AUSTIN - 3C

FLORIDA DESIGN CRITERIA
REVISED 05-03-07

BUILDING DATA

FLORIDA BUILDING CODE 2004 : RESIDENTIAL, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : PLUMBING, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : MECHANICAL, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : FUEL GAS, 2005 and 2006 SUPPLEMENT

NATIONAL ELECTRICAL CODE 2005

STRUCTURAL DESIGN PARAMETERS: ASCE 7-2002 (PER FRC 2004 : SECTION R301.2.1.1)

CLASSIFICATION : 2

OCCUPANCY: RESIDENTIAL

BUILDING DESIGN: ENCLOSED

WIND SPEED: 125 MPH - 3 SECOND GUST (FRC 2004 : SECTION R301.2.1.3)

EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

IMPORTANCE FACTOR: 1.0

NUMBER OF STORIES: ONE STORY

BUILDING MEAN ROOF HEIGHT: 15 FEET, MAX.

WOOD FRAMING INSPECTION
ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTION. (FRC 2004, SECTION R109.3)

TERMITE TREATMENT
THE BUILDING AND PATIO SLAB HAVE RECIEVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. (FRC 2004, SECTION R320)

BORA CARE : TERMITE TREATMENT
THE BUILDING HAS RECIEVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. (FRC 2004, SECTION R320.1.8)

EXTERIOR WINDOWS AND GLASS DOORS
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND SHALL BE LABELED WITH AN APPROVED LABEL (FRC 2004, SECTION R613)

SEE MANUFACTURER'S DETAIL SHEETS FOR DESIGN CRITERIA AND INSTALLATION METHODS.

WINDBOURNE DEBRIS REGIONS
WINDOWS IN BUILDINGS LOCATED IN WIND-BOURNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WIND-BOURNE DEBRIS. GLAZED OPENING PROTECTION FOR WIND-BORNE DEBRIS SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E 1996 AND OF ASTM E 1886, SSTD 12, ANSI/DASMA 115 (FOR GARAGE DOORS) OR TAS201, 202 AND 203 . (FRC 2004, SECTION R301.2.1.2)

INDEX OF DRAWINGS

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

REVISIONS :

08-14-07 REV. CODE INFORMATION

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

9TM02801 JAX
28-1
9TM

FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 , RESIDNTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. CHARTS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA COVER SHEET

AUSTIN 3

ELEVATION "C"

GARAGE: RIGHT

125 MPH

DRAWN BY:

RELEASE DATE: 10-18-04

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08:20:38

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

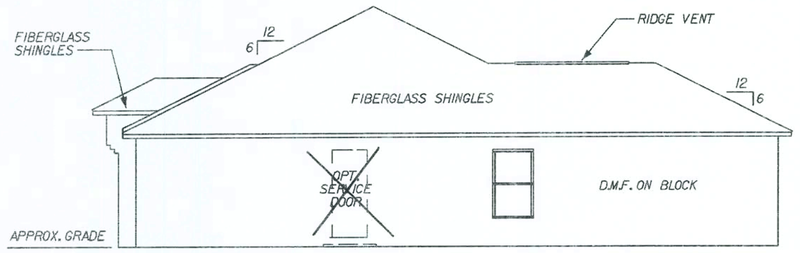
SEP 29 2008

SHEET:

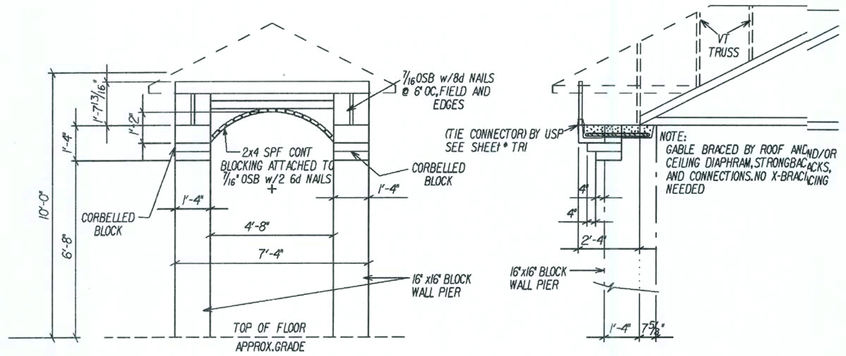
0c

PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



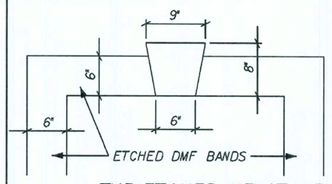
C RIGHT ELEVATION
SCALE : 1/8" = 1'-0"



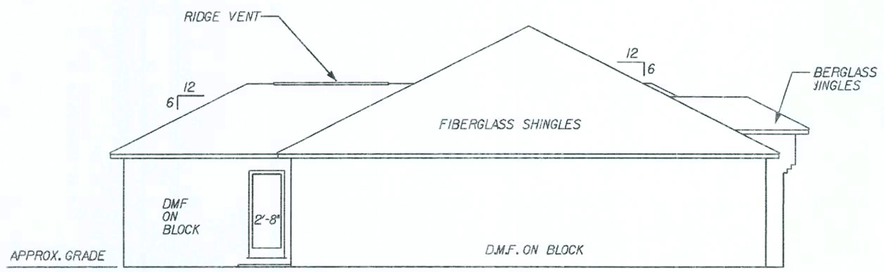
ENTRY DETAIL

GENERAL ELEVATION NOTES:

