Columbia County Building Permit Application

For Office Use Only Application # 0709-59 Date Received 9/20/07 By G Permit # 26299

Application Approved by - Zoning Official BLK Date 28.09.07 Plans Examiner OK TIM Date 9-25-07

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

Comments

☒ NOC ☐ EH ☐ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Fax 752-2282

Name Authorized Person Signing Permit Linda or Melanie Roder Phone 752-2281

Address 387 SW Kempt Lake City, FL 32024

Owner's Name Earl & Barbara Fulton Phone 954-680-4222

911 Address 149 SW Blanton LN Lake City FL 32024

Contractors Name Josh Sparks of Sparks Contractors Phone 623-0575

Address POB 1479 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address NA

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

Property ID Number 14-4S-15-00363-207 Estimated Cost of Construction 350K

Subdivision Name Pinemount Meadows Lot 7 Block Unit Phase

Driving Directions Hwy 90 West, Lon County Road 252, Lon 27th, Lon Weirsdale to end, Lon Bumstead, Ron Blanton, to end on L (Lot is 10th down on L)

Type of Construction SFD Number of Existing Dwellings on Property barn

Total Acreage 5 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 75' Side 124' Side 124' Rear 423'

Total Building Height 23-8 Number of Stories 2 Heated Floor Area 3632 3,100 TOTAL 6129 Roof Pitch 12-12

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

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

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

Owner Builder or Authorized Person by Notarized Letter

X Josh Sparks
Contractor Signature
Contractors License Number CBC1252260
Competency Card Number
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

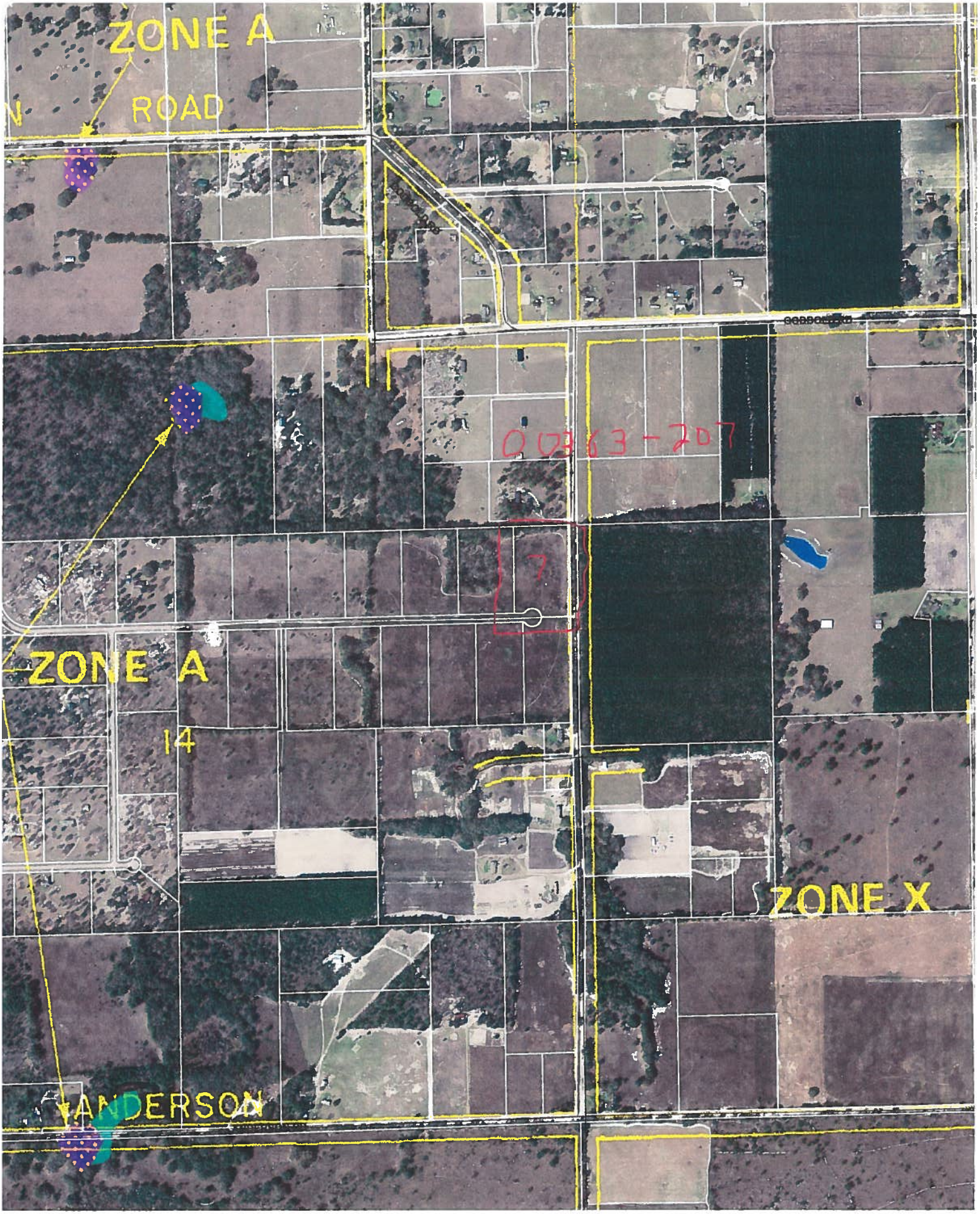
Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru Atlantic Bonding Co., Inc

Sworn to (or affirmed) and subscribed before me this _____ day of _____ 20____.

Personally known ____ or Produced Identification ____

Linda R. Roder
Notary Signature

(Revised Sept. 2006)


ZONE A
ROAD
ZONE A
14
ZONE X
ANDERSON

OFFICIAL RECORDS BOOK/PAGE #'s

"PINEMOUNT MEADOWS"

IN SECTION 14, TOWNSHIP 4 SOUTH, RANGE 15 EAST,
COLUMBIA COUNTY, FLORIDA

PLAT BOOK 7
PAGES 169
SHEET 2 OF 2

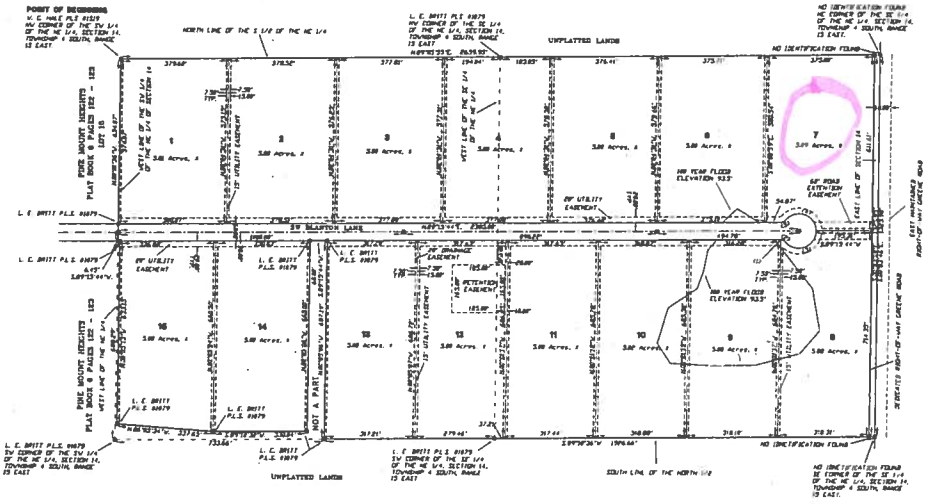
SYMBOL LEGEND

- ■ PERMANENT REFERENCE MONUMENT
- ● PERMANENT CONTROL POINT
- P.U.E. TYPICAL UTILITY EASEMENT
- AC ACRES ±

N

SCALE: 1" = 200'

GRAPHIC SCALE



CURVE TABLE

NO.	RADIUS	DELTA	ARC	TANGENT	CHORD	CHORD BEARING
C1	25.00'	90°00'00"	39.27'	25.00'	35.36'	S.89°13'44"W.
C2	25.00'	90°00'00"	39.27'	25.00'	35.36'	N.00°46'16"W.

100 YEAR FLOOD NOTICE:
LOTS 5, 6, 9, AND 10 ARE SUBJECT TO THE 100 YEAR FLOOD. THE 100 YEAR FLOOD IS ESTABLISHED TO BE 93.38 FEET AND A MINIMUM FLOOR ELEVATION HAS BEEN ESTABLISHED TO BE 94.38 FEET BY ARTHUR H. BIENENBAUM, PE #9162.

NOTICE:
ALL PLATTED UTILITY EASEMENTS SHALL PROVIDE THAT SUCH EASEMENTS SHALL ALSO BE FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF ELECTRIC, TELEPHONE, GAS OR OTHER PUBLIC UTILITY. IN THE EVENT THAT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

DEVELOPER:
SUBHANDY LIMITED PARTNERSHIP
1 386 752-8563
1096 U.S. HWY 90 W
LAKE CITY, FL 32055

BRITT SURVEYING
LAND SURVEYORS AND MAPPERS
1426 WEST DUVAL STREET
LAKE CITY, FLORIDA 32055
TELEPHONE: (386) 752-7163 FAX: (386) 752-5373 WORK ORDER # L-11680

FILED NUMBER ___ IN THE OFFICIAL RECORDS OF COLUMBIA COUNTY, FLORIDA
CLERK COLUMBIA COUNTY, FLORIDA
BY: ___ D.C.

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

Inst:2004015837 Date:07/08/2004 Time:12:17
Doc Stamp-Deed : 223.30
DC,P.DeWitt Cason,Columbia County B:1020 P:943

WARRANTY DEED

This Warranty Deed made and executed the 6th day of July A.D. 2004 by SUBRANDY LIMITED PARTNERSHIP, hereinafter called the grantor, to EARL F. FULTON AND BARBARA A. FULTON, his wife, Whose post office address is 5221 SW 199th Avenue, Pembroke Pines, FL 33332, hereinafter called the grantee:

(Wherever used herein the terms "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 corporation)

Witnesseth: That the grantor, for the consideration of the sum of $ 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 7, PINEMOUNT MEADOWS, a subdivision as recorded in Plat Book 7, Pages 168-169, Columbia County, Florida, subject to Restrictions recorded in O.R. Book 1016, Pages 1090-1091, Columbia County, Florida, and subject to Power Line Easement.
THIS CONVEYANCE IS SUBJECT TO AN INGRESS-EGRESS EASEMENT OVER AND ACROSS THE SOUTH 30 FEET OF SAID LOT 7 AS LIES WEST OF A COUNTY ROAD KNOWN AS GREEN ROAD AND EXTENDING WESTWARD TO THE END OF THE CUL-DE-SAC AT THE EASTERN TERMINATION OF SW BLANTON LANE.

Together with all the tenements, hereditaments and appurtenances thereto belong or in any-wise 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 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, 2003.

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:

Nanci Nettles
Signature of witness
Nanci Nettles

Suzanne Davis
Signature of witness
Suzanne Davis

Bradley N. Dicks, General Partner
Subrandy Limited Partnership
L.S.

State of Florida
County of Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared Bradley N. Dicks, who is personally known to me to be the person described in and who executed the foregoing instrument, who was not required to furnish identification, and he acknowledged before me that he executed the same and who did not take an oath.

