimen #2: SGD-R35 182 x 80 (OXX)

Overall Size: 15' 1-3/4" wide by 6' 8" high

Active Door Panel Size (2): 5' 0-1/2" wide by 6' 7" high

Fixed Door Panel Size: 4' 8-7/8" wide by 6' 2-5/8" high

Screen Size: 5' 0-3/8" wide by 6' 7" high

Overall Area: 101 ft²

Reinforcement: No reinforcement was utilized.

Test Specimen #3: SGD-R40 144 x 96 (OXO)

Overall Size: 12' 0" wide by 8' 0" high

Active Door Panel Size: 3' 8-1/4" wide by 7' 10-1/2" high

Fixed Door Panel Size (2): 3' 8-3/4" wide by 7' 6-1/2" high

Screen Size: 3' 11-1/2" wide by 7' 11-3/8" high

Overall Area: 96 ft²

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520). The interlock utilized an aluminum reinforcement (Drawing #SECT4237).

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: All glazing consisted of a single sheet of 3/16" thick clear tempered glass that was channel glazed with a wrap around rubber gasket.

Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.187" backed by 0.270" high polypile with center fin	2 Rows	Stiles
1/2" wide by 1" long polypile dust plug	2 Pieces	Corner of head, jamb, and top and bottom of panel retainer
0.187" backed by 0.250" high polypile with center fin	2 Rows	Top rail
0.187" backed by 0.350" high polypile with center fin	2 Rows	Bottom rail
0.187" backed by 0.230" high polypile with center fin	1 Row	Panel interlock, screen stiles

Frame Construction: The frame was constructed of extruded aluminum. Corners were coped, butted, sealed, and fastened with two #8 x 5/8" screws. An aluminum panel adaptor was added to the screen adaptor and secured with #6 x 3/8" pan head screws located 3-1/2" from the ends and 14" on center through the screen adaptor into the panel adaptor. The jambs utilized a panel jamb retainer on the fixed panels secured to the jambs with two #6 x 1/2" screws through the retainer into the jambs. The panels were placed in the retainer and secured to the frame with two #8 x 1/2" screws located through the retainers into the panels. Three panel jamb retainers were utilized to secure the fixed panels, located at panel top and bottom and one midspan. The fixed panels also utilized an aluminum sill retainer clip located at the sill. The sill utilized an optional aluminum sill extender.

Door Panel Construction: The door panels were constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw at the bottom and two #8 x 3/4" screws at the top.

Screen Construction: The screen was constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw and one #8 x 1" screw at the bottom and one #8 x 1" screw at the top.

Test Specimen Description: (Continued)

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Locking handle	1	44" from active panel bottom
Roller assembly	2	3" from bottom rail ends
Screen locking handle	1	46" from screen bottom rail
Screen rollers	2	Corners of bottom rail

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Sloped sill	1	Sill
1/2" long drain off notches	6	Ends of vertical sill legs

Installation: The units were installed into a #2 Spruce-Pine-Fir wood test buck. The units were fastened to the test buck with two rows of #8 x 1-1/4" screws, 8" from each end and 23" on center. The exterior perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #1: SGD-R25 182 x 96 (XXO)</u>			
2.2.1.6.1	Operating Force Breakaway force	17 lbf 24 lbf	20 lbf max. 30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.23 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting rail) (Loads were held for 52 seconds) 15.0 psf (positive) 15.0 psf (negative)	0.56" 0.57"	See Note #2 See Note #2
<i>Note #2: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.</i>			
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) 22.5 psf (positive) 22.5 psf (negative)	0.02" 0.03"	0.30" max. 0.30" max.
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs Locking stile Interlock stile	0.12"/24% 0.12"/24%	0.50"/100% 0.50"/100%

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)</u>			
2.2.1.6.2	Deglazing Test per ASTM E 987 In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 (with and without screen) 3.75 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with 2-5/8" Dade County sill extension) 9.0 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 10 seconds)		
	35.0 psf (positive)	2.98"	See Note #2
	35.0 psf (negative)	2.52"	See Note #2

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
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)		
	37.5 psf (positive)	0.20"	0.36" max.
	37.5 psf (negative)	0.19"	0.36" max.
Test Specimen #2: SGD-R35 182 x 80 (OXX)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	21 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.27 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceed) the performance levels specified in ANSI/AAMA/NWDA 101/LS-2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 (with and without screen)		
	2.86 psf	No leakage	No leakage
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #2: SGD-R35 182 x 80 (OXX) (Continued)</u>			
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 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) 35.0 psf (positive) 35.0 psf (negative)	1.28" 1.33"	See Note #2 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) 52.5 psf (positive) 52.5 psf (negative)	0.13" 0.15"	0.30" max. 0.30" max.

Test Specimen #3: SGD-R40 144 x 96 (OXO)

Optional Performance

4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds) 40.0 psf (positive) 40.1 psf (negative)	1.42" 1.28"	See Note #2 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) 60.0 psf (positive) 60.2 psf (negative)	0.27" 0.30"	0.37" max. 0.37" max.



52112.01-122-47
Page 9 of 10
Revision 2: 09/14/05

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, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Mark A. Hess

Mark A. Hess
Technician

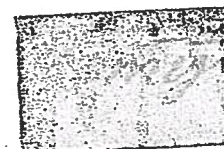
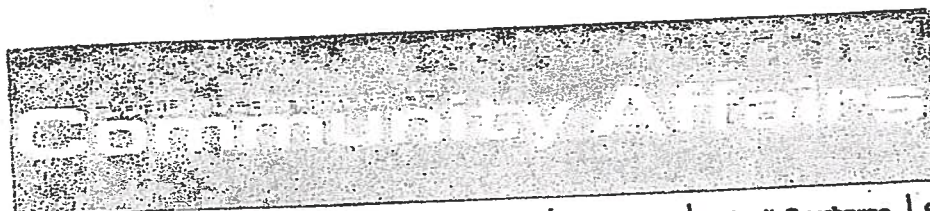
Digitally Signed by: Steven M. Urich

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

MH:vlm

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	08/30/04	N/A	Original report issue
1	09/13/04	Cover page	Switch Specimens 1 and 2 / Added 430/440 to Series/Model
1	09/13/04	Page 1 and 2	Switch Specimen 1 and 2 sizes Added 430/440 to Series/Model on Page 1
1	09/13/04	Pages 4 through 7	Switch Specimen 1 and 2 test results / Specimen 2 optional performance water resistance from 3.75 psf to 6.00 psf with sill riser.
2	09/14/05	Page 2	Corrected configuration of Test Specimen #3
2	09/14/05	Page 3	Added additional Weatherstripping



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Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	MI Windo
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

Go to Page

FL#	Type	Manufacturer	Validat
FL5100	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
FL5104	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
FL5108	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
FL5418	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
FL5438	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
FL5447	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
FL5451	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
FL5483-R1 History	Revision	MI Windows and Doors Category: Exterior Doors Subcategory: Sliding Exterior Door Assemblies	
FL5513	New	MI Windows and Doors Category: Windows	Steven

		Subcategory: Mullions	(717) 7
<u>FL6023</u>	New	MI Windows and Doors Category: Windows Subcategory: Casement	
<u>FL6024</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL6028</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL6029</u>	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL6489</u>	New	MI Windows and Doors Category: Windows Subcategory: Mullions	Steven (717) 7
<u>FL6499</u>	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL6501</u>	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
<u>FL6502</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL6503</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL6679</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
Go to Page 			

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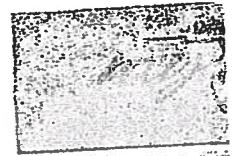
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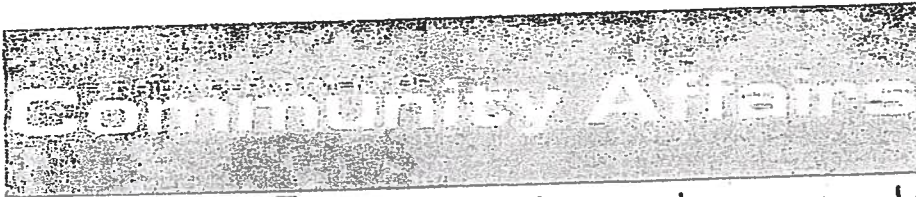
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Application Type	ALL Product Manufacturer	JORDAN WIND
Category	ALL Subcategory	ALL
Application Status	ALL Compliance Method	ALL

Search Results - Applications

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FL1378-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Single Hung	
FL1384-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Horizontal Slider	
FL1385-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Fixed	
FL1386-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Exterior Doors Subcategory: Sliding Exterior Door Assemblies	
FL2685-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Mullions	Steven (717) 7
FL2946-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Awning	
FL2949-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Casement	

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Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Masonit
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validated By
FL4242-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4334-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4668-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4904	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4940	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL5114	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL5465	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door	

		Assemblies
<u>FL5507</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies
<u>FL5508</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies
<u>FL6015</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies
<u>FL6506-R1 History</u>	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies
<u>FL6509</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies
<u>FL7050</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies
<u>FL7091</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies

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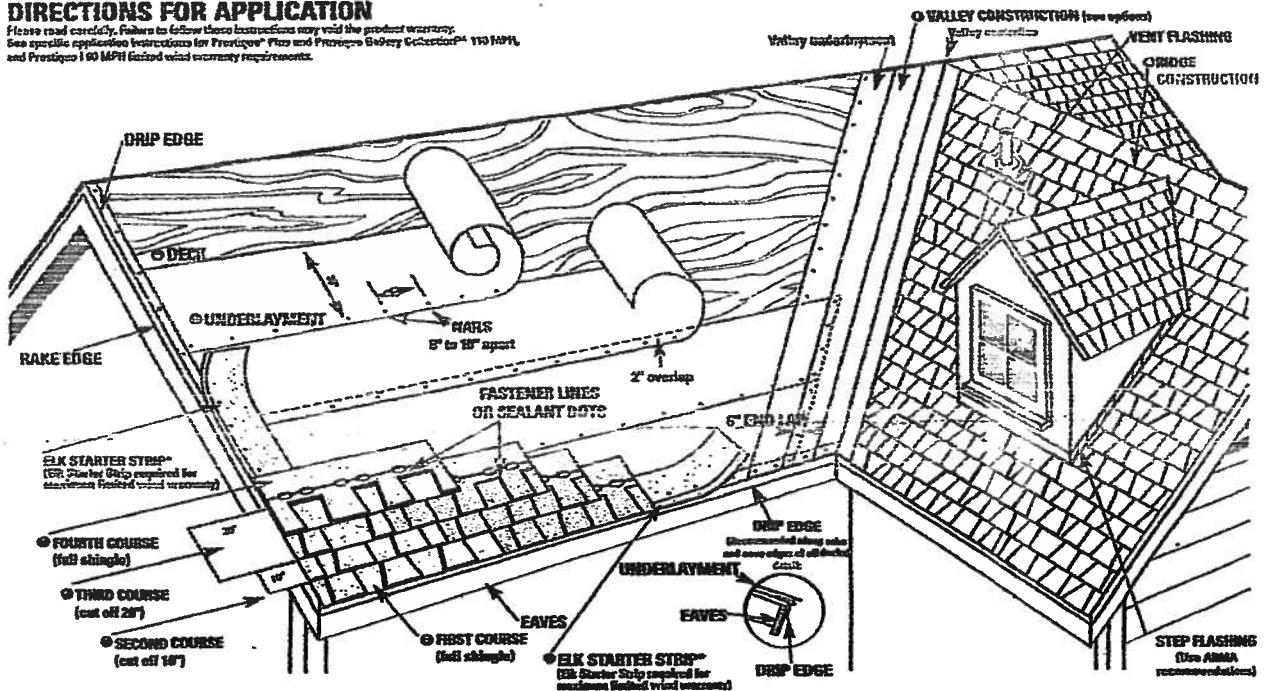
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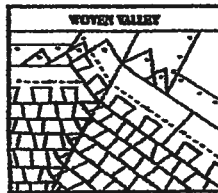


DIRECTIONS FOR APPLICATION

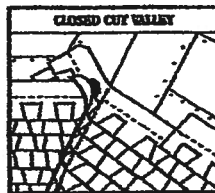
Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestige® Flat and Prestige Safety Collection® 110 MPH and Prestige 140 MPH listed wind warranty requirements.



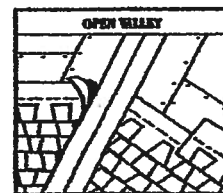
VALLEY CONSTRUCTION DETAILS (see opposite) If California Snow and California Flood are also applicable. NOTE: For complete ARMA valley construction details see ARMA Section 11.1. Details Provided Recommended



VALLEY CENTER LINE



VALLEY CENTER LINE



VALLEY CENTER LINE

DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet ELK's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In those cases, the local code must be followed. Under no circumstances will ELK accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All sides should be properly ventilated. Note: It is not necessary to remove tape on back of shingles.

DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/4" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt. Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two pieces of underlayment overlapping a minimum of 12". Begin by fastening a 15" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 24/12), use coated roll roofing of no less than 30 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic membrane between the two pieces of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the ELK Field Service Department for application specifications over other decks and other slopes.

STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A SHIP SHINGLE INVERTED WITH THE REGULAR APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof.

SECOND COURSE

Start at the rake with the shingles having 15" trimmed off and continue across roof with full shingles.

THIRD COURSE

Start at the rake with the shingles having 25" trimmed off and continue across roof with full shingles.

FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturers Association (ARMA) recommended procedure. For metal valleys, use 36" wide vertical underlayment prior to applying 15" metal flashing (secure edge with nails. No nails are to be within 6" of valley center.

RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with tarcrete FLX™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for ELK shingles, ELK will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between end in line with sealed dots.

NAILS: Corrosive resistant, 20° head, minimum 12-gauge roofing nails. ELK recommends 1-1/4" for new roofs and 1-1/2" for re-roofs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 24" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/8" deck penetration or penetration through deck, whichever is less.

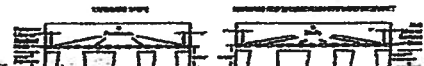
STANDARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 6° (or 2/12) use six fasteners per shingle. Locate fasteners in the fastener area 7" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (fastened) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

For a Limited Wind Warranty, all Prestige and Related Profile shingles must be applied with 6 properly placed fasteners, or in the case of manual application, 6 properly placed fasteners per shingle.

For a Limited Wind Warranty up to 110 MPH for Prestige Safety Collection or Prestige Flat or 90 MPH for Prestige 1 shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, ELK Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestige Flat, Prestige Safety Collection and Prestige 1 shingles for this enhanced Limited Wind Warranty. Under no circumstances should the ELK Starter Strip or ELK Starter Strip overlapping the eaves or rake edge more than 3/4" of an inch.



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (fastened) area of the shingle. Nails or staples must be placed along — and through — the fastener line or on products without fastener lines, nail or staple between end in line with sealed dots. CAUTION: Do not use fastener line for shingle alignment.

Shingle Deck	CONCRETE	WOODEN	UNDERLAYMENT	OVERLAYMENT
	Hand drive to shingle, fasten through shingle, fasten through shingle, fasten through shingle, fasten through shingle.	Hand drive to shingle, fasten through shingle, fasten through shingle, fasten through shingle, fasten through shingle.	Hand drive to shingle, fasten through shingle, fasten through shingle, fasten through shingle, fasten through shingle.	Hand drive to shingle, fasten through shingle, fasten through shingle, fasten through shingle, fasten through shingle.
	Always use a fastener and fasten to prevent shingle from blowing off. Never use a nail gun.	Always use a fastener and fasten to prevent shingle from blowing off. Never use a nail gun.	Always use a fastener and fasten to prevent shingle from blowing off. Never use a nail gun.	Always use a fastener and fasten to prevent shingle from blowing off. Never use a nail gun.

Refer to local codes which in some areas may require specific application techniques beyond those ELK has specified. All Prestige and Related Profile shingles have a UL® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALE: Careless and improper storage or handling can cause shingles to be damaged. Keep these shingles completely covered, dry, and free from moisture. Do not store near water sources or heat. Do not store in direct sunlight and avoid. DO NOT DOUBLE STACK. Double stacking will cause the shingles to be damaged and the longest will be the first to be moved out.