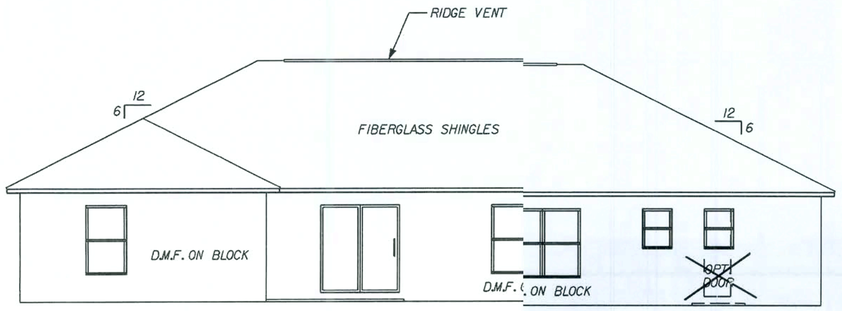
1. DMF - DECO MASONRY/STUCCO FINISH SHALL COMPLY WITH THE REQUIREMENTS OF ATSM C926 AND C1063.
2. EAVE & GABLE OVERHANGS 12" ALUM FASCIA AND SOFFITS. PLUMB CUT WITH LEVEL RETURNS.
3. 7/8" MIN. THICKNESS DMF OVER LATH/FRAME AND 1/2" MIN. THICKNESS OVER BLOCK
4. DMF/STUCCO INSTALLED OVER PAPER-BACKED LATH AND HOUSEWRAP @ ALL EXTERIOR WOOD FRAME CONSTRUCTION.



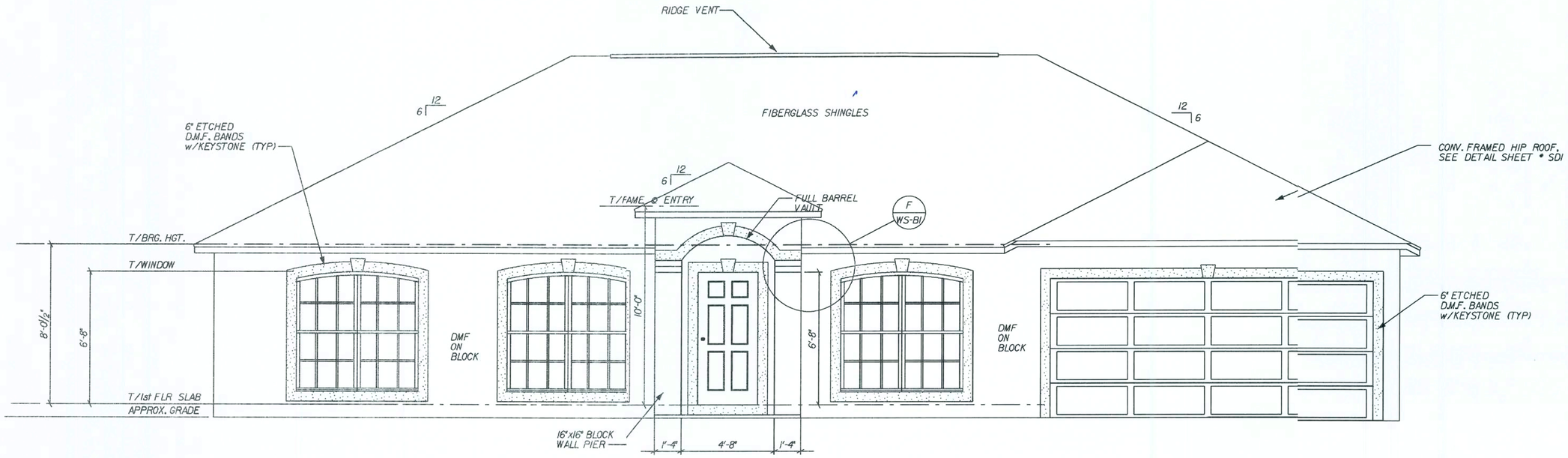
TYP. ETCHED KEYSTONE
SCALE: 3/4" = 1'-0"



D LEFT ELEVATION
SCALE : 1/8" = 1'-0"



B REAR ELEVATION
SCALE : 1/8" = 1'-0"



A FRONT ELEVATION
SCALE : 1/4" = 1'-0"