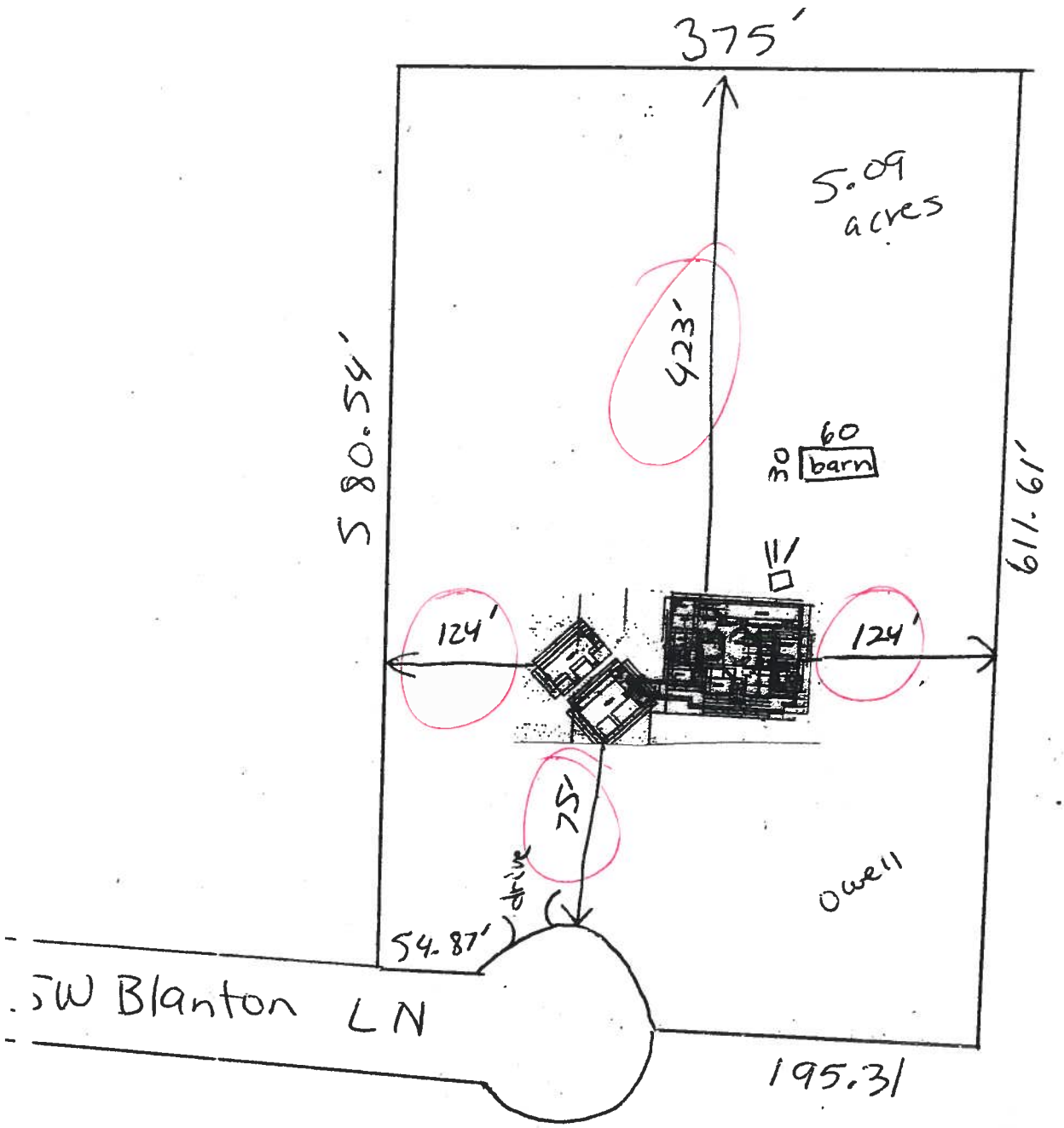
WITNESS my hand and official seal in the County and State last aforesaid this 6th day of July, A.D. 2004

Nanci Nettles
Notary Public, State of Florida

This instrument prepared by: Bradley N. Dicks
Address P.O. Box 513 Lake City, FL 32056

NANCI NETTLES
MY COMMISSION # DD 227705
EXPIRES: December 26, 2006

Earl & Barbara Fulton
Lot 7 Pinemount Meadows

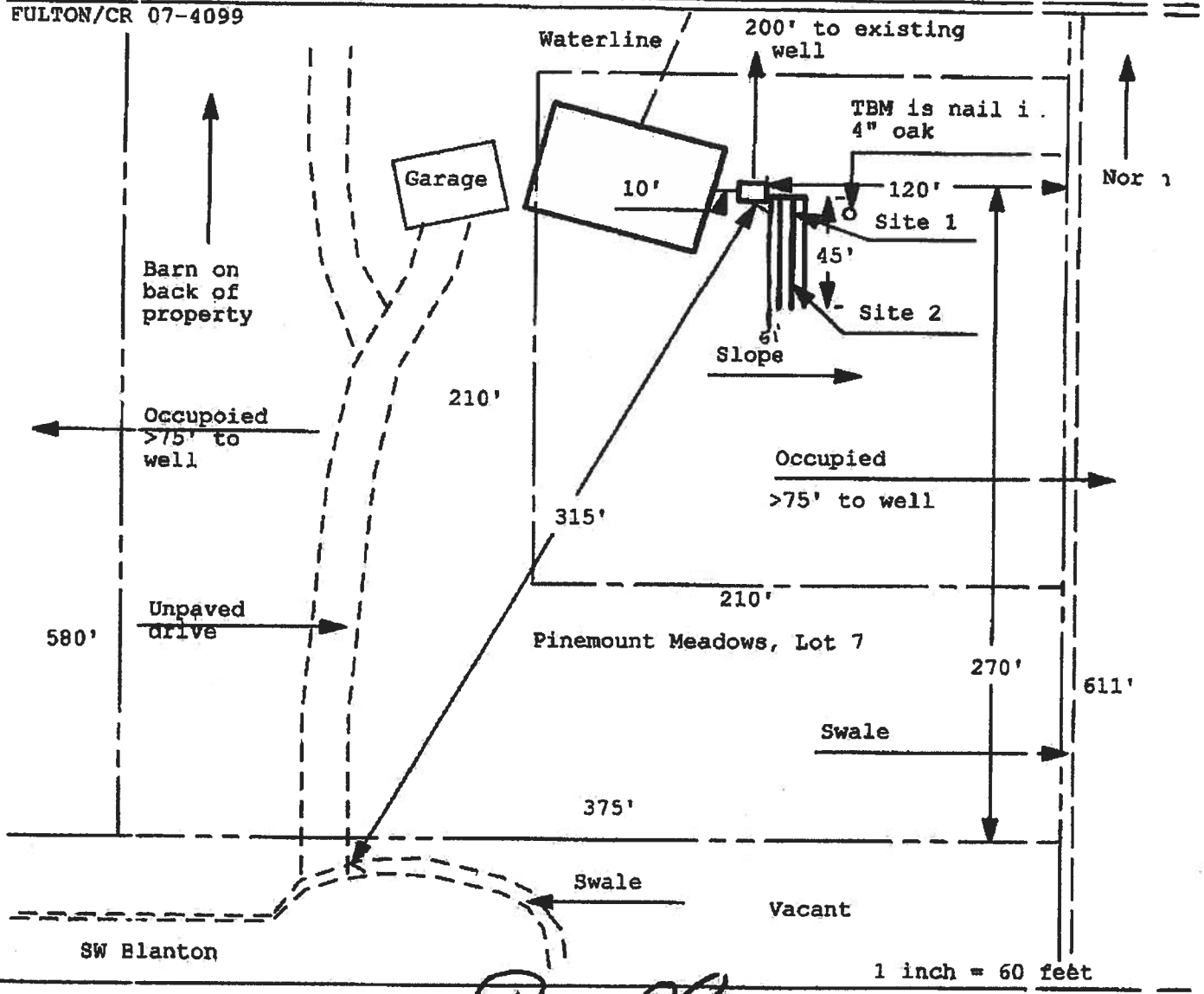


07-697

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

Permit Application Number: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd **Date** 8/29/07

Plan Approved ✓ **Not Approved** ____ **Date** 8/31/07

By _____ Columbia **CPHU**

Notes: _____

Lake Cit (386) 755- 311
Gainesvill (352) 494- 751
Fa (386) 755 385
Toll Free 1 800 616 707

Notice of Intent for Preventative Treatment for Termites

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

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

(Earl & Barbara Fulton) Lot 7 Pinemount Meadows (Josh Sparks)
Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment 23% Disodium Octaborate Tetrahydrate
Method of Termite Prevention - Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood
Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Authorized Signature _____ Date _____

Notice of Authorization

I, Josh Sparks, hereby authorize Linda Roder or Melanie Roder to be my Representative and act on my behalf in all aspects for applying for a Building Permit to be located in Columbia County.

Josh Sparks
Contractor's Signature

8-27-07
Date

Sworn to and Subscribed before me this 27 day of April, 2007 by Joshua Sparks, who

✓ is Personally Known or

_____ has produced _____ as identification.

Linda R. Roder
Notary Public

Notary Stamp

NOTARY PUBLIC STATE OF FLORIDA
Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (04) 752-
FAX (9) 755-70
LAKE CITY, FLORIDA
904 NW Main Blvd

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

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

Thank you,

Donald D. Hall
DDH/jk

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**706144SparksConstructionInc**	Builder:	
Address:	**149 SW Blanton Ln**	Permitting Office:	Columbia
City, State:	**Lake City, FL**	Permit Number:	26299
Owner:	**Fulton, John & Barbra Residence**	Jurisdiction Number:	221000
Climate Zone:	**North**		

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
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. Central Unit	Cap: 30.0 kBtu/hr
5. Is this a worst case?	Yes		SEER: 13.00
6. Conditioned floor area (ft²)	3100 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT) 7a.	(Dble Default) 484.0 ft²	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
b. SHGC:			HSPF: 7.90
(or Clear or Tint DEFAULT) 7b.	(Clear) 484.0 ft²	b. Electric Heat Pump	Cap: 30.0 kBtu/hr
8. Floor types			HSPF: 7.90
a. Slab-On-Grade Edge Insulation	R=0.0, 263.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 2066.0 ft²		EF: 0.93
b. N/A		b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 3200.0 ft²	15. HVAC credits	
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.16 Total as-built points: 35445 Total base points: 39938 **PASS**

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

PREPARED BY: _____

DATE: 9-14-07

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

OWNER/AGENT: _____ 9-20-07

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: **149 SW Blanton Ln, Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	**3100.0**	**20.04**	**11182.3**	Double, Clear	N	1.5	0.0	36.0	19.20	0.59	410.0	
				Double, Clear	N	5.0	7.0	24.0	19.20	0.76	352.4	
				Double, Clear	NE	10.0	7.0	24.0	29.56	0.52	368.4	
				Double, Clear	E	60.0	7.0	18.0	42.06	0.36	270.2	
				Double, Clear	N	15.0	6.0	60.0	19.20	0.60	694.5	
				Double, Clear	N	12.0	7.0	18.0	19.20	0.64	219.6	
				Double, Clear	E	1.5	0.0	36.0	42.06	0.36	540.3	
				Double, Clear	E	1.5	0.0	24.0	42.06	0.36	360.2	
				Double, Clear	S	9.0	7.0	72.0	35.87	0.49	1258.1	
				Double, Clear	S	8.0	7.0	108.0	35.87	0.50	1937.4	
				Double, Clear	S	12.0	6.0	20.0	35.87	0.45	323.6	
				Double, Clear	W	1.5	0.0	8.0	38.52	0.37	115.4	
				Double, Clear	W	1.5	0.0	36.0	38.52	0.37	519.5	
				As-Built Total:				**484.0**			**7369.6**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	2066.0	1.50	3099.0
Exterior	2066.0	1.70	3512.2					
Base Total:	**2066.0**		**3512.2**	**As-Built Total:**		**2066.0**		**3099.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	60.0	4.10	246.0
Exterior	80.0	4.10	328.0	Exterior Insulated	20.0	4.10	82.0
Base Total:	**80.0**		**328.0**	**As-Built Total:**	**80.0**		**328.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	3100.0	1.73	5363.0	Under Attic	30.0	3200.0	1.73 X 1.00	5536.0
Base Total:	**3100.0**		**5363.0**	**As-Built Total:**		**3200.0**		**5536.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	263.0(p)	-37.0	-9731.0	Slab-On-Grade Edge Insulation	0.0	263.0(p	-41.20	-10835.6
Raised	0.0	0.00	0.0					
Base Total:			**-9731.0**	**As-Built Total:**		**263.0**		**-10835.6**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **149 SW Blanton Ln, Lake City, FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	3100.0	10.21	31651.0		3100.0	10.21	31651.0			
Summer Base Points: 42305.5				**Summer As-Built Points:**						**37148.0**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 30000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
				37148	0.50	(1.09 x 1.147 x 0.91)	0.263	1.000	5547.9	
				(sys 2: Central Unit 30000 btuh ,SEER/EFF(13.0) Ducts: None						
				37148	0.50	(1.00 x 1.147 x 1.00	0.263	1.000	5547.9	
42305.5	**0.4266**	**18047.5**		**37148.0**	**1.00**	**1.138**	**0.263**	**1.000**	**11095.8**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **149 SW Blanton Ln, Lake City, FL,** PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	**3100.0**	**12.74**	**7108.9**