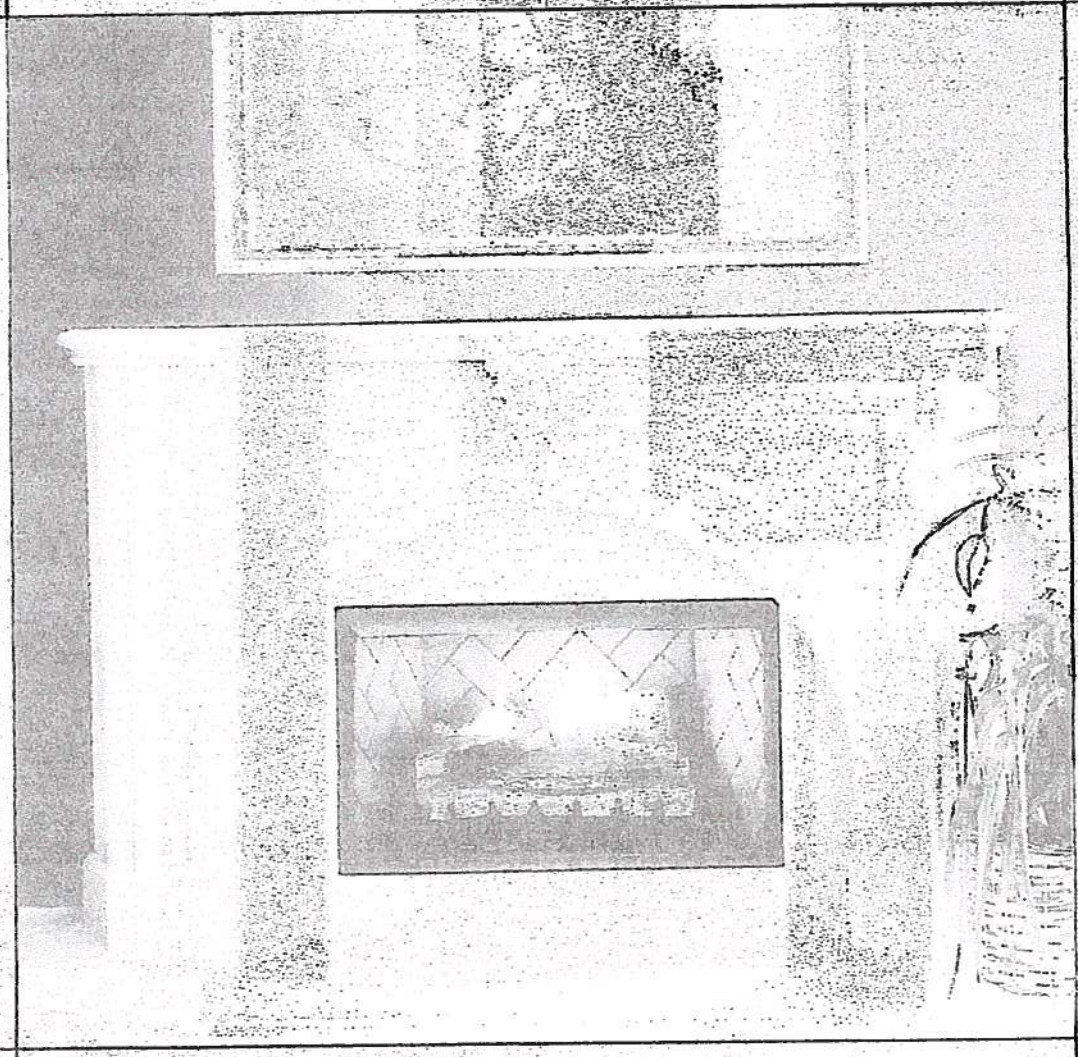
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THE RENAISSANCE SERIES

Colonial

VENT-FREE GAS FIREPLACES
V32/36/42/50 Model Series



FIREPLACES
FOR BUILDERS

Fmi

Warm Up To A High-Efficiency Colonial

There's a growing demand for vent-free gas fireplaces because they're 99 percent energy-efficient and can be installed virtually anywhere. Fmi's Colonial vent-free models deliver these benefits and more. They're part of our exciting new Renaissance Series, which offers a consistent look, sizing and construction across the entire line...plus beautiful new features homeowners will love!

Homeowner Highlights:

- **Visual appeal**—The industry's finest textured refractory brick liner (except 32") offers the attractive look of a true masonry fireplace.
- **Many luxury features are standard**—The Colonial comes standard with a heat deflection hood, hidden screen pockets (except 50"), stamped steel louvered panels, and other distinctive features.
- **Dollar-saving efficiency**—Paired with an Fmi vent free gas log heater, the systems 99% energy efficiency can provide dramatic energy savings.

Builder Benefits:

- **Straight, secure installation**—We've added full-length nailing flanges, and drywall stops.
- **Flexibility in the field**—You can quickly convert from louvered to clean face at any time (except 50").
- **Economical and versatile**—There's no chimney required. Can be installed virtually anywhere.

V36 is our louver-faced 36" fireplace with textured refractory brick-lined interior.

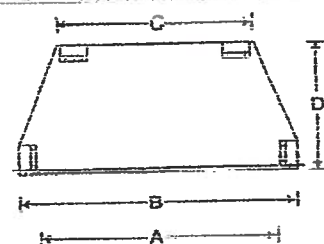
V42 is Fmi's 42" louver-faced fireplace shown with optional herringbone textured refractory brick-lined interior.

- 32", 36", 42" & 50" Vent-Free Fireplace Models Available With The Following:
- Clean or Louver (Circulating) Faced Models Available (Clean Faced only on 50")
 - Traditional Stacked and Herringbone Pattern Refractory Brick-Lined Interiors
 - Solid wrap or Outside Air Ready Models

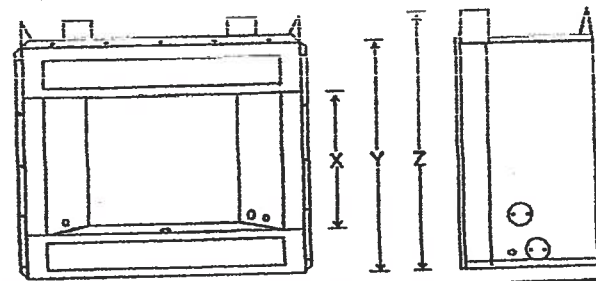
The Colonial features the industry's finest textured refractory brick lining.

You get straight, solid installation, thanks to our full-length nailing flanges and drywall stops.

- Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Decorative Filigree Panels (Black, Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Heat Deflection Hoods (Brushed Brass & Platinum)
- Fan Kits
- Standard & Herringbone Refractory Brick Liners



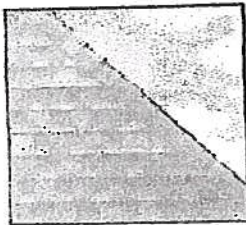
	32"	36"	42"	50"
A	28 1/2"	35"	42"	50"
B	24 1/2"	41"	48"	55"
C	27 3/8"	35"	38 1/8"	38 1/8"
D	18 3/4"	21"	23 1/8"	25 1/8"
E	18 1/4"	21"	24"	30"
F	32 1/4"	36"	40"	48"
G	36 1/2"	40 5/8"	44 1/4"	54 1/2"



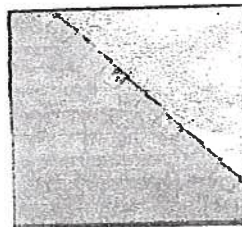
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ROOFING PRODUCTS SPECIFICATIONS - TUSCALOOSA, AL



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE®

Prestique Plus High Definition and Prestique Gallery Collection™

Product size _____ 13⅝" x 39⅝"
Exposure _____ 5⅝"
Pieces/Bundle _____ 16
Bundles/Square _____ 4/98.5 sq. ft.
Squares/Pallet _____ 11

50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Raised Profile

Product size _____ 13⅝" x 38⅝"
Exposure _____ 5⅝"
Pieces/Bundle _____ 22
Bundles/Square _____ 3/100 sq. ft.
Squares/Pallet _____ 16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique High Definition

Product size _____ 13⅝" x 39⅝"
Exposure _____ 5⅝"
Pieces/Bundle _____ 16
Bundles/Square _____ 4/98.5 sq. ft.
Squares/Pallet _____ 14

40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™

Size: 12" x 12"
Exposure: 6⅝"
Pieces/Bundle: 45
Coverage: 1 Bundle = 100 linear feet

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.93 linear feet

Prestique High Definition

Product size _____ 13⅝" x 39⅝"
Exposure _____ 5⅝"
Pieces/Bundle _____ 22
Bundles/Square _____ 3/100 sq. ft.
Squares/Pallet _____ 16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Available Colors: Antique Slate, Weatheredwood, Shakerwood, Seblewood, Hickory, Burkwood™, Forest Green, Wedgewood™, Birchwood™, Sandalwood, Gallery Collection: Balsam Forest™, Weathered Sage™, Sierra Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in SteinGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Seblewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3918, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Florida Building Code requirements.

*See separate limited warranty for installation and maintenance.

SPECIFICATIONS

Scope: Work includes furnishing all labor, materials and equipment necessary in complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula FLX.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof-a-necessary paint.

Preparation of Roof Deck: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.5mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.07mm) oriented strandboard; or equivalent. Most fine-grained plywood decks are NOT approved substitutes for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater, apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes 1/4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/254.0mm), use two piles of underlayment overlapped a minimum of 15". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrappers.

For areas where algae is a problem, shingles shall be (name) with SteinGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula FLX with SteinGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All

warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.945.5545 or e-mail specinfo@elkcorp.com.

SOUTHEAST &
ATLANTIC OFFICE:
800.945.5551

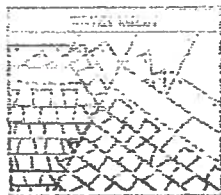
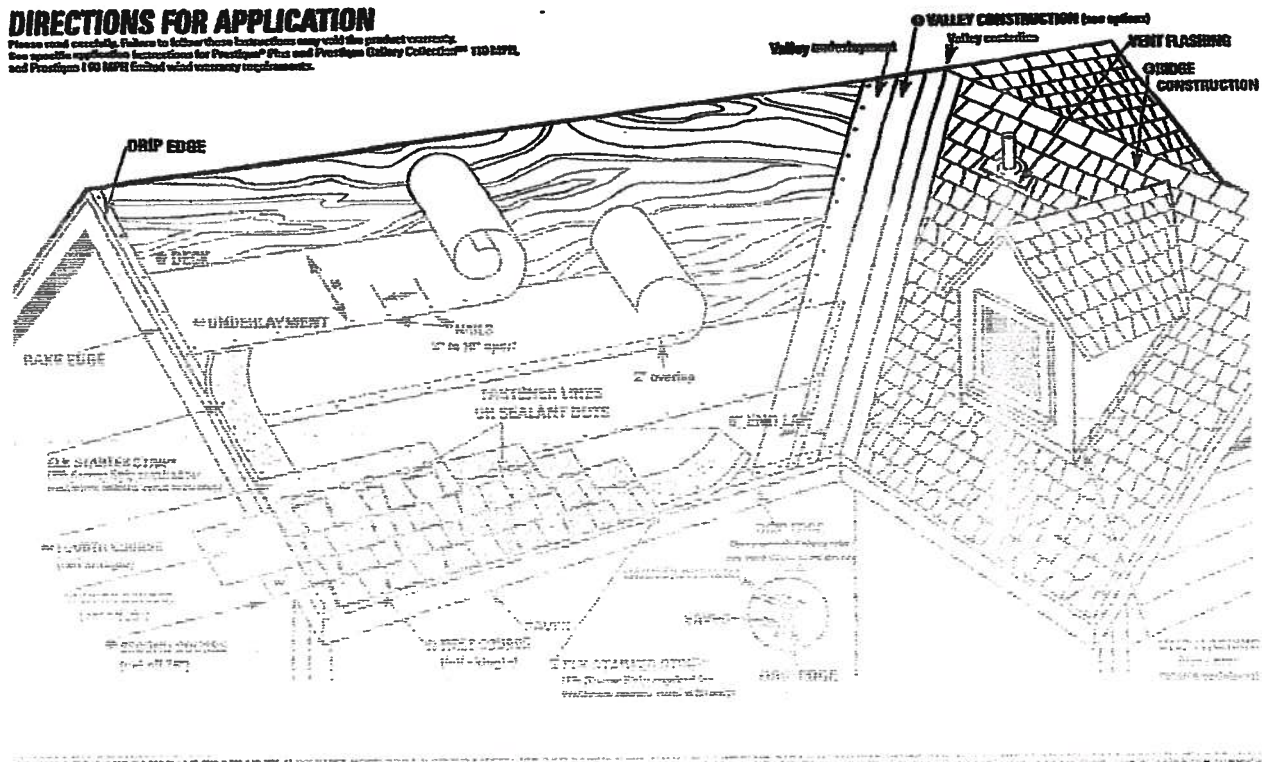
CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.com

DIRECTIONS FOR APPLICATION

Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestige® Plus and Prestige Gallery Collection® 110 MPH, and Prestige 110 MPH Enhanced wind warranty requirements.



UNDERLAYMENT



STARTER SHINGLES



FULL SHINGLES

DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will the current application requirements that are less than those printed here. Shingles should not be jammed tightly together. All edges should be properly sealed. Note: It is not necessary to remove tape on back of shingle.

DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

UNDERLAYMENT

Apply underlayment (Non-Fatigued No. 15 or 30 implied saturated felt). Cover drip edge of eaves only.

For low slopes (12/12 up to 4/12), completely cover the deck with two layers of underlayment overlapping a minimum of 18". Begin by fastening a 1/2" wide strip of underlayment along the eaves. Place a full 22" wide strip over the eaves, overlapping 18" over the strip already placed and completely overlapping the starter strip.

EAVE FLASHING FOR INS FLASH ASK A PROFESSIONAL CONTRACTOR. REFER TO ASHA MANUAL OR CHECK LOCAL CODES)

For steep slopes (12/12 or less than 12/12), use coated roll roofing of no less than 50 pounds per roll. The roll underlayment is fastened from the eave edge to a peak at least 24" beyond the eave edge of the living space below or one layer of a self-adhesive eave and flashing membrane.

For low slopes (12/12 up to 4/12), use a continuous layer of asphalt plastic membrane (minimum 30 lb per roll) over the underlayment from the eave edge to a peak at least 24" beyond the eave edge of the living space below or one layer of a self-adhesive eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A SHIP SHINGLE INVERTED WITH THE HEAD END APPLIED AT THE EAVE EDGE. With at least 4" lap from the end of the first shingle, start at the eave edge overlapping the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

FIRST COURSE

Start at the eave and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course staggered at 1/2" on the roof.

SECOND COURSE

Start at the eave with the shingle having 16" tapered off and continue across roof with full shingles.

THIRD COURSE

Start at the eave with the shingle having 24" tapered off and continue across roof with full shingles.

FOURTH COURSE

Start at the eave and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES

Repeat application as shown for second, third, and fourth courses. Do not rock shingles straight up the roof.

VALLEY CONSTRUCTION

Open, crown and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturers Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 16" metal flashing (separate edge with metal). No nails are to be within 6" of valley center.

RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula ELK® (See ridge package for installation instructions.)

FASTENERS

When nailing is the preferred method for Elk shingles, Elk will accept fasteners meeting the following instructions.

Always nail or staple through the fastener line or on products without fastener lines. Nail or staple between and to 1" on either side of fastener.

NAILS: Corrosion resistant, 1 1/2" head, minimum 15 gauge roofing nails. Elk recommends 1-1/4" for steep roofs and 1-1/2" for roof over. In areas where you are applying shingles to a roof that has an exposed underlayment, use 15 gauge nails. If the underlayment is covered by a self-adhesive eave and flashing membrane, use 16 gauge nails. If the underlayment is covered by a self-adhesive eave and flashing membrane, use 16 gauge nails.

STAPLES: Corrosion resistant, 16-gauge staples, crown width minimum of 1/2". Note: An improperly applied staple can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" deep penetration or penetration through deck, whichever is less.

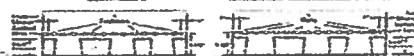
MANUFACTURER APPLICATIONS

Current fastening is subject to the performance of the roof. For simplex securing 50 for 24/12 up to 110 mph per shingle. Locate fastener in the fastener zone 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (horizontal) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

For a Limited Wind Warranty up to 110 MPH for Prestige Plus and Prestige Gallery Collection or Prestige Plus or 110 MPH for Prestige L, shingles must be applied with 4 properly placed fasteners, or in the case of manual applications, 6 properly placed fasteners per shingle.

For a Limited Wind Warranty up to 110 MPH for Prestige Plus and Prestige Gallery Collection or Prestige Plus or 110 MPH for Prestige L, shingles must be applied with 4 properly placed fasteners, or in the case of manual applications, 6 properly placed fasteners per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THE LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eave and rake edges to qualify Prestige Plus, Prestige Gallery Collection and Prestige L shingles for the enhanced Limited Wind Warranty. Under no circumstances should the Elk Starter Strip be applied to the eave and rake edges to qualify Prestige Plus, Prestige Gallery Collection and Prestige L shingles for the enhanced Limited Wind Warranty. Under no circumstances should the Elk Starter Strip be applied to the eave and rake edges to qualify Prestige Plus, Prestige Gallery Collection and Prestige L shingles for the enhanced Limited Wind Warranty.



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (horizontal) area of the shingle. Nails or staples must be placed along - and through - the 'fastener line' or on products without fastener lines, with or staple between and in line with fastener line. CAUTION: Do not use fastener line for shingle alignment.

Roof Slope	Fastener	Fastener Line	Fastener Line	Fastener Line
12/12 or steeper	1 1/2" head, 15 gauge	1 1/2" head, 15 gauge	1 1/2" head, 15 gauge	1 1/2" head, 15 gauge
12/12 or less	1 1/2" head, 15 gauge	1 1/2" head, 15 gauge	1 1/2" head, 15 gauge	1 1/2" head, 15 gauge

Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified. All fasteners and related flashing shingles have a 1/4" x 1/4" x 1/4" fastener line. Refer to the Elk website for more information on these instructions. Refer to the Elk website for more information on these instructions.

CAUTION TO WHOLESALE: Careless and improper storage or handling can harm shingles. Shingles should be stored in a dry, reasonably cool, and protected from the weather. Do not store shingles in areas where they will be exposed to direct sunlight, rain, or other weather conditions. Do not store shingles in areas where they will be exposed to direct sunlight, rain, or other weather conditions. Do not store shingles in areas where they will be exposed to direct sunlight, rain, or other weather conditions.

