DATE 01/05/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025373

APPLICANT ROBERT MORRIS PHONE 386.752.2442

ADDRESS 1012 SW CR 242 LAKE CITY FL 32024

OWNER ROBERT & KIM MORRIS PHONE 386.752.2442

ADDRESS 697 NW COUNTRY LAKE DRIVE LAKE CITY FL 32055

CONTRACTOR ROBERT & KIM MORRIS PHONE 386.752.2442

LOCATION OF PROPERTY LAKE JEFFERY ROAD TO SCENIC LAKE DR ,TL TO COUNTRY LAKE DR,TR AND THE LOT IS ON THE L.

TYPE DEVELOPMENT SF/UTILITY ESTIMATED COST OF CONSTRUCTION 160550.00

HEATED FLOOR AREA 3211.00 TOTAL AREA 4600.00 HEIGHT 27.60 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC

LAND USE & ZONING RSF-1 MAX. HEIGHT 35

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

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

PARCEL ID 22-3S-16-02267-116 SUBDIVISION COUNTRY LAKES @ WOODBOROUGH

LOT 16 BLOCK PHASE 1 UNIT TOTAL ACRES 0.85

000001289				
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
18"X32'MITERED	06-01088N	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: 1 FOOT ABOVE ROAD.

Check # or Cash 2187

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power ____ date/app. by

Foundation ____ date/app. by

Monolithic (footer/Slab) ____ 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 $ 805.00 CERTIFICATION FEE $ 23.00 SURCHARGE FEE $ 23.00

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

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 951.00

INSPECTORS OFFICE ____ CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0612-39 Date Received 12/12/06 By LH Permit # 1289 / 25373

Application Approved by - Zoning Official BLK Date 12.12.06 Plans Examiner OKSTH Date 12-18-06

Flood Zone X Plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low-Dens.

Comments NOC -2187-

Applicants Name - Robert or Kim Morris Phone 288-8100 WORK FAX 754-7701

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Robert & Kim Morris Phone 752-2442

911 Address 697 NW Country Lake Dr. Lake City FL 32055

Contractors Name Owner builder Phone 752-2442

Address 1012 SW Country Rd 242 Lake City FL 32024

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers / Nick Geisler

Mortgage Lenders Name & Address CCB

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

Property ID Number 22-35-16-02267-116 Estimated Cost of Construction 175 K

Subdivision Name Country Lakes at Woodborough Lot 16 Block ____ Unit ____ Phase ~~3~~ 1

Driving Directions Hwy 90 West. Turn R on Lake Jeffrey, Turn L on Scenic Lake Drive, Turn R on Country Lake Drive, Lot on L

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage .85 Lot Size ____ Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 50' Side 36' Side 36' Rear 49'

Total Building Height 27'-6" Number of Stories 1 Heated Floor Area 3211 TOTAL 4,670 Roof Pitch 8-12

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.

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

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

X Kimberly A Morris

Owner Builder or Agent (including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this _____ day of _____ 20____.

Personally known____ or Produced Identification____

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

Contractor Signature

Contractors License Number

Competency Card Number

NOTARY STAMP/SEAL

Linda R. Roder

Notary Signature

JW called 12.20.06 - spoke w/ Linda

PREPARED BY AND RETURN TO:

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

Property Appraiser's
Identification Number R02252-000 & R02268-004

TM File No: 06-322

WARRANTY DEED

This Warranty Deed, made this 11th day of July, 2006, BETWEEN MS, DM & BL, LLC, a Florida limited liability company, whose post office address is 3101 West US Highway 90, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and ROBERT G. MORRIS, JR. AND KIMBERLY A. MORRIS, Husband and Wife whose post office address is 1012 SW County Road 242, Lake City, FL 32024, grantee*.

(Whenever 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 corporations, trusts and trustees)

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

Lot 16, Country Lake In Woodborough, Phase 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99, public records, Columbia County, Florida.

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 subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

Inst:2006016501 Date:07/12/2006 Time:12:36
Doc Stamp-Deed : 559.30
DC,P.DeWitt Cason,Columbia County B:1089 P:1125

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

(Signature of First Witness)

(Typed Name of First Witness)

(Signature of Second Witness)

(Typed Name of Second Witness)

MS, DM & BL, LLC

BY: _____ (SEAL)
Deborah S. Myles, Managing Member

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 10th day of July, 2006, by Deborah S. Myles, Managing Member of MS, DM & BL, LLC, a Florida limited liability company, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

My Commission Expires:

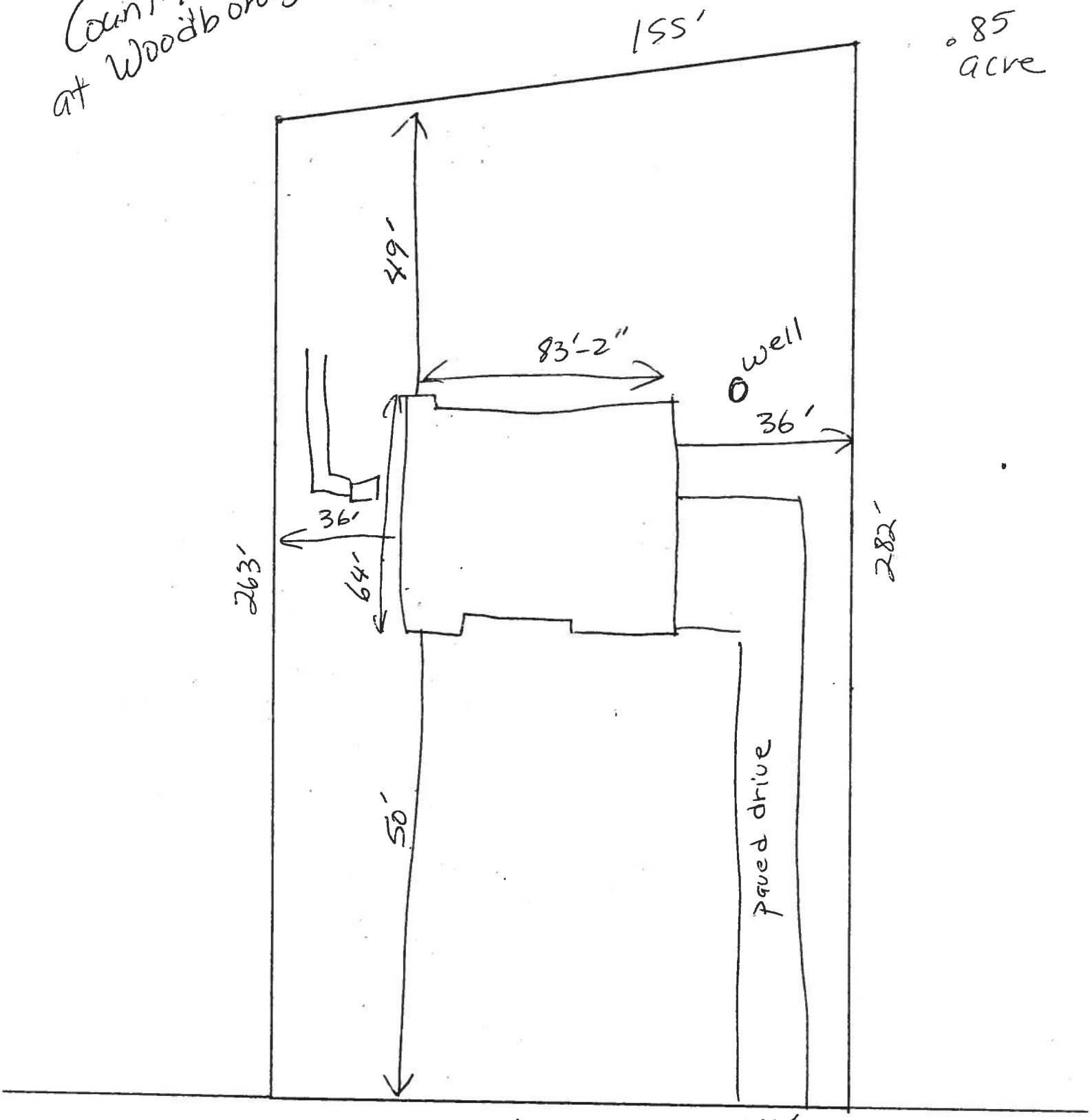
Notary Public
Printed, typed, or stamped name:

TERRY MCDAVID
MY COMMISSION # DD 500798
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

Inst:2006016501 Date:07/12/2006 Time:12:36
Doc Stamp-Deed : 559.30
DC,P.DeWitt Cason,Columbia County B:1089 P:1126

Lot 16
Country Lakes
at Woodborough

Robert & Kim Morris



PREPARED BY AND RETURN TO:

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

Property Appraiser's
Identification Number R02252-000 & R02268-004

TM File No: 06-322

WARRANTY DEED

This Warranty Deed, made this 11th day of July, 2006, BETWEEN MS, DM & BL, LLC, a Florida limited liability company, whose post office address is 3101 West US Highway 90, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and ROBERT G. MORRIS, JR. AND KIMBERLY A. MORRIS, Husband and Wife whose post office address is 1012 SW County Road 242, Lake City, FL 32024, grantee*.

(Whenever 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 corporations, trusts and trustees)

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

Lot 16, Country Lake In Woodborough, Phase 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99, public records, Columbia County, Florida.

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 subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

Inst:2006016501 Date:07/12/2006 Time:12:36
Doc Stamp-Deed : 559.30
DC,P.DeWitt Cason,Columbia County B:1089 P:1125

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

(Signature of First Witness)

(Typed Name of First Witness)

(Signature of Second Witness)

(Typed Name of Second Witness)

MS, DM & BL, LLC

BY: _____ (SEAL)
Deborah S. Myles, Managing Member

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 11th day of July, 2006, by Deborah S. Myles, Managing Member of MS, DM & BL, LLC, a Florida limited liability company, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

My Commission Expires:

Notary Public
Printed, typed, or stamped name:

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

Inst:2006016501 Date:07/12/2006 Time:12:36
Doc Stamp-Deed : 559.30
DC,P.DeWitt Cason,Columbia County B:1089 P:1126

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling
( ) Farm Outbuilding
( ) New Construction
( ) Two-Family Residence
( ) Other_____
( ) Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

I Kimberly Morris, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number_____

Kimberly A. Morris 12-8-06
Signature Date

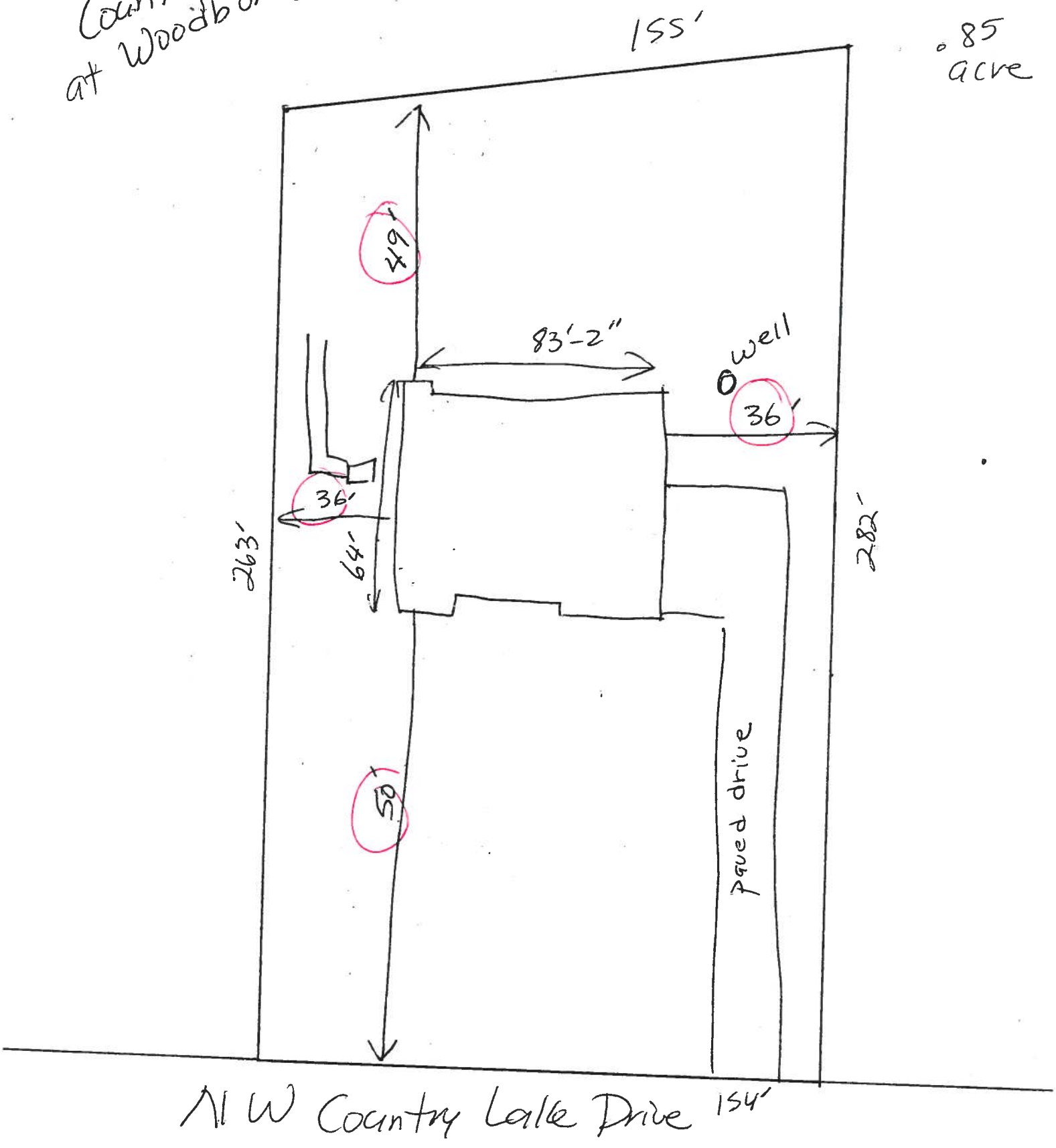
FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date_____ Building Official/Representative_____