AS-BUILT

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF = Points
Double, Clear	N	1.5	0.0	36.0	24.58	1.03 909.0
Double, Clear	N	5.0	7.0	24.0	24.58	1.01 598.2
Double, Clear	NE	10.0	7.0	24.0	23.57	1.05 595.0
Double, Clear	E	60.0	7.0	18.0	18.79	1.51 509.7
Double, Clear	N	15.0	6.0	60.0	24.58	1.03 1513.9
Double, Clear	N	12.0	7.0	18.0	24.58	1.02 453.1
Double, Clear	E	1.5	0.0	36.0	18.79	1.51 1019.4
Double, Clear	E	1.5	0.0	24.0	18.79	1.51 679.6
Double, Clear	S	9.0	7.0	72.0	13.30	3.11 2980.8
Double, Clear	S	8.0	7.0	108.0	13.30	2.96 4257.1
Double, Clear	S	12.0	6.0	20.0	13.30	3.51 932.2
Double, Clear	W	1.5	0.0	8.0	20.73	1.24 205.3
Double, Clear	W	1.5	0.0	36.0	20.73	1.24 923.6
As-Built Total:				**484.0**		**15576.9**

WALL TYPES

	Area X	BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	2066.0	3.70	7644.2
Base Total:	**2066.0**		**7644.2**

Type	R-Value	Area X	WPM	= Points
Frame, Wood, Exterior	13.0	2066.0	3.40	7024.4
As-Built Total:		**2066.0**		**7024.4**

DOOR TYPES

	Area X	BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	80.0	8.40	672.0
Base Total:	**80.0**		**672.0**

Type	Area X	WPM	= Points
Exterior Insulated	60.0	8.40	504.0
Exterior Insulated	20.0	8.40	168.0
As-Built Total:	**80.0**		**672.0**

CEILING TYPES

	Area X	BWPM	= Points
Under Attic	3100.0	2.05	6355.0
Base Total:	**3100.0**		**6355.0**

Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	30.0	3200.0	2.05 X 1.00	6560.0
As-Built Total:		**3200.0**		**6560.0**

FLOOR TYPES

	Area X	BWPM	= Points
Slab	263.0(p)	8.9	2340.7
Raised	0.0	0.00	0.0
Base Total:			**2340.7**

Type	R-Value	Area X	WPM	= Points
Slab-On-Grade Edge Insulation	0.0	263.0(p	18.80	4944.4
As-Built Total:		**263.0**		**4944.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **149 SW Blanton Ln, Lake City, FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points				Area X	WPM	=	Points
	3100.0	-0.59	-1829.0				3100.0	-0.59		-1829.0
Winter Base Points:			**22291.8**	**Winter As-Built Points:**						**32948.7**
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
				(sys 1: Electric Heat Pump 30000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				32948.7		0.500 (1.069 x 1.169 x 0.93)	0.432	1.000		8264.4
				(sys 2: Electric Heat Pump 30000 btuh ,EFF(7.9) Ducts: None						
				32948.7		0.500(1.00 x 1.169 x 1.00)	0.432	1.000		8264.4
22291.8		**0.6274**	**13985.9**	**32948.7**		**1.00 1.162**	**0.432**	**1.000**		**16528.8**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **149 SW Blanton Ln, Lake City, FL,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
18048	**13986**	**7905**	**39938**	**11096**	**16529**	**7820**	**35445**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **149 SW Blanton Ln, 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* = 85.5

The higher the score, the more efficient the home.

Fulton, John & Barbra Residence, 149 SW Blanton Ln, 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
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	3		b. Central Unit	Cap: 30.0 kBtu/hr
5.	Is this a worst case?	Yes			SEER: 13.00
6.	Conditioned floor area (ft²)	3100 ft²		c. N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		13.	Heating systems	
	a. U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble Default) 484.0 ft²		a. Electric Heat Pump	Cap: 30.0 kBtu/hr
	b. SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 484.0 ft²			HSPF: 7.90
8.	Floor types			b. Electric Heat Pump	Cap: 30.0 kBtu/hr
	a. Slab-On-Grade Edge Insulation	R=0.0, 263.0(p) ft			HSPF: 7.90
	b. N/A			c. N/A	
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 2066.0 ft²			EF: 0.93
	b. N/A			b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
	e. N/A		15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
10.	Ceiling types				
	a. Under Attic	R=30.0, 3200.0 ft²			
	b. N/A				
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 210.0 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 EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

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

6709-59

Inst:200712021893 Date:9/26/2007 Time:4:36 PM
MW DC,P.DeWitt Cason,Columbia County Page 1 of 1

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 14-4S-15-00363-207

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

1. Description of property (legal description): 14-4S-15-00363-207
   a) Street (Job) Address: 149 SW Blanton Ln Lake City FL 32024
2. General description of improvements: Single family dwelling
3. Owner Information
   a) Name and address: Earl + Barbara Fulton 5221 SW 199th Ave Pembroke Pines FL 33332
   b) Name and address of the simple titleholder (if other than owner) NA
   c) Interest in property home site
4. Contractor Information
   a) Name and address: Sparks Construction POB 1479 Lake City FL 32056
   b) Telephone No.: 386-755-9314 Fax No. (Opt.) 386-755-7156
5. Surety Information
   a) Name and address: NA
   b) Amount of Bond: NA
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: NA
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: NA
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
   a) Name and address: NA
   b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

X Earl O Fulton
X Barbara Fulton
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager

Earl + Barbara Fulton
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 24 day of September, 20 07, by _____ as _____ (type of authority, e.g. officer, trustee, attorney fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known ____ OR Produced Identification X Type D

Notary Signature Linda R. Roder Notary Stamp or Seal:

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

—AND—

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

Residential System Sizing Calculation

Summary

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

9/14/2007

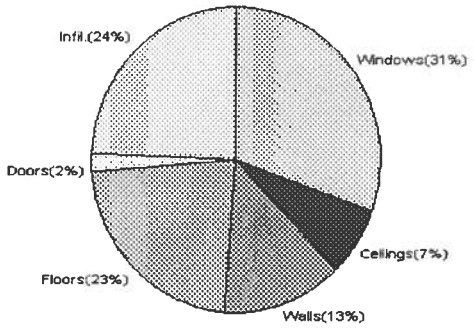
Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)

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	**50793**	**Btuh**	**Total cooling load calculation**	**42252**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.1	60000	Sensible (SHR = 0.75)	127.2	45000
Heat Pump + Auxiliary(0.0kW)	118.1	60000	Latent	218.5	15000
			Total (Electric Heat Pump)	142.0	60000

WINTER CALCULATIONS

Winter Heating Load (for 3100 sqft)

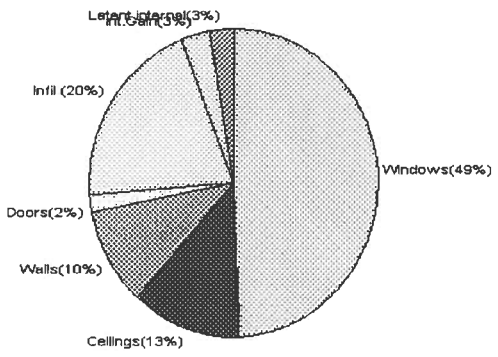
Load component			Load	
Window total	484	sqft	15580	Btuh
Wall total	2066	sqft	6785	Btuh
Door total	80	sqft	1036	Btuh
Ceiling total	3200	sqft	3771	Btuh
Floor total	263	sqft	11483	Btuh
Infiltration	300	cfm	12138	Btuh
Duct loss			0	Btuh
Subtotal			**50793**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**50793**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3100 sqft)

Load component			Load	
Window total	484	sqft	20730	Btuh
Wall total	2066	sqft	4309	Btuh
Door total	80	sqft	784	Btuh
Ceiling total	3200	sqft	5299	Btuh
Floor total			0	Btuh
Infiltration	155	cfm	2885	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**35387**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			5665	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**6865**	**Btuh**
TOTAL HEAT GAIN			**42252**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 9-14-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

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

9/14/2007

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	36.0	32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NW	24.0	32.2	773 Btuh
3	2, Clear, Metal, 0.87	N	24.0	32.2	773 Btuh
4	2, Clear, Metal, 0.87	NE	18.0	32.2	579 Btuh
5	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
6	2, Clear, Metal, 0.87	NW	18.0	32.2	579 Btuh
7	2, Clear, Metal, 0.87	NE	36.0	32.2	1159 Btuh
8	2, Clear, Metal, 0.87	NE	24.0	32.2	773 Btuh
9	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SE	108.0	32.2	3477 Btuh
11	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
12	2, Clear, Metal, 0.87	SW	8.0	32.2	258 Btuh
13	2, Clear, Metal, 0.87	SW	36.0	32.2	1159 Btuh
	Window Total		484(sqft)		15580 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2066	3.3	6785 Btuh
	Wall Total		2066		6785 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Exterior		60	12.9	777 Btuh
	Door Total		80		1036Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3200	1.2	3771 Btuh
	Ceiling Total		3200		3771Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	263.0 ft(p)	43.7	11483 Btuh
	Floor Total		263		11483 Btuh
			Zone Envelope Subtotal:		38654 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.58	31000	299.7	12138 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**50793 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

9/14/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	50793 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	50793 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

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

9/14/2007

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NW	24.0	32.2	773 Btuh
3	2, Clear, Metal, 0.87	N	24.0	32.2	773 Btuh
4	2, Clear, Metal, 0.87	NE	18.0	32.2	579 Btuh
5	2, Clear, Metal, 0.87	NW	60.0	32.2	1931 Btuh
6	2, Clear, Metal, 0.87	NW	18.0	32.2	579 Btuh
7	2, Clear, Metal, 0.87	NE	36.0	32.2	1159 Btuh
8	2, Clear, Metal, 0.87	NE	24.0	32.2	773 Btuh
9	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	SE	108.0	32.2	3477 Btuh
11	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
12	2, Clear, Metal, 0.87	SW	8.0	32.2	258 Btuh
13	2, Clear, Metal, 0.87	SW	36.0	32.2	1159 Btuh
	Window Total		484(sqft)		15580 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2066	3.3	6785 Btuh
	Wall Total		2066		6785 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Exterior		60	12.9	777 Btuh
	Door Total		80		1036Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3200	1.2	3771 Btuh
	Ceiling Total		3200		3771Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	263.0 ft(p)	43.7	11483 Btuh
	Floor Total		263		11483 Btuh
			Zone Envelope Subtotal:		38654 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.58	31000	299.7	12138 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**50793 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

