Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0711-80 Date Received 11/30/07 By LH Permit # 1492/26494

Application Approved by - Zoning Official BLK Date 06.12.07 Plans Examiner JKSTH Date 12-6-07

Flood Zone NPM plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES Low Den.

Comments

Applicants Name Trent Gieberg Const Phone 397-0545

Address 697 SE Holly Terrace Lake City FL 32025

Owners Name Pete Gieberg Phone 752-7968

911 Address 402 SW Mayfair Ln

Contractors Name Trent Gieberg Phone 397-0545

Address 697 SE Holly Terrace Lake City FL 32025

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Freeman Design Group

Mortgage Lenders Name & Address

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

Property ID Number 11-45-16-02911-348 Estimated Cost of Construction [redacted] 100,000

Subdivision Name Mayfair Lot 48 Block X Unit III Phase [redacted]

Driving Directions 247 South Right into Mayfair house on left

Type of Construction frame .56 Number of Existing Dwellings on Property -0-

Total Acreage — Lot Size [redacted] Do you need a (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 27'8" Side 39' Side 154'5" Rear 127'4"

Total Building Height 16'11" Number of Stories 1 Heated Floor Area 1875 TOTAL 2,627 Roof Pitch 6/12

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.

Trent Gieberg Const.
Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number RR2628115523

Competency Card Number 000141

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 28th day of November 2007.

Personally known X or Produced Identification

NOTARY STAMP/SEAL

Notary Signature

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

26484

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001492

DATE 12/10/2007 PARCEL ID # 11-4S-16-02911-348

APPLICANT TRENT GIEBEIG PHONE 397-0545

ADDRESS 697 SE HOLLY TERR LAKE CITY FL 32025

OWNER PETE GIEBEIG PHONE 752-7968

ADDRESS 402 SW MAYFAIR LN LAKE CITY FL 32055

CONTRACTOR TRENT GIEBEIG PHONE 397-0545

LOCATION OF PROPERTY 247 S, R INTO MAYFAIR S/D, 3RD LOT ON THE LEFT PAST LUCILLE CT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT MAYFAIR 48 3

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

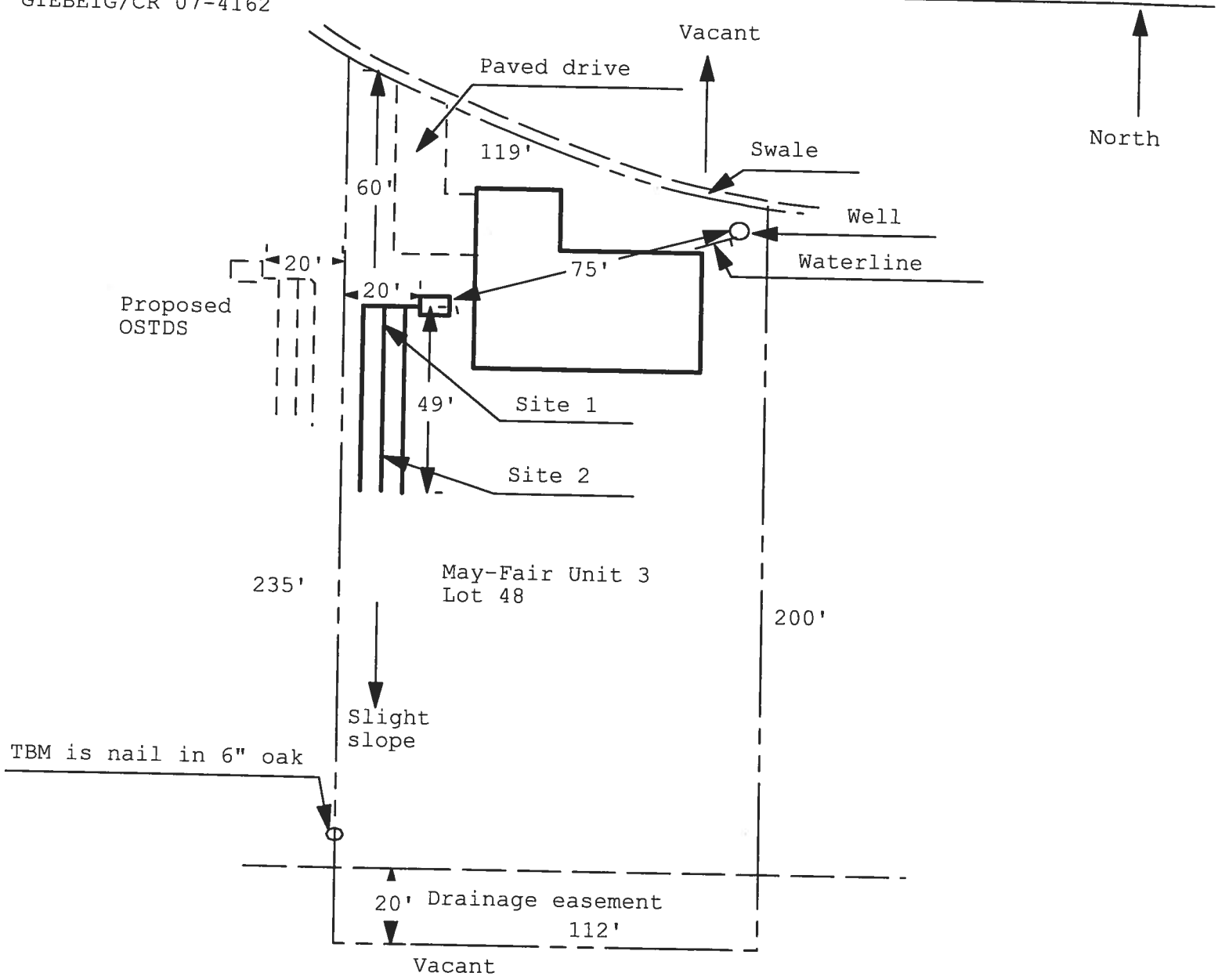
COLUMBIA COUNTY GOVERNMENT FLORIDA

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

Permit Application Number: 07-0893

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

GIEBEIG/CR 07-4162



1 inch = 40 feet

Site Plan Submitted By Paul Pfeil **Date** 11/9/07

Plan Approved ✓ **Not Approved** _____ **Date** 11/26/07

By _____ Columbia **CPHU**

Notes: _____

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Mayfair- Lot #48**	Builder:	**P. Geibeig**
Address:		Permitting Office:	Columbia Co.
City, State:	,	Permit Number:	26
Owner:		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/Split	Cap: 32.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	1875 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 162.0 ft²	13. Heating systems	
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 162.0 ft²	a. Electric Heat Pump/Split	Cap: 32.0 kBtu/hr
8. Floor types			HSPF: 8.50
a. Slab-On-Grade Edge Insulation	R=0.0, 238.0(p) ft	b. N/A	
b. N/A		c. N/A	
c. N/A			
9. Wall types		14. Hot water systems	
a. Frame, Wood, Exterior	R=13.0, 1645.7 ft²	a. Electric Resistance	Cap: 2.0 gallons
b. N/A			EF: 0.94
c. N/A		b. N/A	
d. N/A			
e. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT, CF,
a. Under Attic	R=30.0, 1875.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 62.0 ft		
b. N/A			

Glass/Floor Area: 0.09

Total as-built points: 21982
Total base points: 28329

PASS

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

PREPARED BY: Deborah Mabes

DATE: 11-9-07

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

OWNER/AGENT: _____

DATE: _____

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

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1875.0	18.59	6274.0	1.Double, Clear	N	1.0	6.0	30.0	19.20	0.98	561.0	
				2.Double, Clear	N	1.0	6.0	30.0	19.20	0.98	561.0	
				3.Double, Clear	S	1.0	6.0	30.0	35.87	0.94	1015.0	
				4.Double, Clear	S	1.0	6.0	25.0	35.87	0.94	846.0	
				5.Double, Clear	S	1.0	6.0	30.0	35.87	0.94	1015.0	
				6.Double, Clear	E	1.0	6.0	5.0	42.06	0.97	203.0	
				7.Double, Clear	E	1.0	6.0	6.0	42.06	0.97	244.0	
				8.Double, Clear	W	1.0	6.0	6.0	38.52	0.97	224.0	
				As-Built Total:				**162.0**			**4669.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	1645.7	1.50		2468.5	
Exterior	1645.7	1.70	2797.7									
Base Total:	**1645.7**		**2797.7**	**As-Built Total:**				**1645.7**			**2468.5**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				39.6	4.10		162.4	
Exterior	67.3	6.10	410.7	2.Exterior Insulated				27.7	4.10		113.7	
Base Total:	**67.3**		**410.7**	**As-Built Total:**				**67.3**			**276.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1875.0	1.73	3243.8	1. Under Attic			30.0	1875.0	1.73 X 1.00		3243.8	
Base Total:	**1875.0**		**3243.8**	**As-Built Total:**				**1875.0**			**3243.8**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	238.0(p)	-37.0	-8806.0	1. Slab-On-Grade Edge Insulation			0.0	238.0(p	-41.20		-9805.6	
Raised	0.0	0.00	0.0									
Base Total:			**-8806.0**	**As-Built Total:**				**238.0**			**-9805.6**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1875.0	10.21	19143.8					1875.0	10.21		19143.8	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 23063.8			**Summer As-Built Points:**					**19995.5**
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 32000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)					
			19995	1.00	(1.00 x 1.147 x 0.91)	0.260	0.902	4897.3
23063.8	**0.3250**	**7495.7**	**19995.5**	**1.00**	**1.044**	**0.260**	**0.902**	**4897.3**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1875.0	20.17	6807.0	1.Double, Clear	N	1.0	6.0	30.0	24.58	1.00	737.0	
				2.Double, Clear	N	1.0	6.0	30.0	24.58	1.00	737.0	
				3.Double, Clear	S	1.0	6.0	30.0	13.30	1.02	408.0	
				4.Double, Clear	S	1.0	6.0	25.0	13.30	1.02	340.0	
				5.Double, Clear	S	1.0	6.0	30.0	13.30	1.02	408.0	
				6.Double, Clear	E	1.0	6.0	5.0	18.79	1.02	95.0	
				7.Double, Clear	E	1.0	6.0	6.0	18.79	1.02	114.0	
				8.Double, Clear	W	1.0	6.0	6.0	20.73	1.01	125.0	
				As-Built Total:				**162.0**			**2964.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	13.0	1645.7	3.40	5595.4
Exterior	1645.7	3.70	6089.1					
Base Total:	**1645.7**		**6089.1**	**As-Built Total:**		**1645.7**		**5595.4**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated	39.6	8.40	332.6
Exterior	67.3	12.30	828.0	2.Exterior Insulated	27.7	8.40	232.8
Base Total:	**67.3**		**828.0**	**As-Built Total:**	**67.3**		**565.5**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	1875.0	2.05	3843.8	1. Under Attic	30.0	1875.0	2.05 X	1.00	3843.8
Base Total:	**1875.0**		**3843.8**	**As-Built Total:**		**1875.0**			**3843.8**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	238.0(p)	8.9	2118.2	1. Slab-On-Grade Edge Insulation	0.0	238.0(p	18.80	4474.4
Raised	0.0	0.00	0.0					
Base Total:			**2118.2**	**As-Built Total:**		**238.0**		**4474.4**

INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points
	1875.0	-0.59	-1106.2		1875.0	-0.59	-1106.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**18579.8**	**Winter As-Built Points:**					**16336.8**
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 32000 btuh ,EFF(8.5) Ducts:Con(S),Con(R),Int(AH),R6.0					
18579.8	**0.5540**	**10293.2**	16336.8 **16336.8**	1.000 **1.00**	(1.000 x 1.169 x 0.93) **1.087**	0.401 **0.401**	0.950 **0.950**	6769.0 **6769.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4	2635.00	10540.0		2.0	0.94	4	1.00	2578.94	1.00	10315.7	
				As-Built Total:						**10315.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
7496	**10293**	**10540**	**28329**	**4897**	**6769**	**10316**	**21982**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 88.6

The higher the score, the more efficient the home.