Lot 16
Country Lakes
at Woodborough

Robert & Kim Morris

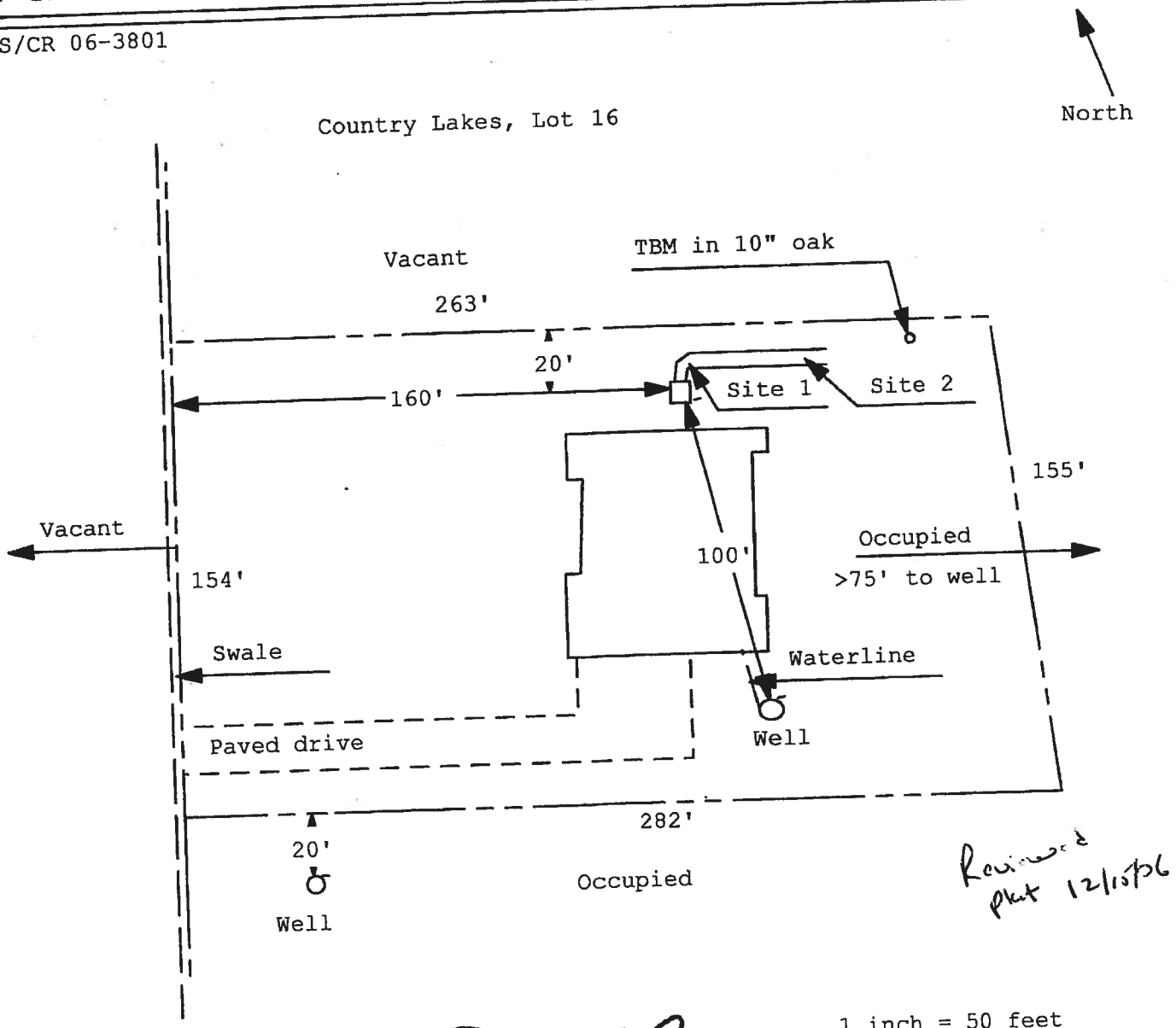


Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0108SN

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MORRIS/CR 06-3801



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd Date 12/7/06

Plan Approved ✓ Not Approved ____ Date 12/15/06

By [signature] Columbia CPHU

Notes: ____

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 755-[illegible]
FAX (904) 755-7[illegible]
[illegible]
LAKE CITY, FLORIDA [illegible]
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

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0612-39

Applicant Robert & Kim Morris Owner/ builder, Property ID 22-3s-16-02267-118

On the date of December 14, 2006 application 0612- 39 and plans for construction of single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0612-39 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

LEFT CALL BACK message 12-14-06
FAXED TO work FAX # 754 7701 12-14-06

Over

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
2. Please submit a recorded (with the Columbia County Clerk Office) the attached notice of commencement before any inspections can be preformed by the Columbia County Building Department.
3. The window opening in the master bathroom shear wall, at the garden tub shall be required to meet the requirements of FRC-2004 section R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed. ***Please indicate on the plans that section R308.4 will be complied with for the garden tub window.***
4. Please verify that one egress window in the master bedroom will be provided and will comply with the Florida Building Code -2004 Section R310.1.1 Minimum opening area: All emergency escape and rescue openings on the grade floor

shall have a minimum net clear opening of 5 square feet. The minimum net clear opening height shall be 24 inches (610 mm): R310.1.3 and a minimum net clear opening width shall be 20 inches (508 mm).

5. Please provide for compliance with the Florida Residential Building Code -2004 section R322.1.1 All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737 mm) clear opening. However, if only a toilet room is provided at grade level, such toilet rooms shall have a clear opening of not less than 29 inches (737 mm). This 29 opening shall include the toilet entry door which is shown on your plans as a 2468 door. To meet the above requirements a 2868 door will need to be install in toilet entry door. ***Please indicate on the plans which bathroom will comply with the Florida Residential Building Code -2004 section R322.1.1***

Thank You:

Joe Haltiwanger
Plan Examiner
Columbia County Building
Department

FORM 600A-2004 Tested sealed ducts must be certified in this house. EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Morris - Robert & Kemberly**	Builder:	
Address:	**Lot: , Sub: , Plat:**	Permitting Office:	Columbia
City, State:	**, FL 32025-**	Permit Number:	25373
Owner:	**Morris 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: 74.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	3211 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 (Sngle Default) 335.3 ft²	a. Electric Heat Pump	Cap: 74.0 kBtu/hr
b. SHGC:			HSPF: 7.20
(or Clear or Tint DEFAULT)	7b. (Clear) 335.3 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 335.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 80.0 gallons
a. Frame, Wood, Exterior	R=13.0, 2446.7 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 632.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	PT,
a. Under Attic	R=30.0, 3300.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 100.0 ft		
b. N/A			

Glass/Floor Area: 0.10 Total as-built points: 38568 Total base points: 45294 **PASS**

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

PREPARED BY: _____

DATE: 9-27-06

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

OWNER/AGENT: _____

DATE: 12-4-06

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: **Lot: , Sub: , Plat: , , FL, 32025-** 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	3211.0	20.04	11582.7	Single, Clear	W	1.5	10.0	16.0	43.84	0.98	686.6	
				Single, Clear	W	13.5	10.0	42.0	43.84	0.47	858.4	
				Single, Clear	S	9.5	10.0	40.0	40.81	0.53	861.5	
				Single, Clear	W	1.5	10.0	42.0	43.84	0.98	1802.4	
				Single, Clear	W	1.5	10.0	12.0	43.84	0.98	515.0	
				Single, Clear	N	1.5	10.0	18.0	21.73	0.98	384.0	
				Single, Clear	E	1.5	10.0	72.0	47.92	0.98	3375.3	
				Single, Clear	E	1.5	13.0	56.0	47.92	0.99	2667.1	
				Single, Clear	E	4.5	13.0	13.3	47.92	0.84	534.0	
				Single, Clear	S	1.5	10.0	24.0	40.81	0.96	940.4	
				As-Built Total:				**335.3**			**12624.6**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	632.0	0.70	442.4	Frame, Wood, Exterior	13.0	2446.7	1.50	3670.0
Exterior	2446.7	1.70	4159.4	Frame, Wood, Adjacent	13.0	632.0	0.60	379.2
Base Total:	**3078.7**		**4601.8**	**As-Built Total:**		**3078.7**		**4049.2**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	18.0	1.60	28.8	Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	4.10	82.0	Adjacent Insulated	18.0	1.60	28.8
Base Total:	**38.0**		**110.8**	**As-Built Total:**	**38.0**		**110.8**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	3211.0	1.73	5555.0	Under Attic	30.0	3300.0	1.73 X 1.00	5709.0
Base Total:	**3211.0**		**5555.0**	**As-Built Total:**		**3300.0**		**5709.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	335.0(p)	-37.0	-12395.0	Slab-On-Grade Edge Insulation	0.0	335.0(p	-41.20	-13802.0
Raised	0.0	0.00	0.0					
Base Total:			**-12395.0**	**As-Built Total:**		**335.0**		**-13802.0**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	3211.0	10.21	32784.3	3211.0	10.21	32784.3

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-**	PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 42239.6				**Summer As-Built Points:**						**41476.0**
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 74000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
42239.6	**0.4266**	**18019.4**		41476 **41476.0**	1.00 **1.00**	(1.09 x 1.000 x 1.00) **1.090**	0.284 **0.284**	0.950 **0.950**	12215.2 **12215.2**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	3211.0	12.74	7363.5	Single, Clear	W	1.5	10.0	16.0	28.84	1.01	464.1
				Single, Clear	W	13.5	10.0	42.0	28.84	1.20	1448.8
				Single, Clear	S	9.5	10.0	40.0	20.24	2.65	2145.5
				Single, Clear	W	1.5	10.0	42.0	28.84	1.01	1218.2
				Single, Clear	W	1.5	10.0	12.0	28.84	1.01	348.1
				Single, Clear	N	1.5	10.0	18.0	33.22	1.00	598.1
				Single, Clear	E	1.5	10.0	72.0	26.41	1.01	1925.6
				Single, Clear	E	1.5	13.0	56.0	26.41	1.01	1489.5
				Single, Clear	E	4.5	13.0	13.3	26.41	1.06	373.9
				Single, Clear	S	1.5	10.0	24.0	20.24	1.01	491.9
				As-Built Total:				**335.3**			**10503.7**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Adjacent	632.0	3.60	2275.2	Frame, Wood, Exterior			13.0	2446.7	3.40		8318.8
Exterior	2446.7	3.70	9052.8	Frame, Wood, Adjacent			13.0	632.0	3.30		2085.6
Base Total:	**3078.7**		**11328.0**	**As-Built Total:**				**3078.7**			**10404.4**
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points
Adjacent	18.0	8.00	144.0	Exterior Insulated				20.0	8.40		168.0
Exterior	20.0	8.40	168.0	Adjacent Insulated				18.0	8.00		144.0
Base Total:	**38.0**		**312.0**	**As-Built Total:**				**38.0**			**312.0**
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points
Under Attic	3211.0	2.05	6582.5	Under Attic			30.0	3300.0	2.05 X	1.00	6765.0
Base Total:	**3211.0**		**6582.5**	**As-Built Total:**				**3300.0**			**6765.0**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Slab	335.0(p)	8.9	2981.5	Slab-On-Grade Edge Insulation			0.0	335.0(p	18.80		6298.0
Raised	0.0	0.00	0.0								
Base Total:			**2981.5**	**As-Built Total:**				**335.0**			**6298.0**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points
	3211.0	-0.59	-1894.5					3211.0	-0.59		-1894.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**26673.0**	**Winter As-Built Points:**					**32388.6**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 74000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
26673.0	0.6274	16734.6	32388.6	1.00	1.069	0.474	0.950	15578.1

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4	2635.00	10540.0		80.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:						**10774.2**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
18019	**16735**	**10540**	**45294**	**12215**	**15578**	**10774**	**38568**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.0

The higher the score, the more efficient the home.