9/14/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	50793 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	50793 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 9/14/2007

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	36.0	0.0	36.0	29	60	2161 Btuh
2	2, Clear, 0.87, None,N,N	NW	5ft.	7ft.	24.0	0.0	24.0	29	60	1441 Btuh
3	2, Clear, 0.87, None,N,N	N	10ft.	7ft.	24.0	0.0	24.0	29	29	695 Btuh
4	2, Clear, 0.87, None,N,N	NE	60ft.	7ft.	18.0	0.0	18.0	29	60	1081 Btuh
5	2, Clear, 0.87, None,N,N	NW	15ft.	6ft.	60.0	0.0	60.0	29	60	3602 Btuh
6	2, Clear, 0.87, None,N,N	NW	12ft.	7ft.	18.0	0.0	18.0	29	60	1081 Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	36.0	0.0	36.0	29	60	2161 Btuh
8	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	24.0	0.0	24.0	29	60	1441 Btuh
9	2, Clear, 0.87, None,N,N	SE	9ft.	7ft.	72.0	72.0	0.0	29	63	2085 Btuh
10	2, Clear, 0.87, None,N,N	SE	8ft.	7ft.	108.0	108.0	0.0	29	63	3128 Btuh
11	2, Clear, 0.87, None,N,N	SE	12ft.	6ft.	20.0	20.0	0.0	29	63	579 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	8.0	8.0	0.0	29	63	232 Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043 Btuh
	Window Total				484 (sqft)					20730 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	2066.0	2.1	4309 Btuh
	Wall Total		2066 (sqft)		4309 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		20.0	9.8	196 Btuh
2	Insulated - Exterior		60.0	9.8	588 Btuh
	Door Total		80 (sqft)		784 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3200.0	1.7	5299 Btuh
	Ceiling Total		3200 (sqft)		5299 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	263 (ft(p))	0.0	0 Btuh
	Floor Total		263.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		31122 Btuh

Infiltration	Type	ACH	Volume(cuft)		CFM=	Load
	SensibleNatural	0.30	31000		155.0	2885 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)				DGM = 0.00	0.0 Btuh
				Sensible Zone Load		**35387 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

9/14/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**35387 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**35387 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**35387 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5665 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	**6865 Btuh**
	TOTAL GAIN	**42252 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

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 9/14/2007

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

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	36.0	0.0	36.0	29	60	2161 Btuh
2	2, Clear, 0.87, None,N,N	NW	5ft.	7ft.	24.0	0.0	24.0	29	60	1441 Btuh
3	2, Clear, 0.87, None,N,N	N	10ft.	7ft.	24.0	0.0	24.0	29	29	695 Btuh
4	2, Clear, 0.87, None,N,N	NE	60ft.	7ft.	18.0	0.0	18.0	29	60	1081 Btuh
5	2, Clear, 0.87, None,N,N	NW	15ft.	6ft.	60.0	0.0	60.0	29	60	3602 Btuh
6	2, Clear, 0.87, None,N,N	NW	12ft.	7ft.	18.0	0.0	18.0	29	60	1081 Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	36.0	0.0	36.0	29	60	2161 Btuh
8	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	24.0	0.0	24.0	29	60	1441 Btuh
9	2, Clear, 0.87, None,N,N	SE	9ft.	7ft.	72.0	72.0	0.0	29	63	2085 Btuh
10	2, Clear, 0.87, None,N,N	SE	8ft.	7ft.	108.0	108.0	0.0	29	63	3128 Btuh
11	2, Clear, 0.87, None,N,N	SE	12ft.	6ft.	20.0	20.0	0.0	29	63	579 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	8.0	8.0	0.0	29	63	232 Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043 Btuh
	Window Total				484 (sqft)					20730 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	2066.0	2.1	4309 Btuh
	Wall Total		2066 (sqft)		4309 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		20.0	9.8	196 Btuh
2	Insulated - Exterior		60.0	9.8	588 Btuh
	Door Total		80 (sqft)		784 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3200.0	1.7	5299 Btuh
	Ceiling Total		3200 (sqft)		5299 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	263 (ft(p))	0.0	0 Btuh
	Floor Total		263.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		31122 Btuh

Infiltration	Type	ACH		Volume(cuft)		CFM=	Load
	SensibleNatural	0.30		31000		155.0	2885 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load
		6	X	230	+	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0 Btuh
					Sensible Zone Load		**35387 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

Class 3 Rating
Registration No. 0
Climate: North

9/14/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**35387 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**35387 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**35387 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5665 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	**6865 Btuh**
	TOTAL GAIN	**42252 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

Fulton, John & Barbra Residence
149 SW Blanton Ln
Lake City, FL

Project Title:
706144SparksConstructionInc

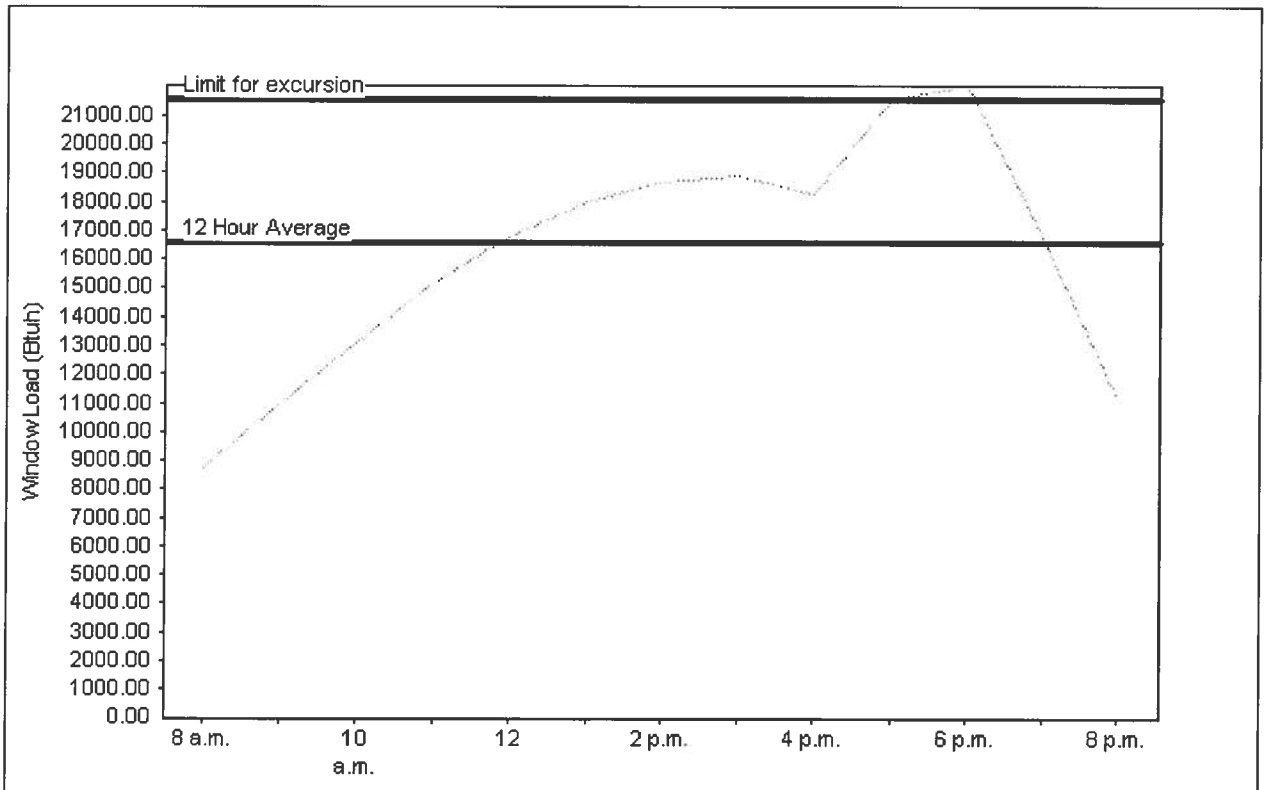
Class 3 Rating
Registration No. 0
Climate: North

9/14/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	16564 Btu
Summer setpoint	75 F	Peak window load for July	22008 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	21533 Btu
Latitude	29 North	Window excursion (July)	475 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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:
DATE: 9-14-07

Cal-Tech Testing, Inc.

26299

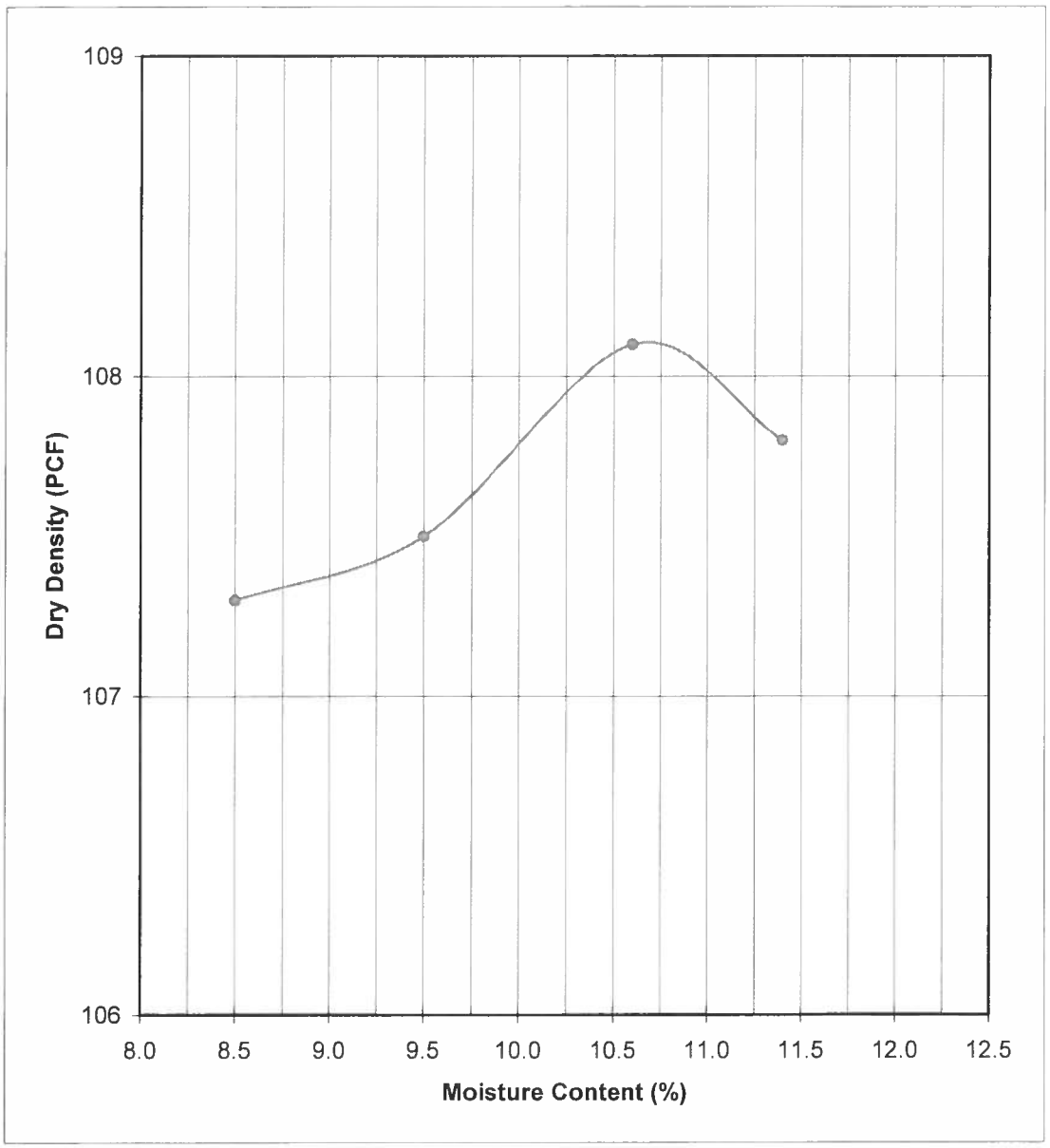
• Engineering
• Geotechnical
• Environmental
Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
6919 Distribution Ave. S., Unit #5, Jacksonville, FL 32257 • Tel(904)262-4046 • Fax(904)4047
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