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ELK
www.elkcorp.com

GENERAL CONTRACTORS

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 14-3S-16-02123-043

Building permit No. 000026084

Use Classification SFD, UTILITY

Fire: 32.10

Permit Holder LOUIS SCHWARTZ

Waste: 83.75

Owner of Building LOUIS SCHWARTZ

Total: 115.85

Location: 253 NW MELANIE WAY

Date: 05/16/2008

Harry Dick

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



Permit # 26084

**Columbia County Building Department
Culvert Permit**

**Culvert Permit No.
000001592**

DATE 05/08/2008 PARCEL ID # 14-3S-16-02123-043

APPLICANT PAMELA SMITH PHONE 754-9561

ADDRESS 377 SW MAULDIN AVE LAKE CITY FL 32024

OWNER LOUIS SCHWARTZ PHONE 305 542-9193

ADDRESS 253 NW MELANIE WAY LAKE CITY FL 32055

CONTRACTOR LOUIS SCHWARTZ PHONE 305 542-9193

LOCATION OF PROPERTY 41N, TL ON MOORE RD, TL ON MELANIE WAY, 4TH LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CHADWORTH 5

SIGNATURE

Pamela Smith

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE 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



Residential System Sizing Calculation

Summary

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

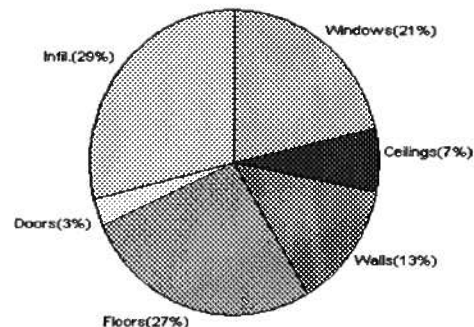
6/11/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	25929 Btuh	Total cooling load calculation	20014 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.7 30000	Sensible (SHR = 0.75)	146.7 22500
Heat Pump + Auxiliary(0.0kW)	115.7 30000	Latent	160.4 7500
		Total (Electric Heat Pump)	149.9 30000

WINTER CALCULATIONS

Winter Heating Load (for 1456 sqft)

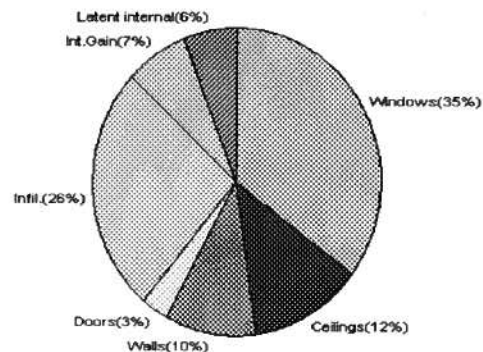
Load component	Load
Window total 173 sqft	5569 Btuh
Wall total 1047 sqft	3438 Btuh
Door total 60 sqft	777 Btuh
Ceiling total 1500 sqft	1768 Btuh
Floor total 160 sqft	6986 Btuh
Infiltration 182 cfm	7392 Btuh
Duct loss	0 Btuh
Subtotal	25929 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	25929 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1456 sqft)

Load component	Load
Window total 173 sqft	7030 Btuh
Wall total 1047 sqft	2085 Btuh
Door total 60 sqft	588 Btuh
Ceiling total 1500 sqft	2484 Btuh
Floor total	0 Btuh
Infiltration 95 cfm	1770 Btuh
Internal gain	1380 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	15337 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	3476 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
Total latent gain	4676 Btuh
TOTAL HEAT GAIN	20014 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 6-11-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/11/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
2	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
5	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
6	2, Clear, Metal, 0.87	SW	36.0		32.2	1159 Btuh
Window Total			173(sqft)			5569 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	875		3.3	2874 Btuh
2	Frame - Wood - Adj(0.09)	13.0	172		3.3	565 Btuh
Wall Total			1047			3438 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1500		1.2	1768 Btuh
Ceiling Total			1500			1768Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	160.0	ft(p)	43.7	6986 Btuh
Floor Total			160			6986 Btuh
Zone Envelope Subtotal:						18537 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	Load
	Natural	0.94	11648		182.5	7392 Btuh
Ductload	, R6.0, Supply(), Return() (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					25929 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	25929 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25929 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

6/11/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
2	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
5	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
6	2, Clear, Metal, 0.87	SW	36.0		32.2	1159 Btuh
Window Total			173(sqft)			5569 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	875		3.3	2874 Btuh
2	Frame - Wood - Adj(0.09)	13.0	172		3.3	565 Btuh
Wall Total			1047			3438 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1500		1.2	1768 Btuh
Ceiling Total			1500			1768Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	160.0	ft(p)	43.7	6986 Btuh
Floor Total			160			6986 Btuh
Zone Envelope Subtotal:						18537 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	11648	182.5		7392 Btuh
Ductload	, R6.0, Supply(), Return() (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					25929 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	25929 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25929 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

6/11/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load				
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded					
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh			
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	18.0	0.0	18.0	29	60	1081	Btuh			
3	2, Clear, 0.87, None,N,N	NW	6ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh			
4	2, Clear, 0.87, None,N,N	NW	6ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh			
5	2, Clear, 0.87, None,N,N	SE	6ft.	6.5ft.	72.0	72.0	0.0	29	63	2085	Btuh			
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043	Btuh			
Window Total						173 (sqft)					7030 Btuh			
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load				
1	Frame - Wood - Ext	13.0/0.09			875.0			2.1		1825 Btuh				
2	Frame - Wood - Adj	13.0/0.09			172.0			1.5		260 Btuh				
Wall Total						1047 (sqft)					2085 Btuh			
Doors	Type				Area (sqft)			HTM		Load				
1	Insulated - Adjacent				20.0			9.8		196 Btuh				
2	Insulated - Exterior				20.0			9.8		196 Btuh				
3	Insulated - Exterior				20.0			9.8		196 Btuh				
Door Total						60 (sqft)					588 Btuh			
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load				
1	Vented Attic/DarkShingle	30.0			1500.0			1.7		2484 Btuh				
Ceiling Total						1500 (sqft)					2484 Btuh			
Floors	Type	R-Value			Size			HTM		Load				
1	Slab On Grade	0.0			160 (ft(p))			0.0		0 Btuh				
Floor Total						160.0 (sqft)					0 Btuh			
	Zone Envelope Subtotal:										12187 Btuh			
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load				
	SensibleNatural	0.49			11648			95.1		1770 Btuh				
Internal gain	Occupants			Btuh/occupant			Appliance		Load					
	6			X 230 +			0		1380 Btuh					
Duct load	, R6.0, Supply(), Return()										DGM = 0.00		0.0 Btuh	
	Sensible Zone Load										15337 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

6/11/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	15337 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	15337 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	15337 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3476 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4676 Btuh
	TOTAL GAIN	20014 Btuh

*Key: Window types (Pn - Number of panes of glass)
(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(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

6/11/2007

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	NW	6ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	NW	6ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
5	2, Clear, 0.87, None,N,N	SE	6ft.	6.5ft.	72.0	72.0	0.0	29	63	2085	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043	Btuh
Window Total					173 (sqft)					7030 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			875.0			2.1		1825 Btuh	
2	Frame - Wood - Adj	13.0/0.09			172.0			1.5		260 Btuh	
Wall Total						1047 (sqft)					2085 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total						60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1500.0			1.7		2484 Btuh	
Ceiling Total						1500 (sqft)					2484 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			160 (ft(p))			0.0		0 Btuh	
Floor Total						160.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									12187 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			11648			95.1		1770 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	, R6.0, Supply(), Return()							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									15337 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

Class 3 Rating
Registration No. 0
Climate: North

6/11/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	15337 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	15337 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	15337 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3476 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4676 Btuh
	TOTAL GAIN	20014 Btuh

*Key: Window types (Pn - Number of panes of glass)
(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(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Smith, John & Pam Residence
253 NW Meliane Way
Lake City, FL

Project Title:
706072Smith,John&Pam

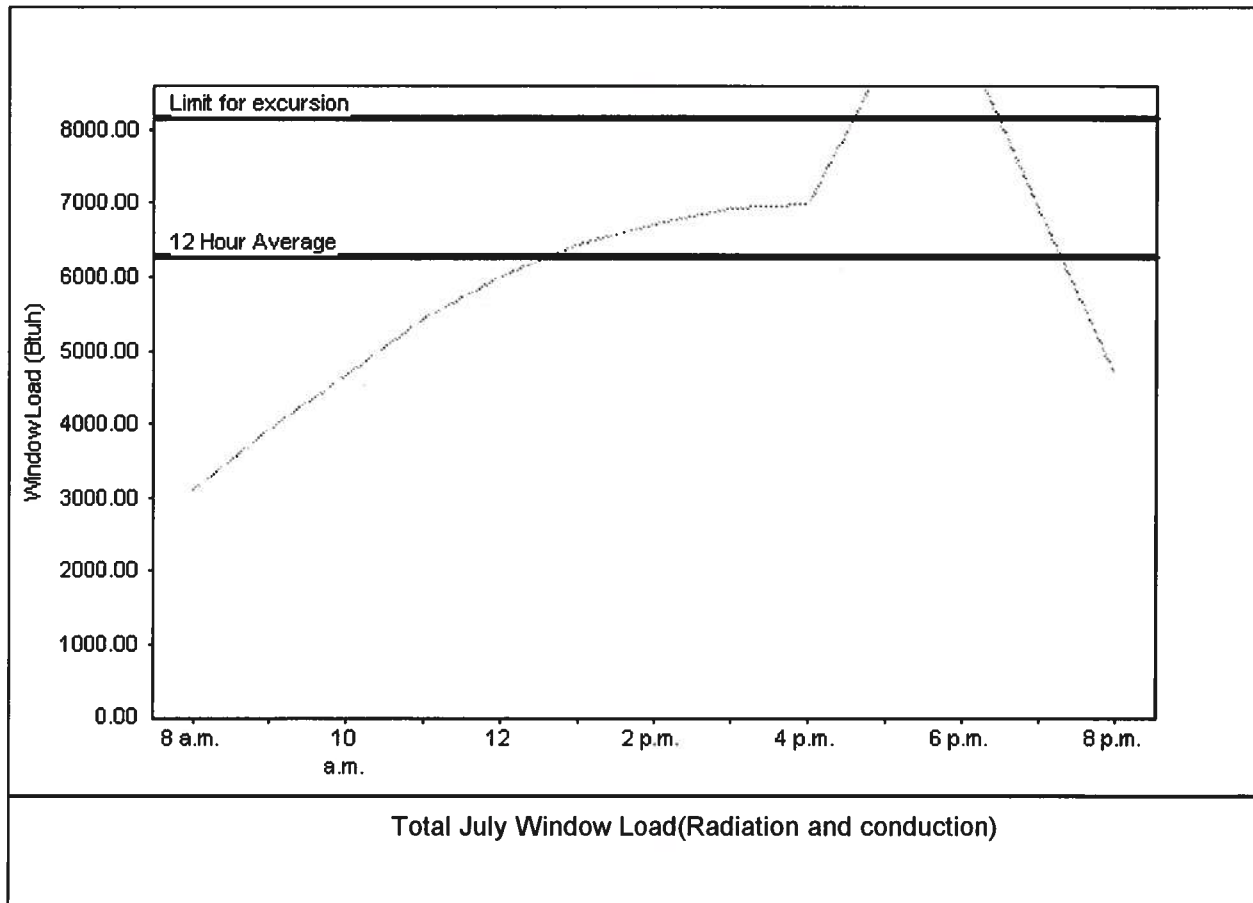
Class 3 Rating
Registration No. 0
Climate: North

6/11/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	6274 Btuh
Summer setpoint	75 F	Peak window load for July	9167 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	8156 Btuh
Latitude	29 North	Window excursion (July)	1011 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *6-11-07*

EnergyGauge® FLR2PB v4.1





**ANSI/AAMA/NWDA 101/LS.2-97
TEST REPORT**

Rendered to:

MI WINDOWS AND DOORS, INC

SERIES/MODEL: 420/430/440

PRODUCT TYPE: Aluminum Sliding Glass Door

Title	Summary of Results		
	Test Specimen #1	Test Specimen #2	Test Specimen #3
Rating	SGD-R25 182 x 96	SGD-R35 182 x 80	SGD-R40 144 x 96
Operating Force	17 lbf max.	17 lbf max.	N/A
Air Infiltration	0.23 cfm/ft ²	0.27 cfm/ft ²	N/A
Water Resistance Test Pressure	3.75/6.0/9.0 psf	6.0 psf	N/A
Uniform Load Deflection Test Pressure	±35.0 psf	±35.0 psf	+40.0 psf/-40.1 psf
Uniform Load Structural Test Pressure	±37.5 psf	±52.5 psf	+60.0 psf/-60.2 psf
Forced Entry Resistance	Grade 10	Grade 10	N/A

Reference should be made to ATI Report No. 52112.01-122-47 for complete test specimen description and data.



ANSI/AAMA/NWWDA 101/LS.2-97 TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.: 52112.01-122-47
Revision 2: 09/14/05
Test Dates: 06/30/04
Through: 08/12/04
Report Date: 08/30/04
Expiration Date: 07/02/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on three Series/Model 420/430/440, aluminum sliding glass doors at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: SGD-R25 182 x 96; Test Specimen #2: SGD-R35 182 x 80; Test Specimen #3: SGD-R40 144 x 96. Test specimen description and results are reported herein.

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

Test Specimen Description:

Series/Model: 420/430/440

Product Type: Aluminum Sliding Glass Door

Test Specimen #1: SGD-R25 182 x 96 (XXO)

Overall Size: 15' 1-3/4" wide by 8' 0" high

Active Door Panel Size (2): 5' 0-1/2" wide by 7' 11" high

Fixed Door Panel Size: 5' 1" wide by 7' 11" high

Screen Size: 5' 0-3/8" wide by 7' 11" high

Overall Area: 121.2 ft²

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520).

Test Specimen Description: (Continued)

Test Specimen #2: SGD-R35 182 x 80 (OXX)

Overall Size: 15' 1-3/4" wide by 6' 8" high

Active Door Panel Size (2): 5' 0-1/2" wide by 6' 7" high

Fixed Door Panel Size: 4' 8-7/8" wide by 6' 2-5/8" high

Screen Size: 5' 0-3/8" wide by 6' 7" high

Overall Area: 101 ft²

Reinforcement: No reinforcement was utilized.

Test Specimen #3: SGD-R40 144 x 96 (OXO)

Overall Size: 12' 0" wide by 8' 0" high

Active Door Panel Size: 3' 8-1/4" wide by 7' 10-1/2" high

Fixed Door Panel Size (2): 3' 8-3/4" wide by 7' 6-1/2" high

Screen Size: 3' 11-1/2" wide by 7' 11-3/8" high

Overall Area: 96 ft²

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520). The interlock utilized an aluminum reinforcement (Drawing #SECT4237).

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: All glazing consisted of a single sheet of 3/16" thick clear tempered glass that was channel glazed with a wrap around rubber gasket.

Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.187" backed by 0.270" high polypile with center fin	2 Rows	Stiles
1/2" wide by 1" long polypile dust plug	2 Pieces	Corner of head, jamb, and top and bottom of panel retainer
0.187" backed by 0.250" high polypile with center fin	2 Rows	Top rail
0.187" backed by 0.350" high polypile with center fin	2 Rows	Bottom rail
0.187" backed by 0.230" high polypile with center fin	1 Row	Panel interlock, screen stiles

Frame Construction: The frame was constructed of extruded aluminum. Corners were coped, butted, sealed, and fastened with two #8 x 5/8" screws. An aluminum panel adaptor was added to the screen adaptor and secured with #6 x 3/8" pan head screws located 3-1/2" from the ends and 14" on center through the screen adaptor into the panel adaptor. The jambs utilized a panel jamb retainer on the fixed panels secured to the jambs with two #6 x 1/2" screws through the retainer into the jambs. The panels were placed in the retainer and secured to the frame with two #8 x 1/2" screws located through the retainers into the panels. Three panel jamb retainers were utilized to secure the fixed panels, located at panel top and bottom and one midspan. The fixed panels also utilized an aluminum sill retainer clip located at the sill. The sill utilized an optional aluminum sill extender.

Door Panel Construction: The door panels were constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw at the bottom and two #8 x 3/4" screws at the top.

Screen Construction: The screen was constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw and one #8 x 1" screw at the bottom and one #8 x 1" screw at the top.

Test Specimen Description: (Continued)

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Locking handle	1	44" from active panel bottom
Roller assembly	2	3" from bottom rail ends
Screen locking handle	1	46" from screen bottom rail
Screen rollers	2	Corners of bottom rail

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Sloped sill	1	Sill
1/2" long drain off notches	6	Ends of vertical sill legs

Installation: The units were installed into a #2 Spruce-Pine-Fir wood test buck. The units were fastened to the test buck with two rows of #8 x 1-1/4" screws, 8" from each end and 23" on center. The exterior perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #1:</u> SGD-R25 182 x 96 (XXO)			
2.2.1.6.1	Operating Force Breakaway force	17 lbf 24 lbf	20 lbf max. 30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.23 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting rail) (Loads were held for 52 seconds) 15.0 psf (positive) 15.0 psf (negative)	0.56" 0.57"	See Note #2 See Note #2
<i>Note #2: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.</i>			
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) 22.5 psf (positive) 22.5 psf (negative)	0.02" 0.03"	0.30" max. 0.30" max.
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs Locking stile Interlock stile	0.12"/24% 0.12"/24%	0.50"/100% 0.50"/100%

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)</u>			
2.2.1.6.2	Deglazing Test per ASTM E 987 In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 (with and without screen) 3.75 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with 2-5/8" Dade County sill extension) 9.0 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 10 seconds)		
	35.0 psf (positive)	2.98"	See Note #2
	35.0 psf (negative)	2.52"	See Note #2

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)</u>			
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)		
	37.5 psf (positive)	0.20"	0.36" max.
	37.5 psf (negative)	0.19"	0.36" max.
<u>Test Specimen #2: SGD-R35 182 x 80 (OXX)</u>			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	21 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.27 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<u>Test Specimen #2: SGD-R35 182 x 80 (OXX) (Continued)</u>			
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 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) 35.0 psf (positive) 35.0 psf (negative)	1.28" 1.33"	See Note #2 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) 52.5 psf (positive) 52.5 psf (negative)	0.13" 0.15"	0.30" max. 0.30" max.