Morris Residence, Lot: , Sub: , Plat: , , FL, 32025-

1.	New construction or existing	New	__	12.	Cooling systems	
2.	Single family or multi-family	Single family	__	a.	Central Unit	Cap: 74.0 kBtu/hr __
3.	Number of units, if multi-family	1	__			SEER: 12.00 __
4.	Number of Bedrooms	4	__	b.	N/A	__
5.	Is this a worst case?	No	__			__
6.	Conditioned floor area (ft²)	3211 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 (Sngle Default) 335.3 ft²	__	a.	Electric Heat Pump	Cap: 74.0 kBtu/hr __
b.	SHGC:					HSPF: 7.20 __
	(or Clear or Tint DEFAULT)	7b. (Clear) 335.3 ft²	__	b.	N/A	__
8.	Floor types					__
a.	Slab-On-Grade Edge Insulation	R=0.0, 335.0(p) ft	__	c.	N/A	__
b.	N/A		__			__
c.	N/A		__	14.	Hot water systems	
9.	Wall types			a.	Electric Resistance	Cap: 80.0 gallons __
a.	Frame, Wood, Exterior	R=13.0, 2446.7 ft²	__			EF: 0.90 __
b.	Frame, Wood, Adjacent	R=13.0, 632.0 ft²	__	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, 3300.0 ft²	__	15.	HVAC credits	PT, __
b.	N/A		__		(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A		__		HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 100.0 ft	__		MZ-C-Multizone cooling,	
b.	N/A		__		MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Morris - Robert & Kemberly	Builder:	
Address:		Permitting Office:	
City, State:	, FL 32025-	Permit Number:	
Owner:	Morris Residence	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	**Total House Duct System Leakage**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ **(Q_n,tot)** ☐ **Receive credit if Q_n,tot≤ 0.03**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ **(Q_n,out)** ☐ **Receive credit if Q_n,out≤ 0.03 AND Q_n,tot≤ 0.09**

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001289

DATE 01/05/2007 PARCEL ID # 22-3S-16-02267-116

APPLICANT ROBERT MORRIS PHONE 386.754.7701

ADDRESS 1012 SW CR 242 LAKE CITY FL 32024

OWNER ROBERT & KIM MORRIS PHONE 386.752.2442

ADDRESS 697 NW COUNTRY LAKE DRIVE LAKE CITY FL 32055

CONTRACTOR ROBERT & KIM MORRIS PHONE 386.752.2442

LOCATION OF PROPERTY LAKE JEFFERY ROAD TO SCENIC LAKE DR,TL TO COUNTRY LAKE,TR AND THE LOT WILL BE ON THE L.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY LAKES @ WDBR 16 1

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY, FLORIDA

Residential System Sizing Calculation

Summary

Morris Residence

, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

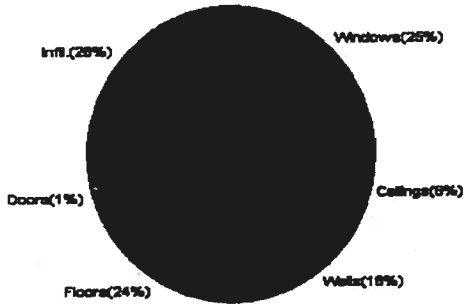
9/27/2006

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	**62215**	**Btuh**	**Total cooling load calculation**	**62923**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.9	74000	Sensible (SHR = 0.75)	116.5	55500
Heat Pump + Auxiliary(0.0kW)	118.9	74000	Latent	121.0	18500
			Total (Electric Heat Pump)	117.6	74000

WINTER CALCULATIONS

Winter Heating Load (for 3211 sqft)

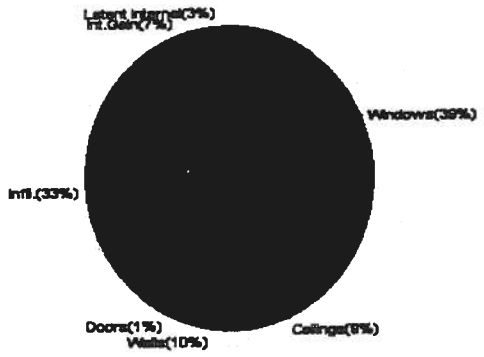
Load component			Load	
Window total	335	sqft	15756	Btuh
Wall total	3079	sqft	10111	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	3300	sqft	3889	Btuh
Floor total	335	sqft	14626	Btuh
Infiltration	428	cfm	17342	Btuh
Duct loss			0	Btuh
Subtotal			**62215**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**62215**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3211 sqft)

Load component			Load	
Window total	335	sqft	24526	Btuh
Wall total	3079	sqft	6057	Btuh
Door total	38	sqft	372	Btuh
Ceiling total	3300	sqft	5465	Btuh
Floor total			0	Btuh
Infiltration	375	cfm	6972	Btuh
Internal gain			4240	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**47633**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			13690	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**15290**	**Btuh**
TOTAL HEAT GAIN			**62923**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: [signature]
DATE: 9-27-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Morris Residence
, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

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

9/27/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	16.0	47.0	752 Btuh
2	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
3	1, Clear, Metal, 1.27	S	40.0	47.0	1880 Btuh
4	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
5	1, Clear, Metal, 1.27	W	12.0	47.0	564 Btuh
6	1, Clear, Metal, 1.27	N	18.0	47.0	846 Btuh
7	1, Clear, Metal, 1.27	E	72.0	47.0	3383 Btuh
8	1, Clear, Metal, 1.27	E	56.0	47.0	2631 Btuh
9	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
10	1, Clear, Metal, 1.27	S	24.0	47.0	1128 Btuh
	Window Total		335(sqft)		15756 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2447	3.3	8035 Btuh
2	Frame - Wood - Adj(0.09)	13.0	632	3.3	2076 Btuh
	Wall Total		3079		10111 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3300	1.2	3889 Btuh
	Ceiling Total		3300		3889Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	335.0 ft(p)	43.7	14626 Btuh
	Floor Total		335		14626 Btuh
			Zone Envelope Subtotal:		44873 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	32110	428.1	17342 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) . (DLM of 0.00)				0 Btuh
Zone #1			**Sensible Zone Subtotal**		**62215 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Morris Residence
, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

9/27/2006

	Subtotal Sensible	62215 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	62215 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

Morris Residence
, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

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

9/27/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	16.0	47.0	752 Btuh
2	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
3	1, Clear, Metal, 1.27	S	40.0	47.0	1880 Btuh
4	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
5	1, Clear, Metal, 1.27	W	12.0	47.0	564 Btuh
6	1, Clear, Metal, 1.27	N	18.0	47.0	846 Btuh
7	1, Clear, Metal, 1.27	E	72.0	47.0	3383 Btuh
8	1, Clear, Metal, 1.27	E	56.0	47.0	2631 Btuh
9	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
10	1, Clear, Metal, 1.27	S	24.0	47.0	1128 Btuh
	Window Total		335(sqft)		15756 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2447	3.3	8035 Btuh
2	Frame - Wood - Adj(0.09)	13.0	632	3.3	2076 Btuh
	Wall Total		3079		10111 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3300	1.2	3889 Btuh
	Ceiling Total		3300		3889Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	335.0 ft(p)	43.7	14626 Btuh
	Floor Total		335		14626 Btuh
			Zone Envelope Subtotal:		44873 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	32110	428.1	17342 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**62215 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Morris Residence
, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

9/27/2006

	Subtotal Sensible	62215 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	62215 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

Morris Residence
, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

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

9/27/2006

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	16.0	0.0	16.0	37	94	1505 Btuh
2	1, Clear, 1.27, None,N,N	W	13.5f	10ft.	42.0	42.0	0.0	37	94	1573 Btuh
3	1, Clear, 1.27, None,N,N	S	9.5ft	10ft.	40.0	40.0	0.0	37	43	1498 Btuh
4	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	42.0	0.0	42.0	37	94	3950 Btuh
5	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	12.0	0.0	12.0	37	94	1129 Btuh
6	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	18.0	0.0	18.0	37	37	674 Btuh
7	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	72.0	0.0	72.0	37	94	6771 Btuh
8	1, Clear, 1.27, None,N,N	E	1.5ft	13ft.	56.0	0.0	56.0	37	94	5267 Btuh
9	1, Clear, 1.27, None,N,N	E	4.5ft	13ft.	13.3	0.0	13.3	37	94	1251 Btuh
10	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	24.0	22.0	2.0	37	43	909 Btuh
	Window Total				335 (sqft)					24526 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	2446.7	2.1	5103 Btuh
2	Frame - Wood - Adj	13.0/0.09	632.0	1.5	954 Btuh
	Wall Total		3079 (sqft)		6057 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.0	9.8	176 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	38 (sqft)		372 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3300.0	1.7	5465 Btuh
	Ceiling Total		3300 (sqft)		5465 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	335 (ft(p))	0.0	0 Btuh
	Floor Total		335.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		36421 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	32110	374.6	6972 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	2400	4240 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**47633 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Morris Residence

, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

9/27/2006

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**47633 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**47633 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**47633 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	13690 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**15290 Btuh**
	TOTAL GAIN	**62923 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

Morris Residence

, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

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

9/27/2006

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	16.0	0.0	16.0	37	94	1505 Btuh
2	1, Clear, 1.27, None,N,N	W	13.5f	10ft.	42.0	42.0	0.0	37	94	1573 Btuh
3	1, Clear, 1.27, None,N,N	S	9.5ft	10ft.	40.0	40.0	0.0	37	43	1498 Btuh
4	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	42.0	0.0	42.0	37	94	3950 Btuh
5	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	12.0	0.0	12.0	37	94	1129 Btuh
6	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	18.0	0.0	18.0	37	37	674 Btuh
7	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	72.0	0.0	72.0	37	94	6771 Btuh
8	1, Clear, 1.27, None,N,N	E	1.5ft	13ft.	56.0	0.0	56.0	37	94	5267 Btuh
9	1, Clear, 1.27, None,N,N	E	4.5ft	13ft.	13.3	0.0	13.3	37	94	1251 Btuh
10	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	24.0	22.0	2.0	37	43	909 Btuh
	Window Total				335 (sqft)					24526 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	2446.7	2.1	5103 Btuh
2	Frame - Wood - Adj	13.0/0.09	632.0	1.5	954 Btuh
	Wall Total		3079 (sqft)		6057 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.0	9.8	176 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	38 (sqft)		372 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3300.0	1.7	5465 Btuh
	Ceiling Total		3300 (sqft)		5465 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	335 (ft(p))	0.0	0 Btuh
	Floor Total		335.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		36421 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	32110	374.6	6972 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	2400	4240 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**47633 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Morris Residence

, FL 32025-

Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

9/27/2006

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**47633 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**47633 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**47633 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	13690 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**15290 Btuh**
	TOTAL GAIN	**62923 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