1.	New construction or existing	New			
2.	Single family or multi-family	Single family			
3.	Number of units, if multi-family	1			
4.	Number of Bedrooms	4			
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	1875 ft²			
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor:	Description Area			
	(or Single or Double DEFAULT)	7a. (Dble Default) 162.0 ft²			
b.	SHGC:				
	(or Clear or Tint DEFAULT)	7b. (Clear) 162.0 ft²			
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 238.0(p) ft			
b.	N/A				
c.	N/A				
9.	Wall types				
a.	Frame, Wood, Exterior	R=13.0, 1645.7 ft²			
b.	N/A				
c.	N/A				
d.	N/A				
e.	N/A				
10.	Ceiling types				
a.	Under Attic	R=30.0, 1875.0 ft²			
b.	N/A				
c.	N/A				
11.	Ducts				
a.	Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 62.0 ft			
b.	N/A				
12.	Cooling systems				
a.	Central Unit/Split		Cap: 32.0 kBtu/hr		
			SEER: 13.00		
b.	N/A				
c.	N/A				
13.	Heating systems				
a.	Electric Heat Pump/Split		Cap: 32.0 kBtu/hr		
			HSPF: 8.50		
b.	N/A				
c.	N/A				
14.	Hot water systems				
a.	Electric Resistance		Cap: 2.0 gallons		
			EF: 0.94		
b.	N/A				
c.	Conservation credits				
	(HR-Heat recovery, Solar DHP-Dedicated heat pump)				
15.	HVAC credits		PT, CF,		
	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)				

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

Builder Signature: _____ Date: _____

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

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

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

BUILDING INPUT SUMMARY REPORT

PROJECT

Title:	Mayfair- Lot #48	**Family Type:**	Single	**Address Type:**	Street Address
Owner:	(blank)	**New/Existing:**	New	**Lot #:**	N/A
# of Units:	1	**Bedrooms:**	4	**Subdivision:**	N/A
Builder Name:	P. Geibeig	**Conditioned Area:**	1875	**Platbook:**	N/A
Climate:	North	**Total Stories:**	1	**Street:**	(blank)
Permit Office:	(blank)	**Worst Case:**	No	**County:**	(blank)
Jurisdiction #:	(blank)	**Rotate Angle:**	(blank)	**City, St, Zip:**	, ,

FLOORS

#	Floor Type	R-Val	Area/Perimeter	Units
1	Slab-On-Grade Edge Insulation	0.0	238.0(p) ft	1

DOORS

#	Door Type	Orientation	Area	Units
1	Insulated	Exterior	39.6 ft²	1
2	Insulated	Exterior	27.7 ft²	1

CEILINGS

#	Ceiling Type	R-Val	Area	Base Area	Units
1	Under Attic	30.0	1875.0 ft²	1875.0 ft²	1

Credit Multipliers: None

COOLING

#	System Type	Efficiency	Capacity
1	Central Unit/Split	SEER: 13.00	32.0 kBtu/hr

Credit Multipliers: Ceil Fn, PT

WALLS

#	Wall Type	Location	R-Val	Area	Units
1	Frame - Wood	Exterior	13.0	1645.7 ft²	1

HEATING

#	System Type	Efficiency	Capacity
1	Electric Heat Pump/Split	HSPF: 8.50	32.0 kBtu/hr

Credit Multipliers: PT

WINDOWS

#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
1	Double	Clear	N	15.0 ft²	1.0 ft	6.0 ft	2
2	Double	Clear	N	30.0 ft²	1.0 ft	6.0 ft	1
3	Double	Clear	S	15.0 ft²	1.0 ft	6.0 ft	2
4	Double	Clear	S	25.0 ft²	1.0 ft	6.0 ft	1
5	Double	Clear	S	15.0 ft²	1.0 ft	6.0 ft	2
6	Double	Clear	E	5.0 ft²	1.0 ft	6.0 ft	1
7	Double	Clear	E	6.0 ft²	1.0 ft	6.0 ft	1
8	Double	Clear	W	6.0 ft²	1.0 ft	6.0 ft	1

DUCTS

#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length
1	Cond.	Cond.	Interior	6.0	62.0 ft

Credit Multipliers: None

WATER

#	System Type	EF	Cap.	Conservation Type	Con. EF
1	Electric Resistance	0.94	2.0	None	0.00

REFR.

#	Use Default?	Annual Operating Cost	Electric Rate
1	Yes	N/A	N/A

MISC

Rater Name:	CodeOnlyPro	**Class #:**	3	**Pool Size:**	0
Rater Certification #:	CodeOnlyPro	**Duct Leakage Type:**	N/A	**Pump Size:**	0.00 hp
Area Under Fluorescent:	0.0	**Visible Duct Disconnects:**	N/A	**Dryer Type:**	Electric
Area Under Incandescent:	1875.0	**Leak Free Duct System Proposed:**	No	**Stove Type:**	Electric
NOTE: Not all Rating info shown		**HRV/ERV System Present?:**	No	**Avg Ceil Hgt:**	

Residential System Sizing Calculation

Summary

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

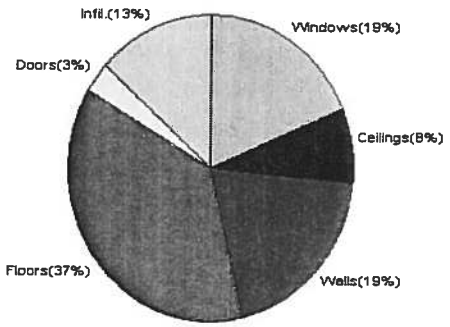
11/9/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**27737**	**Btuh**	**Total cooling load calculation**	**16591**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	115.4	32000	Sensible (SHR = 0.75)	165.0	24000
Heat Pump + Auxiliary(0.0kW)	115.4	32000	Latent	391.3	8000
			Total (Electric Heat Pump)	192.9	32000

WINTER CALCULATIONS

Winter Heating Load (for 1875 sqft)

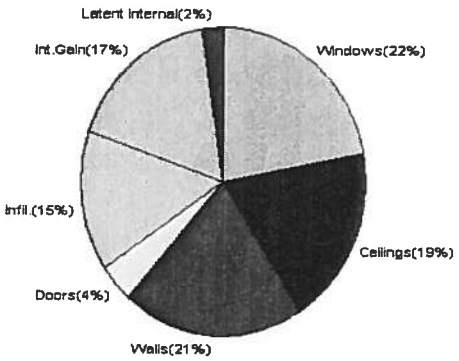
Load component			Load	
Window total	162	sqft	5215	Btuh
Wall total	1646	sqft	5405	Btuh
Door total	67	sqft	872	Btuh
Ceiling total	1875	sqft	2209	Btuh
Floor total	238	sqft	10391	Btuh
Infiltration	90	cfm	3646	Btuh
Duct loss			0	Btuh
Subtotal			**27737**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**27737**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1875 sqft)

Load component			Load	
Window total	162	sqft	3651	Btuh
Wall total	1646	sqft	3433	Btuh
Door total	67	sqft	660	Btuh
Ceiling total	1875	sqft	3105	Btuh
Floor total			0	Btuh
Infiltration	45	cfm	837	Btuh
Internal gain			2860	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**14546**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			1645	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			400	Btuh
Total latent gain			**2045**	**Btuh**
TOTAL HEAT GAIN			**16591**	**Btuh**



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Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Melissa S Mates
DATE: 11-9-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

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

11/9/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	N	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	S	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	S	25.0	32.2	805 Btuh
5	2, Clear, Metal, 0.87	S	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	E	5.0	32.2	161 Btuh
7	2, Clear, Metal, 0.87	E	6.0	32.2	193 Btuh
8	2, Clear, Metal, 0.87	W	6.0	32.2	193 Btuh
	Window Total		162(sqft)		5215 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1646	3.3	5405 Btuh
	Wall Total		1646		5405 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	513 Btuh
2	Insulated - Exterior		28	12.9	359 Btuh
	Door Total		67		872Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1875	1.2	2209 Btuh
	Ceiling Total		1875		2209Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	238.0 ft(p)	43.7	10391 Btuh
	Floor Total		238		10391 Btuh
				Envelope Subtotal:	24092 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.32	16875	1646 90.0	3646 Btuh
Ductload				(DLM of 0.000)	0 Btuh
All Zones				**Sensible Subtotal All Zones**	**27737 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	27737 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27737 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

11/9/2007

EQUIPMENT		
1. Electric Heat Pump/Split	#(Outside) #(Inside)	32000 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)

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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

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

11/9/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	N	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	S	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	S	25.0	32.2	805 Btuh
5	2, Clear, Metal, 0.87	S	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	E	5.0	32.2	161 Btuh
7	2, Clear, Metal, 0.87	E	6.0	32.2	193 Btuh
8	2, Clear, Metal, 0.87	W	6.0	32.2	193 Btuh
	Window Total		162(sqft)		5215 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1646	3.3	5405 Btuh
	Wall Total		1646		5405 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	513 Btuh
2	Insulated - Exterior		28	12.9	359 Btuh
	Door Total		67		872Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1875	1.2	2209 Btuh
	Ceiling Total		1875		2209Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	238.0 ft(p)	43.7	10391 Btuh
	Floor Total		238		10391 Btuh
			Zone Envelope Subtotal:		24092 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.32	16875	1646 90.0	3646 Btuh
Ductload	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)(DLM of 0.000)				0 Btuh
Zone #1			**Sensible Zone Subtotal**		**27737 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