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISED 01-05-06

REVISIONS :
12-14-06 ADD GLASS TO FRONT PORCH

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2006 SUPPLEMENT

AMERICANA | EXT. ELEVATION

AUSTIN 3

ELEVATION "C"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 01-03-05

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08:20:39

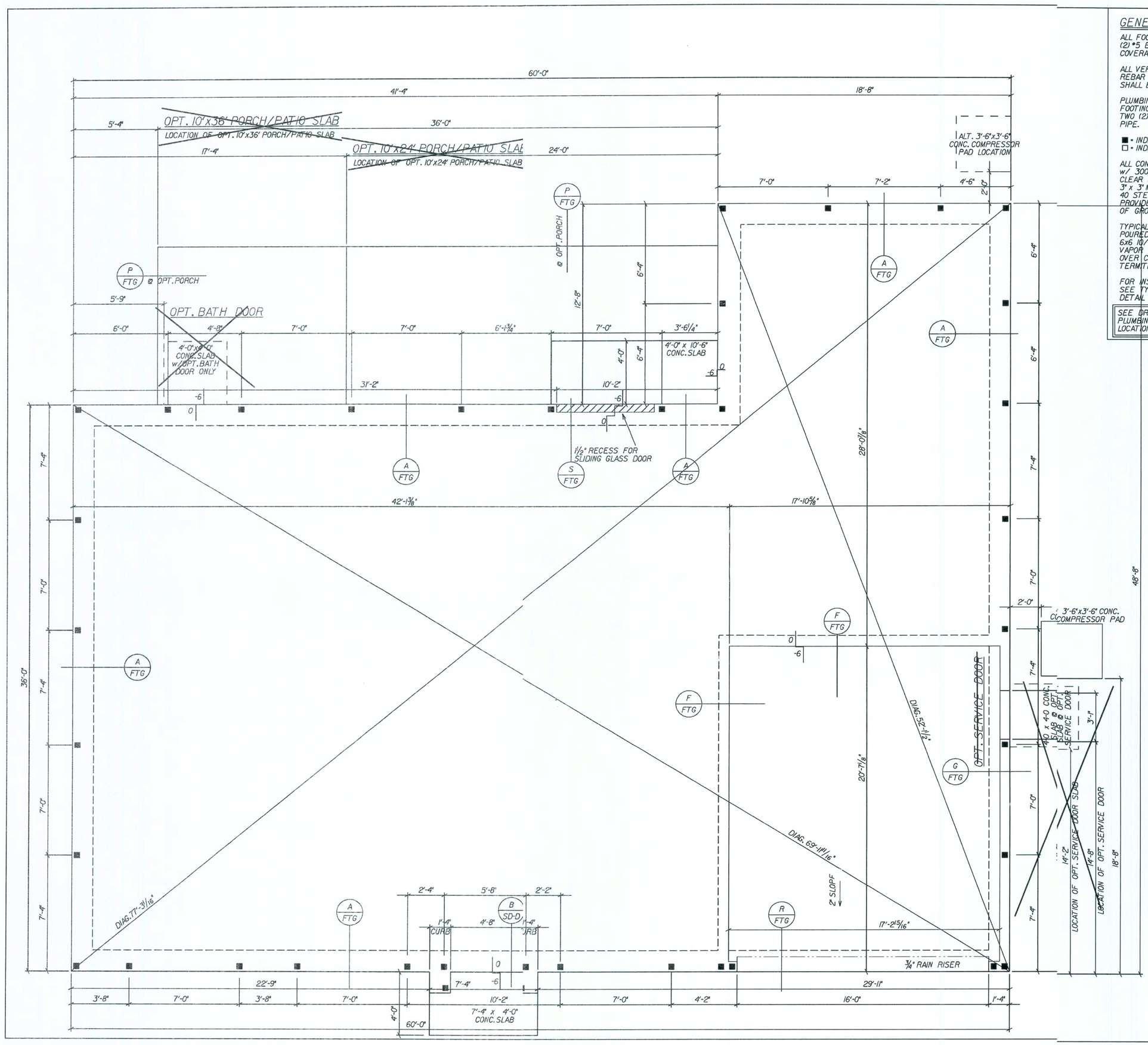
PLOT DATE: 04 DEC 2007

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

SEP 29 2008

SHEET:
1C



GENERAL FOUNDATION NOTES:

ALL FOOTING REBAR SHALL BE CONTINUOUS (2) #5 BARS GRADE 40 STEEL w/ 3" MIN. COVERAGE, U.N.O.

ALL VERTICAL REBAR, DOWN REBAR, DOWEL REBAR AND BOND BEAM REINFORCEMENT SHALL BE #5 BARS GRADE 40 STEEL

PLUMBING PASSING UNDER OR THROUGH A FOOTING SHALL BE ENCASED IN A PIPE TWO (2) SIZES LARGER THAN THE PLUMBING PIPE.

■ - INDICATES FILLED CELL WITH REBAR
□ - INDICATES FILLED CELL WITHOUT REBAR

ALL CONCRETE GROUTED CELLS FILLED w/ 3000 psi CONCRETE SHALL BE CLEAR UNOBSTRUCTED CONTINUOUS 3" x 3" MIN. CELLS w/ (1) #5 BAR GRADE 40 STEEL TIED AT FOOTING LINTEL STEEL. PROVIDE INSPECTION HOLE AT BOTTOM OF GROUTED CELL STACK.

TYPICAL CONCRETE SLAB: 3½" DEEP POURED 2500 psi CONCRETE SLAB w/ 6x6 10/ WIRE OR FIBER MESH ON VISQUEEN VAPOR BARRIER w/ ALL JOINTS TAPED OVER CLEAN COMPACTED (2000 psf. MIN.) TERMITE TREATED FILL.