Morris Residence

, FL 32025-

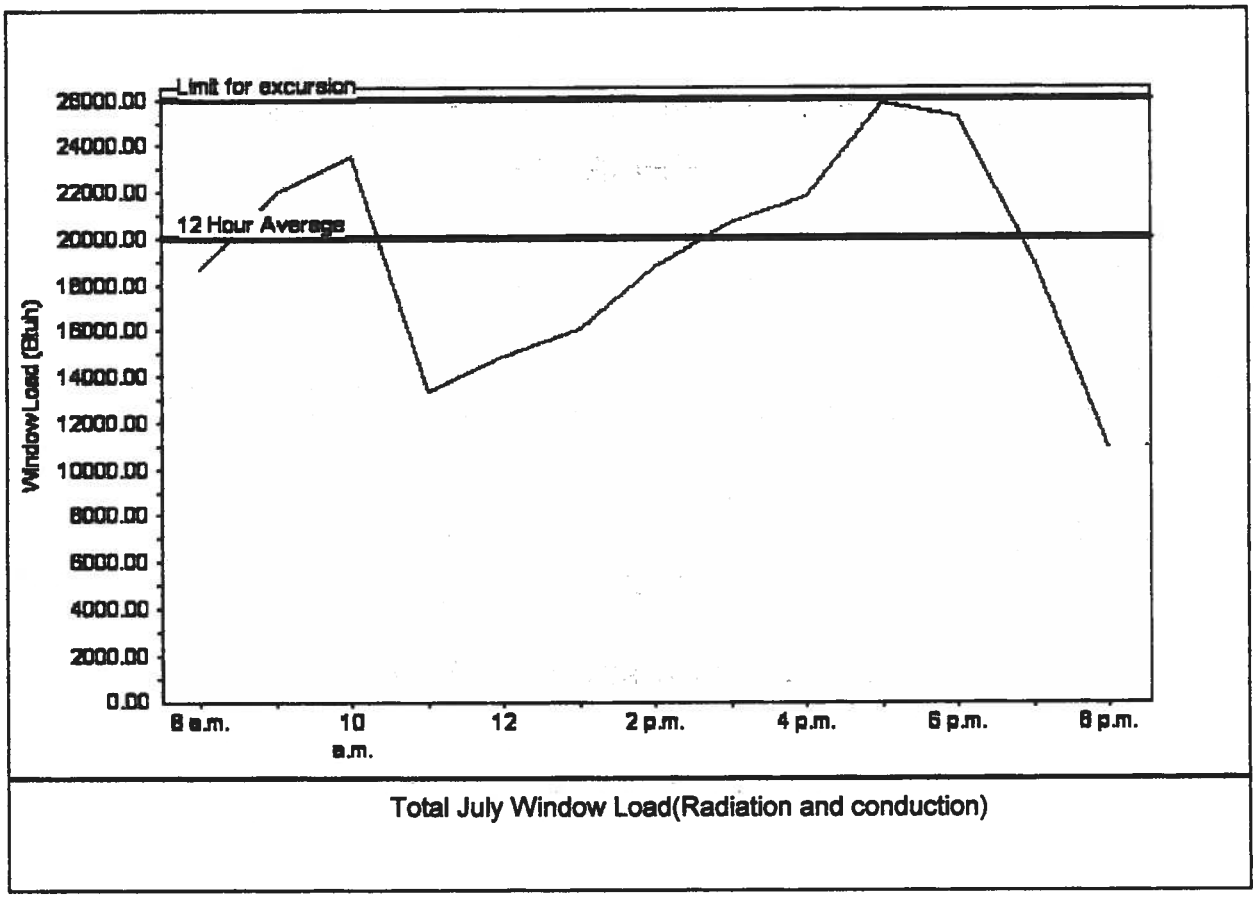
Project Title:
Morris - Robert & Kemberly

Code Only
Professional Version
Climate: North

9/27/2006

Summer design temperature	92 F	Average window load for July	19965 Btu
Summer setpoint	75 F	Peak window load for July	25845 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	25955 Btu
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

The midsummer window load for this house does not exceed the window load excursion limit.

This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

FORM 600A-2004 Tested sealed ducts must be certified in this house. EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Morris - Robert & Kemberly**	Builder:	
Address:	**Lot: , Sub: , Plat:**	Permitting Office:	
City, State:	**, FL 32025-**	Permit Number:	
Owner:	**Morris Residence**	Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 74.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	3211 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 (Sngle Default) 335.3 ft²	a. Electric Heat Pump	Cap: 74.0 kBtu/hr
b. SHGC:			HSPF: 7.20
(or Clear or Tint DEFAULT)	7b. (Clear) 335.3 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 335.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 80.0 gallons
a. Frame, Wood, Exterior	R=13.0, 2446.7 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 632.0 ft²	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, 3300.0 ft²	15. HVAC credits	PT,
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts(Leak Free)		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 100.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.10 Total as-built points: 38568 Total base points: 45294 **PASS**

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

PREPARED BY: _____

DATE: 9-27-06

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

OWNER/AGENT: _____

DATE: 12-4-06

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: **Lot: , Sub: , Plat: , , FL, 32025-** 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	3211.0	20.04	11582.7	Single, Clear	W	1.5	10.0	16.0	43.84	0.98	686.6	
				Single, Clear	W	13.5	10.0	42.0	43.84	0.47	858.4	
				Single, Clear	S	9.5	10.0	40.0	40.81	0.53	861.5	
				Single, Clear	W	1.5	10.0	42.0	43.84	0.98	1802.4	
				Single, Clear	W	1.5	10.0	12.0	43.84	0.98	515.0	
				Single, Clear	N	1.5	10.0	18.0	21.73	0.98	384.0	
				Single, Clear	E	1.5	10.0	72.0	47.92	0.98	3375.3	
				Single, Clear	E	1.5	13.0	56.0	47.92	0.99	2667.1	
				Single, Clear	E	4.5	13.0	13.3	47.92	0.84	534.0	
				Single, Clear	S	1.5	10.0	24.0	40.81	0.96	940.4	
				As-Built Total:				**335.3**			**12624.6**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	632.0	0.70	442.4	Frame, Wood, Exterior	13.0	2446.7	1.50	3670.0
Exterior	2446.7	1.70	4159.4	Frame, Wood, Adjacent	13.0	632.0	0.60	379.2
Base Total:	**3078.7**		**4601.8**	**As-Built Total:**		**3078.7**		**4049.2**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	18.0	1.60	28.8	Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	4.10	82.0	Adjacent Insulated	18.0	1.60	28.8
Base Total:	**38.0**		**110.8**	**As-Built Total:**	**38.0**		**110.8**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	3211.0	1.73	5555.0	Under Attic	30.0	3300.0	1.73 X 1.00	5709.0
Base Total:	**3211.0**		**5555.0**	**As-Built Total:**		**3300.0**		**5709.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	335.0(p)	-37.0	-12395.0	Slab-On-Grade Edge Insulation	0.0	335.0(p	-41.20	-13802.0
Raised	0.0	0.00	0.0					
Base Total:			**-12395.0**	**As-Built Total:**		**335.0**		**-13802.0**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	3211.0	10.21	32784.3	3211.0	10.21	32784.3

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 42239.6			**Summer As-Built Points:**					**41476.0**
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 74000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			41476	1.00	(1.09 x 1.000 x 1.00)	0.284	0.950	12215.2
42239.6	**0.4266**	**18019.4**	**41476.0**	**1.00**	**1.090**	**0.284**	**0.950**	**12215.2**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	3211.0	12.74	7363.5	Single, Clear	W	1.5	10.0	16.0	28.84	1.01	464.1	
				Single, Clear	W	13.5	10.0	42.0	28.84	1.20	1448.8	
				Single, Clear	S	9.5	10.0	40.0	20.24	2.65	2145.5	
				Single, Clear	W	1.5	10.0	42.0	28.84	1.01	1218.2	
				Single, Clear	W	1.5	10.0	12.0	28.84	1.01	348.1	
				Single, Clear	N	1.5	10.0	18.0	33.22	1.00	598.1	
				Single, Clear	E	1.5	10.0	72.0	26.41	1.01	1925.6	
				Single, Clear	E	1.5	13.0	56.0	26.41	1.01	1489.5	
				Single, Clear	E	4.5	13.0	13.3	26.41	1.06	373.9	
				Single, Clear	S	1.5	10.0	24.0	20.24	1.01	491.9	
				As-Built Total:				**335.3**			**10503.7**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	632.0	3.60	2275.2	Frame, Wood, Exterior			13.0	2446.7	3.40		8318.8	
Exterior	2446.7	3.70	9052.8	Frame, Wood, Adjacent			13.0	632.0	3.30		2085.6	
Base Total:	**3078.7**		**11328.0**	**As-Built Total:**				**3078.7**			**10404.4**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	18.0	8.00	144.0	Exterior Insulated				20.0	8.40		168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated				18.0	8.00		144.0	
Base Total:	**38.0**		**312.0**	**As-Built Total:**				**38.0**			**312.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points	
Under Attic	3211.0	2.05	6582.5	Under Attic			30.0	3300.0	2.05 X 1.00		6765.0	
Base Total:	**3211.0**		**6582.5**	**As-Built Total:**				**3300.0**			**6765.0**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	335.0(p)	8.9	2981.5	Slab-On-Grade Edge Insulation			0.0	335.0(p	18.80		6298.0	
Raised	0.0	0.00	0.0									
Base Total:			**2981.5**	**As-Built Total:**				**335.0**			**6298.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	3211.0	-0.59	-1894.5					3211.0	-0.59		-1894.5	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , , FL, 32025-	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**26673.0**	**Winter As-Built Points:**					**32388.6**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 74000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			32388.6	1.000	(1.069 x 1.000 x 1.00)	0.474	0.950	15578.1
26673.0	**0.6274**	**16734.6**	**32388.6**	**1.00**	**1.069**	**0.474**	**0.950**	**15578.1**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2635.00	10540.0	80.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:						**10774.2**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
18019	**16735**	**10540**	**45294**	**12215**	**15578**	**10774**	**38568**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.0

The higher the score, the more efficient the home.

Morris Residence, Lot: , Sub: , Plat: , , FL, 32025-

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family			a. Central Unit	Cap: 74.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 12.00
4.	Number of Bedrooms	4			b. N/A	
5.	Is this a worst case?	No				
6.	Conditioned floor area (ft²)	3211 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 (Sngle Default) 335.3 ft²			a. Electric Heat Pump	Cap: 74.0 kBtu/hr
	b. SHGC:					HSPF: 7.20
	(or Clear or Tint DEFAULT)	7b. (Clear) 335.3 ft²			b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=0.0, 335.0(p) ft			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 80.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 2446.7 ft²				EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 632.0 ft²			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, 3300.0 ft²		15.	HVAC credits	PT,
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 100.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Morris - Robert & Kemberly	Builder:	
Address:		Permitting Office:	
City, State:	, FL 32025-	Permit Number:	
Owner:	Morris Residence	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot).	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	**Total House Duct System Leakage**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,tot) ☐ Receive credit if Q_n,tot≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,out) ☐ Receive credit if Q_n,out≤ 0.03 AND Q_n,tot≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 755-[illegible]
FAX (904) 755-7[illegible]
[illegible]
LAKE CITY, FLORIDA [illegible]
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,