Test Specimen #3: SGD-R40 144 x 96 (OXO)

Optional Performance

4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds) 40.0 psf (positive) 40.1 psf (negative)	1.42" 1.28"	See Note #2 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) 60.0 psf (positive) 60.2 psf (negative)	0.27" 0.30"	0.37" max. 0.37" max.



52112.01-122-47
Page 9 of 10
Revision 2: 09/14/05

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, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Mark A. Hess

Mark A. Hess
Technician

Digitally Signed by: Steven M. Urich

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

MH:vlm

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	08/30/04	N/A	Original report issue
1	09/13/04	Cover page	Switch Specimens 1 and 2 / Added 430/440 to Series/Model
1	09/13/04	Page 1 and 2	Switch Specimen 1 and 2 sizes Added 430/440 to Series/Model on Page 1
1	09/13/04	Pages 4 through 7	Switch Specimen 1 and 2 test results / Specimen 2 optional performance water resistance from 3.75 psf to 6.00 psf with sill riser.
2	09/14/05	Page 2	Corrected configuration of Test Specimen #3
2	09/14/05	Page 3	Added additional Weatherstripping

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Product Approval

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Search Criteria

Search Criteria			
Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	MI Windo
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

Go to Page

FL#	Type	Manufacturer	Validat
<u>FL5100</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL5104</u>	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
<u>FL5108</u>	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL5418</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL5438</u>	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL5447</u>	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
<u>FL5451</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL5483-R1</u> <u>History</u>	Revision	MI Windows and Doors Category: Exterior Doors Subcategory: Sliding Exterior Door Assemblies	
<u>FL5513</u>	New	MI Windows and Doors Category: Windows	Steven

		Subcategory: Mullions	(717) 7
<u>FL6023</u>	New	MI Windows and Doors Category: Windows Subcategory: Casement	
<u>FL6024</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL6028</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL6029</u>	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL6489</u>	New	MI Windows and Doors Category: Windows Subcategory: Mullions	Steven (717) 7
<u>FL6499</u>	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL6501</u>	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
<u>FL6502</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL6503</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL6679</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
Go to Page			

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
 2555 Shumard Oak Boulevard
 Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

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Product Approval

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Search Criteria

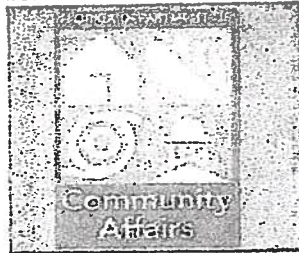
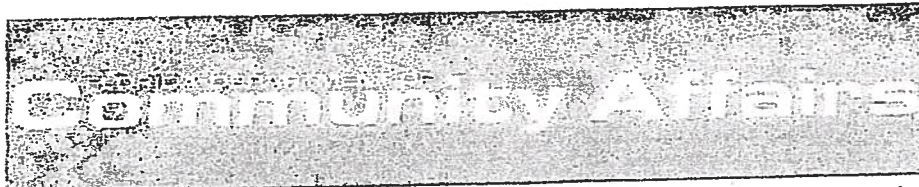
Code Version	2004 FL#	ALL
Application Type	ALL Product Manufacturer	JORDAN WIND
Category	ALL Subcategory	ALL
Application Status	ALL Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validat
FL1378-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Single Hung	
FL1384-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Horizontal Slider	
FL1385-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Fixed	
FL1386-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Exterior Doors Subcategory: Sliding Exterior Door Assemblies	
FL2685-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Mullions	Steven (717) 7
FL2946-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Awning	
FL2949-R1 History	Revision	JORDAN WINDOWS and DOORS Category: Windows Subcategory: Casement	

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Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Masonit
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validated By
FL4242-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4334-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4668-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4904	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4940	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL5114	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL5465	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	

		Assemblies	
<u>FL5507</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL5508</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL6015</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL6506-R1</u> <u>History</u>	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL6509</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL7050</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL7091</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	

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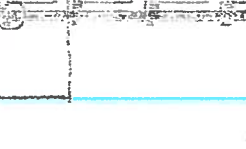
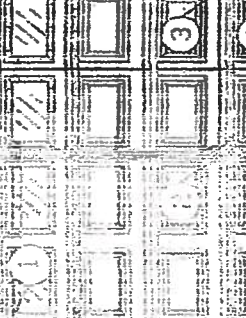
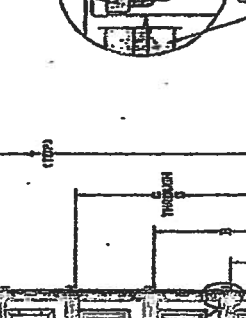
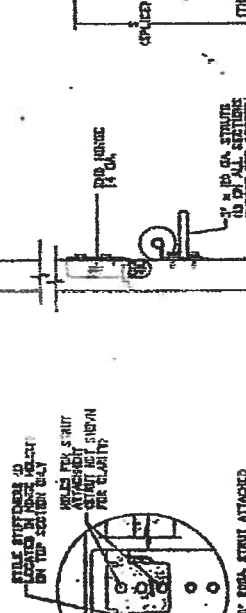
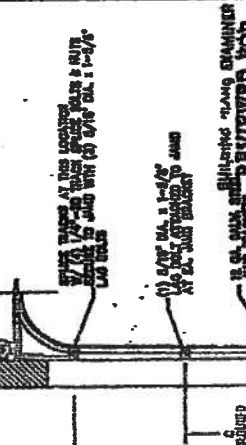
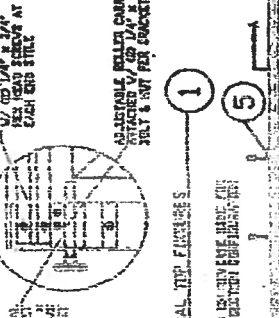
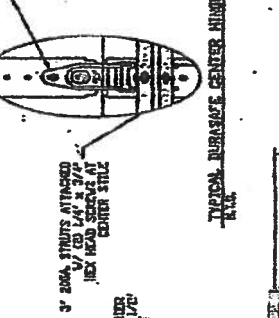
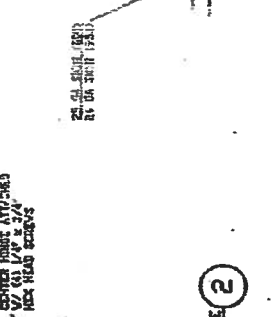
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Product Approval Accepts:



Diagram illustrating a mechanical assembly, likely a pump or engine component, showing a lever arm mechanism. The diagram includes labels for various parts and dimensions:

- Labels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Dimensions: 1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4", 4 1/2", 5", 5 1/2", 6", 6 1/2", 7", 7 1/2", 8", 8 1/2", 9", 9 1/2", 10", 10 1/2", 11", 11 1/2", 12", 12 1/2", 13", 13 1/2", 14", 14 1/2", 15", 15 1/2", 16", 16 1/2", 17", 17 1/2", 18", 18 1/2", 19", 19 1/2", 20", 20 1/2", 21", 21 1/2", 22", 22 1/2", 23", 23 1/2", 24", 24 1/2", 25", 25 1/2", 26", 26 1/2", 27", 27 1/2", 28", 28 1/2", 29", 29 1/2", 30", 30 1/2", 31", 31 1/2", 32", 32 1/2", 33", 33 1/2", 34", 34 1/2", 35", 35 1/2", 36", 36 1/2", 37", 37 1/2", 38", 38 1/2", 39", 39 1/2", 40", 40 1/2", 41", 41 1/2", 42", 42 1/2", 43", 43 1/2", 44", 44 1/2", 45", 45 1/2", 46", 46 1/2", 47", 47 1/2", 48", 48 1/2", 49", 49 1/2", 50", 50 1/2", 51", 51 1/2", 52", 52 1/2", 53", 53 1/2", 54", 54 1/2", 55", 55 1/2", 56", 56 1/2", 57", 57 1/2", 58", 58 1/2", 59", 59 1/2", 60", 60 1/2", 61", 61 1/2", 62", 62 1/2", 63", 63 1/2", 64", 64 1/2", 65", 65 1/2", 66", 66 1/2", 67", 67 1/2", 68", 68 1/2", 69", 69 1/2", 70", 70 1/2", 71", 71 1/2", 72", 72 1/2", 73", 73 1/2", 74", 74 1/2", 75", 75 1/2", 76", 76 1/2", 77", 77 1/2", 78", 78 1/2", 79", 79 1/2", 80", 80 1/2", 81", 81 1/2", 82", 82 1/2", 83", 83 1/2", 84", 84 1/2", 85", 85 1/2", 86", 86 1/2", 87", 87 1/2", 88", 88 1/2", 89", 89 1/2", 90", 90 1/2", 91", 91 1/2", 92", 92 1/2", 93", 93 1/2", 94", 94 1/2", 95", 95 1/2", 96", 96 1/2", 97", 97 1/2", 98", 98 1/2", 99", 99 1/2", 100", 101", 102", 103", 104", 105", 106", 107", 108", 109", 110", 111", 112", 113", 114", 115", 116", 117", 118", 119", 120", 121", 122", 123", 124", 125", 126", 127", 128", 129, 130.



NOV 24 2003

Building Inspection Division

PER PLAN TO BE SUBMITTED FOR REVIEW
THIS PLAN ON JOB

88-242

PER PLAN TO BE SUBMITTED FOR REVIEW
THIS PLAN ON JOB

Architectural drawing showing a building elevation. The drawing includes a circular feature on the right side, possibly a dome or a large window. Handwritten notes in the upper right corner read: "10' 0" RADIUS", "10' 0" RADIUS", "10' 0" RADIUS", "10' 0" RADIUS", "10' 0" RADIUS", "10' 0" RADIUS". The drawing is labeled "ELEVATION" and "1/17".

Year	Number of people (millions)
1980	18
1990	22
2000	26
2020	32

MAX. SIZE	DESIGN LOADS	TEST LOADS
6" x 14"	+228 PBF	+342 PBF
	-288 PBF	-404 PBF

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IN RE: WGA
STARS

145 CANTON STREET NEWTON, MA. 02459
 MODEL 400 STAYALONG 7/OverSole
 MODEL 850 SHUTTLE 7/OverSole
 Foot Panel, Long Panel, and High Panel
 SEE US AT THE SHOW
 OCT. 1990-1991

1. 2000 1000 500 250 125 62.5 31.25 15.625 7.8125 3.90625 1.953125 0.9765625 0.48828125 0.244140625 0.1220703125 0.06103515625 0.030517578125 0.0152587890625 0.00762939453125 0.003814697265625 0.0019073486328125 0.00095367431640625 0.000476837158203125 0.0002384185791015625 0.00011920928955078125 0.000059604644775390625 0.0000298023223876953125 0.00001490116119384765625 0.000007450580596923828125 0.0000037252902984619140625 0.00000186264514923095703125 0.000000931322574615478515625 0.0000004656612873077392578125 0.00000023283064365386962890625 0.000000116415321826934814453125 0.0000000582076609134674072265625 0.00000002910383045673370361328125 0.000000014551915228366851806640625 0.0000000072759576141834259033203125 0.00000000363797880709171295166015625 0.000000001818989403545856475830078125 0.0000000009094947017729282379150390625 0.00000000045474735088646411895751953125 0.000000000227373675443232059478759765625 0.0000000001136868377216160297393798828125 0.00000000005684341886080801486968994140625 0.000000000028421709430404007434844970703125 0.0000000000142108547152020037174224853515625 0.00000000000710542735760100185871124267578125 0.000000000003552713678800500929355621337890625 0.0000000000017763568394002500646778106689453125 0.00000000000088817841970012503233890533447265625 0.000000000000444089209850062516169452667236328125 0.0000000000002220446049250312578847263336181640625 0.00000000000011102230246251562894236316680908203125 0.000000000000055511151231257814471181583340541015625 0.0000000000000277555756156289072355907916702705078125 0.00000000000001387778780781445361779539583513525390625 0.000000000000006938893903907226808897697917567626953125 0.0000000000000034694469519536134044488489587838126953125 0.00000000000000173472347597680670222442447939190634765625 0.000000000000000867361737988403351112212239695953173828125 0.0000000000000004336808689942016755561061198479765869140625 0.00000000000000021684043449710083777805305992398829345703125 0.000000000000000108420217248550418889026529961994146728515625 0.00000000000000005421010862427520944451326499809707336428125 0.000000000000000027105054312137604722256632499048536682140625 0.0000000000000000135525271560688023611283162495242683410703125 0.00000000000000000677626357803440118056415812476121342053515625 0.000000000000000003388131789017200590282079062380606710267578125 0.000000000000000001694065894508600295141039531190303355133828125 0.0000000000000000008470329472543001475705197655951516775669140625 0.00000000000000000042351647362715007378525988279757583878345703125 0.000000000000000000211758236813575036892629941398787919391728515625 0.00000000000000000010587911840678751844631497069939395969586428125 0.000000000000000000052939559203393759223157485349696979847932140625 0.0000000000000000000264697796016968796115787426748484899239660703125 0.00000000000000000001323488980084843980578937133742424496198303515625 0.000000000000000000006617444900424219902894685668712122480991517578125 0.0000000000000000000033087224502121099514473428343560612404957587890625 0.00000000000000000000165436122510605497572367141717803062024787939453125 0.000000000000000000000827180612553027487861835708589015310123939697265625 0.0000000000000000000004135903062765137439309178542945076550619698486328125 0.00000000000000000000020679515313825687196545892714725382753098492431640625 0.000000000000000000000103397576569128435982729463573626913765492462158203125 0.0000000000000000000000516987882845642179913647317868134568827462310791015625 0.00000000000000000000002584939414228210899568236589340672844137311553955078125 0.00000000000000000000001292469707114105449784118294670336422068655