11/9/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	27737 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27737 Btuh

EQUIPMENT

1. Electric Heat Pump/Split	#(Outside) #(Inside)	32000 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)

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System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/9/2007

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, B-D, N,F	N	1ft.	6ft.	30.0	0.0	30.0	19	19	560 Btuh
2	2, Clear, 0.87, B-D, N,F	N	1ft.	6ft.	30.0	0.0	30.0	19	19	560 Btuh
3	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	30.0	30.0	0.0	19	23	560 Btuh
4	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	25.0	25.0	0.0	19	23	467 Btuh
5	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	30.0	30.0	0.0	19	23	560 Btuh
6	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	5.0	0.0	5.0	19	55	277 Btuh
7	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	6.0	0.0	6.0	19	55	333 Btuh
8	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	6.0	0.0	6.0	19	55	333 Btuh
	Window Total				162 (sqft)					3651 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1645.7	2.1	3433 Btuh
	Wall Total		1646 (sqft)		3433 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		39.6	9.8	388 Btuh
2	Insulated - Exterior		27.7	9.8	272 Btuh
	Door Total		67 (sqft)		660 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1875.0	1.7	3105 Btuh
	Ceiling Total		1875 (sqft)		3105 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	238 (ft(p))	0.0	0 Btuh
	Floor Total		238.0 (sqft)		0 Btuh
			Envelope Subtotal:		10849 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)		CFM=	Load
	SensibleNatural	0.16	16875	1646		90.0	837 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load
		2	X	230	+	2400	2860 Btuh
					Sensible Envelope Load:		14546 Btuh
Duct load					(DGM of 0.000)		0 Btuh
					Sensible Load All Zones		**14546 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

11/9/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**14546 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**14546 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**14546 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	1645 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2045 Btuh**
	TOTAL GAIN	**16591 Btuh**

EQUIPMENT

1. Central Unit/Split	#(Outside) #(Inside)	32000 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)

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System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/9/2007

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, B-D, N,F	N	1ft.	6ft.	30.0	0.0	30.0	19	19	560 Btuh
2	2, Clear, 0.87, B-D, N,F	N	1ft.	6ft.	30.0	0.0	30.0	19	19	560 Btuh
3	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	30.0	30.0	0.0	19	23	560 Btuh
4	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	25.0	25.0	0.0	19	23	467 Btuh
5	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	30.0	30.0	0.0	19	23	560 Btuh
6	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	5.0	0.0	5.0	19	55	277 Btuh
7	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	6.0	0.0	6.0	19	55	333 Btuh
8	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	6.0	0.0	6.0	19	55	333 Btuh
	Window Total				162 (sqft)					3651 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1645.7	2.1	3433 Btuh
	Wall Total		1646 (sqft)		3433 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		39.6	9.8	388 Btuh
2	Insulated - Exterior		27.7	9.8	272 Btuh
	Door Total		67 (sqft)		660 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1875.0	1.7	3105 Btuh
	Ceiling Total		1875 (sqft)		3105 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	238 (ft(p))	0.0	0 Btuh
	Floor Total		238.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		10849 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.16	16875	1646	45.0	837 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		2	X 230	+	2400	2860 Btuh
				Sensible Envelope Load:		14546 Btuh
Duct load	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)			(DGM of 0.000)		0 Btuh
				Sensible Zone Load		**14546 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
Mayfair- Lot #48

Code Only
Professional Version
Climate: North

11/9/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**14546 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**14546 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**14546 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	1645 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2045 Btuh**
	TOTAL GAIN	**16591 Btuh**

EQUIPMENT

1. Central Unit/Split	#(Outside) #(Inside)	32000 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)

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Project Title:
Mayfair- Lot #48

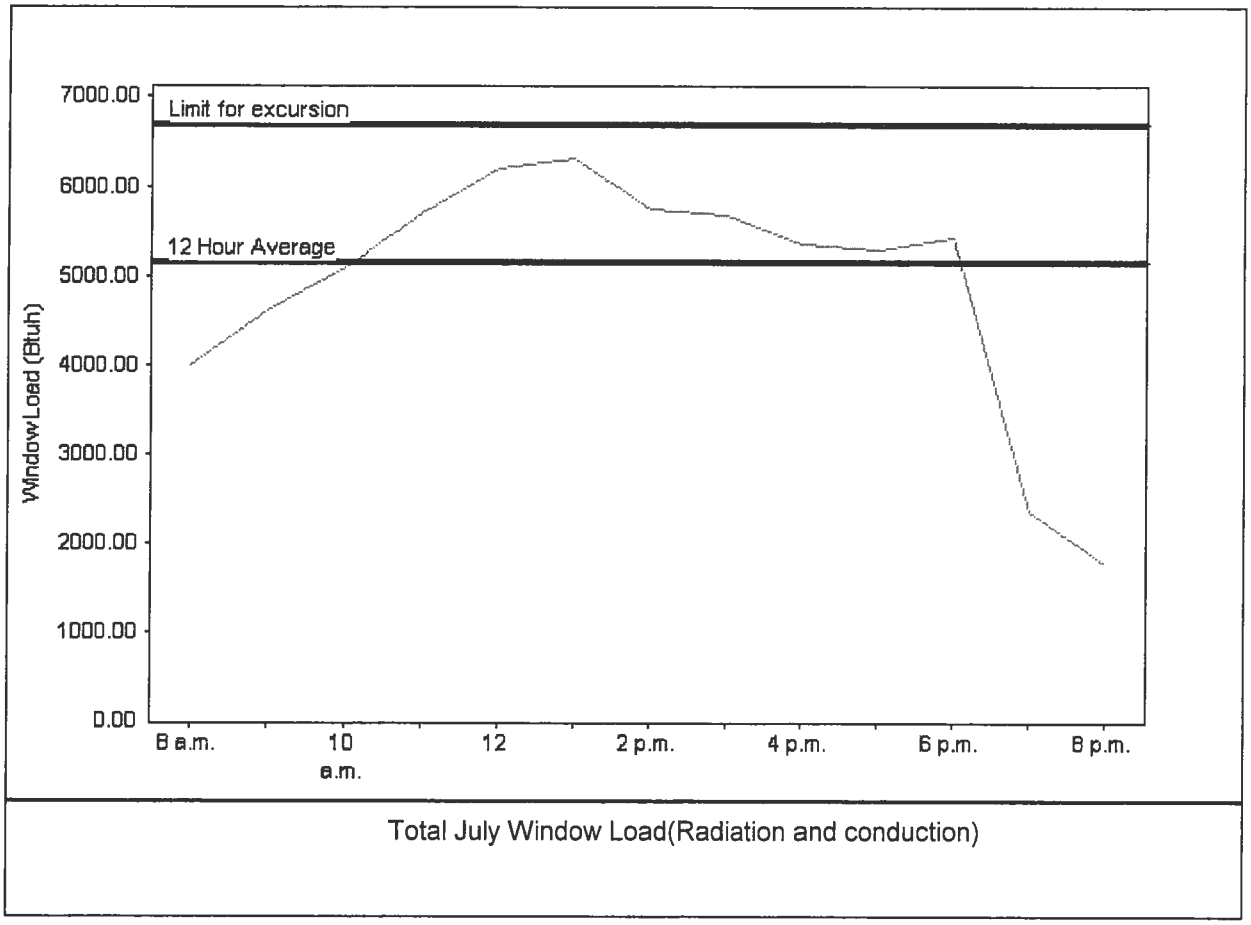
Code Only
Professional Version
Climate: North

11/9/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	5145 Btuh
Summer setpoint	75 F	Peak window load for July	6306 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	6689 Btuh
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: Debbie A Mottes
DATE: 11-9-07

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

MI Home Products, Inc.
650 West Market Street
Gratz, PA 17030

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

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

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

DESCRIPTION: Series "BetterBilt D185SH/D3185SH" Aluminum Single Hung Window

APPROVAL DOCUMENT: Drawing No. **S-2422,** titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

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

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

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

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

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

2/13/2003

PRODUCT CONTROL ACCEPTED

MI Home Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **S-2422,** titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 03056**, dated 11/11/03, signed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/11/03, signed and sealed by Lyndon F. Schmidt, P.E.
2. Revised Anchor Calculations, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/04, signed and sealed by Lyndon F. Schmidt, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated December 09, 2003, signed and sealed by Lyndon F. Schmidt, P.E.
2. Statement letter of no financial interest with the laboratory that performed the Test Report No. **ATI 03056**, dated November 08, 2003, signed by Stu White, Design Engineering Manager.

G. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-1215.02
Expiration Date: March 04, 2009
Approval Date: March 04, 2004

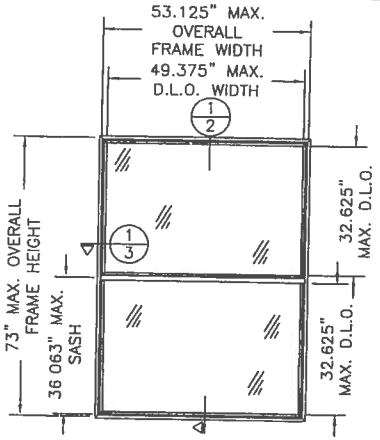
MI HOME PRODUCTS

650 WEST MARKET STREET • GRATZ, PA • 17030-0370

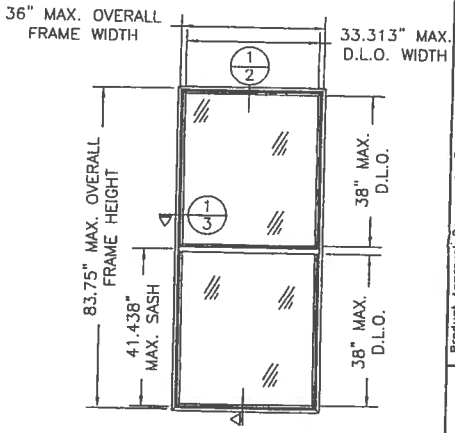
SERIES BETTERBILT D185SH/D3185SH
ALUMINUM SINGLE HUNG WINDOW

GENERAL NOTES:

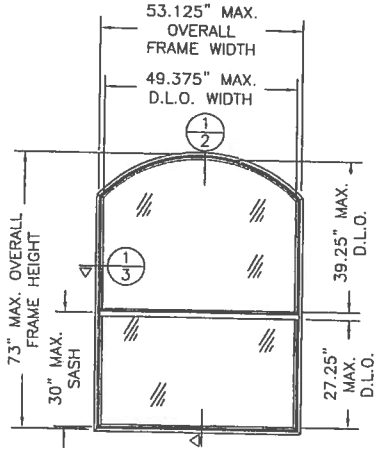
1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE "HVHZ" OF THE FLORIDA BUILDING CODE.
2. WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.
5. INSTALLATION OF THIS SYSTEM IN HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS; INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.
6. THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.