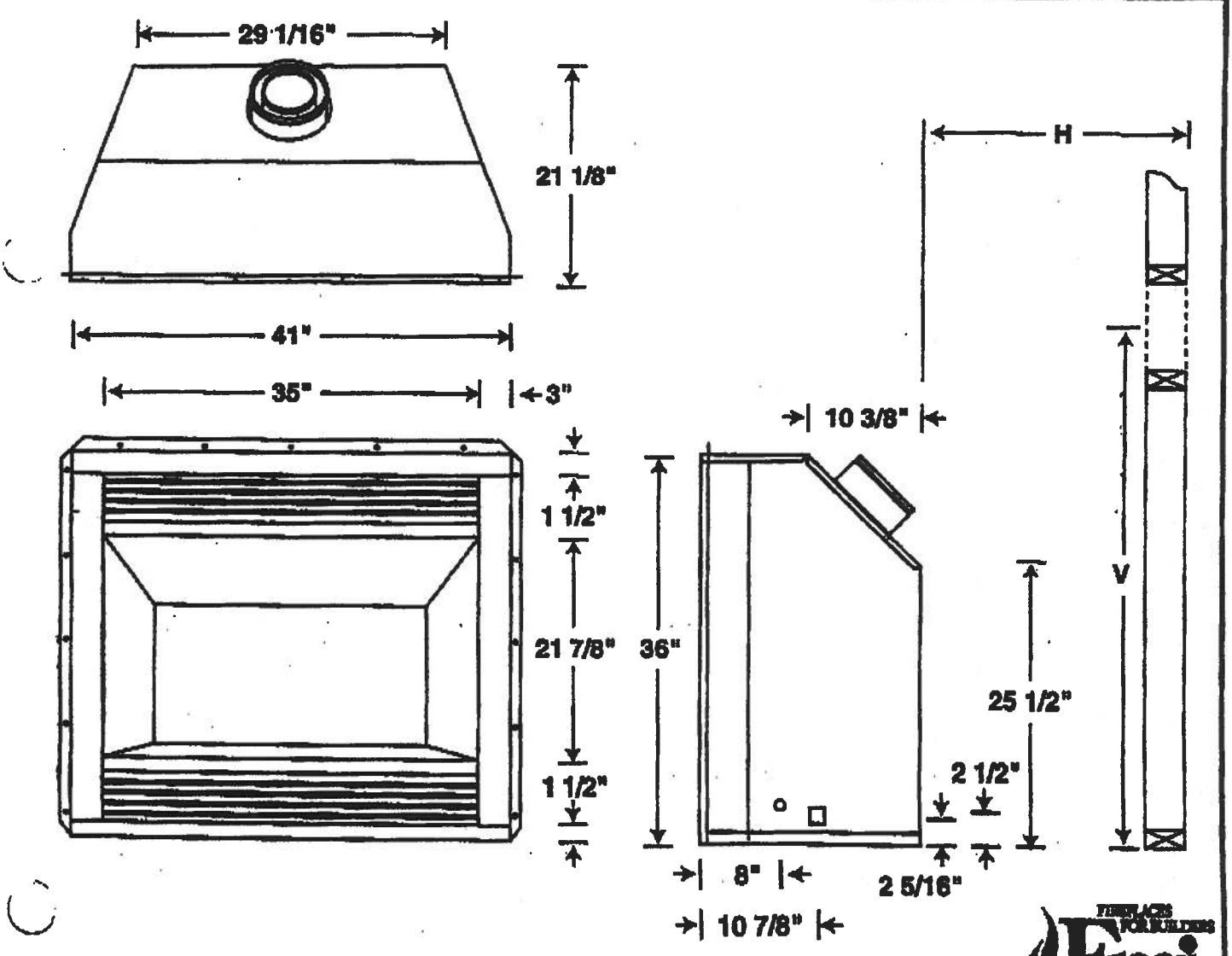
Donald D. Hall
DDH/jk

Victorian

36" Direct Vent Fireplace
(5" - 8" Vent Pipe)

Typ. Ground Floor Installation (1 - 45° Elbow)		
Horiz. Run (H)	Min. Height (V)	Required Horiz. Pipe
17" max.	36"	12" max.

Installations requiring a 45° and 90° Elbow		
Horiz. Run (H)	Min. Height (V)	Required Vert. Pipe
30" max.	47 1/4"	none
48" max.	57 1/4"	12"
60" max.	69 1/4"	24"
84" max.	81 1/4"	36"
144" max.	93 1/4"	48"



Fmi

THE RENAISSANCE SERIES

Victorian

36" AND 42" DIRECT VENT GAS FIREPLACES

Model V36 and V42

Timeless Beauty— And The Latest Technologies

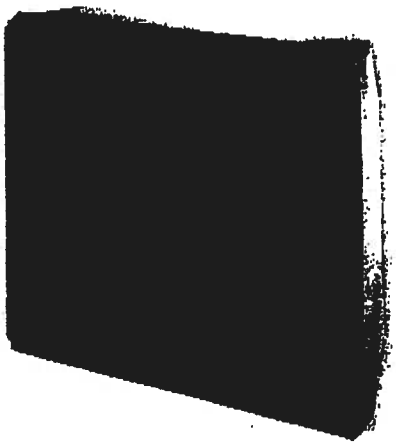
FMI's Victorian direct vent gas fireplaces are the ideal match for today's energy-efficient homes. The Victorian is the centerpiece of our exciting new Renaissance Series, which offers a consistent look, sizing, and construction across the entire line...plus beautiful new features homeowners will love!

Homeowner Highlights:

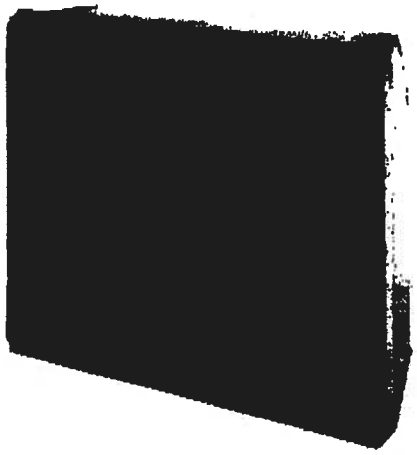
- **Distinctive looks**—Features random flame pattern and realistic glowing ember bed burner...plus exquisite new split oak ceramic fiber logs.
- **Operation and maintenance are a breeze**—Operates from wall switch or remote control. Hinged glass door swings open for easy maintenance and never needs adjustment.
- **Attractive accessories**—You have an array of eye-catching extras, including brass or platinum louvers and trim, realistic textured brick liner kits, and much more.

Builder Benefits:

- **Secure, straight installation**—We've added full-length nailing flanges, and drywall stops.
- **Venting options**—Our 45° slant back design lets you choose between horizontal and vertical venting for painless installation. Your choice of hard or flexible venting.
- **More standard features**—Flex gas connector, shut-off valve and pre-wired "J" box are all standard.



V36N features black rolled louvers.



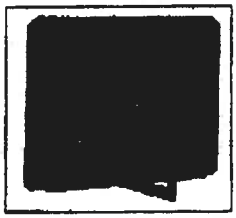
V42NH features black rolled louvers and textured herringbone brick-lined interior.

Victorian Direct Vent Fireplace Product Offering Summary

36" & 42" Direct Vent Fireplace Models Available With The Following:

- Millivolt Or Electronic Ignition
- Natural Or Propane Fuel
- Black, Standard Brick, And Herringbone Pattern Refractory Brick Interiors
- All fireplaces use 5" - 8" pipe. 36" models @ 32,000 Btu/42" models @ 35,000Btu.

Victorian models offer random, tiered flame patterns and gorgeous glowing ember bed burners.

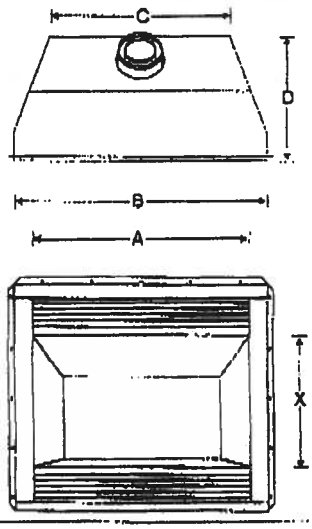


Hinged, tool-less entry door swings open for easy maintenance.

Accessory Offering Summary

- Smooth Face, Stamped Steel and Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Standard & Herringbone Refractory Brick Liners
- Remote Control Kits
- Fan Kits
- Deflection Hoods

Dimensions



	36"	42"
A	36	42
B	41	48
C	29	35
D	21 1/8	23 1/8
E	10 1/3	10 1/3
X	21 3/4	25 3/4
Y	38	40
Z	25 1/2	29 1/3

FIREPLACES FOR BUILDERS Fmi

DESA International
www.desaint.com
For more information, call (800) 888-2050

DESA INTERNATIONAL HPA HEARTH PRODUCTS ASSOCIATION Made in USA

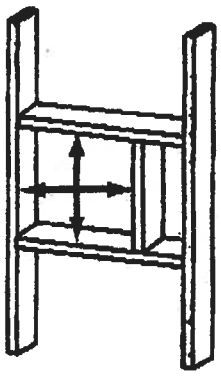
FA2913-0601

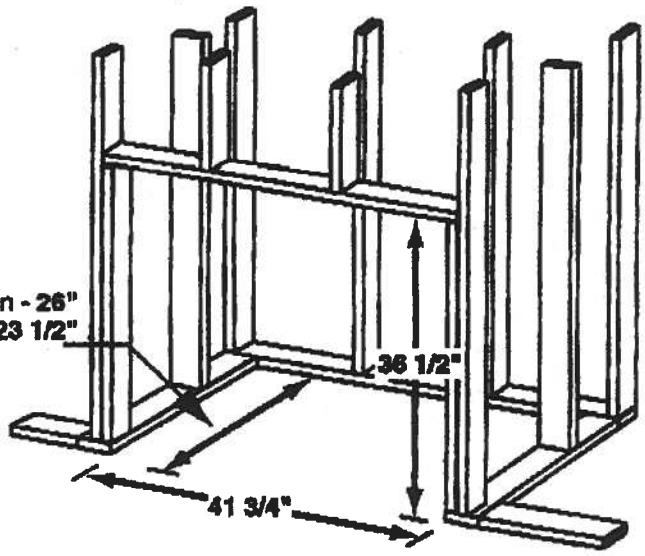
Printed in U.S.A.

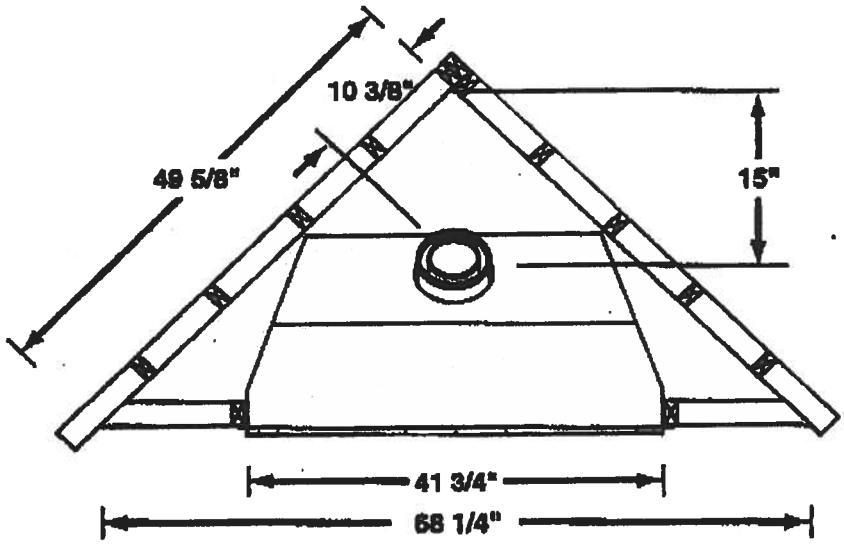
Victorian
36" Direct Vent Fireplace

Framing Dimensions

Vent Opening - 10 3/4" Square (I.D.)







NOTE:
Built-in Features Such as Mantels, Bookshelfs, etc. Made of Combustible Materials Must Maintain Minimum Clearances from the Fireplace. See Installation Instructions for Complete Information

Fmi

Building Code Information System

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authentication | Organization Search | Organization Accreditation

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

Organization Type: Product Manufacturer

Manufact. Buildings

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

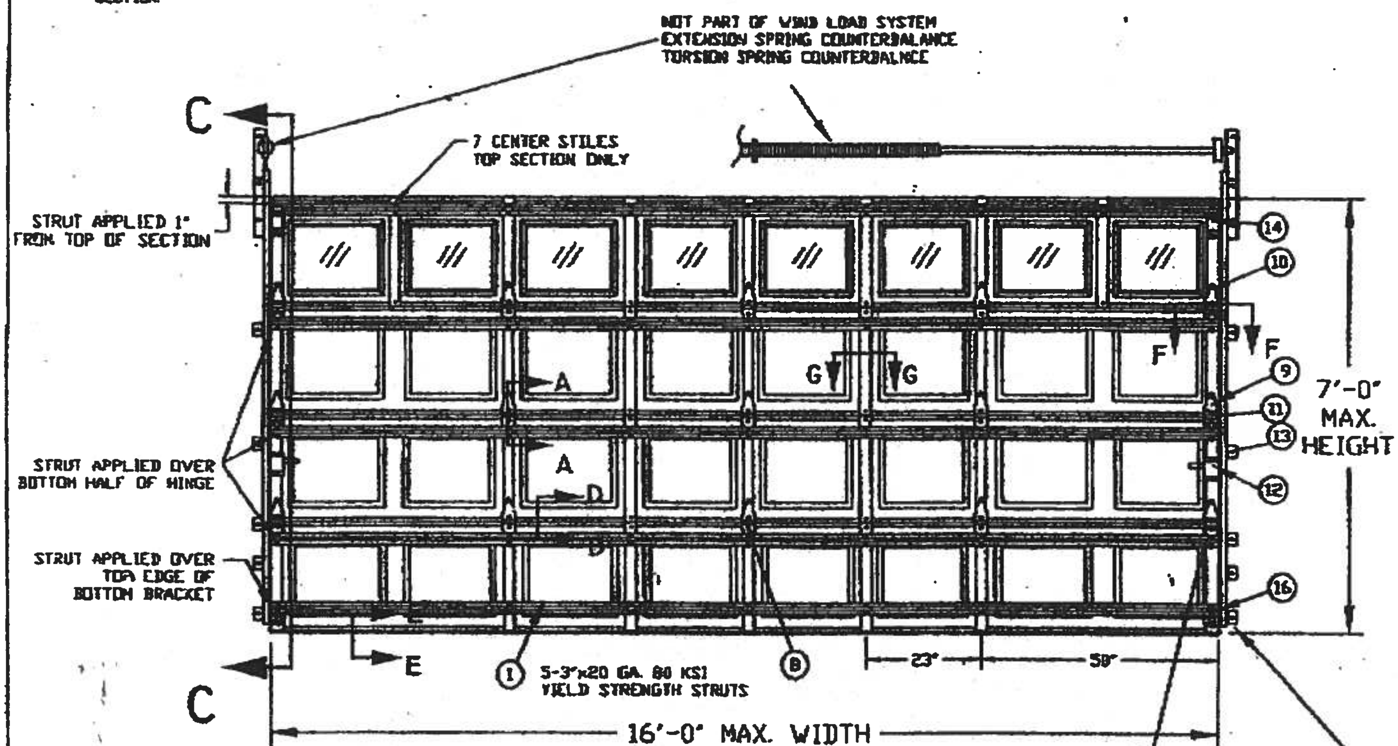
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadco.com			