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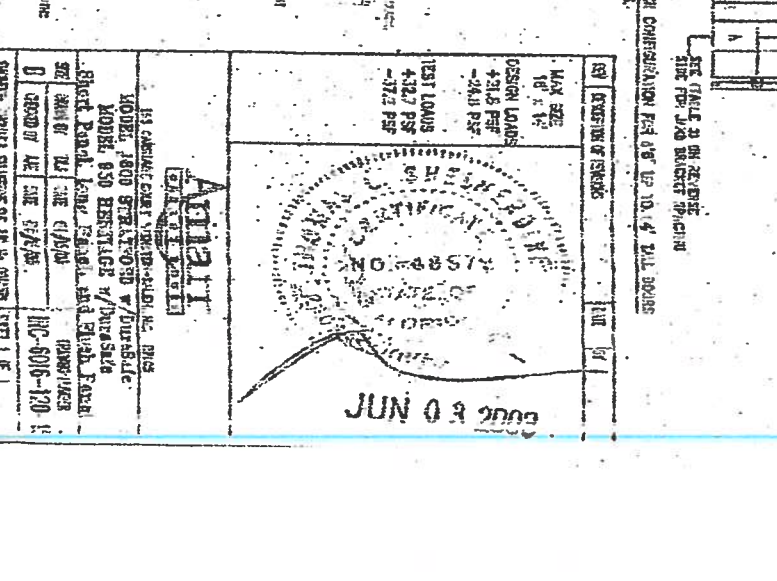
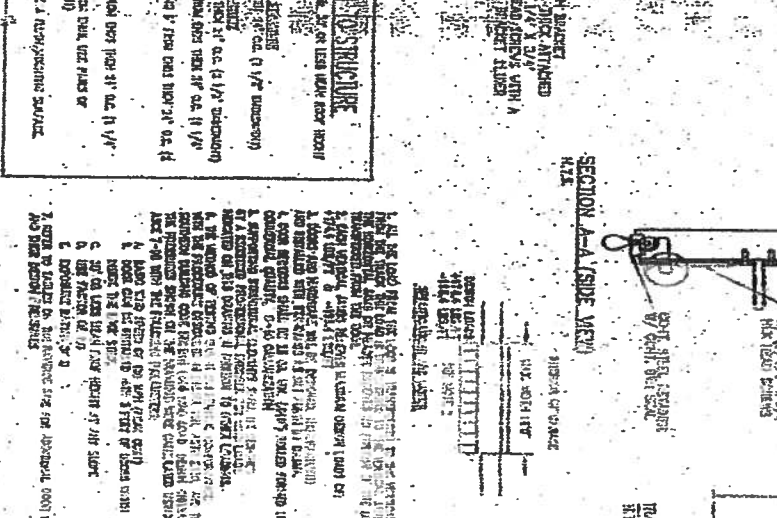
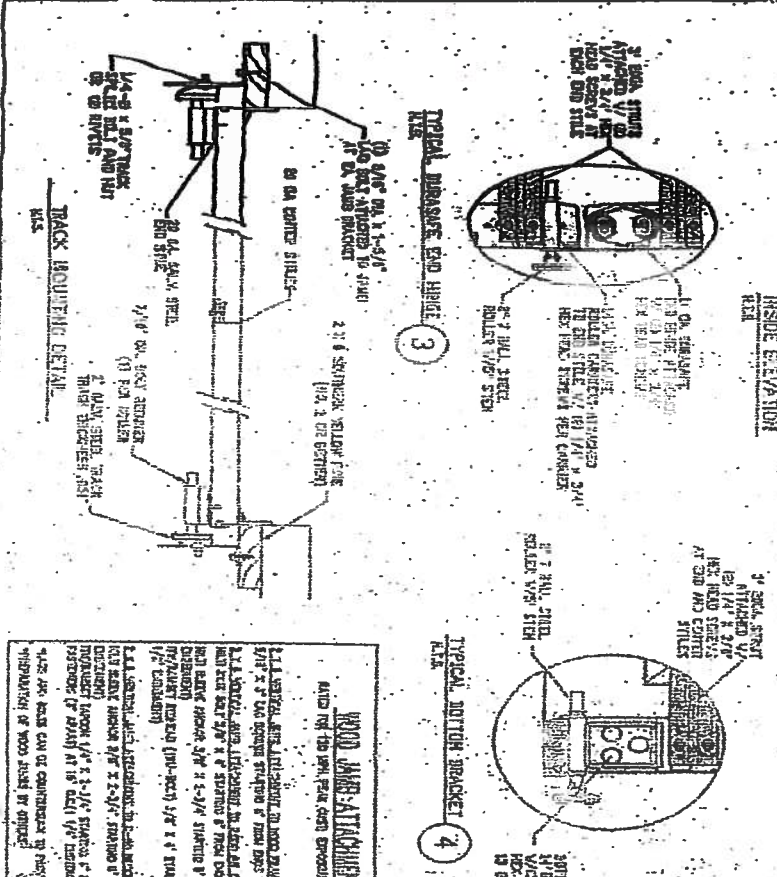
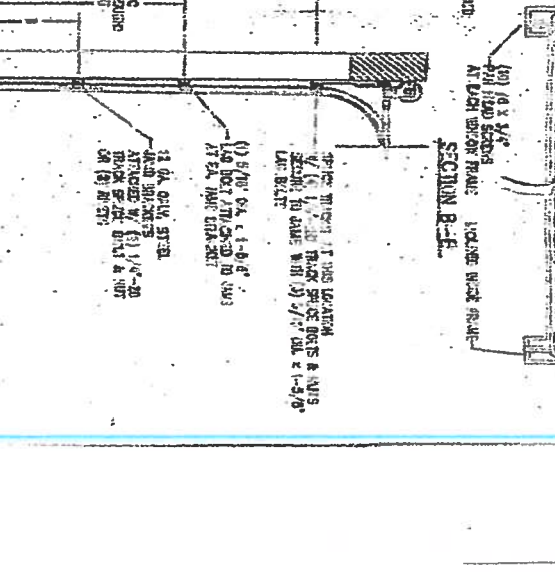
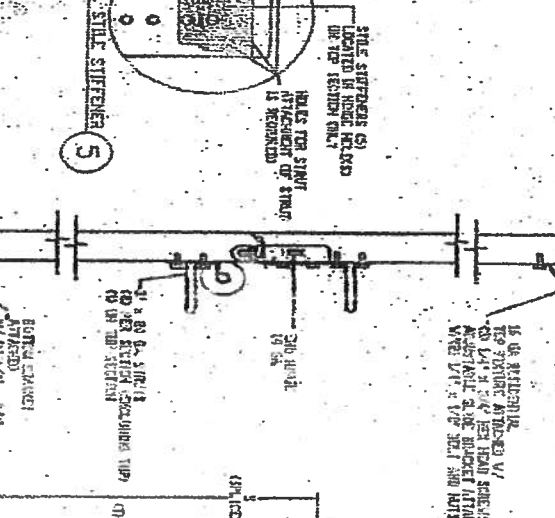
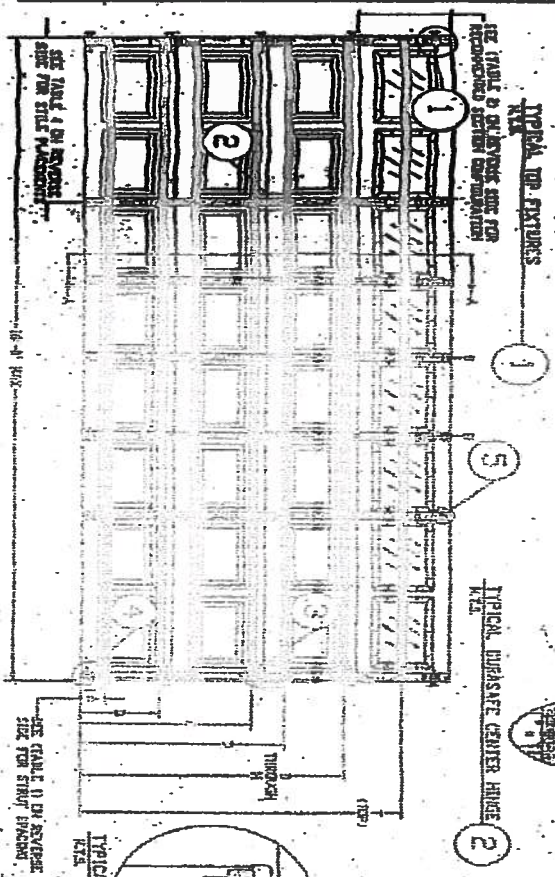
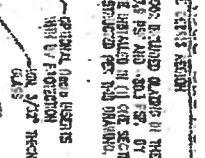
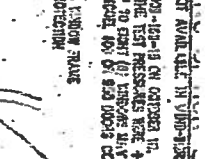
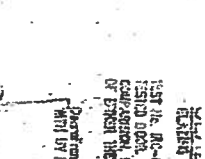
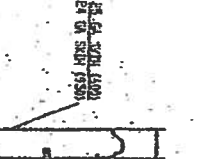
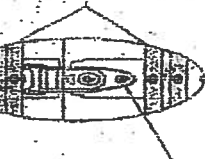
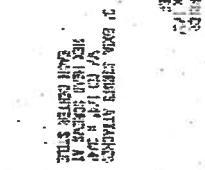
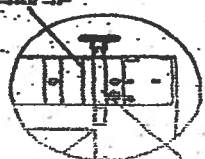
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TRACE COUNTING DETAIL
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Figure 1



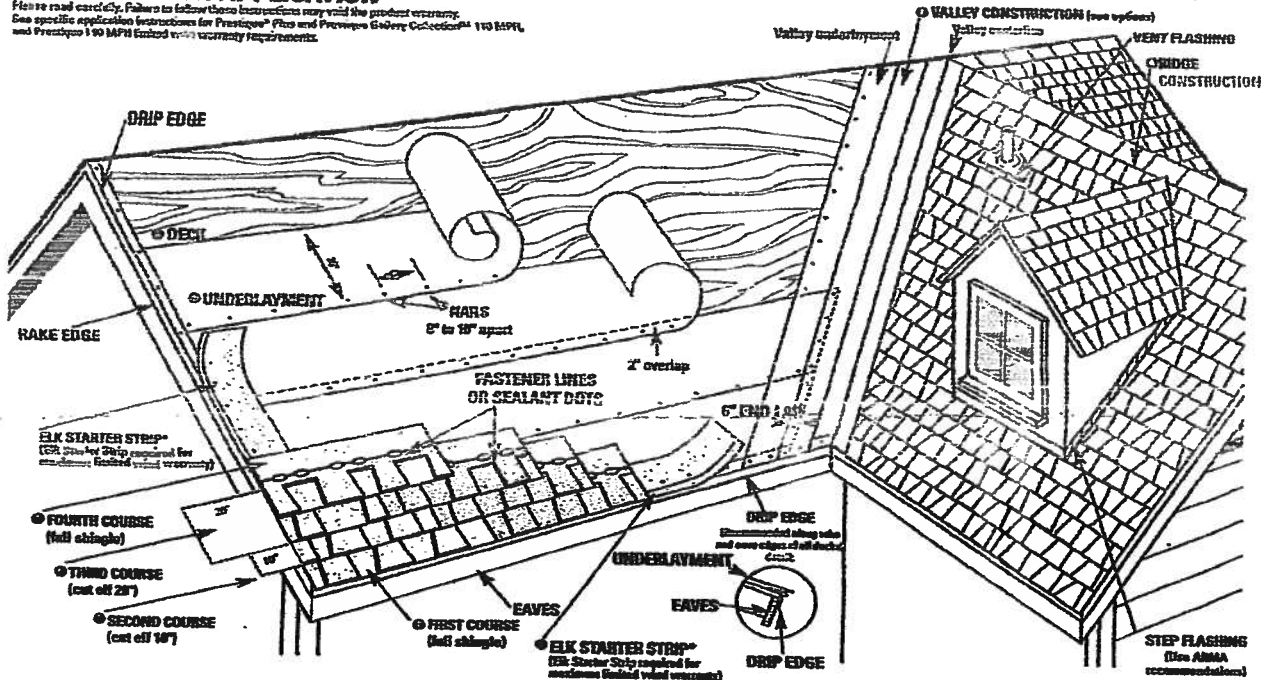
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1. TYPICAL TOP ELEVATION
2. TYPICAL RIBS/SAFE CENTER HINGE
3. TYPICAL RIBS/SAFE END HINGE
4. TYPICAL RIBS/SAFE CENTER HINGE
5. TYPICAL RIBS/SAFE END HINGE

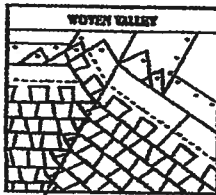
DIRECTIONS FOR APPLICATION

Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestige® Plus and Prestige Gallery Collection® 110 MPH and Prestige 130 MPH listed with warranty requirements.

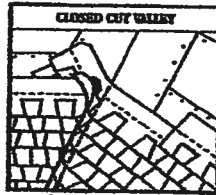
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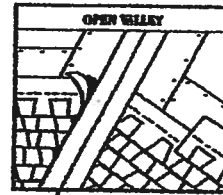
VALLEY CONSTRUCTION WITH OPTIONAL TYPED VALLEY FLASHING AND TYPED VALLEY FLASHING ARE ALSO AVAILABLE. NOTE: For complete ARMA valley installation details, see ARMA Ridge & Flashing Detail Manual.



VALLEY CENTER LINE



VALLEY CENTER LINE



VALLEY CENTER LINE

DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet ELK application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In those areas, the local code must be followed. Under no circumstances will ELK accept application requirements that are less than those stated here. Shingles should not be jammed tightly together. All shingles should be properly ventilated. Note: It is not necessary to remove tape on back of shingles.

DECK PREPARATION

Roof decks should be dry, well-ventilated 1" x 6" boards or exterior grade plywood minimum 5/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two pieces of underlayment overlapping a minimum of 18". Begin by fastening a 15" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the strip, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 2/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two pieces of underlayment from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the ELK Field Service Department for application specifications over other decks and other slopes.

STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A SHIP SHINGLE INVERTED WITH THE RAUFLAP APPLIED AT THE EAVE EDGE. With at least 4" overlap from the end of the shingle, start at the rake edge overlapping the eave 1/4" to 3/4". Fasten 2" from the lower edge and 1" from each side.

FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a corner alignment of 45° on the roof.

SECOND COURSE

Start at the rake with the shingle having 18" trimmed off and continue across roof with full shingles.

THIRD COURSE

Start at the rake with the shingle having 28" trimmed off and continue across roof with full shingles.

FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturers Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

RIDGE CONSTRUCTION

For ridge construction use Class "A" Self-A-Ridge™ with formula FLA™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for ELK shingles, ELK will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. ELK recommends 1-1/4" for dry roofs and 1-1/2" for roofs over. In areas where you are applying shingles to a roof that has an exposed underlayment, for new roofs only, 24" ring shank nails are allowed to be used from the eave edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 19/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouth appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" thick penetration or penetration through deck, whichever is less.

MISSED APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 6/12 (or 2/12) use six fasteners per shingle. Locate fasteners in the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots. The remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

For a Limited Wind Warranty, all Prestige and Refined Profile shingles must be applied with 4 properly placed fasteners, or in the case of missed applications, 6 properly placed fasteners per shingle.

For a Limited Wind Warranty up to 110 MPH for Prestige Gallery Collection or Prestige Plus or 90 MPH for Prestige I, shingles must be applied with 8 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, ELK Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestige Plus, Prestige Gallery Collection and Prestige I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the ELK Shingles or the ELK Starter Strip shingles be applied at the eaves or rake edge more than 3/4" of an inch.

HELP STOP BLOW-OFFS AND CALL-RACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along and through the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.

Shingle	Deck	Fasteners	Fasteners	Fasteners	Fasteners
CONCRETE	WOOD	WOOD	WOOD	WOOD	WOOD
Hand drive to install two fasteners per shingle.	Hand drive to install two fasteners per shingle.	Hand drive to install two fasteners per shingle.	Hand drive to install two fasteners per shingle.	Hand drive to install two fasteners per shingle.	Hand drive to install two fasteners per shingle.
Asphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles
Asphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles

Refer to local codes which in some areas may require specific application techniques beyond those ELK has specified. All Prestige and Refined Profile shingles have a UL60 Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALE: Complete and proper storage or handling can harm fiberglass shingles. Keep these shingles completely covered. Do not store near weather sources of heat. Do not store in direct sunlight and apply. DO NOT DOUBLE STACK. Systematically rotate all stock so that the top layer is moved out the fastest.

© 2002 ELK Corporation of Dallas.

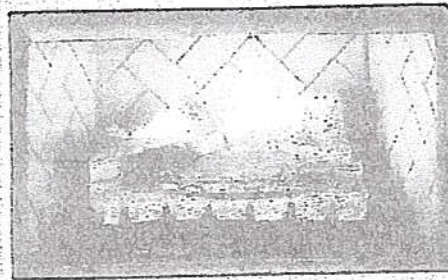
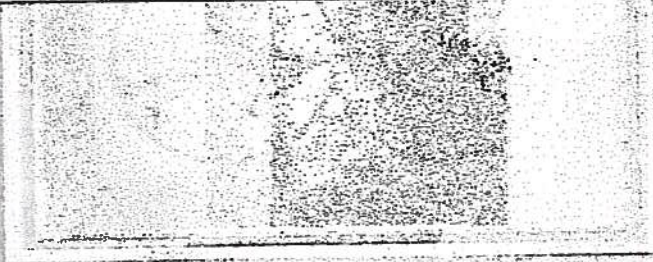
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ELK
www.elkcorp.com

THE RENAISSANCE SERIES

Colonial

VENT-FREE GAS FIREPLACES
V32/36/42/50 Model Series



FIREPLACES
FOR BUILDINGS

Fmi

Warm Up To A High-Efficiency Colonial

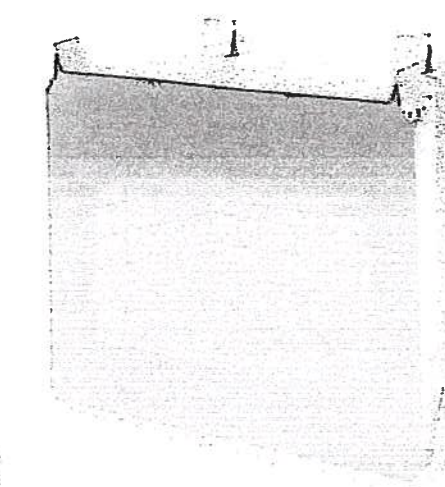
There's a growing demand for vent-free gas fireplaces because they're 99 percent energy-efficient and can be installed virtually anywhere. FMI's Colonial vent-free models deliver these benefits and more. They're part of our exciting new Renaissance Series, which offers a consistent look, sizing and construction across the entire line...plus beautiful new features homeowners will love!

Homeowner Highlights:

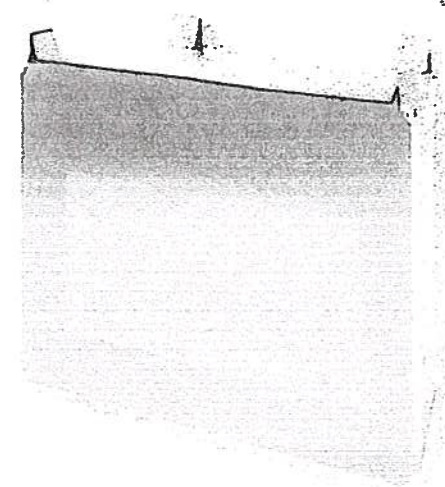
- **Visual appeal**—The industry's finest textured refractory brick liner (except 32") offers the attractive look of a true masonry fireplace.
- **Many luxury features are standard**—The Colonial comes standard with a heat deflection hood, hidden screen pockets (except 50"), stamped steel louvered panels, and other distinctive features.
- **Dollar-saving efficiency**—Paired with an FMI vent free gas log heater, the systems 99% energy efficiency can provide dramatic energy savings.

Builder Benefits:

- **Straight, secure installation**—We've added full-length nailing flanges, and drywall stops.
- **Flexibility in the field**—You can quickly convert from louvered to clean face at any time (except 50").
- **Economical and versatile**—There's no chimney required. Can be installed virtually anywhere.



V36 is our louver-faced 36" fireplace with textured refractory brick-lined interior.



V42 is FMI's 42" louver-faced fireplace shown with optional herringbone textured refractory brick-lined interior.