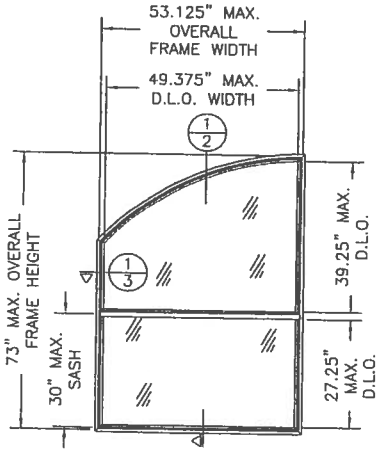
53" x 73" SINGLE HUNG WINDOW



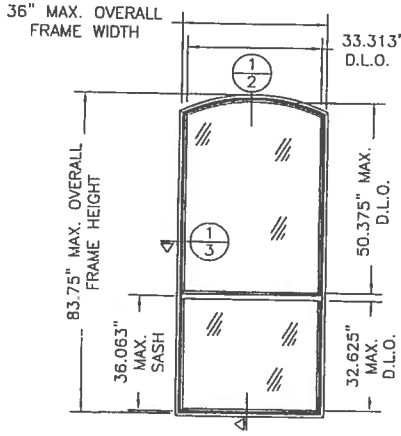
37" x 84" SINGLE HUNG WINDOW



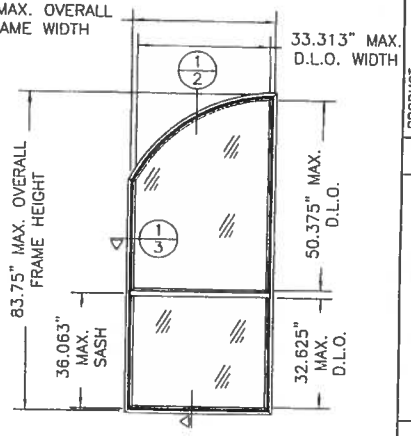
53" x 73" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS & GLAZING DETAIL
4	ANCHORING LOCATIONS
5	COMPONENTS, BILL OF MATERIALS

DESIGN PRESSURE RATINGS (PSF)			
GLASS	MAX. SIZE	DP POS.	DP NEG.
1/8" Temp.	OA 53" x 73"	+56.7	-69.3
1/8" Temp.	OA 37" x 84"	+56.7	-69.3
3/16" Ann.	OA 53" x 73"	+42.0	-42.0
3/16" Ann.	OA 37" x 84"	+56.7	-58.0

ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

Approved as complying with the Florida Building Code
Date: 03/04/04
NOA# 03-1215.02
Miami-Dade Product Control
Division
By: Theodore Brenner

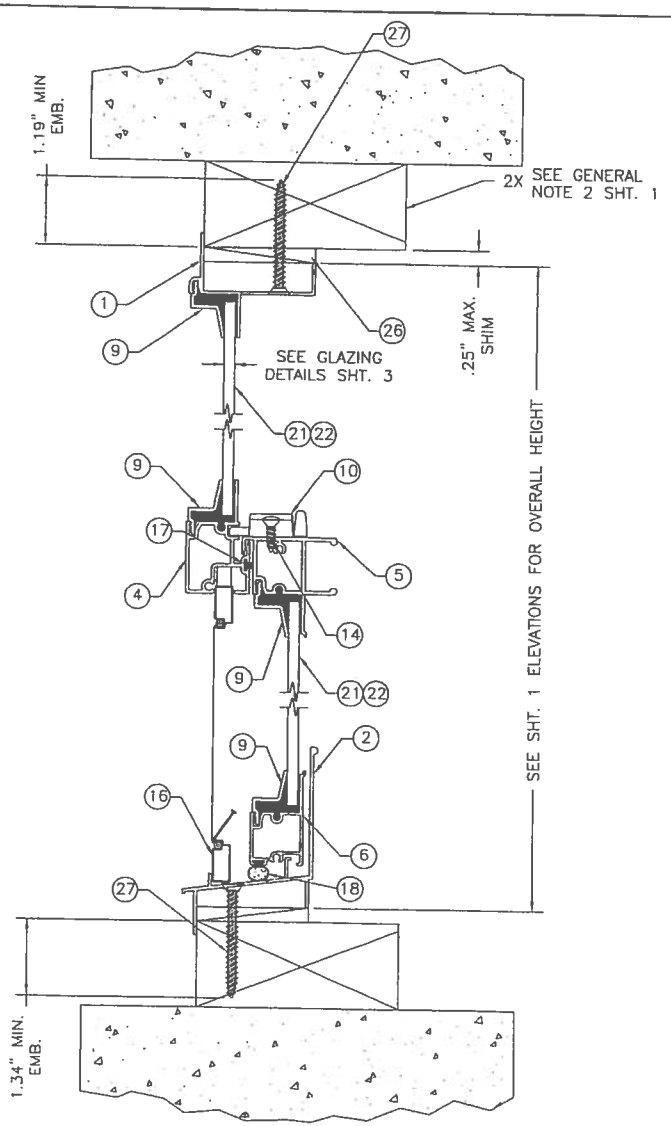
Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No : 813 659 6197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
2/10/04
Wendell Hicks, P.E. No. 54158

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL

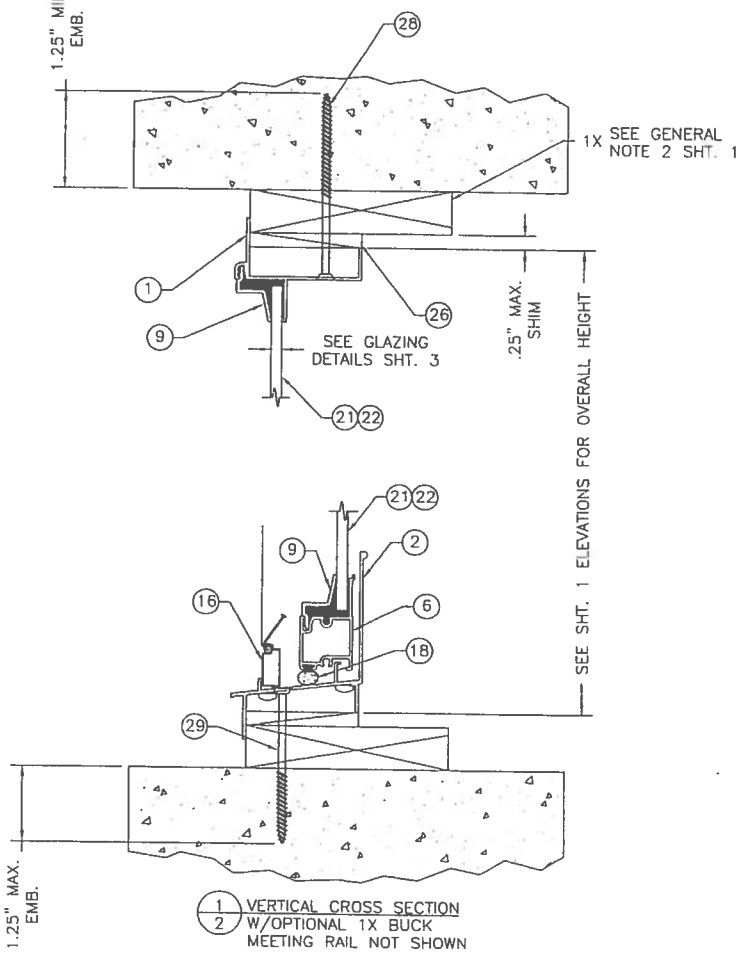
PART OR ASSEMBLY: GENERAL NOTES & TYPICAL ELEVATIONS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 1 OF 5



1/2 VERTICAL CROSS SECTION
W/2X BUCK



1/2 VERTICAL CROSS SECTION
W/OPTIONAL 1X BUCK
MEETING RAIL NOT SHOWN

Approved as complying with the Florida Building Code
Date 02/04/04
NOA# 02-1215.02
Miami-Dade Product Control Division
By

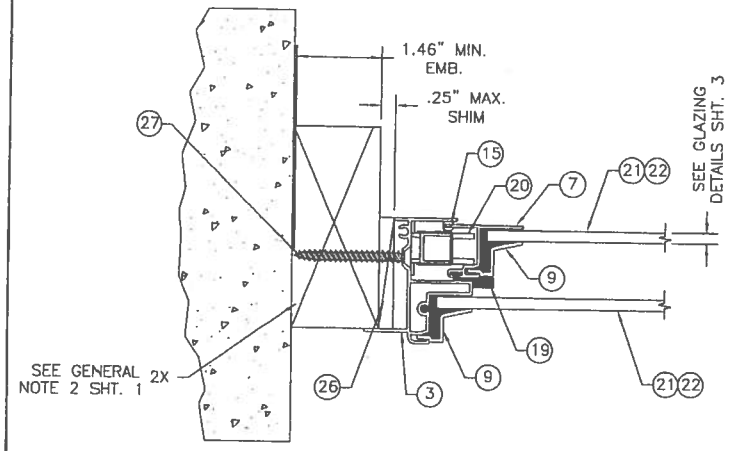
Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico, FL 33595
Phone No.: 813 659 9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wendell Hoover P.E. No. 54158
2/10/04

PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREIAL

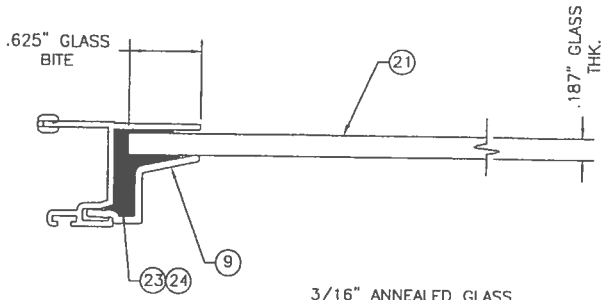
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

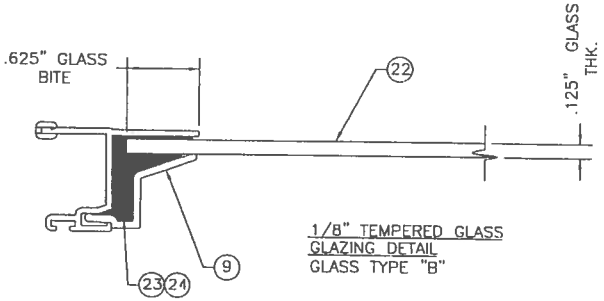
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO: S-2422
SHEET 2 OF 5