FOR INSTALLATION OF GROUND ROD, SEE TYP.CONC.ENCASED ELECTRODE DETAIL SHEET* FTG

SEE DRAWING * FPI FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

REVISIONS :

01-06-06 DEL. 'G' FOOTER NOTE @ ENTRY
04-24-06 REVISED NOTE AT GARAGE DOOR
06-20-06 ADDED DOOR PAN DETAIL MARKER
08-14-07 REV. CODE INFORMATION

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE, 2004 - RESIDENTIAL AND 2005, 2006 SUPPLEMENT. FOR EXPOSURE B, ENCLOSED BUILDING, GUST. WD. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

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AMERICANA | FOUNDATION PLAN

AUSTIN 3

ELEVATION "C"

GARAGE: RIGHT

125 MPH

DRAWN BY:

RELEASE DATE: 01-03-05

08:20:40

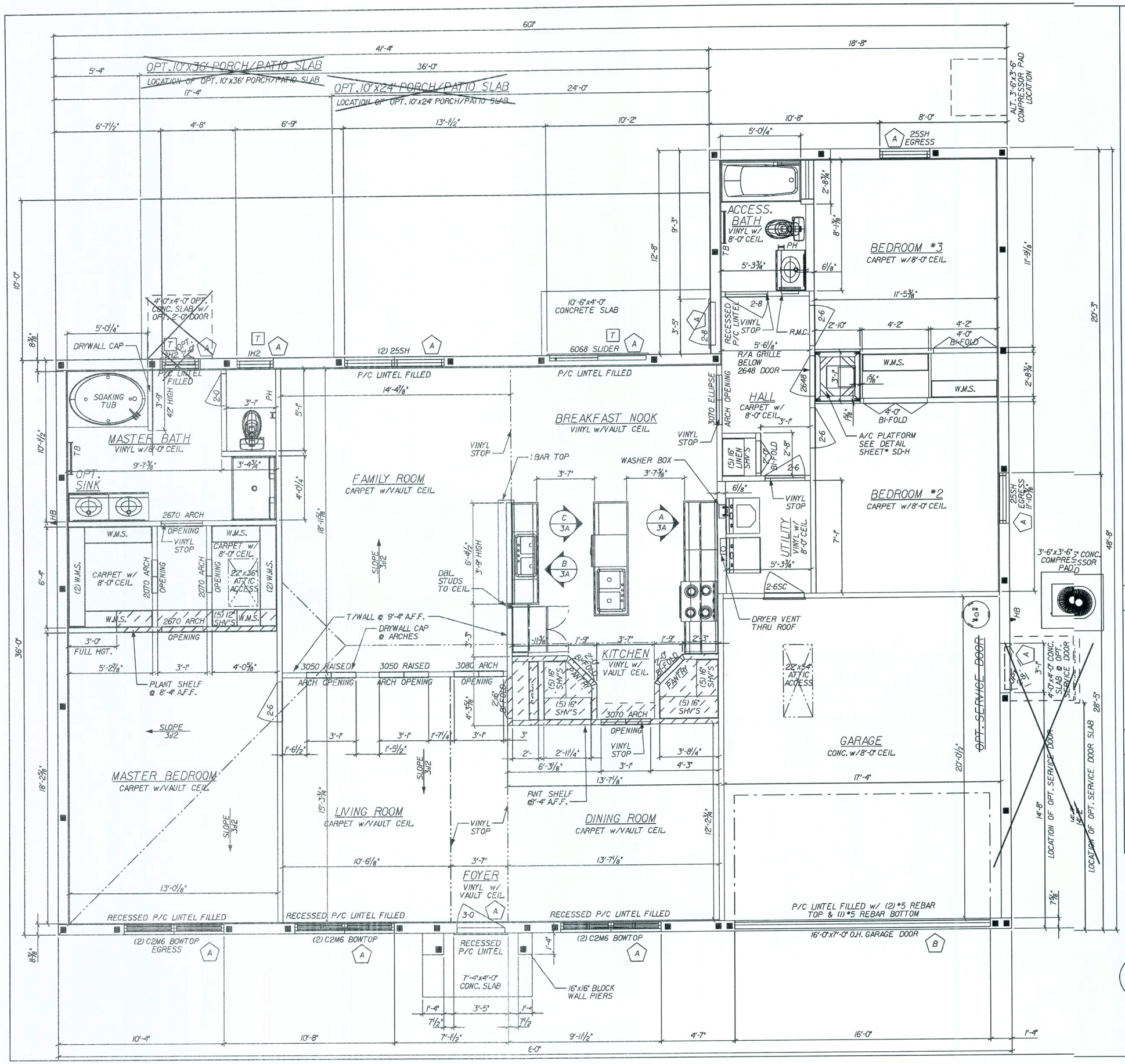
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:
2C

PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



GENERAL FIRST FLOOR NOTES:

ALL EXTERIOR WALLS SHALL BE CONSIDERED SHEAR WALLS MINUS ALL WINDOW AND DOOR OPENINGS.

EXTERIOR WALLS TO BE 7⅝" CONCRETE BLOCK w/ P.T. FURRING STRIPS IN A/C AREA, TOTAL WIDTH - 8⅜".

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF MASONRY OPENING.

INTERIOR LOAD BEARING WALLS TO BE 2x4 WOOD FRAME WALLS w/ STUDS @ 16" O.C. SEE STRUCTURAL WALL SCHEDULE SHEET # TR1

INTERIOR NON-LOAD BEARING WALLS TO BE NOMINAL 3⅝" MTL STUD, 25 ga., U.N.O.

ALL WOOD NOT SEPERATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE "PRESSURE TREATED WOOD"

SEE LINTEL SHEET FOR LINTEL SIZES OVER WINDOWS AND DOORS. PRECAST LINTELS BY CAST-CRETE.