- 32", 36", 42" & 50" Vent-Free Fireplace Models Available With The Following:
- Clean or Louver (Circulating) Faced Models Available (Clean Faced only on 50")
 - Traditional Stacked and Herringbone Pattern Refractory Brick-Lined Interiors
 - Solid wrap or Outside Air Ready Models

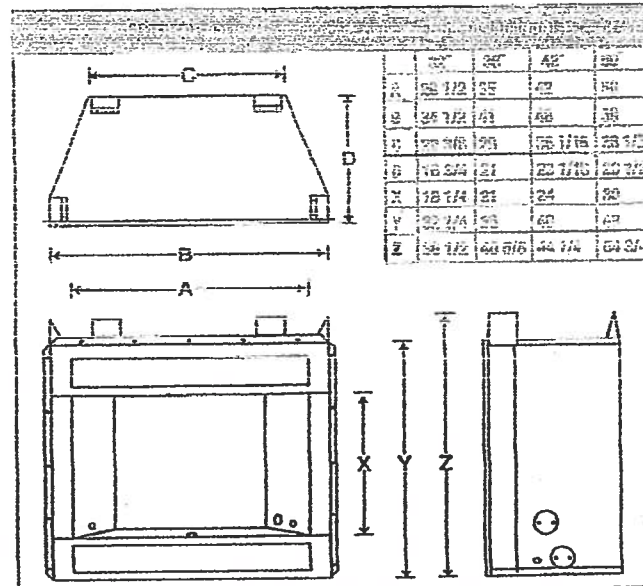


The Colonial features the industry's finest textured refractory brick lining.



You get straight, solid installation, thanks to our full-length nailing flanges and drywall stops.

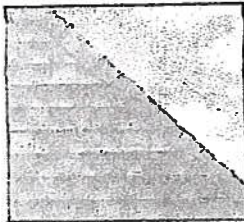
- Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Decorative Filigree Panels (Black, Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Heat Deflection Hoods (Brushed Brass & Platinum)
- Fan Kits
- Standard & Herringbone Refractory Brick Liners



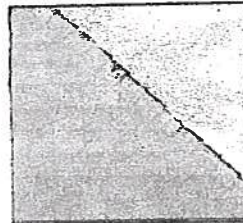
Fmi Hearth Industries
www.fmifireplace.com
For more information, call (866) 328-4537



ROOFING PRODUCTS SPECIFICATIONS - TUSCALOOSA, AL



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE™

Prestique Plus High Definition and Prestique Gallery Collection™

Product size **13⅝" x 39⅝"**
Exposure **5⅝"**
Pieces/Bundle **16**
Bundles/Square **4/98.5 sq.ft.**
Squares/Pallet **11**

50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Raised Profile

Product size **13⅝" x 39⅝"**
Exposure **5⅝"**
Pieces/Bundle **22**
Bundles/Square **3/100 sq.ft.**
Squares/Pallet **16**

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique High Definition

Product size **13⅝" x 39⅝"**
Exposure **5⅝"**
Pieces/Bundle **16**
Bundles/Square **4/98.5 sq.ft.**
Squares/Pallet **14**

40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™

Size: **12" x 12"**
Exposure: **6⅝"**
Pieces/Bundle: **45**
Coverage: **1 Bundle = 100 linear feet**

Prestique High Definition

Product size **13⅝" x 39⅝"**
Exposure **5⅝"**
Pieces/Bundle **22**
Bundles/Square **3/100 sq.ft.**
Squares/Pallet **16**

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakerwood, Settledwood, Hickory, Barkwood™, Forest Green, Wedgewood™, Birchwood™, Sandalwood, Gallery Collection: Balsam Forest®, Weathered Sage®, Sierra Sunset®.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 957) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3918, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Miami-Dade building code requirements.

* See actual limited warranty for details and conditions.
** See actual limited warranty for details and conditions.

SPECIFICATIONS

Scope: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula FLX.

All exposed metal surfaces (fasteners, vents, etc.) to be painted with matching Elk roof necessary paint.

Preparation of Deck: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood exposure 1 (rated sheathing) or (at least 3/4" (19.0mm) thick) conforming to the specifications of the American Plywood Association, #1B (11.97mm) oriented strandboard, or equivalent. Most fire-retardant plywood decks are NOT approved substitutes for Elk shingles. Consult Elk Field Service for application specifications over other decks and other climes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater, apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes 14" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm), use two piles of underlayment overlapped a minimum of 18". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Rose-Block plant. Hip and ridge type to be Seal-A-Ridge with formula FLX with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All

warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these areas, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CD format, call 800.945.5545 or e-mail specinfo@elkcorp.com.

SOUTHEAST &
ATLANTIC OFFICE:
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.com



ELK
www.elkcorp.com

HD SUPPLY LBM
6100 S.E. 68 TH STREET
OCALA, FL 34472
(352) 307-7600 Fax: (352) 307-8887

To:
CATALINA CASTSTONE

Reaction

Job Number: **J0700735**

Page: 1

Date: 10/16/07 09:56:37

Project: JOHN SMITH RES Block No:
Model: Lot No:

Contact: Site: Office:
Name: JOHN SMITH
Phone:
Fax:
Tentative Delivery Date:

Deliver To:
253 NW MELIANE WAY
LAKE CITY, FL 32055

Account No: 099322126
Designer: TWM
Salesperson: JOHN RUTLEDGE
Quote Number: B0700919
P.O. Number:

Profile:	Qty:	Truss Id:	Span:	Truss Type:	Top Pit. Height Bot. Pit.	Reactions:				
	1	1A 225 lbs. each	40-00-00	GABLE	3.00 07-04-13 3.00	Joint 2 -12.7 lbs. -145.1 lbs.	Joint 12 7.2 lbs. -214.3 lbs.	Joint 14 1947.2 lbs. -569.6 lbs.	Joint 20 2139.7 lbs. -576.5 lbs.	Joint 21 55.3 lbs. -75.2 lbs.
	12	1B 186 lbs. each	40-00-00	SPECIAL	3.00 07-08-07 3.00	Joint 2 -73.9 lbs. -229.1 lbs.	Joint 10 -46.2 lbs. -230.2 lbs.	Joint 12 2090.2 lbs. -593.0 lbs.	Joint 16 2090.2 lbs. -620.7 lbs.	
	1	1C 250 lbs. each	40-00-00	GABLE	3.00 07-04-13	Joint 2 222.3 lbs. -147.6 lbs.	Joint 12 226.1 lbs. -148.1 lbs.	Joint 14 52.5 lbs. -5.6 lbs.	Joint 15 1769.6 lbs. -477.9 lbs.	Joint 21 1776.3 lbs. -493.3 lbs.
	13	2A 175 lbs. each	34-00-00	PORCH	6.00 08-00-15	Joint 2 1382.2 lbs. -407.9 lbs.	Joint 9 213.9 lbs. -231.7 lbs.	Joint 11 1815.3 lbs. -537.7 lbs.		
	1	2B 181 lbs. each	34-00-00	GABLE	6.00 07-09-00	Joint 2 233.1 lbs. -99.5 lbs.	Joint 20 297.6 lbs. -145.7 lbs.	Joint 22 324.0 lbs. -78.5 lbs.	Joint 23 138.7 lbs. -58.0 lbs.	Joint 24 201.9 lbs. -63.1 lbs.
	9	3A 111 lbs. each	24-00-00	FAN	6.00 07-00-15	Joint 2 1235.7 lbs. -372.0 lbs.	Joint 6 1235.7 lbs. -372.0 lbs.			
	1	3B 130 lbs. each	24-00-00	GABLE	6.00 06-09-00	Joint 2 237.9 lbs. -108.7 lbs.	Joint 16 237.9 lbs. -124.7 lbs.	Joint 18 159.1 lbs. -26.9 lbs.	Joint 19 191.5 lbs. -82.6 lbs.	Joint 21 187.0 lbs. -76.7 lbs.

MISC. ITEMS @

Quantity: Description:
1 BCSI-BI SUMMARY

HD SUPPLY LBM
6100 S.E. 68 TH STREET
OCALA, FL 34472
(352) 307-7600 Fax: (352) 307-8887

Project: JOHN SMITH RES Block No:
Model: Lot No:

Contact: Site: Office:
Name: JOHN SMITH
Phone:
Fax:
Tentative Delivery Date:

To:
CATALINA CASTSTONE

Deliver To:
253 NW MELIANE WAY
LAKE CITY, FL 32055

Reaction

Job Number: **J0700735**

Page: 1

Date: 10/16/07 09:56:42

Account No: 099322126
Designer: TWM
Salesperson: JOHN RUTLEDGE
Quote Number: B0700919
P.O. Number:

Profile:	Qty:	Truss Id:	Span:	Truss Type:	Top Pit. Height Bot. Pit.	Reactions:				
	1	1A 225 lbs. each	40-00-00	GABLE	3.00 07-04-13 3.00	Joint 2 -12.7 lbs. -145.1 lbs.	Joint 12 7.2 lbs. -214.3 lbs.	Joint 14 1947.2 lbs. -569.6 lbs.	Joint 20 2139.7 lbs. -576.5 lbs.	Joint 21 55.3 lbs. -75.2 lbs.
	12	1B 186 lbs. each	40-00-00	SPECIAL	3.00 07-08-07 3.00	Joint 2 -73.9 lbs. -229.1 lbs.	Joint 10 -46.2 lbs. -230.2 lbs.	Joint 12 2090.2 lbs. -593.0 lbs.	Joint 16 2090.2 lbs. -620.7 lbs.	
	1	1C 250 lbs. each	40-00-00	GABLE	3.00 07-04-13	Joint 2 222.3 lbs. -147.6 lbs.	Joint 12 226.1 lbs. -148.1 lbs.	Joint 14 52.5 lbs. -5.6 lbs.	Joint 15 1769.6 lbs. -477.9 lbs.	Joint 21 1776.3 lbs. -493.3 lbs.
	13	2A 175 lbs. each	34-00-00	PORCH	6.00 08-00-15	Joint 2 1382.2 lbs. -407.9 lbs.	Joint 9 213.9 lbs. -231.7 lbs.	Joint 11 1815.3 lbs. -537.7 lbs.		
	1	2B 181 lbs. each	34-00-00	GABLE	6.00 07-09-00	Joint 2 233.1 lbs. -99.5 lbs.	Joint 20 297.6 lbs. -145.7 lbs.	Joint 22 324.0 lbs. -78.5 lbs.	Joint 23 138.7 lbs. -58.0 lbs.	Joint 24 201.9 lbs. -63.1 lbs.
	9	3A 111 lbs. each	24-00-00	FAN	6.00 07-00-15	Joint 2 1235.7 lbs. -372.0 lbs.	Joint 6 1235.7 lbs. -372.0 lbs.			
	1	3B 130 lbs. each	24-00-00	GABLE	6.00 06-09-00	Joint 2 237.9 lbs. -108.7 lbs.	Joint 16 237.9 lbs. -124.7 lbs.	Joint 18 159.1 lbs. -26.9 lbs.	Joint 19 191.5 lbs. -82.6 lbs.	Joint 21 187.0 lbs. -76.7 lbs.

MISC. ITEMS @

Quantity: Description:
1 BCSI-B1 SUMMARY

HD SUPPLY LBM
6100 S.E. 68 TH STREET
OCALA, FL 34472
(352) 307-7600 Fax: (352) 307-8887

To:
CATALINA CASTSTONE

Reaction

Job Number: **J0700735**

Page: **1**

Date: **10/16/07 09:56:44**

Project: JOHN SMITH RES Block No:
Model: Lot No:

Contact: Site: Office:
Name: JOHN SMITH
Phone:
Fax:
Tentative Delivery Date:

Deliver To:
253 NW MELIANE WAY

LAKE CITY, FL 32055

Account No: 099322126
Designer: TWM
Salesperson: JOHN RUTLEDGE
Quote Number: B0700919
P.O. Number:

Profile:	Qty:	Truss Id:	Span:	Truss Type:	Top Pit. Height Bot. Pit.	Reactions:				
	1	1A 225 lbs. each	40-00-00	GABLE	3.00 07-04-13 3.00	Joint 2 -12.7 lbs. -145.1 lbs.	Joint 12 7.2 lbs. -214.3 lbs.	Joint 14 1947.2 lbs. -569.6 lbs.	Joint 20 2139.7 lbs. -576.5 lbs.	Joint 21 55.3 lbs. -75.2 lbs.
	12	1B 186 lbs. each	40-00-00	SPECIAL	3.00 07-08-07 3.00	Joint 2 -73.9 lbs. -229.1 lbs.	Joint 10 -46.2 lbs. -230.2 lbs.	Joint 12 2090.2 lbs. -593.0 lbs.	Joint 16 2090.2 lbs. -620.7 lbs.	
	1	1C 250 lbs. each	40-00-00	GABLE	3.00 07-04-13	Joint 2 222.3 lbs. -147.6 lbs.	Joint 12 226.1 lbs. -148.1 lbs.	Joint 14 52.5 lbs. -5.6 lbs.	Joint 15 1769.6 lbs. -477.9 lbs.	Joint 21 1776.3 lbs. -493.3 lbs.
	13	2A 175 lbs. each	34-00-00	PORCH	6.00 08-00-15	Joint 2 1382.2 lbs. -407.9 lbs.	Joint 9 213.9 lbs. -231.7 lbs.	Joint 11 1815.3 lbs. -537.7 lbs.		
	1	2B 181 lbs. each	34-00-00	GABLE	6.00 07-09-00	Joint 2 233.1 lbs. -99.5 lbs.	Joint 20 297.6 lbs. -145.7 lbs.	Joint 22 324.0 lbs. -78.5 lbs.	Joint 23 138.7 lbs. -58.0 lbs.	Joint 24 201.9 lbs. -63.1 lbs.
	9	3A 111 lbs. each	24-00-00	FAN	6.00 07-00-15	Joint 2 1235.7 lbs. -372.0 lbs.	Joint 6 1235.7 lbs. -372.0 lbs.			
	1	3B 130 lbs. each	24-00-00	GABLE	6.00 06-09-00	Joint 2 237.9 lbs. -108.7 lbs.	Joint 16 237.9 lbs. -124.7 lbs.	Joint 18 159.1 lbs. -26.9 lbs.	Joint 19 191.5 lbs. -82.6 lbs.	Joint 21 187.0 lbs. -76.7 lbs.

MISC. ITEMS @

Quantity: Description:
1 BCSI-B1 SUMMARY



RE: J0700735 - JOHN SMITH RES

Site Information:

Project Customer: CATALINA CASTSTONE CREATIONS Project Name: JOHN SMITH RES

Lot/Block: Subdivision:

Address: 253 NW MELIANE WAY

City: LAKE CITY State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2004/TPI2002

Design Program: MiTek 20/20 7.0

Wind Code: ASCE 7-02 Wind Speed: 110 mph Floor Load: N/A psf

Roof Load: 47.0 psf

This package includes 7 individual, dated Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T2721935	1A	10/10/07
2	T2721936	1B	10/10/07
3	T2721937	1C	10/10/07
4	T2721938	2A	10/10/07
5	T2721939	2B	10/10/07
6	T2721940	3A	10/10/07
7	T2721941	3B	10/10/07

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

Truss Design Engineer's Name: Albani, Thomas

My license renewal date for the state of Florida is February 28, 2009.

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

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

Thomas Albani, FL Lic. #39380
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

October 10, 2007

DALLAS

TAMPA

FT. WORTH
Albani, Thomas

1 of 2

Job	Truss	Truss Type	Qty	Ply	JOHN SMITH RES	T2721935
J0700735	1A	ROOF TRUSS	1	1	Job Reference (optional)	

HD SUPPLY LBM, OCALA, FL.