REPORT OF LABORATORY COMPACTION TEST

Client: Spark's Construction, P.O. Box 1479, Lake City, FL 32056
Project Name: Fulton Residence
Project Location: Lake City, FL
Contractor: Spark's Construction

File No: 07-00482
Date: 10/4/2007
Lab No: 10357



PROCTOR DATA

Proctor No.: 1

Modified Proctor (ASTM D-1557) ☑

Standard Proctor (ASTM D-698) ☐

Maximum Dry Dens. Pcf: 108.1

Optimum Moisture Percent: 10.7

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

Sample Description: Grey Soil
Sample Location: Existing Footer
Proposed Use: Footer
Sampled By: John O'Steen **Date:** 10/3/2007
Tested By: Tim Cassidy **Date:** 10/4/2007
Remarks: 1cc: Client
1cc: File

Linda M. Creamer
President - CEO
Reviewed By:
Date:
Licensed, Florida No.: 57842

EE

Cal-Tech Testing, Inc.

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P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 07-00482
DATE TESTED: 10/3/07
DATE REPORTED: 10/4/07

PROJECT:	Fulton Residence, Lake City, FL
CLIENT:	Spark's Construction, P.O. Box 1479, Lake City, FL 32056
GENERAL CONTRACTOR:	Spark's Construction
EARTHWORK CONTRACTOR:	Spark's Construction
INSPECTOR:	John O'Steen

ASTM METHOD	SOIL USE
(D-2922) Nuclear	BUILDING FILL

SPECIFICATION REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft^3)	MOISTURE PERCENT	DRY DENSITY (lb/ft^3)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1		Center of North Footer	12"	119.0	11.1	107.1	1	108.1	99%
2		Center of East Footer	12"	121.1	12.0	108.1	1	108.1	100%
3		Center West Footer	12"	119.7	11.5	107.4	1	108.1	99%
4		Center South Footer	12"	122.5	11.9	109.5	1	108.1	101%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft^3)	OPT. MOIST.	TYPE
1		Grey Soil	108.1	10.7	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Reviewed By:

Linda M. Creamer
President - CEO

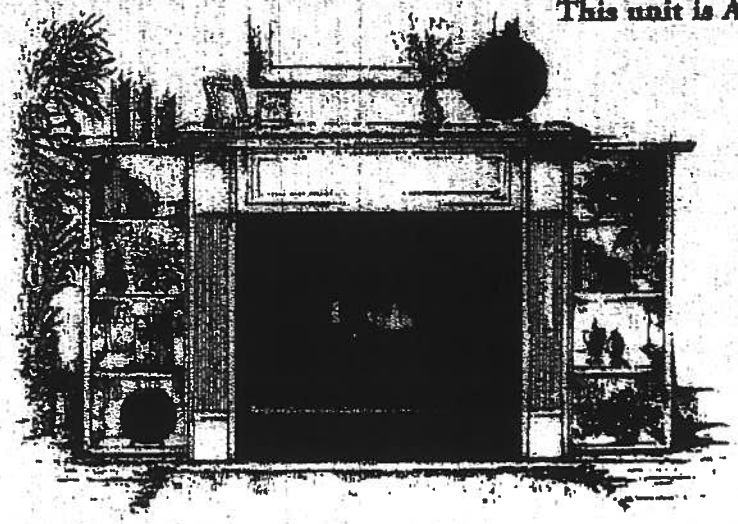
Date:
Licensed, Florida No: 57842

ee

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

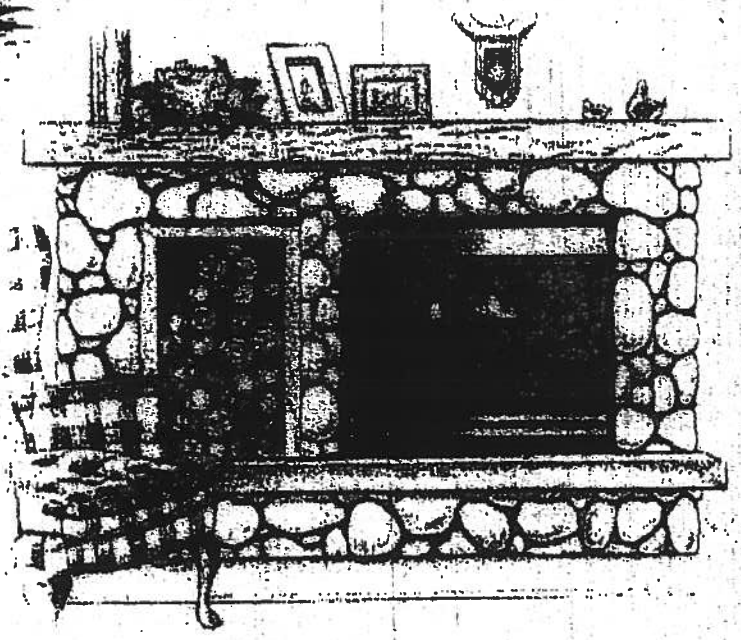
VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency
No chimney or flue system required
Wide selection of factory installed options offered



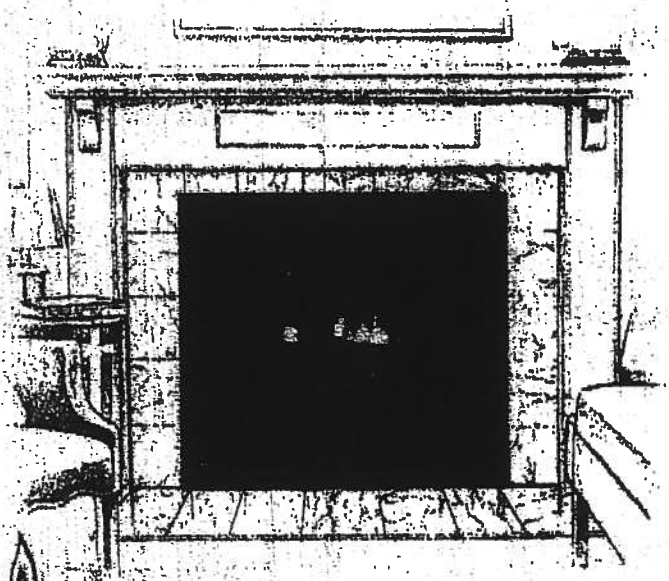
VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 19,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening



VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



VF-6000

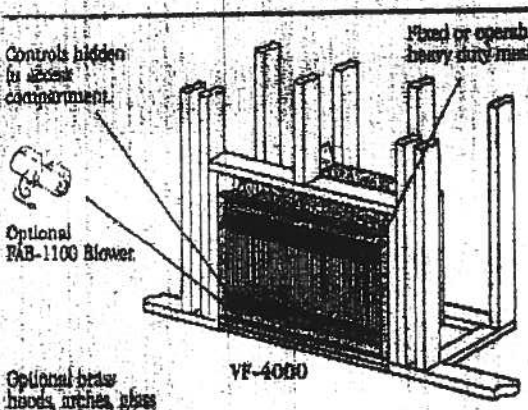
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

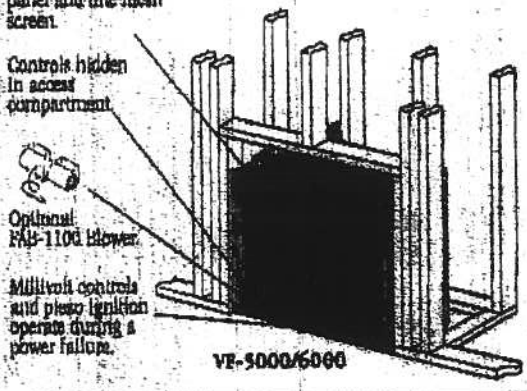
GAS

SUPERIOR

VF-4000/5000/6000

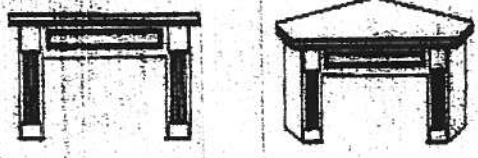
VF-6000 shown





SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



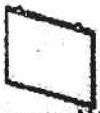
Distributed by:

Refractory tan brick panels

Gas flex liner kit.

Square brass trim kit.

Brass Louver kit (For VF-4 only)



Screen panel kit. (For VF-5 & VF6 only)

Arch kit. (For VF-5 & VF6 only)

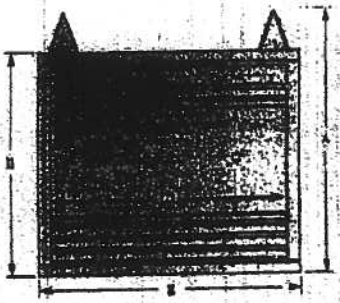
Glass door kit. (For VF-5 & VF6 only)

Brass hood. (For VF-5 & VF6 only)

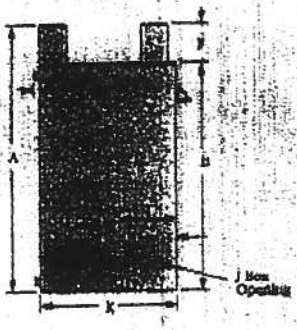
Wall switch or optional wireless remote available. (For VF-4MV, VF-5 & VF-6)

Wall thermostat. (For VF-4MV, VF-5 & VF-6)

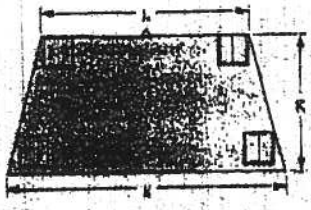
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
		42-1/8"
B	33-1/2"	36-5/8"
		20"
	20"	34"
		40"
		5-1/2"
		1-1/2"
		3-3/4"
		8-1/2"
		3"
		19-1/8"
L	27"	28-1/2"

Btu Chart

Model	Natural	Propane
VF-4000 manual	14,000 – 25,000	14,000 – 25,000
VF-4000/5000 millivolt	19,500 – 25,000	19,500 – 25,000
VF-6000	25,000 – 32,000	25,000 – 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37-1/4"	15-1/2"
VF-6000	41"	42-3/8"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ANSI Z21.11.2 standard and approved by A.G.A. (report # 1297017).

Consult your distributor for local fireplace code information.

SUPERIOR

www.LennoxHearthProducts.com

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Lennox Hearth Products Direct-Vent heater rated gas appliances include a 20-year limited warranty.

P/N 901464 REV # 2/00

FLORIDA DEPARTMENT OF Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative	Frederick J. O'Connor
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email		
Category	Roofing	
Subcategory	Asphalt Shingles	
Compliance Method	Certification Mark or Listing	
Certification Agency	Underwriters Laboratories Inc.	
Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D 3462	2001
Equivalence of Product Standards Certified By		
Product Approval Method	Method 1 Option A	
Date Submitted	06/09/2005	
Date Validated	06/20/2005	
Date Pending FBC Approval	06/25/2005	
Date Approved	06/29/2005	

Summary of Products

FL #	Model, Number or Name	Description

slopes of 2:12 or greater. Not approved for use in HVHZ.	