Displaying 1-1 of 1

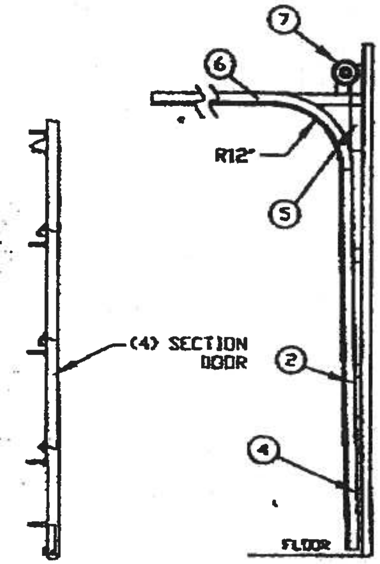
REV.	DATE	BY	DESCRIPTION
A-A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES 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. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR @ AS TESTED.
9. ⚠ DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION



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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 YASER R. REYVAN

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

LISTED
REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/00 (00293)

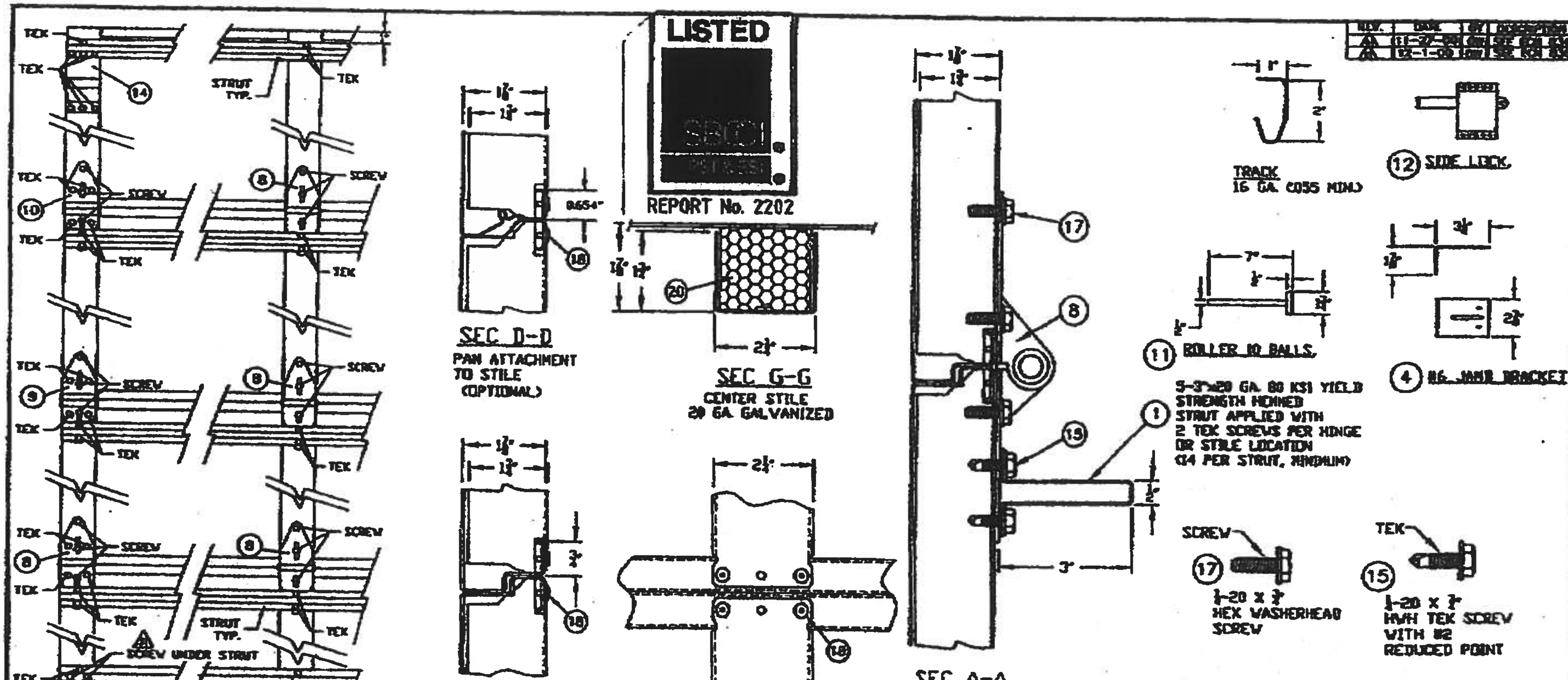
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN ⚠
SERIES 7524, EXTERIOR STEEL =.024" MIN ⚠
(TESTED WITH WINDOWS

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

SCALE: 105	APPROVED BY
DATE: 10-20-00	DRAWN BY: B. VIEDMAN
	REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF	
PART NUMBER: PAGE 1 OF 2	DRAWING NUMBER: V13220-1



23	3495	BOTTOM RAIL 6063 T6 ALUM EXT.
22	[illegible]	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4044	1/4"-20 SERRATED FLANGE NUT
20		1 LB DENSITY FILLER BLOCK EPS
19		
18	[illegible]	POP RIVET 3/32" STEEL
17	[illegible]	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	[illegible]	BOTTOM ROLLER BRACKET
15	[illegible]	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	[illegible]	TOP SUPPORT BRACKET
13	[illegible]	5/16" X 1-5/8" LAG SCREW
12	4710	SIDE LOCK
11	[illegible]	LONG STEM ROLLER 2"
10	[illegible]	ROLLER CARRIER HINGE #3 (14 GA)
9	[illegible]	ROLLER CARRIER HINGE #2 (14 GA)
8	[illegible]	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTERBALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	[illegible]	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HONNED STRUT(20 GA) MIN. YIELD STR. 80KSI
ITEM	PART NO.	DESCRIPTION

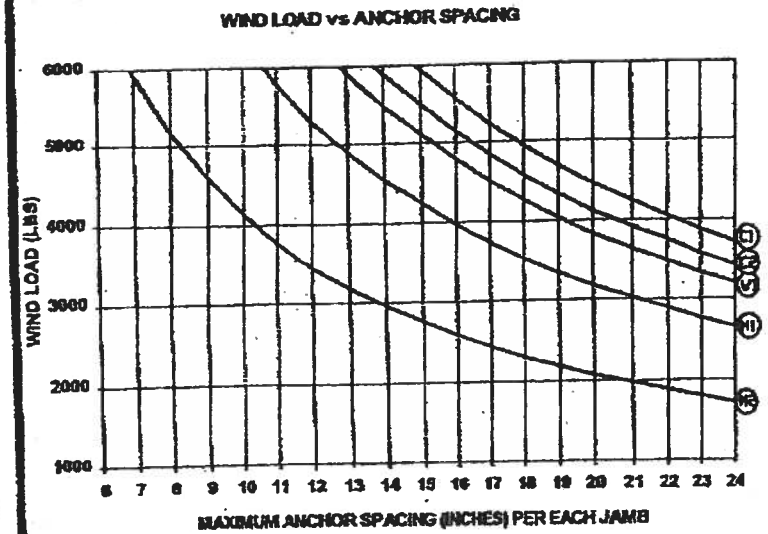
GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE NONE | APPROVED BY | DRAWN BY B. VICKMAN
DATE 11-7-00 | REVISED (B) 12-1-00

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

PAGE 2 OF 2 | DRAWING NUMBER W13220-2



C1 CONCRETE BACKUP HILTI KWIK BOLT II EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

C2 CONCRETE BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

M1 MASONRY/CMU BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

M2 MASONRY/CMU BACKUP ITW BUILDEX TAPCON MASONRY ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

W1 WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 1-1/2" EMBEDMENT

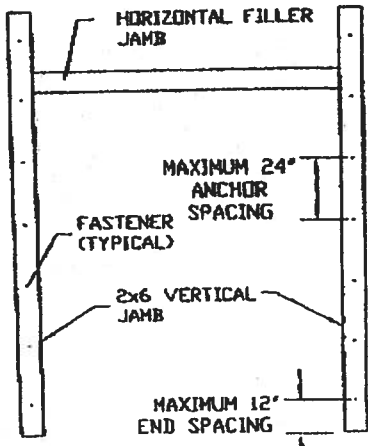
DESIGN LOAD (LBS) / FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

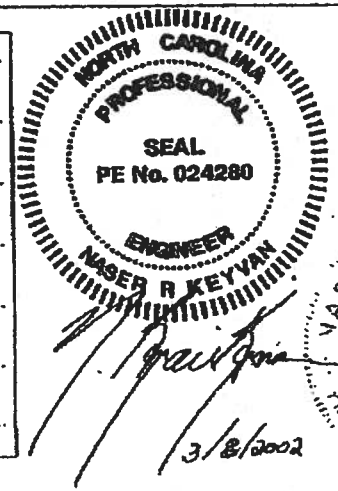
EXAMPLE

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

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- W1 USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





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 2150 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.

GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 8-30-99		REVISED

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

MASTER DRAWING NUMBER: A10560 | DRAWING NUMBER

(CONTINUED from Pg. 2)

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

8. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

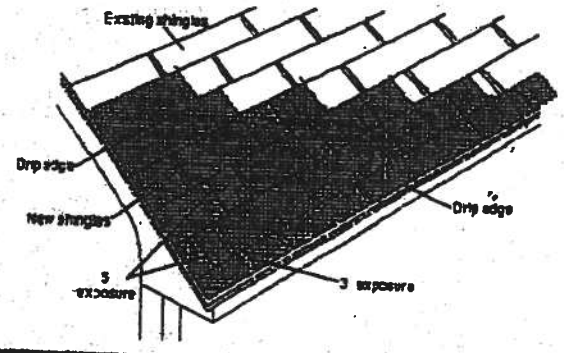
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.



9. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

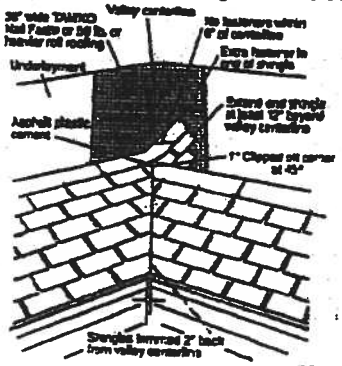
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

- *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)

TAMKO®
ROOFING PRODUCTS

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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

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

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

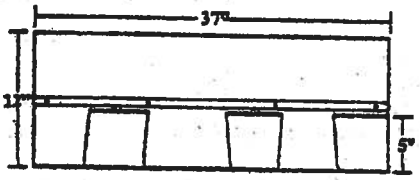
TAMKO Roofing Products, Inc.