7.010 s Sep 11 2007 MITek Industries, Inc. Wed Oct 10 09:14:10 2007 Page 1

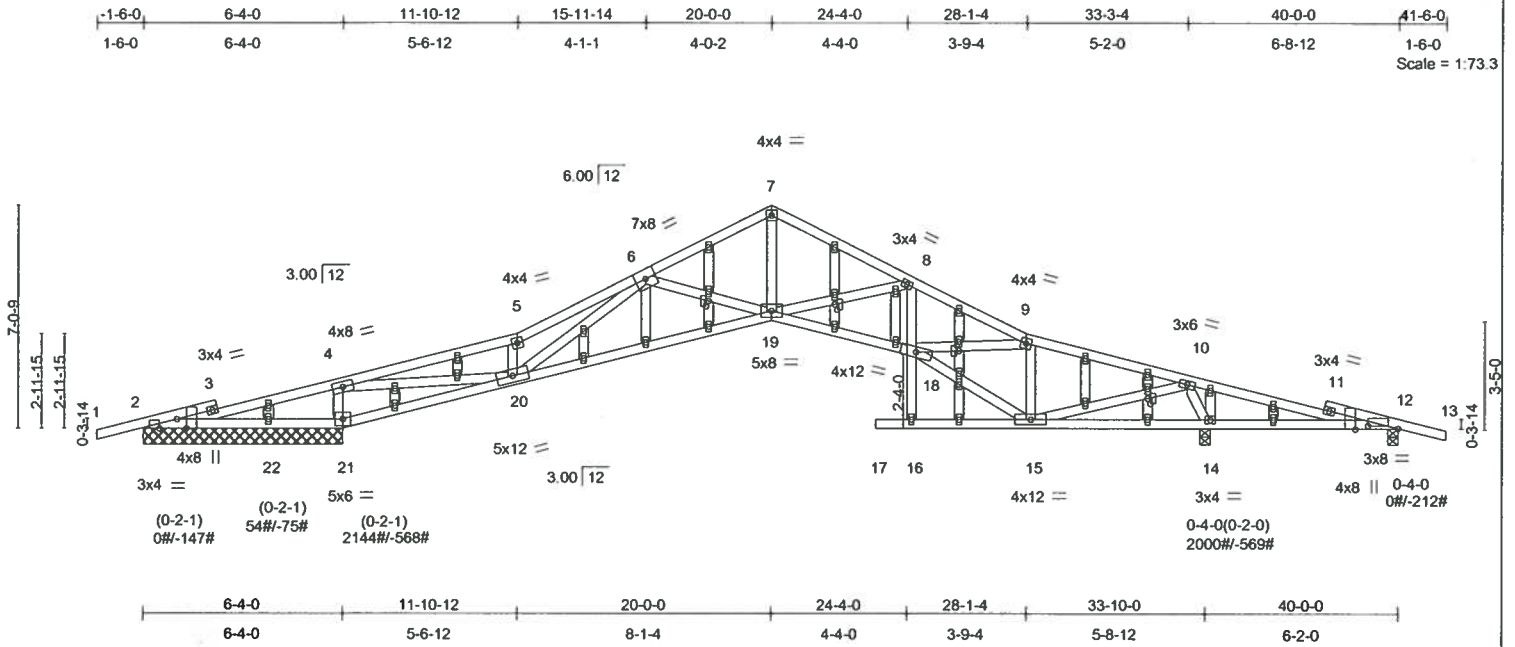


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-6-12,Edge], [12:0-11-12,0-1-0], [12:0-0-4,Edge], [23:0-2-0,0-1-0], [36:0-2-0,0-1-0], [40:0-2-0,0-1-0], [47:0-2-0,0-1-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.33	BC 0.67	Vert(LL) -0.28 19-20 >999 360		
BCLL 10.0	Lumber Increase 1.33	WB 0.71	Vert(TL) -0.66 19-20 >505 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.25 14 n/a n/a		
	Code FBC2004/TPI2002			Weight: 227 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins.
BOT CHORD 2 X 4 SYP No.2D *Except*	BOT CHORD Rigid ceiling directly applied or 4-0-3 oc bracing. Except:
8-16 2 X 4 SYP No.3	10-0-0 oc bracing: 16-18
WEBS	
2 X 4 SYP No.3 *Except*	
4-20 2 X 4 SYP No.2D	
OTHERS	
2 X 4 SYP No.3	

REACTIONS (lb/size) 2=-41/6-4-0, 12=-26/0-4-0, 21=2144/6-4-0, 14=2000/0-4-0, 22=-75/6-4-0
Max Horz 2=-108(LC 6)
Max Uplift 2=-147(LC 3), 12=-212(LC 4), 21=-568(LC 5), 14=-569(LC 6), 22=-75(LC 1)
Max Grav 21=2144(LC 1), 14=2000(LC 1), 22=54(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-524/2025, 3-4=-513/2096, 4-5=-2209/469, 5-6=-2504/639, 6-7=-2225/405, 7-8=-2233/415, 8-9=-2921/559,
9-10=-1306/335, 10-11=-437/2005, 11-12=-445/1930, 12-13=0/25
BOT CHORD 2-22=-1988/444, 21-22=-1988/444, 20-21=-2237/521, 19-20=-458/2358, 18-19=-332/2676, 16-18=0/122, 8-18=-18/224,
16-17=0/0, 15-16=-15/63, 14-15=-1064/262, 12-14=-1898/475
WEBS 4-21=-1400/446, 4-20=-936/4234, 5-20=-893/347, 6-20=-132/83, 6-19=-346/271, 7-19=-227/1598, 8-19=-675/316,
15-18=-240/1457, 9-18=-157/1270, 9-15=-1379/326, 10-15=-448/2368, 10-14=-2017/589

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone; porch right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2, 212 lb uplift at joint 12, 568 lb uplift at joint 21, 569 lb uplift at joint 14 and 75 lb uplift at joint 22.

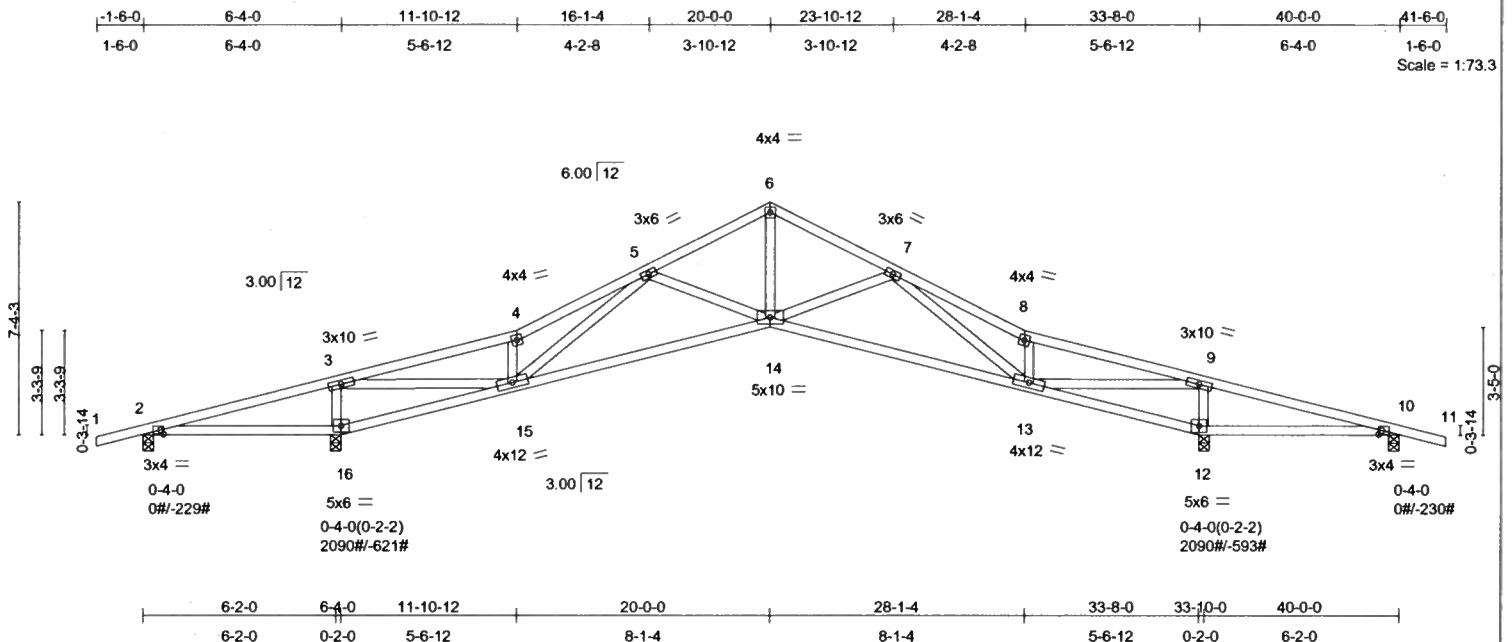
LOAD CASE(S) Standard

Handwritten signature

Thomas Albani, FL Lic. #39380
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

October 10, 2007

Job	Truss	Truss Type	Qty	Ply	JOHN SMITH RES	T2721936
J0700735	1B	ROOF TRUSS	12	1	Job Reference (optional)	



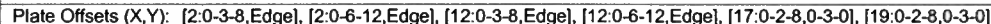
LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 30.0	Plates Increase 1.33	TC 0.70	Vert(LL) -0.21 14-15 >999 360	MT20	244/190
TCDL 7.0	Lumber Increase 1.33	BC 0.53	Vert(TL) -0.47 14-15 >697 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.55	Horz(TL) 0.19 12 n/a n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)		Weight: 186 lb	

REACTIONS (lb/size) 2=-103/0-4-0, 16=2090/0-4-0, 12=2090/0-4-0, 10=-103/0-4-0
Max Horz 2=-112(LC 6)
Max Uplift2=-229(LC 3), 16=-621(LC 5), 12=-593(LC 6), 10=-230(LC 4)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED ROBBINS REFERENCE PAGE RE10-10-06 BEFORE USE.

Design valid for use only with MiteK or Robbins connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BC311 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2D	TOP CHORD	Structural wood sheathing directly applied or 4-1-8 oc purlins.
BOT CHORD	2 X 4 SYP No.2D	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS	2 X 4 SYP No.3		10-0-0 oc bracing: 18-20,16-18.
OTHERS	2 X 4 SYP No.3		

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD
 1-2=0/25, 2-3=-216/545, 3-4=-206/612, 4-5=-2140/487, 5-6=-2390/653, 6-7=-1496/427, 7-8=-1505/411, 8-9=-2377/668,
 9-10=-2139/511, 10-11=-137/588, 11-12=-146/522, 12-13=0/25
BOT CHORD
 2-22=-540/211, 21-22=-540/211, 20-21=-540/211, 19-20=-318/1576, 18-19=-318/1576, 17-18=-268/1627, 16-17=-268/1627,
 15-16=-517/181, 14-15=-517/181, 12-14=-517/181
WEBS
 4-21=-1620/512, 4-20=-614/2608, 5-20=-911/375, 6-20=-237/711, 6-18=-507/260, 7-18=-249/1005, 8-18=-523/268,
 8-16=-224/657, 9-16=-882/361, 10-16=-568/2583, 10-15=-1616/498

- 1) This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf, BCDL=5.0psf, Category II, Exp B, enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2'-0" oc.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2, 148 lb uplift at joint 12, 493 lb uplift at joint 21, 478 lb uplift at joint 15, 7 lb uplift at joint 22 and 6 lb uplift at joint 14.

LOAD CASE(S) Standard

Thomas Albani, FL Lic. #39380
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

October 10, 2007

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED ROBBINS REFERENCE PAGE RE10-10-06 BEFORE USE.

Design valid for use only with Mitek or Robbins connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BC311 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



6904 Parke East Blvd.
Tampa, FL 33610

**6904 Parke East Blvd.
Tampa, FL 33610**

Job J0700735	Truss 2B	Truss Type ROOF TRUSS	Qty 1	Ply 1	JOHN SMITH RES	T2721939
Job Reference (optional)						

HD SUPPLY LBM, OCALA, FL.

7.010 s Sep 11 2007 MiTek Industries, Inc. Wed Oct 10 09:14:14 2007 Page 1

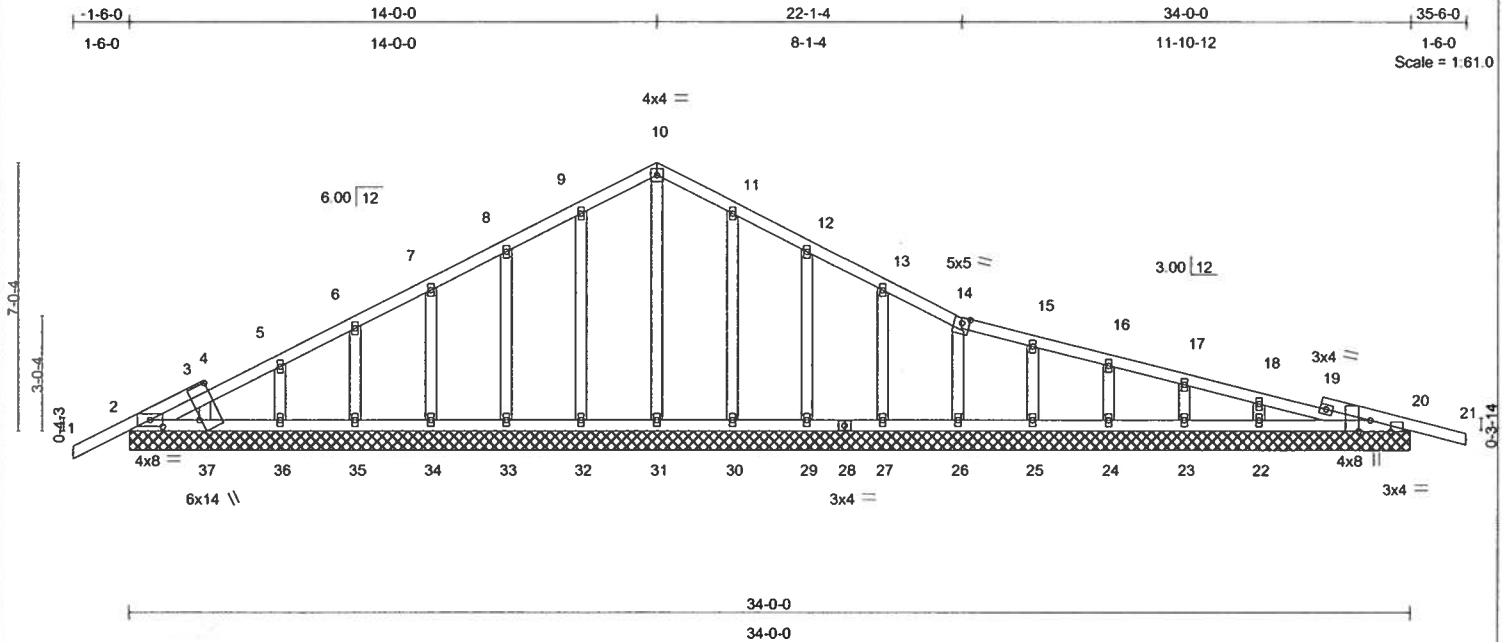


Plate Offsets (X,Y): [2:0-4-0,0-2-1], [14:0-2-8,0-1-10], [20:0-6-12,Edge], [20:0-3-8,Edge], [37:Edge,0-6-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plates Increase	1.33	TC 0.15	Vert(LL)	0.00	21	n/r	180	MT20
TCDL 7.0	Lumber Increase	1.33	BC 0.08	Vert(TL)	0.00	21	n/r	120	244/190
BCLL 10.0	Rep Stress Incr	NO	WB 0.12	Horz(TL)	0.01	20	n/a	n/a	
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)						Weight: 182 lb

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

REACTIONS (lb/size) 2=233/34-0-0, 20=298/34-0-0, 31=186/34-0-0, 32=189/34-0-0, 33=188/34-0-0, 34=188/34-0-0, 35=187/34-0-0, 36=191/34-0-0, 37=158/34-0-0, 30=189/34-0-0, 29=187/34-0-0, 27=193/34-0-0, 26=188/34-0-0, 25=179/34-0-0, 24=202/34-0-0, 23=139/34-0-0, 22=324/34-0-0
Max Horz 2=131(LC 5)
Max Uplift 2=99(LC 5), 20=-146(LC 4), 32=-71(LC 5), 33=-82(LC 5), 34=-78(LC 5), 35=-78(LC 5), 36=-80(LC 5), 37=-30(LC 6), 30=-68(LC 6), 29=-82(LC 6), 27=-82(LC 6), 26=-76(LC 6), 25=-62(LC 4), 24=-63(LC 6), 23=-58(LC 6), 22=-78(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-128/48, 3-4=-87/39, 4-5=-105/55, 5-6=-55/78, 6-7=-34/114, 7-8=-34/149, 8-9=-34/187, 9-10=-34/217, 10-11=-34/210, 11-12=-34/163, 12-13=-35/110, 13-14=-35/88, 14-15=-23/64, 15-16=-25/40, 16-17=-31/16, 17-18=-52/5, 18-19=-81/29, 19-20=-84/0, 20-21=0/25
BOT CHORD 2-37=-2/122, 36-37=-2/122, 35-36=-2/122, 34-35=-2/122, 33-34=-2/122, 32-33=-2/122, 31-32=-2/122, 30-31=-2/122, 29-30=-2/122, 28-29=-2/122, 27-28=-2/122, 26-27=-2/122, 25-26=-0/118, 24-25=-0/118, 23-24=-0/118, 22-23=-0/118, 20-22=-0/118
WEBS 10-31=-146/0, 9-32=-149/91, 8-33=-148/102, 7-34=-148/98, 6-35=-148/99, 5-36=-149/97, 3-37=-126/54, 11-30=-149/88, 12-29=-147/102, 13-27=-154/102, 14-26=-148/97, 15-25=-140/82, 16-24=-158/85, 17-23=-115/72, 18-22=-247/112

- NOTES**
- 1) This truss has been checked for uniform roof live load only, except as noted.
 - 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33.
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail".
 - 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2, 146 lb uplift at joint 20, 71 lb uplift at joint 32, 82 lb uplift at joint 33, 78 lb uplift at joint 34, 78 lb uplift at joint 35, 80 lb uplift at joint 36, 30 lb uplift at joint 37, 68 lb uplift at joint 30, 82 lb uplift at joint 29, 82 lb uplift at joint 27, 76 lb uplift at joint 26, 62 lb uplift at joint 25, 63 lb uplift at joint 24, 58 lb uplift at joint 23 and 78 lb uplift at joint 22.

LOAD CASE(S) Standard

Thomas Albani

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Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert #5555

October 10, 2007

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED ROBBINS REFERENCE PAGE RE10-10-06 BEFORE USE.
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Robbins
Engineering, Inc.