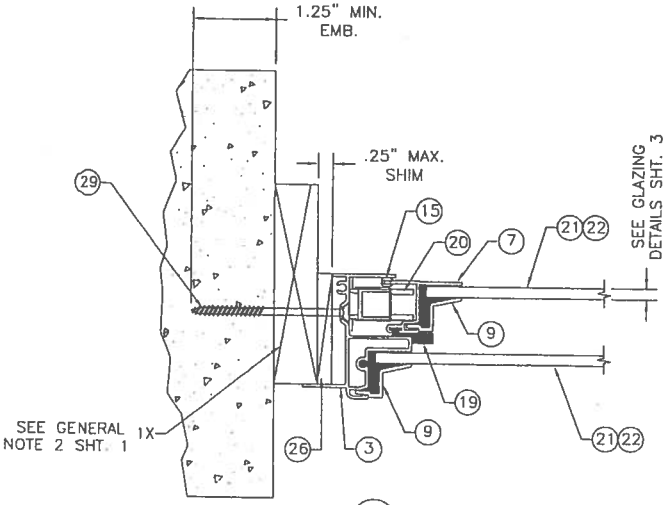
1/3 HORIZONTAL CROSS SECTION
W/2X BUCK



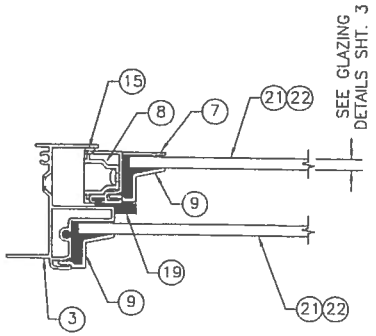
3/16" ANNEALED GLASS
GLAZING DETAIL
GLASS TYPE "A"



1/8" TEMPERED GLASS
GLAZING DETAIL
GLASS TYPE "B"



1/3 HORIZONTAL CROSS SECTION
W/1X BUCK



1/3 HORIZONTAL CROSS SECTION
SHOWING SASH CAM
MASONRY & BUCK NOT SHOWN

NOTES:
1. THE MAIN FRAME HEAD, SIDES AND SILL ARE CONNECTED TOGETHER AT EACH CORNER WITH (2) ITEM #11, A #8 x 3/4" PHILLIPS PAN HEAD SCREW. THE SCREWS RUN FROM THE HEAD DOWN INTO THE SIDES AND FROM THE SILL UP INTO THE SIDES.
2. THE FIXED MEETING RAIL IS SECURED TO THE SIDES WITH (2) EACH SIDE ITEM #12, A #8 x 1 1/4" PHILLIPS PAN HEAD SCREW.
3. THE SASH CORNERS ARE CONNECTED TOGETHER WITH (2) EACH CORNER ITEM #13, A #6 x 3/4" PHILLIPS PAN HEAD SCREW.

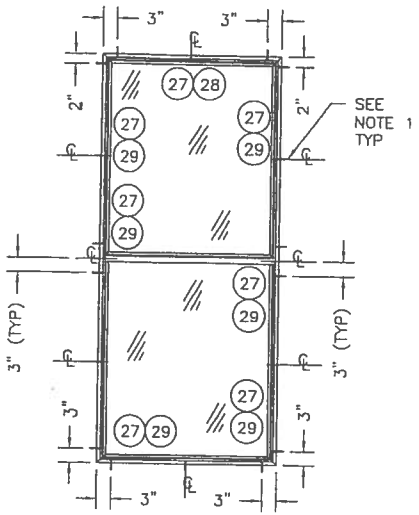
Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1215.02
Miami-Dade Product Control Division
By

Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.8197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
2/10/04
Wendell Hall, P.E. No. 54158

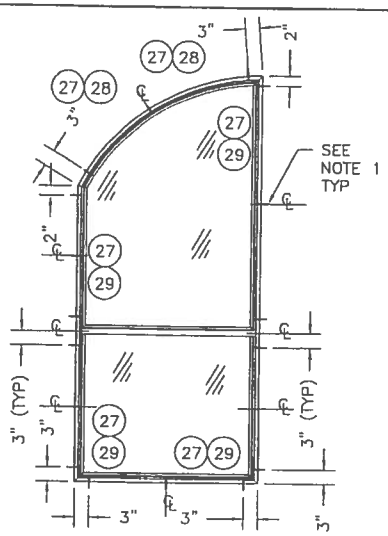
PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE CIRCLE TOP & OREIAL
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & GLAZING DETAILS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

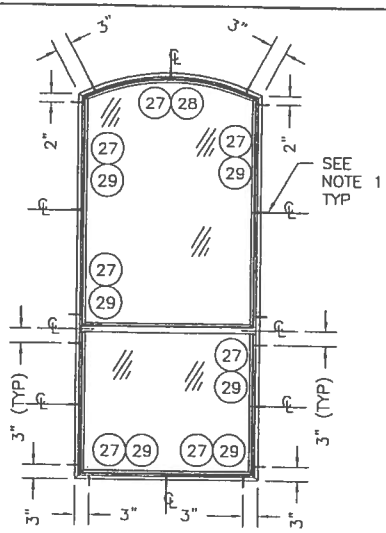
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 3 OF 5



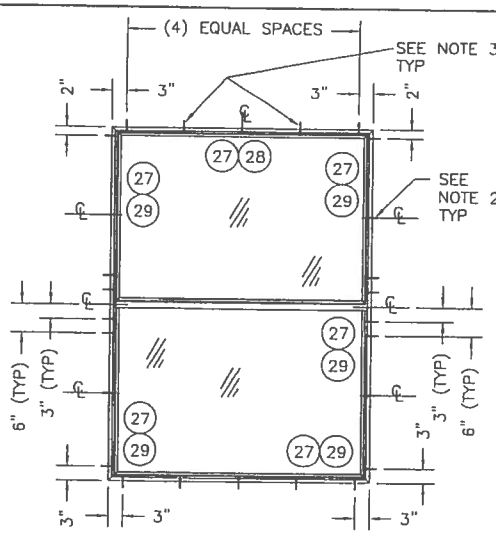
37" x 84" SINGLE HUNG WINDOW



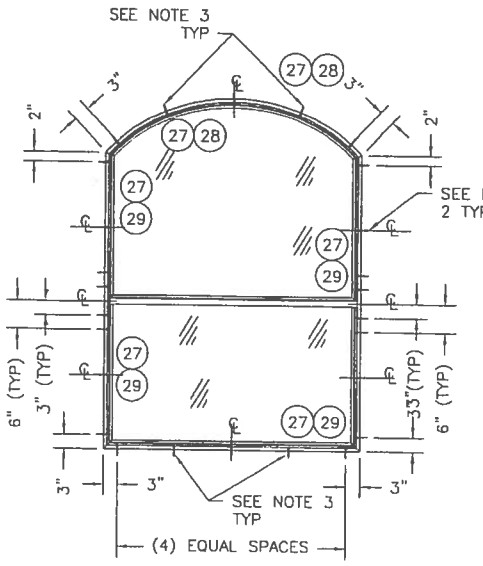
37" x 84" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL



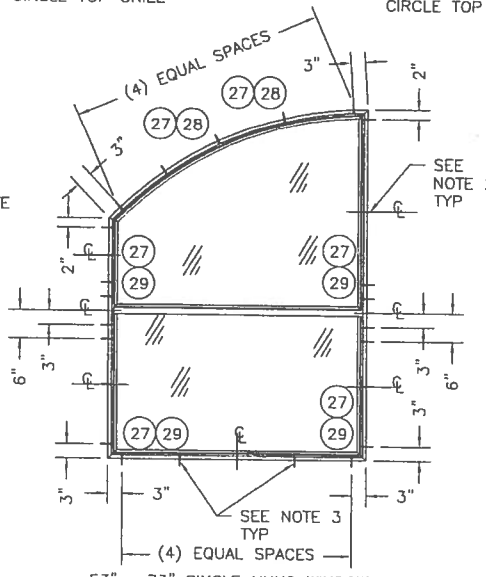
37" x 84" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW



53" x 73" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL

NOTES:

1. FOR UNITS SMALLER THAN 30"x60" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
2. FOR UNITS SMALLER THAN 53"x60" OR SMALLER THAN 30"x66" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
3. FOR UNITS SMALLER THAN 36"x66" DO NOT INSTALL ANCHORS AT EITHER SIDE OF CENTER ANCHOR AT HEAD AND SILL JAMBS.

Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 02-1215.02
Miami-Dade Product Control
Division
By

Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC
P.O. Box 230 Valrico FL. 33595
Phone No: 813 653.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
2/10/04
Wendell Hopp, P.E. No. 54158

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL

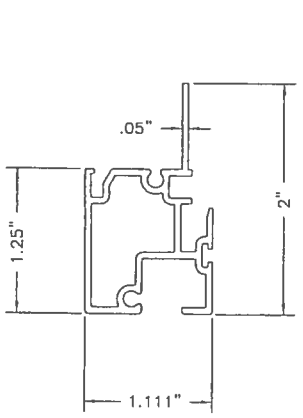
PART OR ASSEMBLY: ANCHORING LOCATIONS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

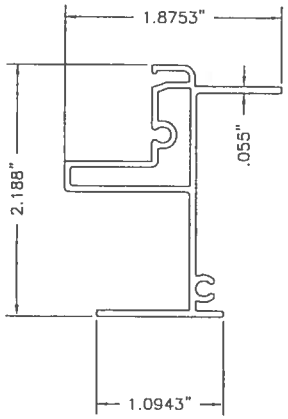
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO: S-2422
SHEET 4 OF 5