ALL COMPOSITE BEAMS OVER WINDOW AND DOOR OPENINGS ARE TO BE 8" NOMINAL WIDTH AND 16" NOMINAL HEIGHT, U.N.O. THE 16" NOMINAL HEIGHT SHALL CONSIST OF AN 8" TOP COURSE (BOND BEAM BLOCK) FILLED w/ 3000 psi CONCRETE w/ (1) GRADE 40 CONTINUOUS HORZ. #5 REBAR AND AN 8" HIGH STRENGTH PRECAST LINTEL LOWER COURSE WHICH SHALL BE UNFILLED, U.N.O. FOR FILLED PRECAST LINTELS, USE 3000 psi CONCRETE w/ ⅜" AGGREGATE. FOR REINFORCED PRECAST LINTELS, USE GRADE 40 REINFORCING STEEL.

PROVIDE SAFETY GLAZING AT: [T] - TEMPERED
- ALL WINDOWS OVER BATH TUBS.
- ALL WINDOWS WITHIN 24" OF A DOOR SWING.
- ALL SLIDING GLASS DOORS.
- ALL FIXED GLASS LITES OVER 30 SQ.FT.
- ALL LITES WITHIN 18" OF THE FLOOR AND INDIVIDUAL PANE GREATER THAN 9 SQ.FT.
- ALL SHOWER ENCLOSURES.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210-12.

THE A/C DISCONNECT WILL BE LOCATED WITHIN 3 FEET OF THE COMPRESSOR.

SEE SHEET # WL1 FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

PROVIDE HEADER w/ (1) 2x4 JACK AND (1) 2x4 STUD, EACH SIDE OF OPENING (NO STRAPPING REQUIRED, U.N.O.) HDR TO BE NO.2 SYP SEE PLAN FOR SIZE

ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR - MIN. 1⅜" THICK SOLID CORE DOOR

REVISED 10-10-07

SQUARE FOOTAGE:

1st FLOOR LIVING	2024	SQ. FT.
GARAGE AREA	372	SQ. FT.
COVERED ENTRY	10	SQ. FT.
TOTAL AREA	2406	SQ. FT.

OPENING PRESSURES 125mph:

A: +28.1 / -30.5	B: +23.7 / -27.6	E: +24.2 / -27.1
C: +28.1 / -37.6	D: +24.9 / -29.7	

REVISED 09-12-07

ALL SWING DOORS IN BLOCK USE 2x DOOR BUCK DETAIL D/SD-D

REVISIONS :
12-14-06 REV. SERVICE DOOR SWING

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA BUILDING CODE 2004 - RESIDENTIAL
STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND 2005, 2006 SUPPLEMENT. FOR 125 MPH - 3 SEC. GUST. CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA | FIRST FLOOR PLAN
AUSTIN 3
ELEVATION "C"
GARAGE: RIGHT
125 MPH
DRAWN BY:
RELEASE DATE: 01-03-05

08-14-07 REV. CODE INFORMATION

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET: 3C

PLOT DATE: 04 DEC 2007 08:20:41

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FLORIDA BUILDING CODE 2004 : RESIDENTIAL

By: rhs
Date: 07/2008
chk: sws

Powers Steel Loads Table PSbox8 (7-5/8")

(pounds per linear foot)
ALL LOADS ARE SUPERIMPOSED

3000 psi grout
ga. < 16'0" span)
ga. >= 16'0" span)