6904 Parke East Blvd.
Tampa, FL 33610

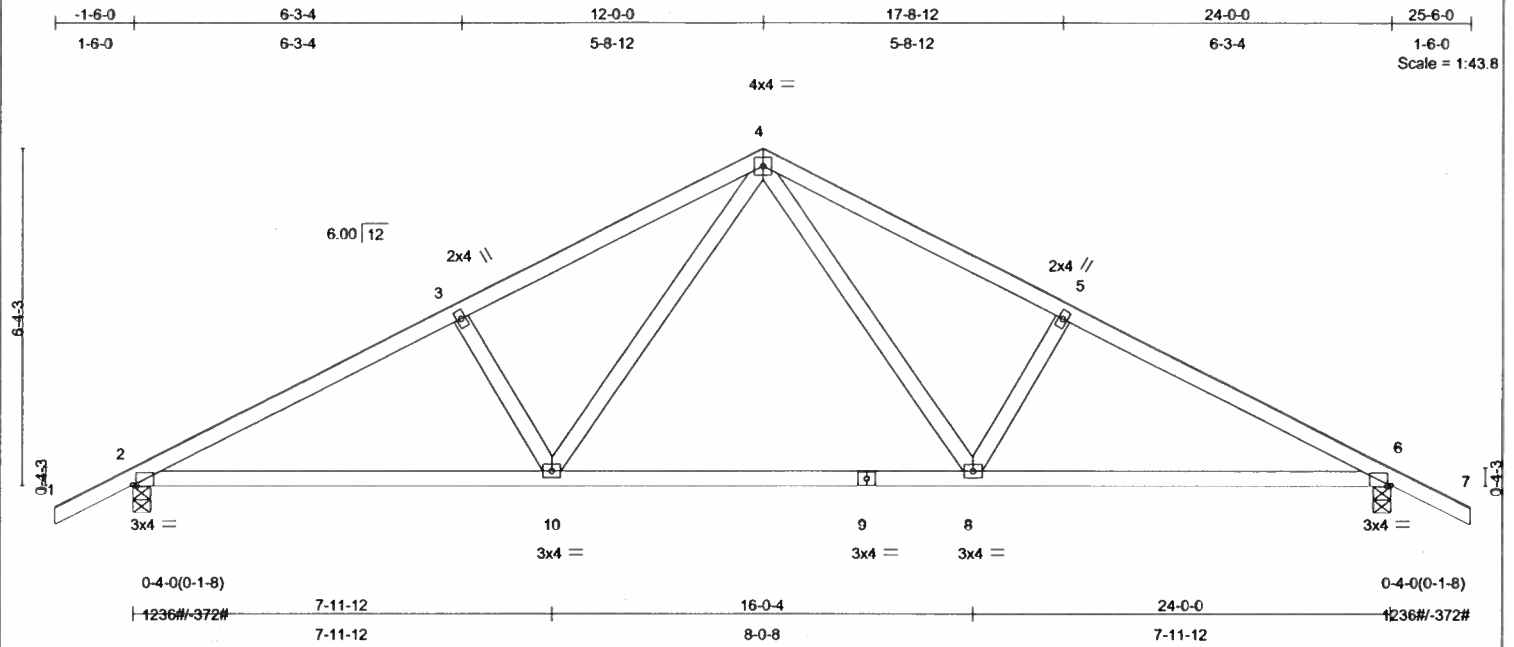


Plate Offsets (X,Y): [2'-0"-0'-12,0'-0-2], [6'-0"-0'-12,0'-0-2]

LOADING (psf)	SPACING	2'-0"-0'	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plates Increase	1.33	TC 0.30	Vert(LL)	-0.08	6-8	>999	360	MT20
TCDL 7.0	Lumber Increase	1.33	BC 0.47	Vert(TL)	-0.22	6-8	>999	180	244/190
BCLL 10.0	Rep Stress Incr	NO	WB 0.18	Horz(TL)	0.05	6	n/a	n/a	
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 112 lb

LUMBER

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

BRACING

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

REACTIONS (lb/size) 2=1236/0-4-0, 6=1236/0-4-0
Max Horz 2=-112(LC 6)
Max Uplift 2=-372(LC 5), 6=-372(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/48, 2-3=-1928/452, 3-4=-1705/462, 4-5=-1705/463, 5-6=-1928/453, 6-7=0/48
BOT CHORD 2-10=-385/1627, 9-10=-159/1098, 8-9=-159/1098, 6-8=-276/1627
WEBS 3-10=-385/260, 4-10=-176/611, 4-8=-176/611, 5-8=-385/260

NOTES

- 1) This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33.
- 3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 2 and 372 lb uplift at joint 6.

LOAD CASE(S) Standard

Thomas Albani, FL Lic. #39380
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert #5555

October 10, 2007

Job	Truss	Truss Type	Qty	Ply	JOHN SMITH RES	T2721941
J0700735	3B	ROOF TRUSS	1	1	Job Reference (optional)	

HD SUPPLY LBM, OCALA, FL.

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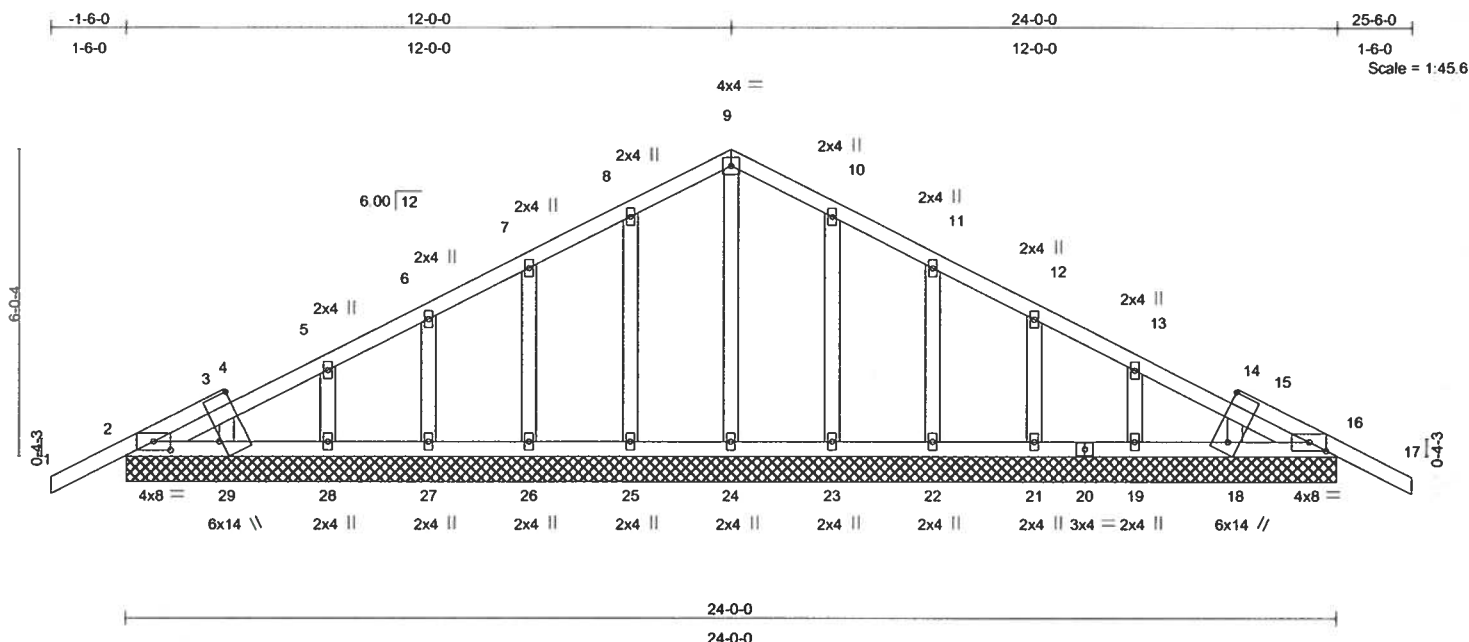


Plate Offsets (X,Y): [2:0-4-0,0-2-1], [16:0-4-0,0-2-1], [18:Edge,0-3-6], [29:Edge,0-6-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plates Increase	1.33	TC 0.15	Vert(LL)	0.00	16	n/r	180	MT20	244/190
TCDL 7.0	Lumber Increase	1.33	BC 0.04	Vert(TL)	-0.00	17	n/r	120		
BCLL 10.0	Rep Stress Incr	NO	WB 0.08	Horz(TL)	0.00	16	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 131 lb	

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

REACTIONS (lb/size) 2=238/24-0-0, 16=238/24-0-0, 24=175/24-0-0, 25=188/24-0-0, 26=188/24-0-0, 27=187/24-0-0, 28=191/24-0-0, 29=159/24-0-0, 23=188/24-0-0, 22=188/24-0-0, 21=187/24-0-0, 19=191/24-0-0, 18=159/24-0-0
 Max Horz 2=108(LC 5)
 Max Uplift 2=-109(LC 5), 16=-125(LC 6), 25=-73(LC 5), 26=-81(LC 5), 27=-77(LC 5), 28=-81(LC 5), 29=-31(LC 6), 23=-71(LC 6), 22=-82(LC 6), 21=-77(LC 6), 19=-83(LC 6), 18=-27(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/48, 2-3=-102/39, 3-4=-73/32, 4-5=-79/47, 5-6=-48/82, 6-7=-48/118, 7-8=-48/155, 8-9=-48/186, 9-10=-48/180, 10-11=-48/131, 11-12=-48/78, 12-13=-48/35, 13-14=-43/19, 14-15=-48/32, 15-16=-57/8, 16-17=0/48
 BOT CHORD 2-29=0/127, 28-29=0/127, 27-28=0/127, 26-27=0/127, 25-26=0/127, 24-25=0/127, 23-24=0/127, 22-23=0/127, 21-22=0/127, 20-21=0/127, 19-20=0/127, 18-19=0/127, 16-18=0/127
 WEBS 9-24=-135/0, 8-25=-148/93, 7-26=-148/101, 6-27=-148/98, 5-28=-149/98, 3-29=-127/54, 10-23=-148/91, 11-22=-148/102, 12-21=-148/97, 13-19=-149/100, 15-18=-127/57

- NOTES**
- 1) This truss has been checked for uniform roof live load only, except as noted.
 - 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33.
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail".
 - 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2'-0" oc.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2, 125 lb uplift at joint 16, 73 lb uplift at joint 25, 81 lb uplift at joint 26, 77 lb uplift at joint 27, 81 lb uplift at joint 28, 31 lb uplift at joint 29, 71 lb uplift at joint 23, 81 lb uplift at joint 22, 77 lb uplift at joint 21, 83 lb uplift at joint 19 and 27 lb uplift at joint 18.

LOAD CASE(S) Standard

Thomas Albani, FL Lic. #39380
 Robbins Engineering
 6904 Parke East Blvd
 Tampa, FL, 33610
 FL Cert.#5555

October 10, 2007

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6904 Parke East Blvd.
 Tampa, FL 33610



26084

6100 SE 68th ST. OCALA 34412
Phone: (352) 307-7600 Fax: (352) 307-8887

1. Client to provide overall placement plan including foundation, roof and ceiling conditions, (top chord size, opening / cantilever length, height, bearing & non-bearing wall locations and heights).
2. Client to review entry and / or other conditions that require cantilevering of posts, overhangs or cantilevers to ensure proper truss design.
3. Client to review ALL conditions such as, hang from ceiling, recessed into ceiling or attic mounted. It is the client's responsibility to inform truss plant of locations, size, and weights.
4. Client to provide special conditions such as, beam loads, framed wall loads and stylo locations to ensure proper truss design / placement.
5. Ceiling drops and soffits not shown are to be field framed by client.
6. Hip and corner joints not cut are to be cut in the field by others.
7. Overhangs are 24' or 26', no blocking is applied.
8. Overhangs are considered field, cut to fit in field.
9. Temporary or permanent bracing is not included in truss package.
10. Expect trusses per 188-91 Summary Sheet. Prior to erecting trusses refer to solid truss engineering sheets for additional important info.
11. It is the client's responsibility to coordinate delivery dates with truss plant. Truss delivery will be on the open end date with truss plant.
12. Client to provide a detailed location for delivery. Location must be accessible from all directions and trusses must be delivered to the truss plant. Trusses will be delivered to the best available location if no other's direction. No changes will be accepted if above criteria is not met.
13. All types reports must be generated by the truss plant. By HOB. Out Any issues before connecting truss plant with specific of problem.
14. No load changes or cross changes of any kind will be accepted unless specifically approved in writing by truss plant management.

CLIENT APPROVAL

Loading: 47 # per STRINGS: 30 TOL. 7 TOL. 0 BCL. 10 BCL.

DESIGN CRITERIA	
LC Pitch: 6/12 & 5/12	Wind Code: AWS / ASCE 7-02
LC Pitch: 5/12	Design Method: AWS / ASCE 7-02
LC Size: 2x4	Wind Speed: 110 mph / Exp B
Heat Htg & 0-3-14	Mean Htg: 15' Min.
Bearing: 0-4-0	Building Ctl: 1
Overhang: 1-6-0	Importance Factor: 1.15
DL, CL: 2x 6, 0.C.	Endurance: Enclosed
Spacing: 24' O.C.	
Lumber: SLP	

HANGERS
NONE

BRC. SCHEDULE
8'-0" BRC. HT.

NOTES
All Bearing Heights Above Finished Floor

CLIENT INFO.
Client: CATALINA CAST STONE
Project: SMNH RES

REV.
Date: 0/0/00
Drawn By: TMS
Scale: 1/4" = 1'-0"
Sheet: 1 of 1
Cox Job # 307-735



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

1. Client to review overall placement plan including dimensions, roof and eaves, chimneys, cupolas, etc., overhangs / cantilever / overhangs and height, bearing a non-boring and footcords on heights.
2. Client to review entry and / or other conditions that require outlining of posts, overhangs or cantilevers to ensure proper truss design.
3. Client to review A/E/C conditions such as, hanging from ceiling, truss design, roof pitch, etc. (The contractor is not responsible to determine types of footcords, size, and weight).
4. Client to review special conditions such as beams (loads, dropped soffits, beams or split footcords) to ensure proper truss design / placement.
5. Ceiling drops and ceiling not shown are to be field framed by client.
6. Hip and corner jobs not cut are to be cut in the field by others.
7. Overhangs are 2x4 or 2x6, no blocking is applied.
8. Overhangs are considered eak, cut to fit in field.
9. Temporary or permanent bracing is not included in truss package.
10. Temporary per 1889-01 Summary Sheet. Prior to creating trusses Client to provide truss engineering sheets for obtained important this.
11. It is the client's responsibility to coordinate delivery dates with truss plant. Truss delivery will be on the agreed upon date with truss plant.
12. Client to provide a detailed location for delivery. Location may be accessible, road and clear of impediments and obstructions. In lieu of this, truss will be delivered in the best possible location of your given address. No changes will be accepted if above criteria is not met.
13. All truss material used to be completed after the truss plant. Do Not Obstruct any truss before contacting truss plant with specifics of problem.
14. No load changes or gross changes of any kind will be accepted unless specifically approved in writing by truss plant management.

Loading: 47 # post STAINLESS .30 TBL. 7 TOL. 0 BOL. 10 BOL.	Wind Code : ANSI / ASCE 7-02 Design Method : MFRS / ISCE 7-02 Wind Speed : 110 mph / Exp8 Mean Hgt. : 15' Ht. Building Cat. : II Importance Factor : 1.15 Exposure : Exposed
E.C. Pitch : 6/12 & V/12 E.C. Pitch : 3/12 E.C. Slope : 24 Wind Hgt. & : 0-1-14 Roofing : 0-1-0 Siding : 1-4-0 Oil Coat : Paint Spacing : 24" O.C. Limited : SP	
HANGERS	
NONE	
BRG. SCHEDULE	
☐ 6" Ø BRG. HT.	
ALL Beating Heights Above Finished Floor	
NOTES	
Client : CATANAN CAST STONE Project : SOUTH RES	
REV.	
Date : 6/26/07 Revised : Sheet # 1 of 1	Scale : MTS Drawn By : RUDYJA COX 060 # 007-735



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

- CLIENT APPROVAL**
- | | |
|-----|---|
| 1. | Client to require master placement plan including dimensions, type of ceiling construction, floor coverings, wall coverings, window coverings, lighting, heating & non-heating wall locations and heights. |
| 2. | Client to require entry and / or other conditions that require contents of products, warranties or conditions to ensure proper virus design. |
| 3. | Client to require AHJ confirms such as, client from ceiling, measured wall ceiling or other, rendering it is the client's responsibility to inform them point of location, size, and height. |
| 4. | Client to require specific construction, such as down look, dropped ceiling hood and style locations to ensure proper virus design / placement. |
| 5. | Ceiling drops and whips not shown are to be field framed by client. |
| 6. | Hip and corner joints not cut are to be cut in the field by others. |
| 7. | Overhangs are 2'4" or 2'6", no blocking is applied. |
| 8. | Overhangs are connected with, cut to fit in field. |
| 9. | Temporary or permanent bracing is not included in virus package. |
| 10. | Equal husses per IMB-91 Engineering Steel. Prior to installing husses refer to posted virus spanning sheets for additional important info. |
| 11. | It is the client's responsibility to coordinate delivery dates with virus point. Virus delivery will be on the agreed upon date with virus point. |
| 12. | Client is providing a reasonable time for delivery. Location and time of delivery will depend on the number of materials and location of the virus point. It will be the client's responsibility to ensure that the virus point will be delivered in the next available location of our delivery location. No charges will be accepted above criteria is not met. |
| 13. | All virus reports must be coordinated with the virus point. By Not OADR virus reports conflicting from virus point with specifics of problem. |
| 14. | No back charges or cream charges of any kind will be accepted unless specifically approved in writing by virus point management. |

DESIGN CRITERIA		Loading : 47 psi; SAMPLES : 30 TOLL, 7 TOLL, 0 BOLL, 10 BOLL	
P.C. Pitch : 1/2" & 3/2"	Weld Code : AWS / SGC 7-40		
B.C. Pitch : 1/2"	Welds / ASCE 7-40		
T.C. Size : 3/4"	Weld Speed : 110 mm / Exp		
Weld Hgt. & 0-3/4"	Weld Hgt. : 1/2 in.		
Beveling : 0-3/4"	Welding Tech : 1/5		
Overhang : 1-6"	Importance Factor : 1.15		
U.H. Coll. : 1/2"	Endurance : Endured		
Spacing : 1/2"			
Turner : 3/8"			

NOTE

8-0 BKG. HT.

All Bearing Heights Above Finished Floor

[illegible]