BILL OF MATERIALS

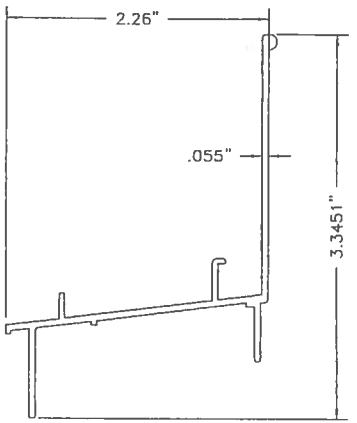
ITEM	DESCRIPTION	MATERIAL
1	EXTRUDED ALUMINUM SINGLE HUNG 1/2" HEAD #CM-18501 BY MI METALS	ALUM.
2	EXTRUDED ALUMINUM SINGLE HUNG 1/2" SILL #CM-18502 BY MI METALS	ALUM.
3	EXTRUDED ALUMINUM SINGLE HUNG 1/2" JAMB #CM-18503 BY MI METALS	ALUM.
4	EXTRUDED ALUMINUM SINGLE HUNG FIXED MEETING RAIL #CM-18504 BY MI METALS	ALUM.
5	EXTRUDED ALUMINUM SINGLE HUNG SASH LOCK RAIL #CM-18505 BY MI METALS	ALUM.
6	EXTRUDED ALUMINUM SINGLE HUNG SASH BOTTOM RAIL #CM-18506 BY MI METALS	ALUM.
7	EXTRUDED ALUMINUM SINGLE HUNG SASH STILE #CM-18507 BY MI METALS	ALUM.
8	SASH CAM #1-185 BY BSI	–
9	GLAZING BEAD #V-185 BY MI PLASTICS	–
10	LOCK #30240-402 BY REFLECTOLITE	–
11	MAIN FRAME SCREW #8 x 3/4" PHHILLIPS PAN HEAD	STEEL
12	MEETING RAIL SCREW #8 x 1 1/4" PHILLIIPS PAN HEAD	STEEL
13	SASH SCREW #6 x 3/4" PHILLIPS PAN HEAD	STEEL
14	LOCK SCREW #8 x 5/8" PHILLIPS FLAT HEAD -PTD	STEEL
15	SASH GUIDE #80-02-8207 BY PLASTICS, AZ	–
16	WINDOW SCREEN	–
17	FIN WEATHERSTRIPPING .187" x .250" BY AMESBURY	–
18	BULB SEAL #32002 BY AMESBURY	–
19	DUST PLUG 5/8" x 7/8" x .25" BY AMESBURY	–
20	5/8" BLOCK & TACKLE 150 SERIES BY BSI	–
21	GLASS "A" SGL GLAZED 3/16" ANN. BY GUARDIAN	–
22	GLASS "B" SGL GLAZED 1/8" TEMP. BY GUARDIAN	–
23	BACKBEDDING #SM-2100 BY SCHNEE MOREHEAD	SILICONE
24	BACKBEDDING PURFECTGLAZE-H (HOTMELT)	–
25	GLASS SHIM 1/8" x 1/4" x 1" BY SECON	–
26	1/4" MAX SHIM	–
27	#12 X 2" PHILLIPS FLAT HEAD SHEET METAL SCREW	STEEL
28	3/16" x 3 1/4" ELCO TAPCON ANCHOR	STEEL
29	3/16 x 2 3/4" ELCO TAPCON ANCHOR	STEEL



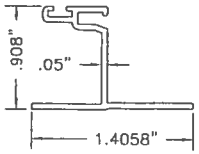
④ FIXED MEETING RAIL



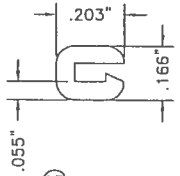
③ JAMB-FLANGE



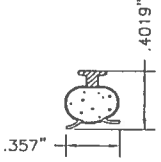
② SILL FIN



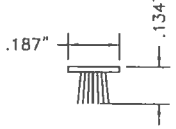
⑦ SASH STILE



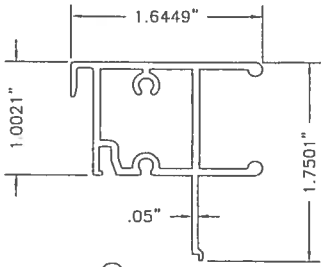
⑮ SASH GUIDE



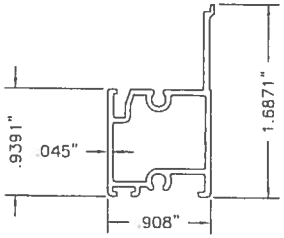
⑱ BULB SEAL



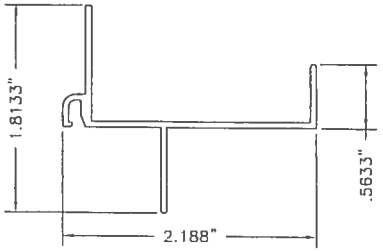
⑰ FIN WEATHERSTRIPPING



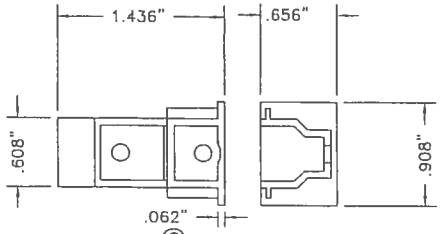
⑤ LOCK RAIL



⑥ SASH BOTTOM RAIL



① HEAD FLANGE



⑧ SASH CAM

Approved as complying with the Florida Building Code
Date 09/04/04
NOA# 03-1215.02
Miami-Dade Product Control
Division
By

Product Approval Documents Prepared By:
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico, FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
2/10/04
Wendell Hanes, P.E. NO. 33158

PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE CIRCLE TOP & OREIAL

PART OR ASSEMBLY: BILL OF MATERIALS & UNIT COMPONENTS

NO.	DATE	REVISIONS	BY
1	01/04	REVISED PER DADE LETTER	WH
2	2/10/04	CORRECT DP TABLE	RW

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 5 OF 5

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Mi Home Products, Inc.
650 West Market Street
Gratz, PA 17030

SCOPE:

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

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

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

DESCRIPTION: Series "Betterbilt D485/D3485" Aluminum Sliding Patio Door

APPROVAL DOCUMENT: Drawing No. **S-2425,** titled "Non-Impact Aluminum Sliding Patio Door Up to 6'0 x 6'8", sheets 1 through 5 of 5, prepared by R.W. Building Consultants, Inc., dated 12/18/03, signed and sealed by Lyndon F. Schmidt, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

2/13/2004

PRODUCT CONTROL ACCEPTED

Mi Home Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.

Drawing No. **S-2425,** titled "Non-Impact Aluminum Sliding Patio Door Up to 6'0 x 6'8", sheets 1 through 5 of 5, prepared by R.W. Building Consultants, Inc., dated 12/18/03, signed and sealed by Lyndon F. Schmidt, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum patio door, prepared by Architectural Testing, Test Report No. **ATI-03064** dated 12/17/03, signed and sealed by Steven M. Urich, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/22/03, signed and sealed by Lyndon Schmidt, P.E.
2. Revised Anchor Calculations and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/03, signed and sealed by Lyndon Schmidt, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of compliance and of no financial interest, dated 12/18/03, signed and sealed by Lyndon F. Schmidt, P.E.
2. Letter from MI Home Products, Inc., dated 11/08/03, stating that they have no financial interest with the laboratory that performed the testing of their products, singed by Stu White.

G. OTHER

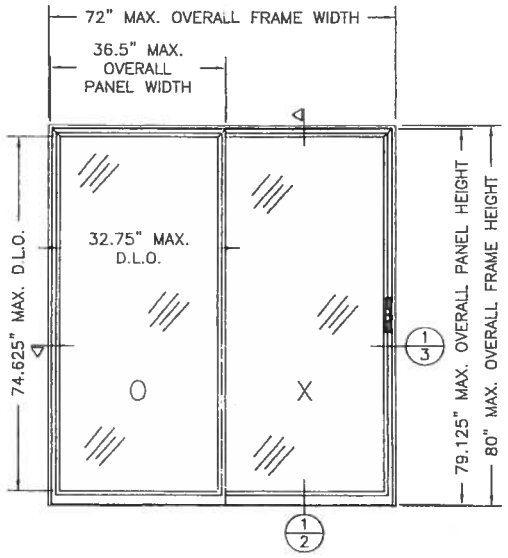
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code.

Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-1224.01
Expiration Date: March 04, 2009
Approval Date: March 04, 2004

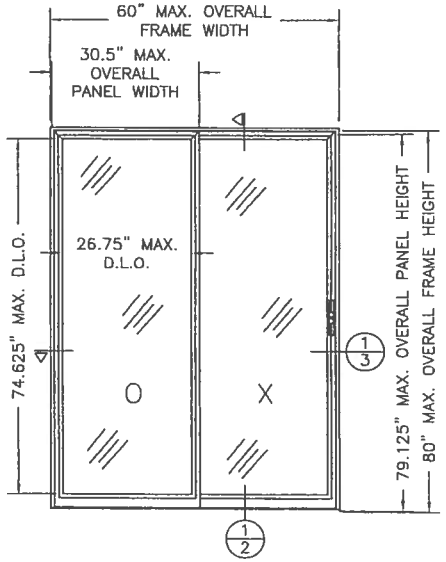
MI HOME PRODUCTS

650 WEST MARKET STREET • GRATZ, PA • 17030-0370

SERIES BETTERBILT D485/D3485
ALUMINUM SLIDING PATIO DOOR



6'0 x 6'8 PATIO DOOR



5'0 x 6'8 PATIO DOOR

ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

GENERAL NOTES:

1. *THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HVHZ FLORIDA BUILDING CODE.*
2. *WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.*
3. *PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.*
4. *FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.*
5. *INSTALLATION OF THIS SYSTEM IN HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS; INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.*
6. *THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.*

TABLE OF CONTENTS

DESIGN PRESSURE RATING
+57.52 PSF -74.0 PSF

Approved as complying with the Florida Building Code
Date 03/09/04
NOA# 03-1224.01
Miami-Dade Product Control
Division
By

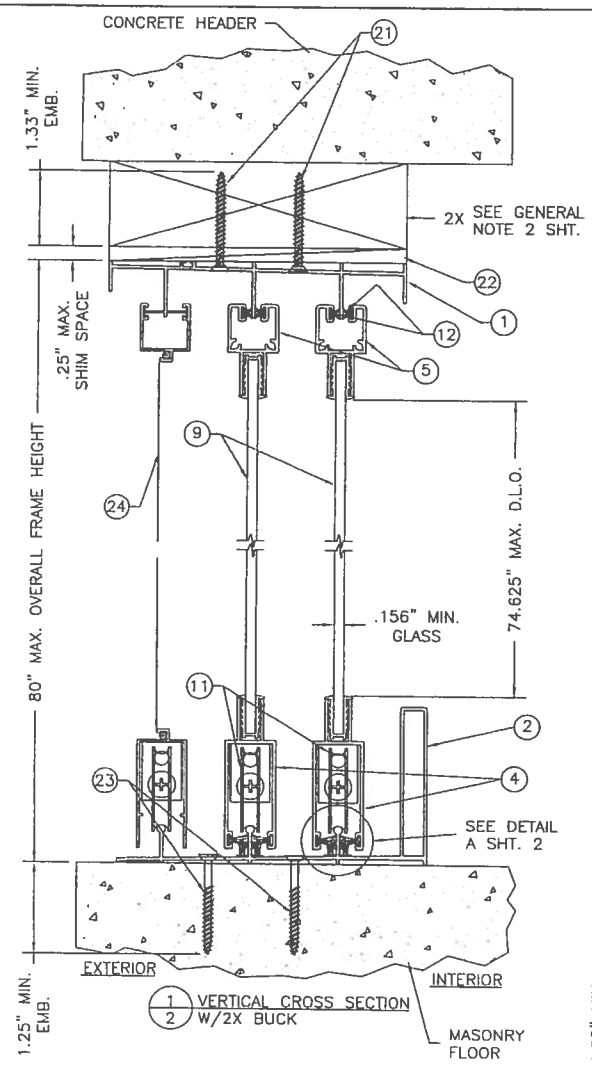
Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Venice FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 8813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