Back Next

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

Product Approval Accepts:

4

Underwriters Laboratories Inc.

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

June 17, 2005

Tanko Roofing Products
Ms. Kerri Eden
P.O Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION

3. FASTENERS

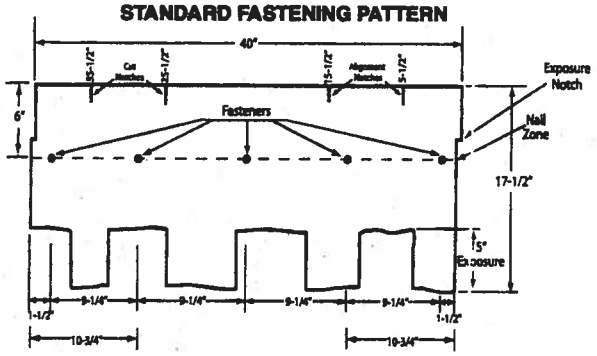
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

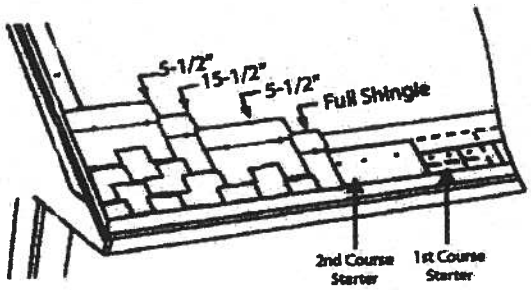
(Continued)

(CONTINUED from Pg. 2)

TAMKO BUILDING PRODUCTS

• HERITAGE® VINTAGE™ AR – Phillipsburg, I S
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide str) of TAMKO Moisture Guard Plus, TW Underlayment or TW I etal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

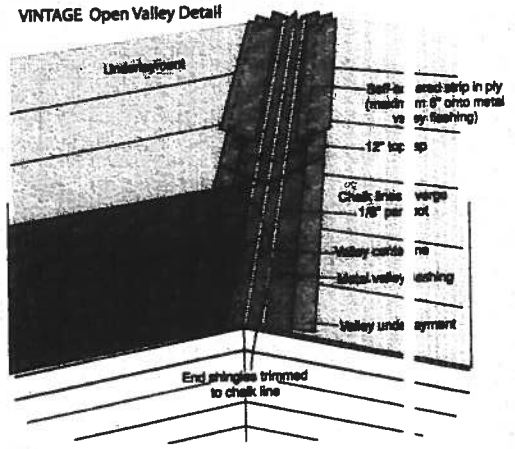
SHINGLE APPLICATION INSTRUCTIONS (OPEN VA LEY)

- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley cente line.
- The lower end should diverge from each other by 1 3" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valle y 8".

As shingles are applied toward the valley, trim the last s ingle in each course to fit on the chalk line. Never use a shingle tri imed to less than 12" in length to finish a course running into a valley If necessary, trim the adjacent shingle in the course to allow a longe portion to be used.

- Clip 1" from the upper corner of each shingle on a 4 5° angle to direct water into the valley and prevent it from pe netrating between the courses.
- Form a tight seal by cementing the shingle to the v lley lining with a 3" width of asphalt plastic cement (conformi g to ASTM D 4586).

VINTAGE Open Valley Detail



• **CAUTION:**
Adhesive must be applied in smooth, thin, even layers

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

TAMKO BUILDING PRODUCTS

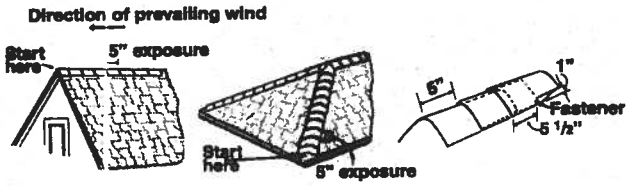
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

Visit Our Web Site at
www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801	800-641-4691
Northeast District	4500 Tamko Dr., Frederick, MD 21701	800-368-2055
Southeast District	2300 35th St., Tuscaloosa, AL 35401	800-228-2656
Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1834
Western District	5300 East 43rd Ave., Denver, CO 80216	800-530-8868

FLORIDA DEPARTMENT OF
Community Affairs

Product Approval
USER: Public User

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	

Window

A · ‧ I

(‧ulator / Operati ns Administrator)

AAMA CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Win ows & Doors, Inc.
P.O. Bc : 370
Gratz, F A 17030-0370

Attn: ‧ Emley

The pr duct described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. Th e approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, acc mpanied by related drawings, by an AAMA Accredited Laboratory.

1. The list ng below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAI A/NWWDA 101/I.S. 2-97 H-R55*-36x62					
COMP NY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Window & Doors, Inc. (Oldsmar, FL) MI Window & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(D)(X)(DG) (ASTM)	2'0" x 5'2"	2'10" x 2'7"	By Request

2. This Ce rtification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certifie d Products Directory.

3. Produc Tested and Reported by: Architectural Testing, Inc.

   Report No.: 01-50380.02

   Date o Report: June 14, 2004

NOTE: PLEASE REVIEW, AND ADVIS E ALI IMMEDIATELY IF DATA, A S SHOWN, NEEDS CO RRECTION.

Date: Au gust 1, 2005

Validated for Certification:

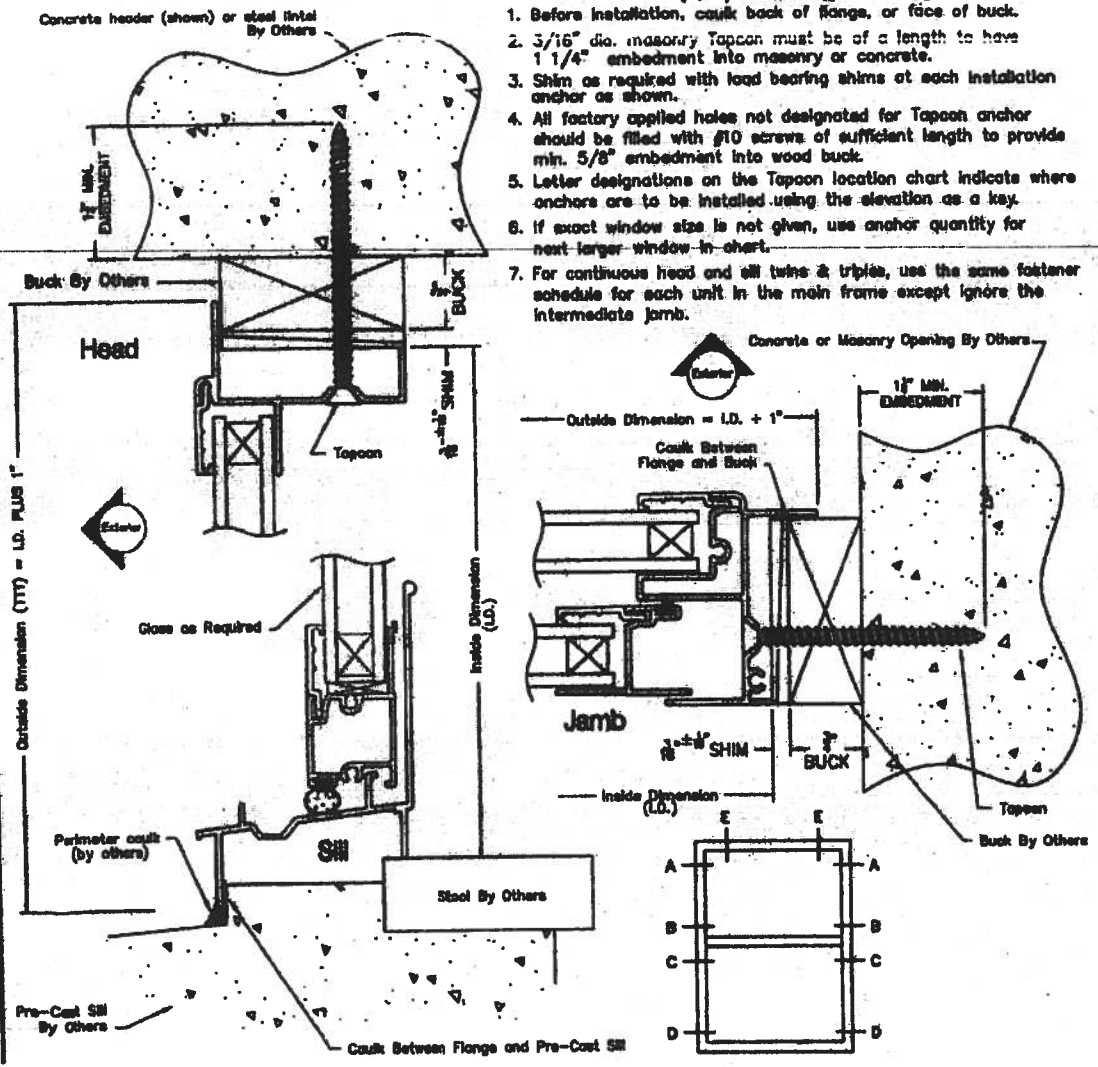
Associated Laboratories, Inc.

Authorized for Certification:

American Architectural Manufacturers Association

cc: AAMA
JGS/df
ACP-04 (Re v. 5/03)

"ONE BY" (3/4") BUCKS (SHOWN)



1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Tapcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.

"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

MI HOME PRODUCTS
BetterBilt / Capitol

* TAPCON LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP80.3
12	18 1/8 x 25	A, D & E	A, D & E	A, D & E
13	18 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
14	18 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
16	18 1/8 x 62	A, D & E	A, D & E	A, D & E
18	18 1/8 x 71	A, D & E	A, D & E	A, D & E
17	18 1/8 x 83	A, D & E	A, D & E	A, D & E
1/2 32	25 1/2 x 25	A, D & E	A, D & E	A, D & E
1/2 33	25 1/2 x 37 3/8	A, D & E	A, D & E	A, D & E
1/2 34	25 1/2 x 49 5/8	A, D & E	A, D & E	A, D & E
1/2 35	25 1/2 x 62	A, D & E	A, D & E	A, D & E
1/2 36	25 1/2 x 71	A, D & E	A, D & E	A, D & E
1/2 37	25 1/2 x 83	A, D & E	A, D & E	A, C, D & E
22	36 x 25	A, D & E	A, D & E	A, D & E
23	36 x 37 3/8	A, D & E	A, D & E	A, D & E
24	36 x 49 5/8	A, D & E	A, D & E	A, D & E
26	36 x 62	A, D & E	A, D & E	A, D & E
28	36 x 71	A, D & E	A, D & E	A, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, D & E
32	52 1/8 x 25	A, D & E	A, D & E	A, D & E
33	52 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
34	52 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
36	52 1/8 x 62	A, D & E	A, C, D & E	A, C, D & E
38	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, D & E
2040	23 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
2050	23 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
2060	23 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
2070	23 3/8 x 83 5/8	A, D & E	A, D & E	A, D & E
3040	35 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
3050	35 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
3060	35 3/8 x 71 5/8	A, D & E	A, D & E	A, C, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4040	47 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
4050	47 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4460	51 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4460	51 3/8 x 71 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

REV	DESCRIPTION	DATE	BY
A	REVISED SILL INSTALLATION ANCHOR SCREWS	7/19/04	SD

MI HOME PRODUCTS
GRATZ, PA

166/3166 SINGLE HUNG FLANGE FRAME
INSTALLATION DETAILS & FASTENER SCHEDULE

DRAWN BY	DATE
DRL	06/15/04

SCALE	DWG. NO.
N.T.S.	MIHP0059

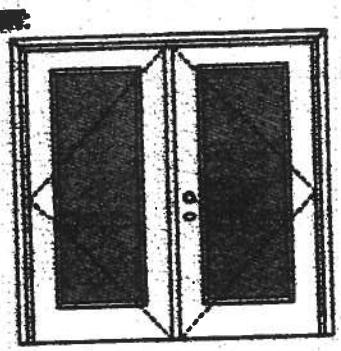
REV. LETTER: A
SHEET: 1 OF 1

XX
Glazed C ..tswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door
Maximum unit size – 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-series, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:
Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:
1/4 GLASS:

1/2 GLASS:

*This glass kit may also be used in the following door styles: 6-panel; 6-panel with scroll; Eyebrow 6-panel; Eyebrow 6-panel with scroll.