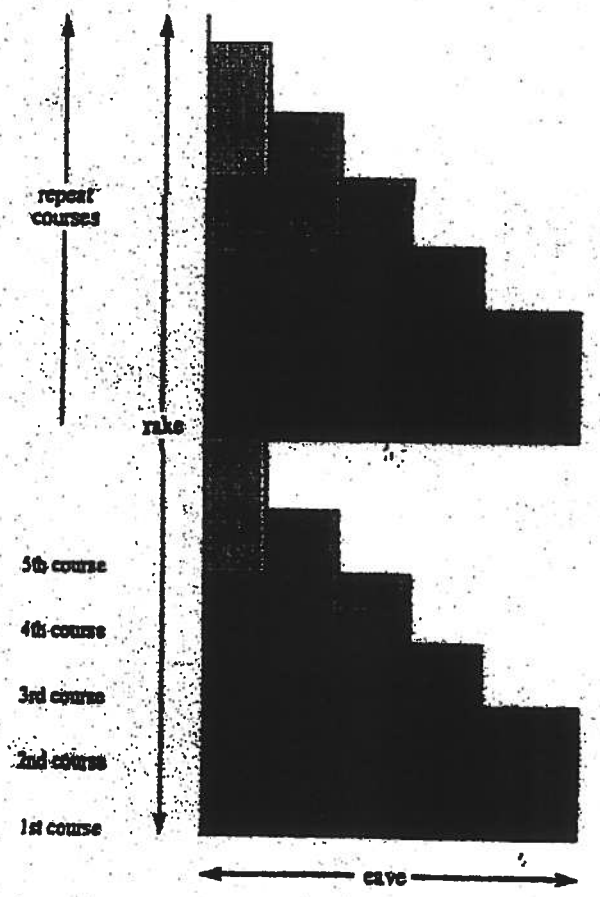
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-841-1925

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:

In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

TAMKO
ROOFING PRODUCTS

Application Instructions for

- Glass-Seal
- Glass-Seal AR
- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING 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.

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.

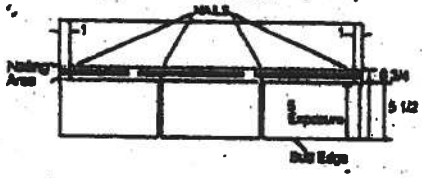
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
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.

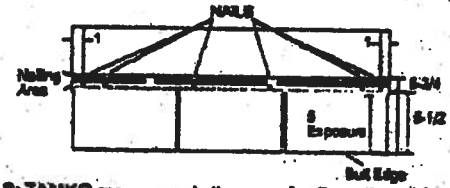
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

I

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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:mlb

ALLEN M. REEVES
LICENSE
NO. 11254
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1 APRIL 2002

II

Architectural Testing

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

Rendered to

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

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass, constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

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

Allan N. Reeves
1 APRIL 2002

ALLAN N. REEVES
No. 18384
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

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

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

ALLEN N. REEVES
CERTIFICATE NO. 19[illegible]
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
1 APRIL 2002

IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft^2	0.3 cfm/ft^2 max
	Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.		
	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.
	**Exceeds L/175 for deflection, but passes all other test requirements.*		
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES ★ CERTIFICATE NO. [illegible] ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★

V

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Optional Performance

Paragraph	Title of Test - Test Method	Results	Allowed
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

Paragraph	Title of Test - Test Method	Results	Allowed
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	[illegible]" max.

Allen N. Reeves
1 APRIL 2002

STATE OF FLORIDA
PROFESSIONAL ENGINEER

VI

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. 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.

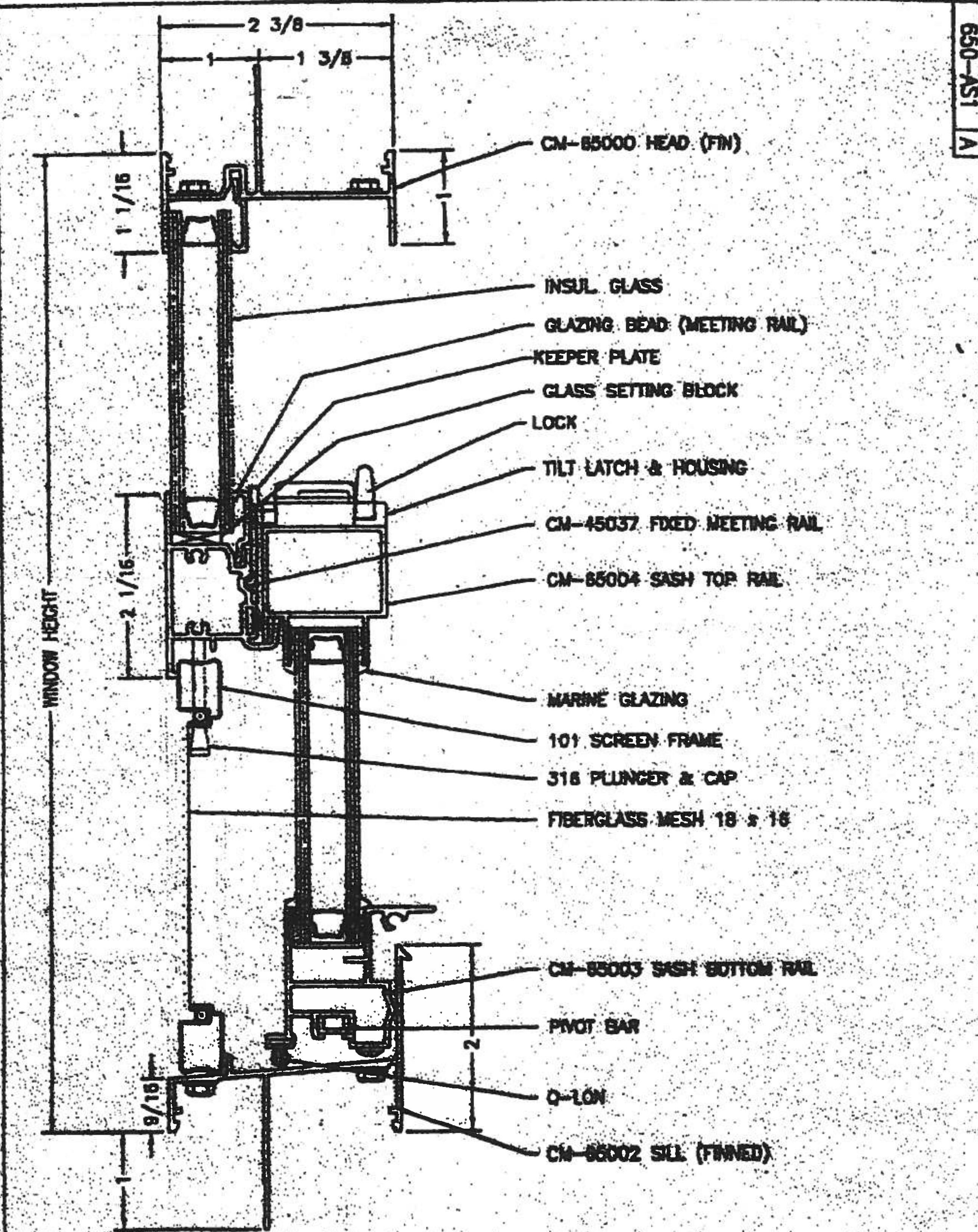
For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:nlb
01-41134.01

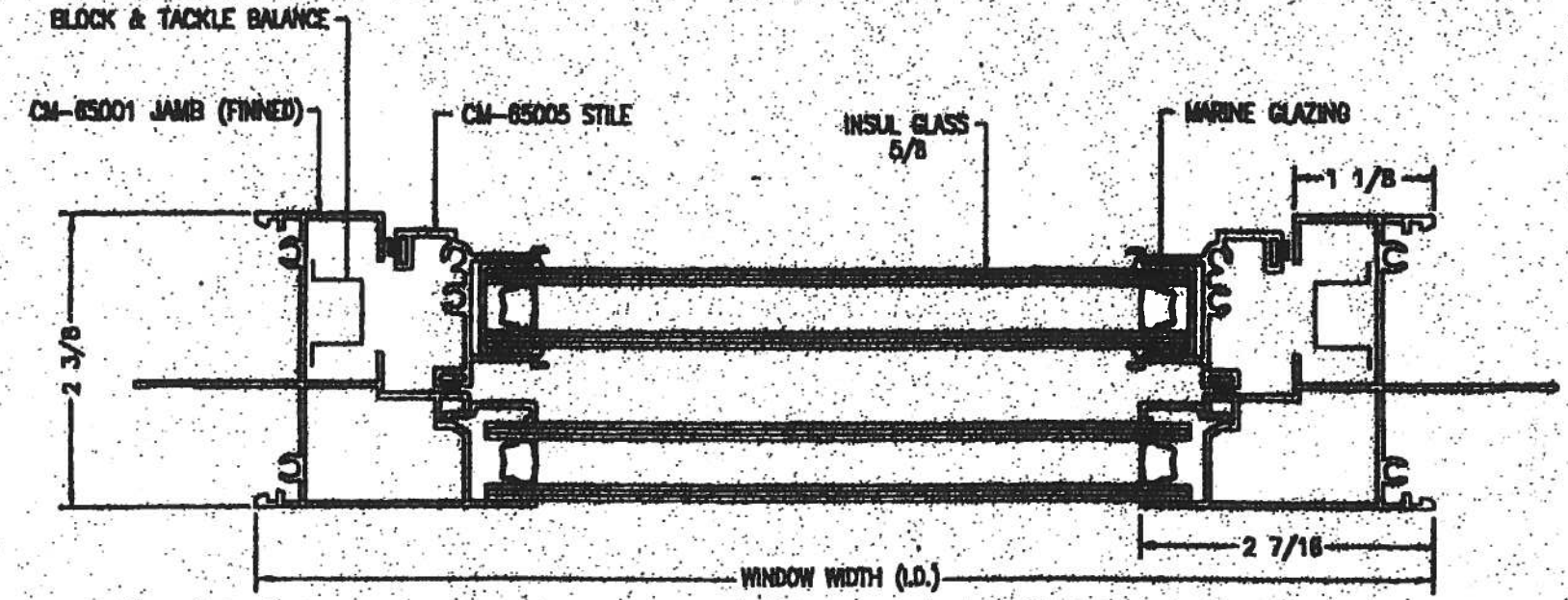
ALLEN N. REEVES
CERTIFICATE
NO. 1[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



MI HOME PRODUCTS
650 WEST MARKET STREET • GRATZ, PA • 17030-0370

TITLE: 650 SH FIN MAIN FRAME VERTICAL CROSS SECTION

Y.M.R. 4-7-02 FULL 650-AS1 A



MI HOME PRODUCTS
950 WEST MARKET STREET • GRATZ, PA • 17030-0370

TITLE: 850 SH FIN MAIN FRAME INSULATED GLASS HORIZONTAL CROSS SECTION

DRN	DATE	SCALE	DRAWING NO.	REV
V.L.R.	4-7-92	FULL	850-AS2	B

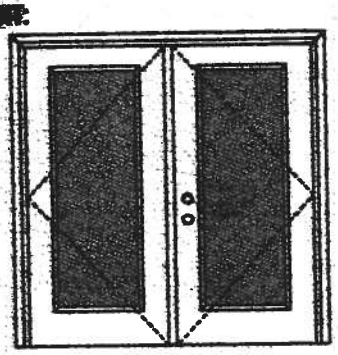
850-AS2 B

XX
Glazed Outswing 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
Minimum 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-national, 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:


100 Series


133, 135 Series


135 Series


600 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


120 Series*


280 Series*


12 SL, 28 WL, 34 WL Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

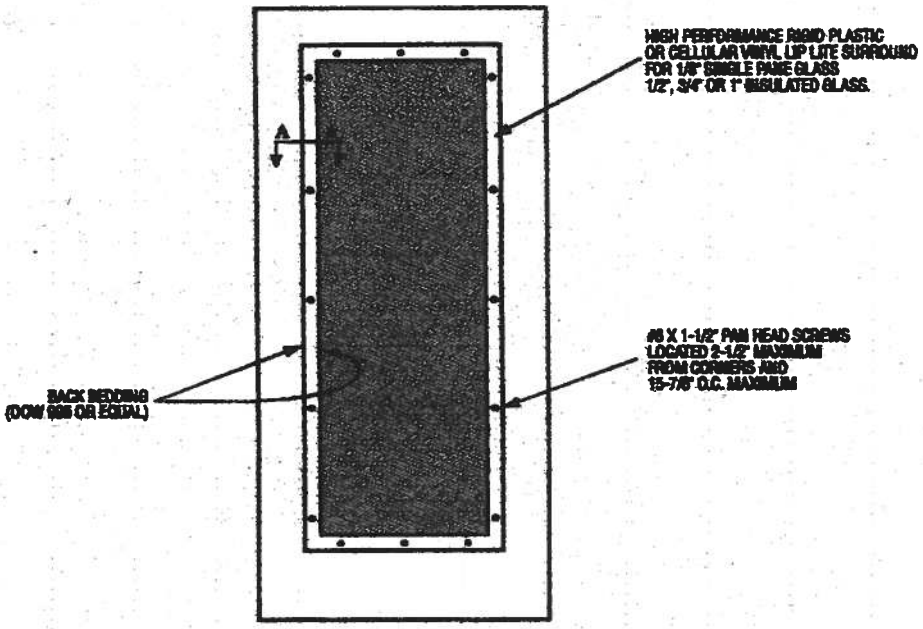
Johnson Entry Systems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product data subject to change without notice.