Lintel Length	Clear Span	Reinforcement	8" x 8"			8" x 12"			8" x 14"			8" x 16"			8" x 20"			8" x 24"			8" x 32"			8" x 40"			Reinforcement	Clear Span	Lintel Length
			Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Up			
2'10"	16"	1#5 Top		4544	5963		5375	7910		5800	8898		6229	9886		7101	11860		7985								1#5 Top	16"	2'10"
		1#5 Top & Bot		4544	5963		5375	7910		5800	8898		6229	9886		7101	11860		7985								1#5 Top & Bot		
3'6"	2'2"	1#5 Top		3146	4140		3721	5493		4015	6977		4313	6866		4916	8251		5528	9645		6773	12451		8039		1#5 Top	2'2"	3'6"
		1#5 Top & Bot		3146	4140		3721	5493		4015	6977		4313	6866		4916	8251		5528	9645		6773	12451		8039		1#5 Top & Bot		
4'0"	2'8"	1#5 Top		2556	3370		3023	4473		3262	5031		3504	5592		3994	6720		4491	7656		5603	10142		6532	124	1#5 Top	2'8"	4'0"
		1#5 Top & Bot		2556	3370		3023	4473		3262	5031		3504	5592		3994	6720		4491	7658		5603	10142		6532	124	1#5 Top & Bot		
4'6"	3'2"	1#5 Top		2152	2844		2546	3775		2747	4246		2951	4720		3363	5673		3782	6332		4834	8583		5501	105	1#5 Top	3'2"	4'6"
		1#5 Top & Bot		2152	2844		2546	3775		2747	4246		2951	4720		3363	5673		3782	6332		4834	8583		5501	105	1#5 Top & Bot		
5'4"	4'0"	1#5 Top		1704	2259		2018	3000		2175	3374		2338	3751		2663	4509		2994	5272		3869	6807		4355	835	1#5 Top	4'0"	5'4"
		1#5 Top & Bot		1704	2259		2018	3000		2175	3374		2338	3751		2663	4509		2994	5272		3869	6807		4355	835	1#5 Top & Bot		
5'10"	4'6"	1#5 Top		1515	2012		1792	2672		1933	3006		2076	3342		2367	4018		2662	4698		3261	6066		3871	744	1#5 Top	4'6"	5'10"
		1#5 Top & Bot		1515	2012		1792	2672		1933	3006		2076	3342		2367	4018		2662	4698		3261	6066		3871	744	1#5 Top & Bot		
6'6"	5'2"	1#5 Top		1319	1757		1560	2334		1684	2626		1809	2920		2081	3511		2318	4105		2840	5301		3371	650	1#5 Top	5'2"	6'6"
		1#5 Top & Bot		1319	1757		1560	2334		1684	2626		1809	2920		2081	3511		2318	4105		2840	5301		3371	650	1#5 Top & Bot		
7'6"	6'2"	1#5 Top		1105	1478		1307	1964		1411	2210		1515	2456		1727	2955		1942	3456		2198	4464		2407	547	1#5 Top	6'2"	7'6"
		1#5 Top & Bot		1105	1478		1307	1964		1411	2210		1515	2456		1727	2955		1942	3456		2240	4464		2474	547	1#5 Top & Bot		
8'4"	7'0"	1#5 Top	1178	974	1306		1152	1737		1243	1954		1305	2173		1412	2614		1513	3057		1698	3949		1568	484	1#5 Top	7'0"	8'4"
		1#5 Top & Bot	1502	974	1306		1152	1737		1243	1954		1322	2173		1435	2614		1541	3057		1739	3949		1620	484	1#5 Top & Bot		
9'4"	8'0"	1#5 Top	881	814	1030		911	1436		958	1605		999	1774		1081	2116		1158	2459		1300	3149		1430	384	1#5 Top	8'0"	9'4"
		1#5 Top & Bot	1206	819	1030		919	1436		968	1605		1012	1774		1088	2116		1180	2469		1331	3149		1470	384	1#5 Top & Bot		
10'6"	9'2"	1#5 Top	657	620	793	1179	684	1107	1539	728	1237		761	1368		823	1632		882	1897		990	2431		1089	286	1#5 Top	9'2"	10'6"
		1#5 Top & Bot	904	624	793	1404	700	1107	1538	735	1237		771	1368		837	1632		899	1897		1014	2431		1120	286	1#5 Top & Bot		
11'4"	10'0"	1#5 Top	542	521	673	976	583	938	1403	612	1049		639	1161		892	1385		741	1611		832	2065		915	252	1#5 Top	10'0"	11'4"
		1#5 Top & Bot	750	524	673	1279	588	938	1403	618	1049		648	1161		703	1385		755	1611		852	2065		941	252	1#5 Top & Bot		
12'6"	11'2"	1#5 Top	423	418	546	766	467	763	1121	496	854	1354	513	945		555	1128		594	1312		667	1683		734	205	1#5 Top	11'2"	12'6"
		1#5 Top & Bot	590	420	546	1044	472	763	1245	496	854	1354	519	945		564	1128		606	1312		683	1683		754	205	1#5 Top & Bot		
13'4"	12'0"	1#5 Top	359	382	478	651	405	868	957	425	747	1252	444	827		480	988		515	1150		578	1476		636	180	1#5 Top	12'0"	13'4"
		1#5 Top & Bot	503	384	478	892	409	888	1087	430	747	1252	450	827		488	988		524	1150		592	1476		653	180	1#5 Top & Bot		