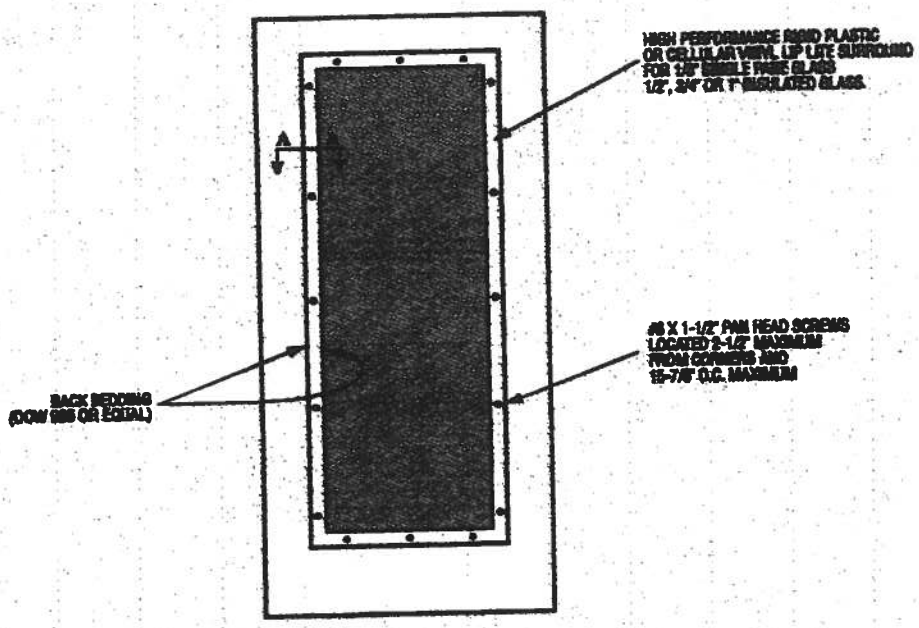
Johnson Hardware Systems

March 2, 2006
Our policy is one of product improvement and we reserve the right to change specifications, design and product at any time without notice.

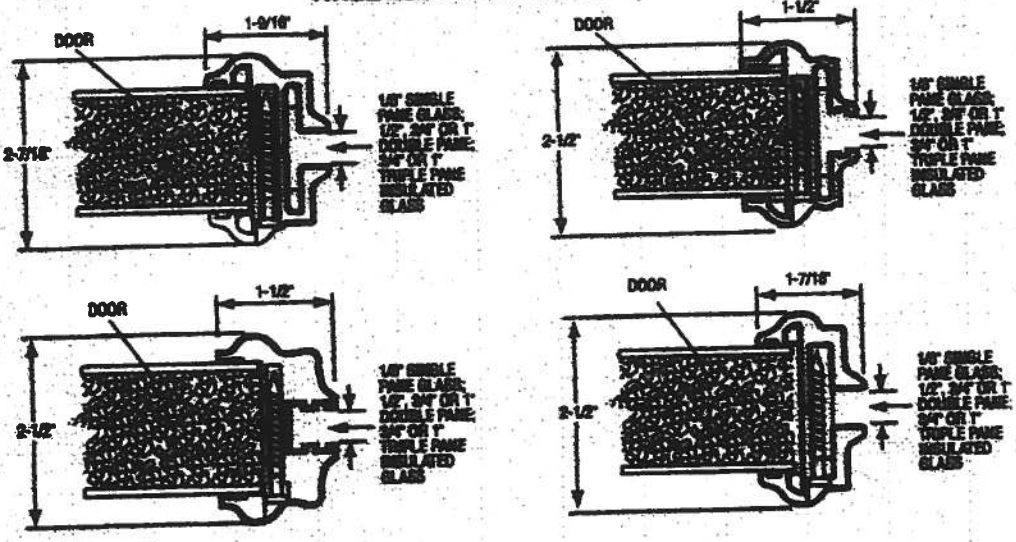
FIBERDOR Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed (utswing Unit

WOOD-EDGE STEEL DOORS

APPROV D DOOR STYLES:
3/4 GLAS :

FULL GLASS:

CERTIFI D TEST REPORTS:

NCTL 210-1887-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portsey, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODU T COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthy

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Jeld-wen
window & door systems

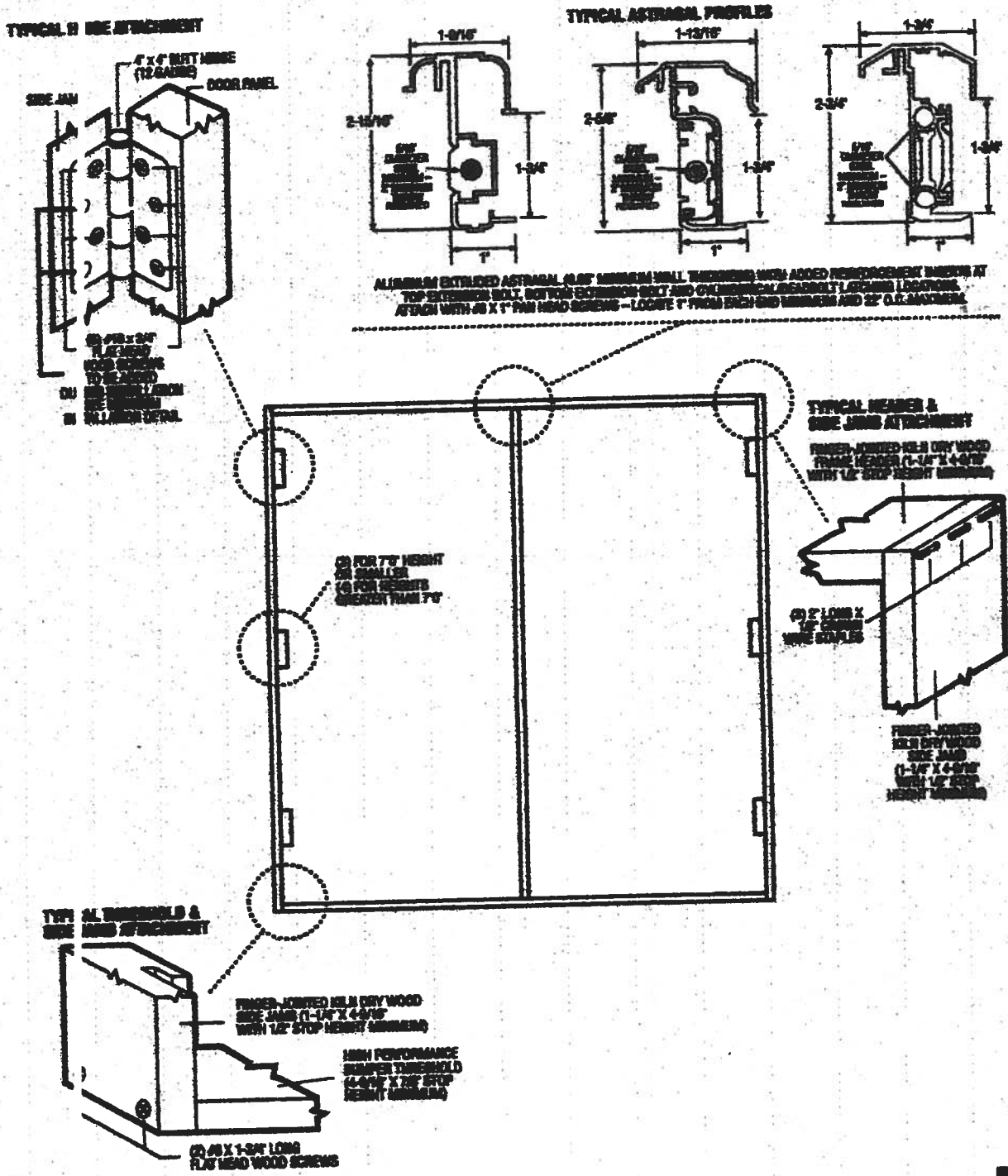
March 2 2002
Our ongoing program of product improvement makes specifications, design and product availability subject to change without notice.

PREMDOR Solutions
Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Unit

OUTSWING UNITS WITH DOUBLE DOOR

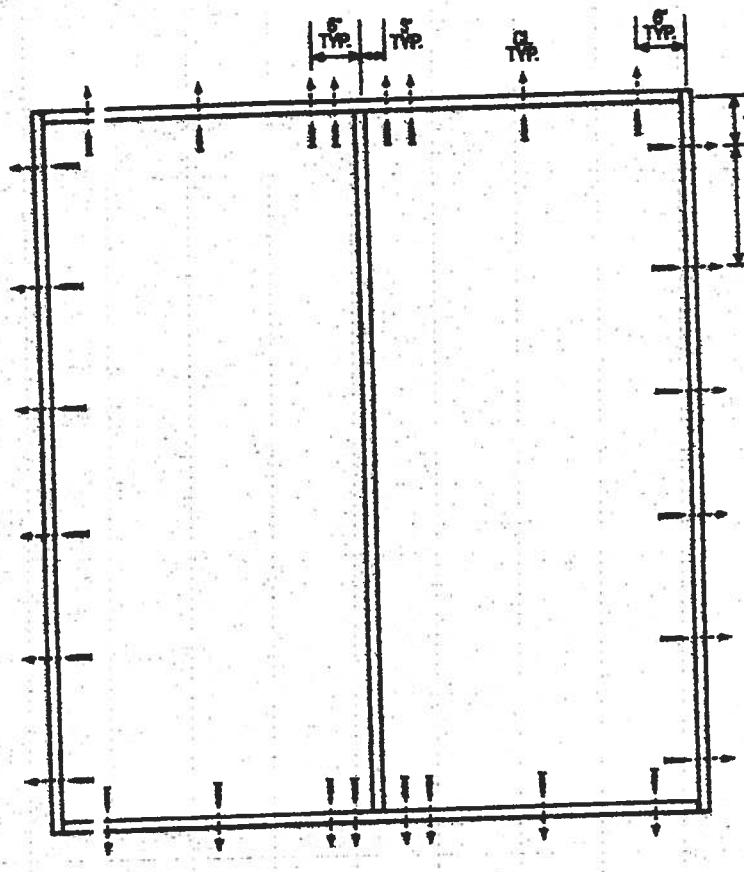


Masonite International Corporation

XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/2" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood buck by others, must be anchored properly to transfer loads to the structure.

[redacted]

March 2[redacted]
Our continuing program of product improvement makes specifications, designs and product detail subject to change without notice.