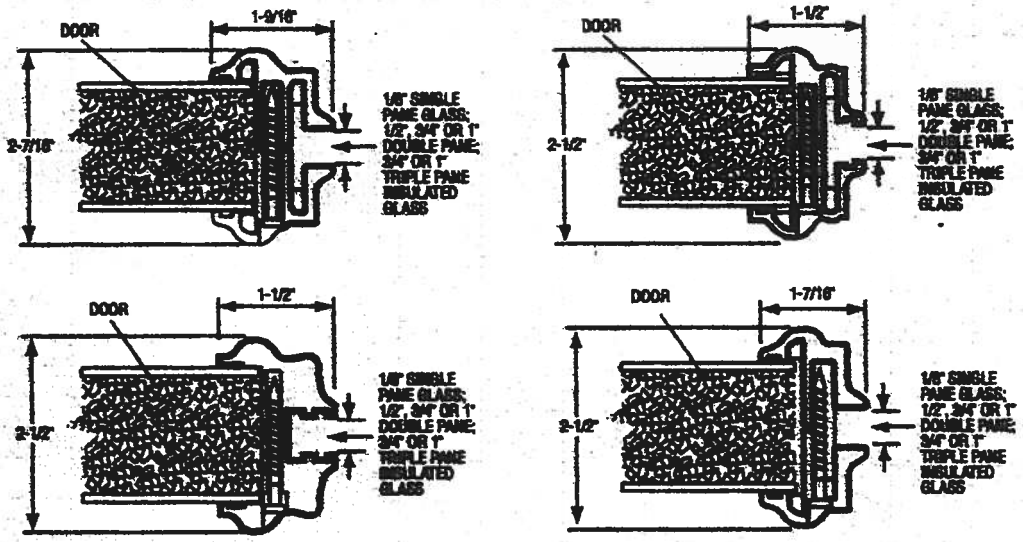
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


410 Series


450 Series

FULL GLASS:


169 Series


114, 120, 122 Series


182 Series


149 Series


800 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 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. Portney, 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 end 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.

PRODUCT 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 Balthazor

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

Johnson Entry Systems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product details subject to change without notice.

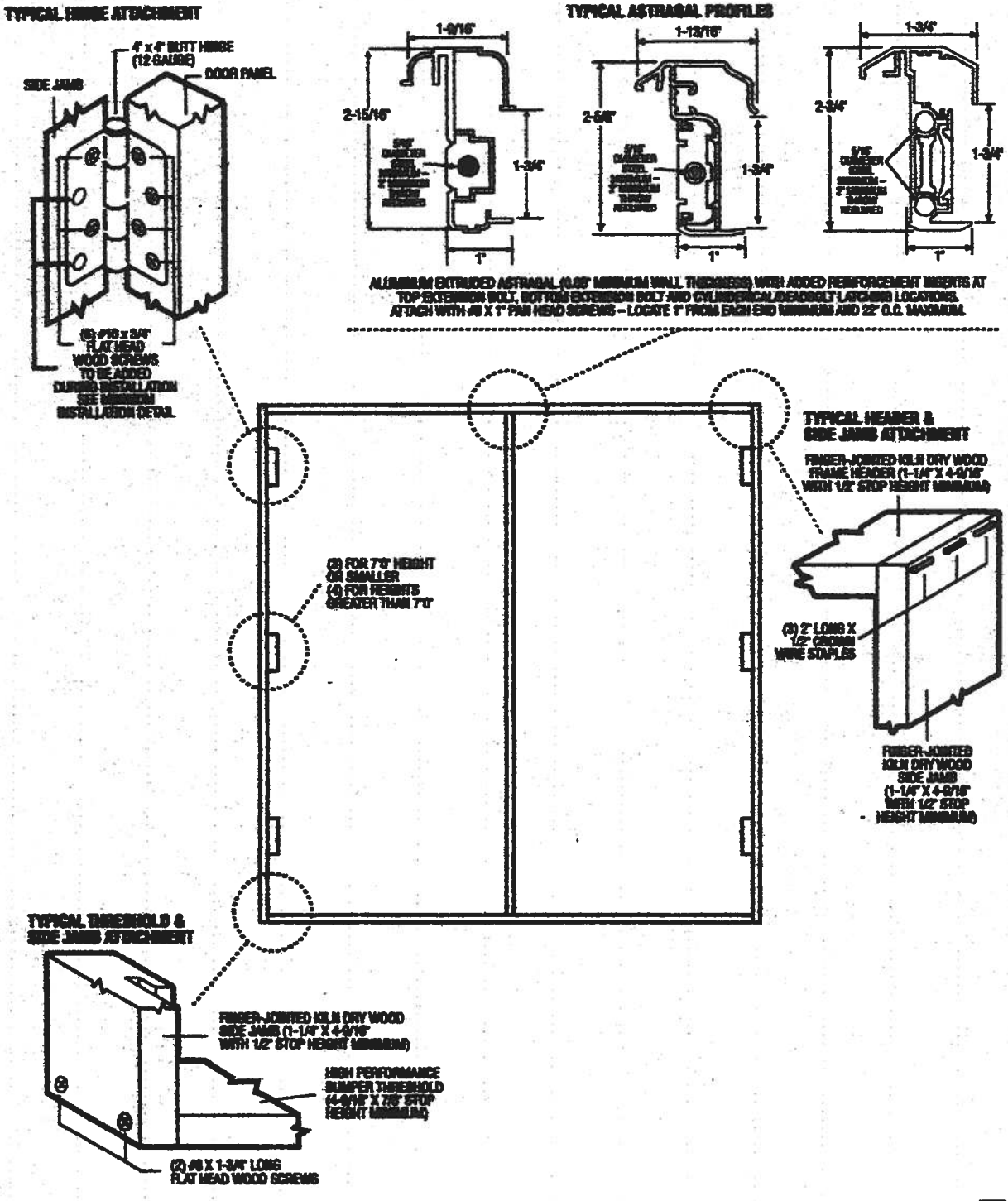
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Unit

[redacted]

OUTSWING UNITS WITH DOUBLE DOOR



March 25, 2002

Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Premium Quality Doors

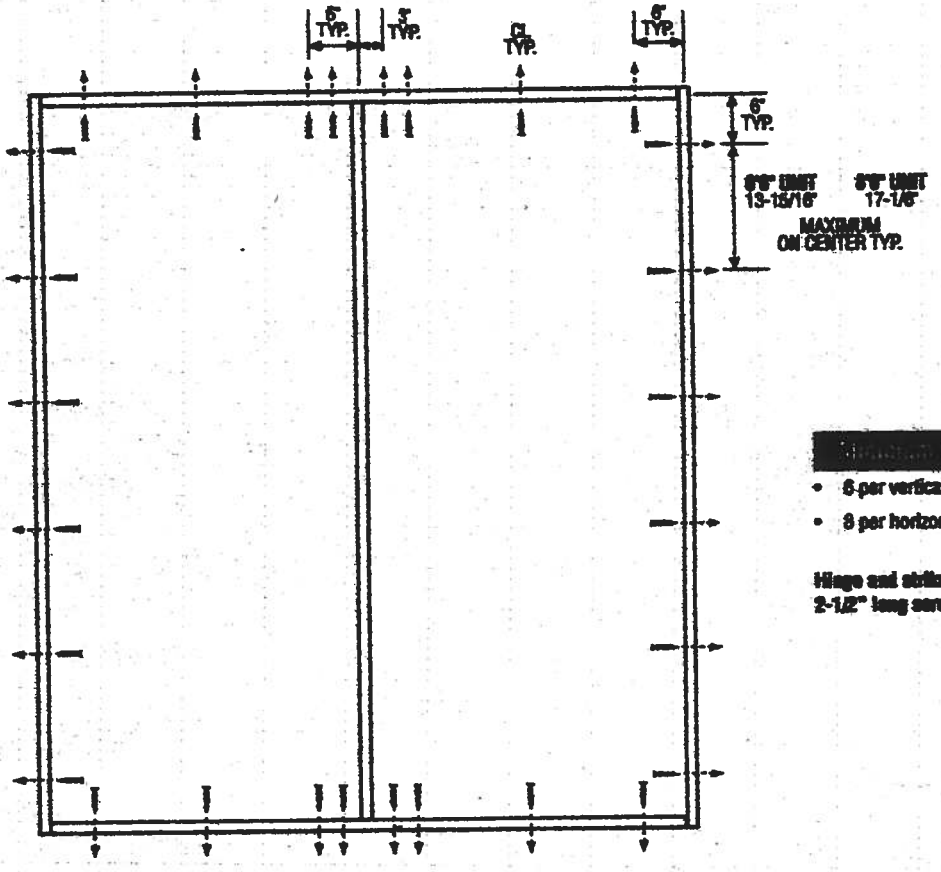
Exclusively from Masonite

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) cylinderical 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 #6 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 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

THIS INSTRUMENT WAS PREPARED BY:
TERRY McDAVID 06-322
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst:2007000566 Date:01/08/2007 Time:14:04
D.C,P.DeWitt Cason,Columbia County B:1107 P:680

PERMIT NO. 25373

TAX FOLIO NO.:

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

   Lot 16, COUNTRY LAKE IN WOODBOROUGH, Phase 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99 of the public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:
   a. Name and address: ROBERT G. MORRIS, JR. and KIMBERLY A. MORRIS
   1012 SW County Road 242, Lake City, FL 32024

   b. Interest in property: Fee Simple

   c. Name and address of fee simple title holder (if other than Owner): None

4. Contractor: ROBERT G. MORRIS, JR.
   1012 SW County Road 242, Lake City, FL 32024

5. Surety n/a
   a. Name and address:
   b. Amount of bond:

6. Lender: COLUMBIA BANK
   Post Office Box 1609
   Lake City, FL 32056

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: NONE

8. In addition to himself, Owner designates NEDRA HORTON of COLUMBIA BANK, Post Office Box 1609, Lake City, FL 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). January 5, 2008.

STATE OF FLORIDA
COUNTY OF COLUMBIA

STATE OF FLORIDA, COUNTY OF COLUMBIA

CIRCUIT COU

ROBERT G. MORRIS, JR.

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 22-3S-16-02267-116 **Building permit No.** 000025373

Use Classification SF/UTILITY **Fire:** 70.62

Permit Holder ROBERT & KIM MORRIS **Waste:** 184.25

Owner of Building ROBERT & KIM MORRIS **Total:** 254.87

Location: 697 NW COUNTRY LAKE DRIVE, LAKE CITY, FL 32055

Date: 11/28/2007

Wayne H. Rush

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Notice of Treatment 12436

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 526 SE Baya Dr.
City Lake City Phone (386) 752-1703

Site Location: Subdivision Woodburrow
Lot # 116 Block# Permit # 00002537S
Address 697 NW Country Lakes Dr. Lake City

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
MAIN BODY	4600	322	250

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

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

02-15-07 1200 NOON [signature]
Date Time Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: _____
City _____ Phone _____

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # _____
Address _____

Product used	Active Ingredient	% Concentration
❑ Premise	Imidacloprid	0.1%
❑ Termidor	Fipronil	0.12%
❑ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ❑ Soil ❑ Wood

Area Treated	Square feet	Linear feet	Gallons Applied

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

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

_____ _____ _____
Date Time Print Technician's Name

Remarks: _____
_____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

Add To 12436

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 SE Baya Dr.
City Lake City Phone (386) 752-1703

Site Location: Subdivision Woodborough
Lot # 16 Block# _____ Permit # 251373
Address 1697 NW Mumby Lakes Dr.

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Perimeter Slab	36	30	

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

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

05-24-07	8:00	R L Crawford
Date	Time	Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©