14'0"	12'8"	1#5 Top	315	326	433	675	363	806	849	381	677	1169	398	750		431	896		462	1043		519	1338		571	163	1#5 Top	12'8"	14'0"
		1#5 Top & Bot	445	327	433	792	367	806	985	385	677	1180	404	750		438	896		471	1043		531	1338		588	163	1#5 Top & Bot		
14'8"	13'4"	1#5 Top	279	293	394	511	328	551	756	344	617	1044	360	683	1293	389	817		417	951		468	1221		515	148	1#5 Top	13'4"	14'8"
		1#5 Top & Bot	398	295	394	706	331	551	861	348	617	1115	364	683	1293	385	817		425	951		479	1221		529	148	1#5 Top & Bot		
15'4"	14'0"	1#5 Top	247	268	361	455	297	506	676	312	565	936	326	676	1225	353	749		378	872		425	1171		487	137	1#5 Top	14'0"	15'4"
		1#5 Top & Bot	353	267	361	632	300	506	771	316	565	1022	330	626	1225	359	749		385	872		435	1171		480	137	1#5 Top & Bot		
17'4"	16'0"	1#5 Top	216	271	347	386	296	481	492	308	509	688	318	553	1166	341	656	1524	381	754		399	962		434	115	1#5 Top	16'0"	17'4"
		1#5 Top & Bot	284	272	347	530	298	481	663	310	509	776	322	558	1236	344	656	1524	386	754		405	962		442	115	1#5 Top & Bot		
19'4"	18'0"	1#5 Top	167	214	282	266	234	378	367	243	418	519	252	456	891	269	537	1201	285	618		316	781		343	94	1#5 Top	18'0"	19'4"
		1#5 Top & Bot	211	216	282	400	235	378	494	245	418	588	254	456	946	272	537	1336	289	618		320	781		349	94	1#5 Top & Bot		
20'0"	18'8"	1#5 Top	142	199	265	260	218	353	334	228	391	474	235	429	818	250	505	1104	285	582		293	736		319	89	1#5 Top	18'8"	20'0"
		1#5 Top & Bot	192	200	265	365	219	353	452	228	391	539	236	429	869	253	505	1282	289	582		298	736		325	69	1#5 Top & Bot		
22'0"	20'8"	1#5 Top	104	162	223	196	177	298	254	185	330	385	191	383	641	204	428	869	218	494		239	826		260	75	1#5 Top	20'8"	22'0"
		1#5 Top & Bot	115	163	223	281	178	298	350	186	330	418	193	383	682	206	428	1037	219	494		243	826		265	75	1#5 Top & Bot		
24'0"	22'8"	1#5 Top	76	135	191	147	148	257	193	153	285	284	158	313	508	170	371	693	180	428		189	643		216	85	1#5 Top	22'8"	24'0"
		1#5 Top & Bot	110	136	191	219	148	257	273	154	285	327	160	313	543	172	371	832	182	428		202	543		220	85	1#5 Top & Bot		
25'4"	24'0"	1#5 Top										334	143	361	484	153	480	625	183	577		180	754		196	93	1#5 Top	24'0"	25'4"
		1#5 Top & Bot										384	145	381	625	155	480	918	186	577		185	754		202	93	1#5 Top & Bot		
27'4"	26'0"	1#5 Top										267	122	335	391	130	430	507	138	507	737	154	663		187	81	1#5 Top	26'0"	27'4"
		1#5 Top & Bot										309	123	335	511	132	430	757	141	507	1026	157	663		172	81	1#5 Top & Bot		
29'4"	28'0"	1#5 Top										214	105	298	317	112	383	413	119	452	604	132	590		144	73	1#5 Top	28'0"	29'4"
		1#5 Top & Bot										251	106	298	420	114	383	629	122	452	929	136	590		149	73	1#5 Top & Bot		
31'4"	30'0"	1#5 Top										171	92	269	258	96	345	337	104	407	497	115	632		128	65	1#5 Top	30'0"	31'4"
		1#5 Top & Bot										203	93	269	348	99	345	526	106	407	780	119	632		129	65	1#5 Top & Bot		
33'4"	32'0"	1#5 Top																			409	101	484		110	59	1#5 Top	32'0"	33'4"
		1#5 Top & Bot																			657	104	484		112	59	1#5 Top & Bot		
35'4"	34'0"	1#5 Top																			336	90	445		98	55	1#5 Top	34'0"	35'4"
		1#5 Top & Bot																			566	92	445		101	55	1#5 Top & Bot		
37'4"	36'0"	1#5 Top																			275	80	411		87	50	1#5 Top	36'0"	37'4"
		1#5 Top & Bot																			471	82	411		90	50	1#5 Top & Bot		
39'4"	38'0"	1#5 Top																							78	47	1#5 Top	38'0"	39'4"
		1#5 Top & Bot																							81	47	1#5 Top & Bot		
41'4"	40'0"	1#5 Top																							71	44	1#5 Top	40'0"	41'4"
		1#5 Top & Bot																							73	44	1#5 Top & Bot		