Building Code Information System

Overview | User Registration | Organization Registration | User Application | Organization Search | Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

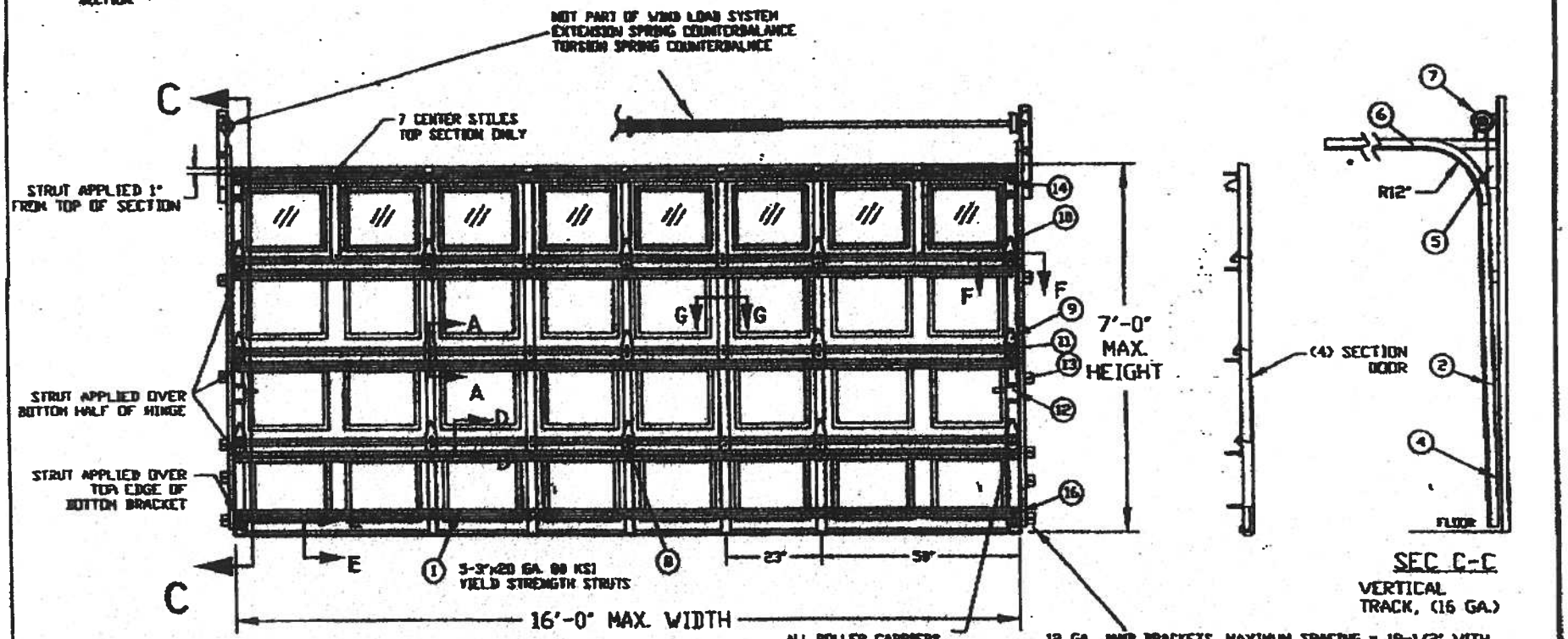
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Codes: PDM Systems ID: 3585			Site Links: www.gadoor.com			

Displaying 1-1 of 1

REV.	DATE	BY	DESCRIPTION
A-A	11-19-08	DW	ADD T.C.O. #31

NOTES:

1. [illegible] PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. [illegible] (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STICK IS 5'-0" AS TESTED.
6. [illegible] CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. [illegible]



INSIDE ELEVATION

SEC C-C
VERTICAL TRACK, (16 GA.)

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the minimum requirements and configuration(s) of the door as tested.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280

LISTED [redacted] REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/08 080293

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7480, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN ⚠
SERIES 7524, EXTERIOR STEEL =.024" MIN ⚠
(TESTED WITH VENTRIS)

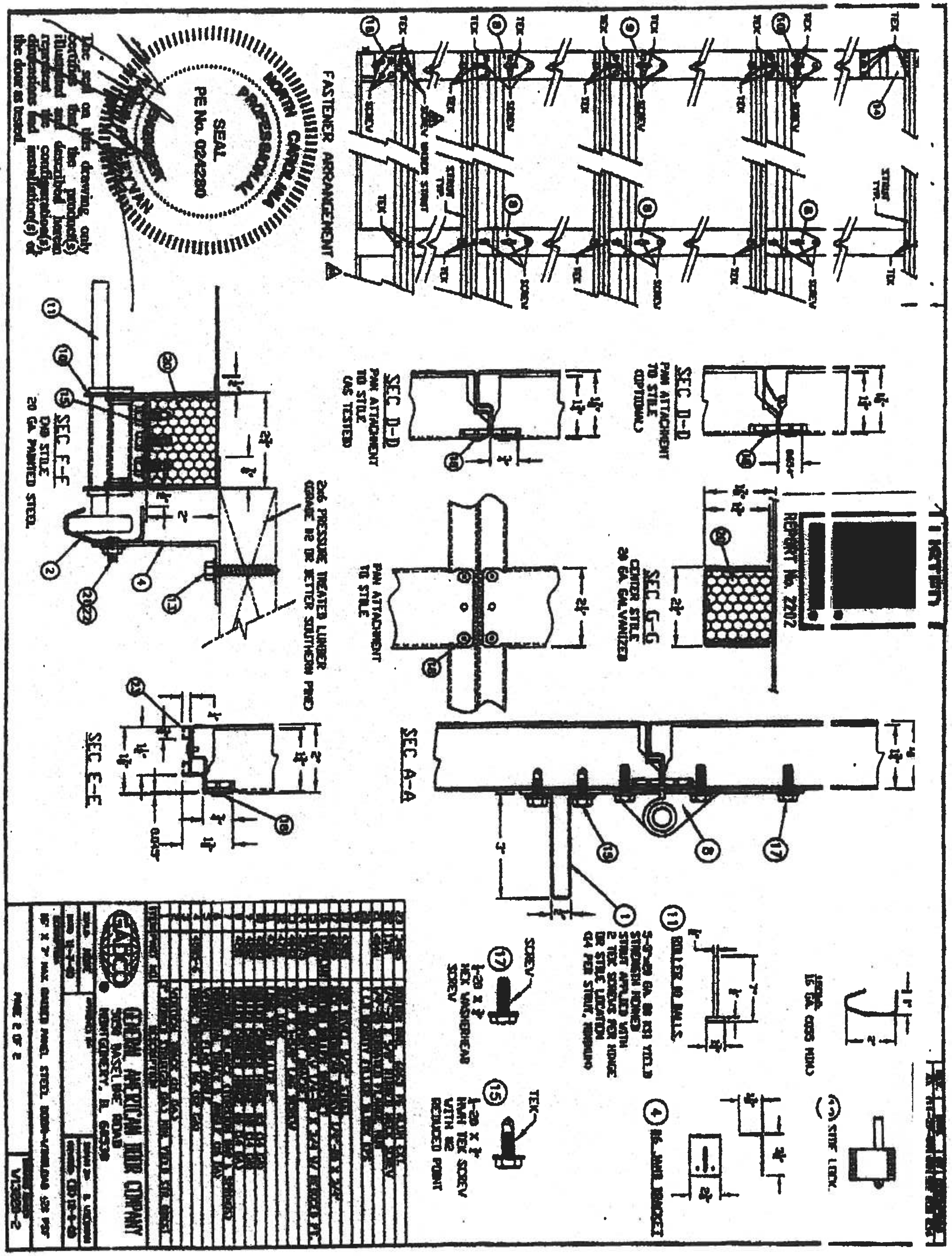
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

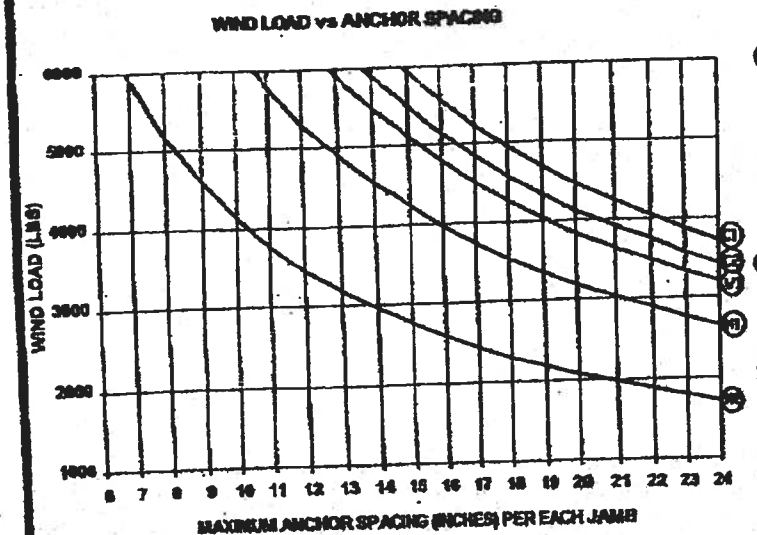
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

BOARD SIZE	APPROVED BY	DRAWN BY & VERSION
DATE 10-20-08		REVISED (A) 11-19-08

DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF

PAGE NUMBER: PAGE 1 OF 2 | DRAWING NUMBER: V13220-1


FASTENER ARRANGEMENT
SEAL
NORTH CAROLINA
PROFESSIONAL
SEC A-A
SEC D-D
SEC E-E
SEC F-F
SEC G-G
CENTER STILE
END STILE
2x6 PRESSURE TREATED LUMBER
GRADE #2 OR BETTER SOUTHERN PINE
PAN ATTACHMENT TO STILE
GENERAL AMERICAN DOOR COMPANY
MONTGOMERY, IL
SCREW
TEK
STRUT
HINGE
ROLLER



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION» SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2000 PSI; GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

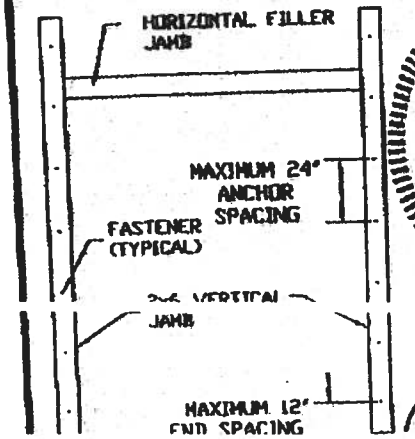
DESIGN LOAD (LBS/FT²) X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

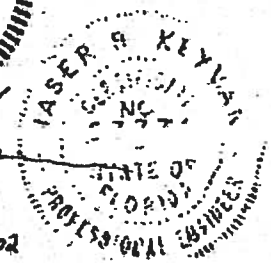
EXAMPLE

30 LBS/FT² X 16 FT WIDE X 8 FT HIGH = 3840 LBS

- (I) USE 22" SPACING
- (II) USE 21" SPACING
- (V) USE 19" SPACING
- (III) USE 16" SPACING
- (IV) USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





3/8/2002

CENTRAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 6-30-99		REVISED:

JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

26299

March 20,2008

Columbia County Building Dept

Att:Harry

Iam not going to finish off bonus room at this time.I also will not be hooking power to bonus room until I have finished off room.

Earl L.Fulton

Earl L Fulton

Fax to: Sparks construction
1-386-755-7156

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 14-4S-15-00363-207 **Building permit No.** 000026299

Use Classification SFD,UTILTY **Fire:** 38.52

Permit Holder JOSH SPARKS **Waste:** 100.50

Owner of Building EARL FULTON **Total:** 139.02

Location: 149 SW BLANTON LANE, LAKE CITY, FL

Date: 04/30/2008

Wayne A. Rusk

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)