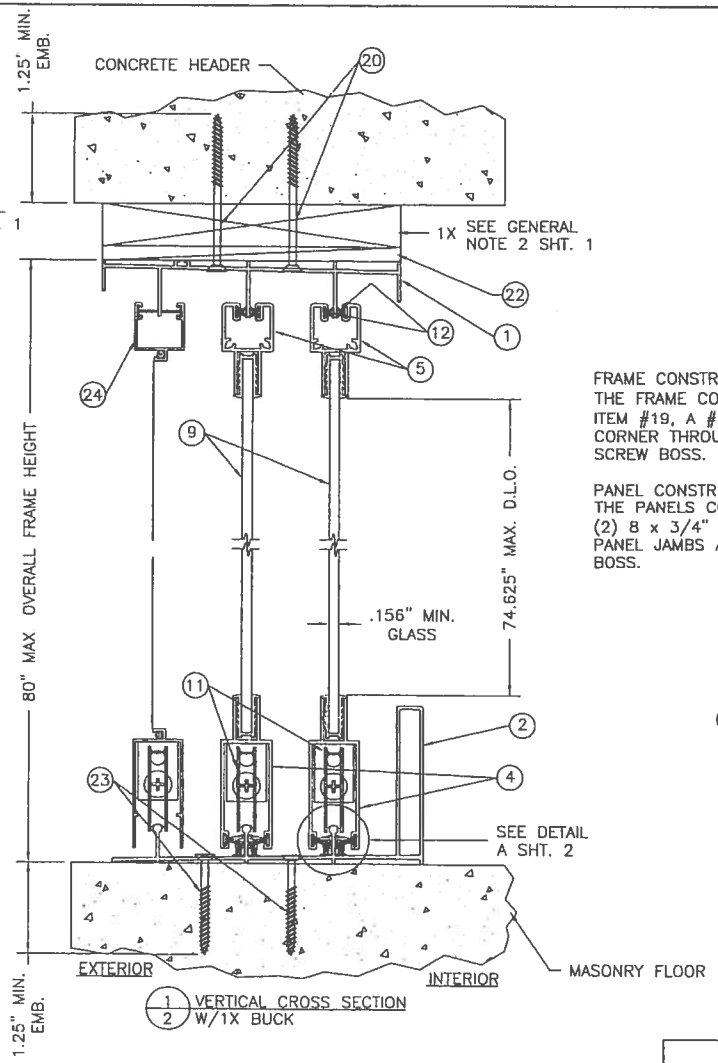
PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8

PART OR ASSEMBLY: GENERAL NOTES & TYPICAL ELEVATIONS

NO.	DATE	BY	REVISIONS

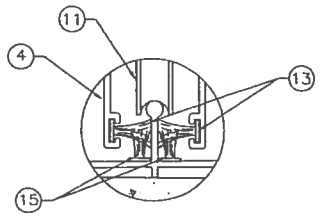
DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 1 OF 5





FRAME CONSTRUCTION NOTE:
THE FRAME CORNERS ARE BUTTED AND SECURED WITH (2) ITEM #19, A #8 x 5/8" FLAT HEAD SCREW, AT EACH CORNER THROUGH THE HEAD AND SILL INTO THE JAMB SCREW BOSS.

PANEL CONSTRUCTION NOTE:
THE PANELS CORNERS ARE BUTTED AND SECURED WITH (2) 8 x 3/4" PAN HEAD SCREWS LOCATED THROUGH THE PANEL JAMBS AND INTO THE PANEL HEAD AND SILL SCREW BOSS.



DETAIL A WEATHERSTRIP AT PANEL BOTTOM, TYP.

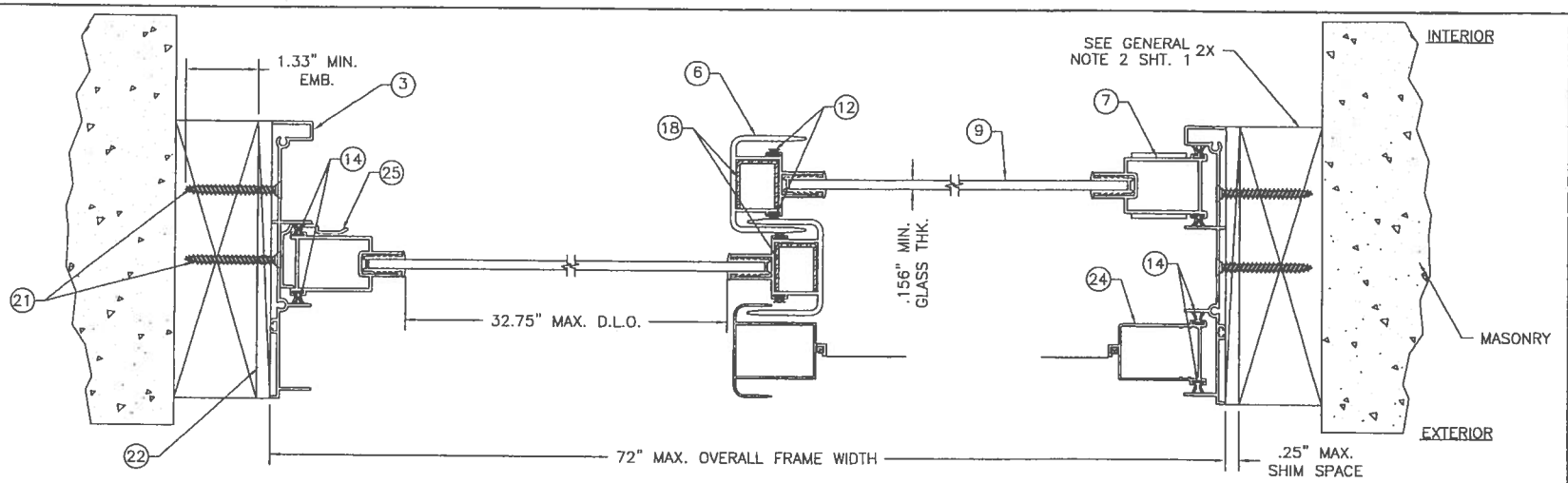
Approved as complying with the Florida Building Code
Date 03/04/04
NOA 03-1223.01
Miami-Dade Product Control
Division
By

Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

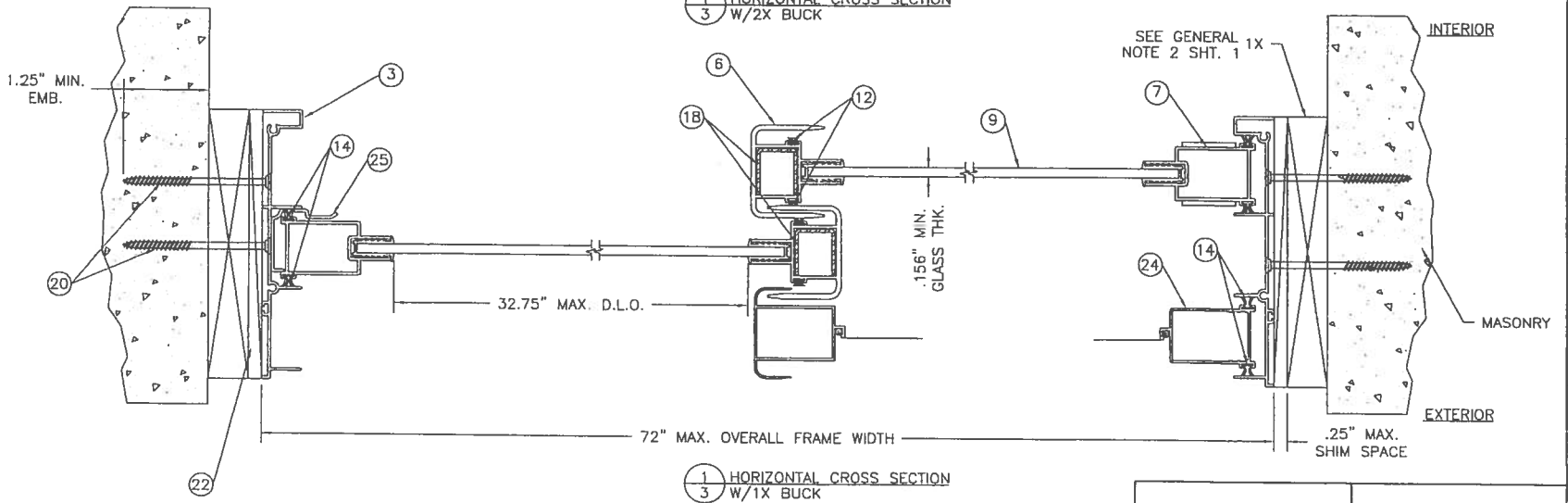
PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS & CONSTRUCTION NOTES

NO.	DATE	REVISIONS	BY

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 2 OF 5



1/3 HORIZONTAL CROSS SECTION W/2X BUCK



1/3 HORIZONTAL CROSS SECTION W/1X BUCK

Approved as complying with the Florida Building Code
Date 03/04/09
NOA# 03-1229.01
Miami-Dade Product Control
Division
By

Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No 9313
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

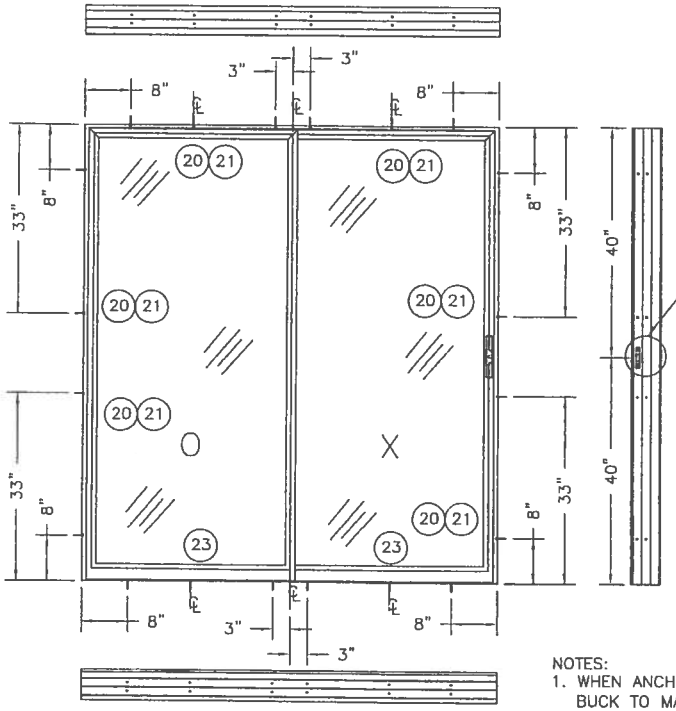
PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 60 x 68

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

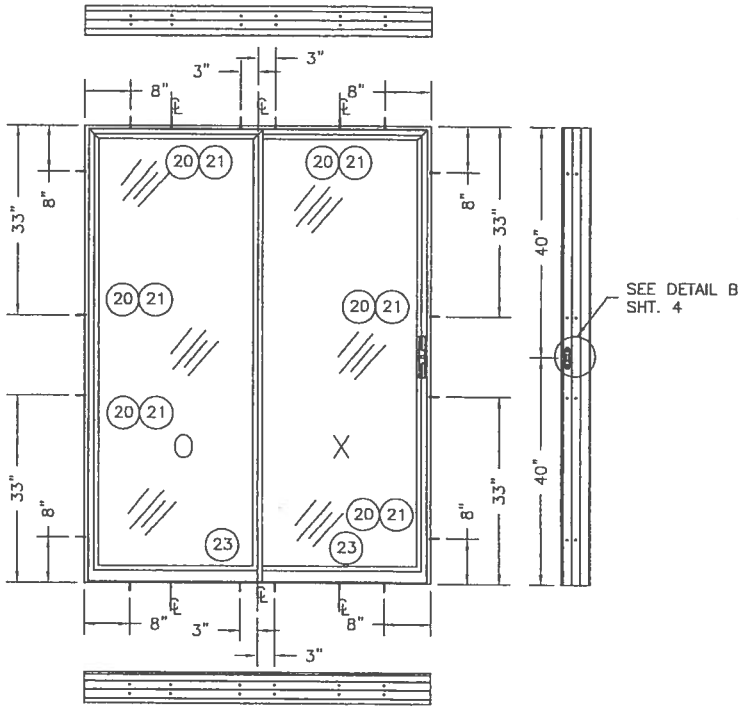
NO.	DATE	BY

REVISIONS

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 3 OF 5

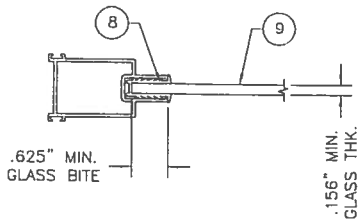


6'0 x 6'8 PATIO DOOR
SEE NOTES SHT. 4

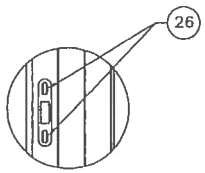


5'0 x 6'8 PATIO DOOR
SEE NOTES SHT. 4

NOTES:
1. WHEN ANCHORING THE UNIT TO A 2X BUCK TO MASONRY USE ITEM #21, A #10 x 1 3/4" PHILLIPS FLAT HEAD SHEET METAL SCREW AT THE HEAD AND SIDES.
2. WHEN ANCHORING THE UNIT THROUGH A 1X BUCK INTO MASONRY USE ITEM #20, A 3/16" x 2 3/4" TAPCON ANCHOR AT THE HEAD AND SIDES.
3. USE (2) ANCHORS PER EACH ANCHORING LOCATION SHOWN ABOVE.



5/32" TEMPERED GLASS
GLAZING DETAIL



DETAIL B
JAMB KEEPER ATTACHMENT

Approved as complying with the Florida Building Code
Date 09/04/04
NOA# 03-12.14.01
Miami Dade Product Control Division
By

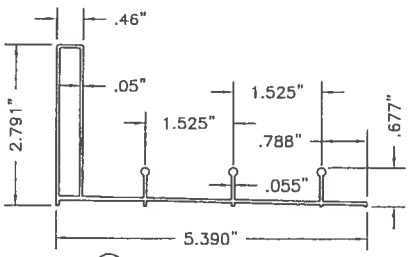
Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8
PART OR ASSEMBLY: ANCHORING LOCATIONS & GLAZING DETAILS

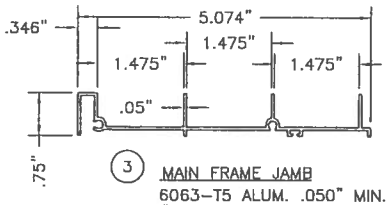
NO.	DATE	REVISIONS	BY

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 4 OF 5

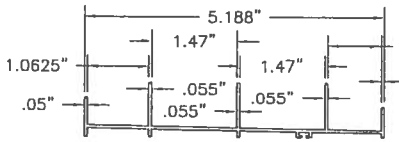
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	EXTRUDED ALUM. MAIN FRAME HEAD #4208 BY MI METALS	ALUM.
2	EXTRUDED ALUM. MAIN FRAME SILL #4235 BY MI METALS	ALUM.
3	EXTRUDED ALUM. MAIN FRAME JAMB #4210 BY MI METALS	--
4	EXTRUDED ALUM. PANEL SILL #4200 MI METALS	ALUM.
5	EXTRUDED ALUM. PANEL HEAD #4202 BY MI METALS	ALUM.
6	EXTRUDED ALUM. PANEL INTERLOCK #4204 BY MI METALS	ALUM.
7	EXTRUDED ALUM. PANEL LOCK JAMB #4206 BY MI METALS	ALUM.
8	GLAZING CHANNEL #80-02-4202 BY MI PLASTICS	V-FLEX
9	GLAZING 5/32" TEMPERED GLASS	GLASS
10	MORTISE HANDLE SET #99-04-150 BY THRUTH HARDWARE	STEEL
11	TANDEM PANEL ROLLER #99-17-195 BY ULTRA	STEEL
12	CENTER FIN SEAL .180 x .250 PANEL HEAD & INTERLOCK BY AMESBURY	SYN. PILE
13	SIDE FIN SEAL .180 x .350 PANEL SILL BY AMESBURY	SYN. PILE
14	CENTER FIN SEAL .187 x .290 PANEL JAMB BY AMESBURY	SYN. PILE
15	NO FIN SEAL .270 x .290 SILL BY AMESBURY	SYN. PILE
16	#6 x 3/4" SQ. DR. SCREW PANEL HEAD TO JAMB	STEEL
17	1/4"-20 x 3/4" SQ. DR. SCREW FOR PANEL ASSEMBLY	STEEL
18	INTERLOCK REINFORCEMENT #99-17-525 BY MAGNOLIA METALS	STEEL
19	#8 x 5/8" FLAT HEAD SCREW FRAME CORNERS	STEEL
20	3/16" x 2 3/4" TAPCON ANCHOR	STEEL
21	#10 x 1 3/4" SHEET METAL SCREW	STEEL
22	1/4" MAX. SHIM MATERIAL	--
23	3/16" x 1 3/4" TAPCON ANCHOR	STEEL
24	ROLLING SCREEN DOOR ASSEMBLY	--
25	EXTRUDED ALUM. PANEL RETAINER #4222 BY MI METALS	ALUM.
26	#8 x 2" PHILLIPS PAN HEAD SHEET METAL SCREW	STEEL



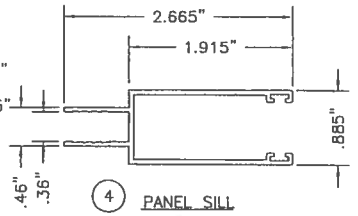
(2) MAIN FRAME SILL
6063-T5 ALUM. .050" MIN.
#4235 BY MI METALS



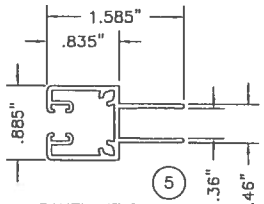
(3) MAIN FRAME JAMB
6063-T5 ALUM. .050" MIN.
#4210 BY MI METALS



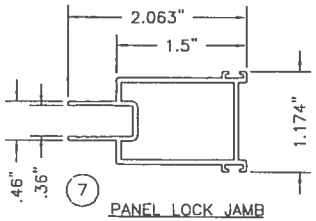
(1) MAIN FRAME HEAD
6063-T5 ALUM. .050" MIN.
#4208 BY MI METALS



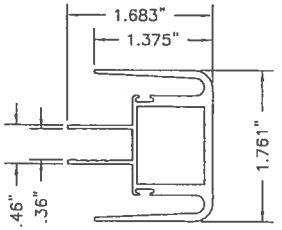
(4) PANEL SILL
6063-T5 ALUM. .055" MIN.
#4200 BY MI METALS



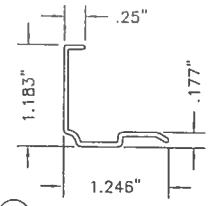
(5) PANEL HEAD
6063-T5 ALUM. .055" MIN.
#4202 BY MI METALS



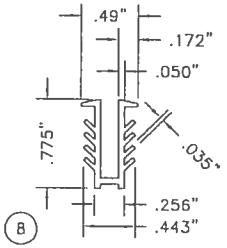
(7) PANEL LOCK JAMB
6063-T5 ALUM. .055" MIN.
#4206 BY MI METALS



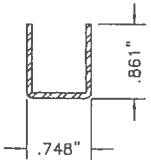
(6) PANEL INTERLOCK
6005-T5 ALUM. .055" MIN.
#4204 BY MI METALS



(25) PANEL RETAINER
6063-T5 ALUM. .055" MIN.
#4222 BY MI METALS



(8) GLAZING CHANNEL
V-FLEX
#80-02-4202
BY MI PLASTICS



(18) INTERLOCK REINFORCEMENT
.060" THK. GALVANIZED STEEL
#99-17-525 BY MAGNOLIA METALS

Approved as complying with the Florida Building Code
Date: 05/04/04
NOA# 03-1224.01
Miami-Dade Product Control
Division
By:

Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8

PART OR ASSEMBLY: BILL OF MATERIALS & UNIT COMPONENTS

NO.	DATE	REVISIONS	BY

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 5 OF 5