Note: Above loads include 1/3 increase for wind.
All lintels greater than 22'-8" in length will require (2)-#5 bars top or (2)-#5 bars top&bott.

By: rhs
Date: 07/2008
chk: sws

Powers Steel L Loads Table PSbox8 (5-5/8")

(po (pounds per linear foot)
ALL LO LOADS ARE SUPERIMPOSED

3000 psi grout
(18 ga. < 16'0" span)
(16 ga. >= 16'0" span)

Lintel Length	Clear Span	Reinforcement	8" x 6"			8" x 10"			8" x 14"			8" x 18"			8" x 22"			8" x 26"			Reinforcement	Clear Span	Lintel Length
			Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift	Gravity	Lateral	Uplift			
2'10"	16"	1#5 Top		4148	5008		4970	7104		5821	9197		5691	11282		7576			8473		1#5 Top	16"	2'10"
		1#5 Top & Bot		4148	5008		4970	7104		5821	9197		5691	11282		7576			8473		1#5 Top & Bot		
3'6"	2'2"	1#5 Top		2870	3476		3441	4952		4030	6388		4632	7835		5245	9294		5886	10762	1#5 Top	2'2"	3'6"
		1#5 Top & Bot		2870	3476		3441	4952		4030	6388		4632	7835		5245	9294		5886	10762	1#5 Top & Bot		
3'8"	2'4"	1#5 Top		2665	3229		3195	4602		3742	5934		4302	7281		4871	8837		5447	10001	1#5 Top	2'4"	3'8"
		1#5 Top & Bot		2665	3229		3195	4602		3742	5934		4302	7281		4871	8837		5447	10001	1#5 Top & Bot		
4'0"	2'8"	1#5 Top		2332	2829		2795	4032		3274	5200		3764	6380		4262	7569		4766	8765	1#5 Top	2'8"	4'0"
		1#5 Top & Bot		2332	2829		2795	4032		3274	5200		3764	6380		4262	7569		4766	8765	1#5 Top & Bot		
4'2"	2'10"	1#5 Top		2195	2684		2631	3797		3082	4898		3542	6010		4011	7130		4486	8256	1#5 Top	2'10"	4'2"
		1#5 Top & Bot		2195	2684		2631	3797		3082	4898		3542	6010		4011	7130		4486	8256	1#5 Top & Bot		
4'4"	3'0"	1#5 Top		2073	2518		2485	3589		2910	4629		3346	5680		3788	6739		4237	7803	1#5 Top	3'0"	4'4"
		1#5 Top & Bot		2073	2518		2485	3589		2910	4629		3346	5680		3788	6739		4237	7803	1#5 Top & Bot		
4'6"	3'2"	1#5 Top		1964	2387		2354	3402		2757	4388		3170	5385		3589	6389		4014	7398	1#5 Top	3'2"	4'6"
		1#5 Top & Bot		1964	2387		2354	3402		2757	4388		3170	5385		3589	6389		4014	7398	1#5 Top & Bot		
4'8"	3'4"	1#5 Top		1866	2269		2236	3234		2619	4172		3011	5120		3409	6075		3813	7034	1#5 Top	3'4"	4'8"
		1#5 Top & Bot		1866	2269		2236	3234		2619	4172		3011	5120		3409	6075		3813	7034	1#5 Top & Bot		
5'4"	4'0"	1#5 Top		1555	1895		1864	2703		2183	3487		2509	4280		2841	5078		3177	5880	1#5 Top	4'0"	5'4"
		1#5 Top & Bot		1555	1895		1864	2703		2183	3487		2509	4280		2841	5078		3177	5880	1#5 Top & Bot		
5'6"	4'2"	1#5 Top		1492	1820		1789	2596		2096	3350		2409	4111		2728	4879		3050	5649	1#5 Top	4'2"	5'6"
		1#5 Top & Bot	2770	1492	1820		1789	2596		2096	3350		2409	4111		2728	4879		3050	5649	1#5 Top & Bot		
5'10"	4'6"	1#5 Top	1650	1382	1688		1657	2407		1840	3106		2230	3813		2525	4524		2824	5239	1#5 Top	4'6"	5'10"
		1#5 Top & Bot	2373	1382	1688		1657	2407		1840	3106		2230	3813		2525	4524		2824	5239	1#5 Top & Bot		
6'6"	5'2"	1#5 Top	1240	1204	1473		1443	2102		1690	2713		1943	3331		2200	3953		2460	4578	1#5 Top	5'2"	6'6"
		1#5 Top & Bot	1789	1204	1473		1443	2102		1690	2713		1943	3331		2200	3953		2460	4578	1#5 Top & Bot		
6'8"	5'4"	1#5 Top	1161	1186	1404		1398	2038		1637	2630		1882	3229		2131	3832		2383	4438	1#5 Top	5'4"	6'8"
		1#5 Top & Bot	1676	1186	1404		1398	2038		1637	2630		1882	3229		2131	3832		2383	4438	1#5 Top & Bot		
7'6"	6'2"	1#5 Top	857	1009	1057	2168	1209	1769		1418	2283		1628	2803		1843	3327		1964	3853	1#5 Top	6'2"	7'6"
		1#5 Top & Bot	1242	1009	1057	2274	1209	1769		1418	2283		1628	2803		1843	3327		2011	3853	1#5 Top & Bot		
7'8"	6'4"	1#5 Top	810	982	1003	2043	1177	1693		1379	2221		1585	2732		1748	3290		1862	3755	1#5 Top	6'4"	7'8"
		1#5 Top & Bot	1175	982	1003	2212	1177	1693		1379	2221		1585	2732		1784	3290		1907	3755	1#5 Top & Bot		
8'4"	7'0"	1#5 Top	655	888	826	1659	1065	1394		1224	1829		1331	2268		1431	2710		1525	3155	1#5 Top	7'0"	8'4"
		1#5 Top & Bot	954	888	826	1932	1065	1394		1241	1829		1354	2268		1461	2710		1561	3155	1#5 Top & Bot		
9'4"	8'0"	1#5 Top	491	750	639	1253	848	1078	2051	937	1414		1019	1755		1096	2097		1187	2442	1#5 Top	8'0"	9'4"
		1#5 Top & Bot	720	754	639	1462	857	1078	2051	950	1414		1037	1755		1118	2097		1195	2442	1#5 Top & Bot		
9'8"	8'4"	1#5 Top	449	691	591	1149	782	997	1965	864	1308		939	1623		1010	1940		1076	2259	1#5 Top	8'4"	9'8"
		1#5 Top & Bot	660	695	591	1341	789	997	1965	876	1308		956	1623		1031	1940		1101	2259	1#5 Top & Bot		
10'6"	9'2"	1#5 Top	393	571	493	937	646	831	1777	714	1092		776	1355		834	1620		889	1886	1#5 Top	9'2"	10'6"
		1#5 Top & Bot	537	574	493	1096	652	831	1777	724	1092		790	1355		852	1620		910	1886	1#5 Top & Bot		
11'4"	10'0"	1#5 Top	298	480	419	775	543	706	1571	600	927		652	1151		701	1376		747	1603	1#5 Top	10'0"	11'4"
		1#5 Top & Bot	444	483	419	909	548	706	1620	608	927		664	1151		718	1376		765	1603	1#5 Top & Bot		
12'6"	11'2"	1#5 Top	230	385	341	607	436	575	1240	481	756	1656	523	938		562	1122		599	1307	1#5 Top	11'2"	12'6"
		1#5 Top & Bot	347	387	341	714	440	575	1413	488	756	1656	532	938		574	1122		613	1307	1#5 Top & Bot		
13'4"	12'0"	1#5 Top	183	333	298	516	377	504	1060	417	683	1490	453	823		487	985		519	1147	1#5 Top	12'0"	13'4"
		1#5 Top & Bot	294	335	299	609	381	504	1210	422	683	1534	461	823		497	985		531	1147	1#5 Top & Bot		
14'0"	12'8"	1#5 Top	168	299	271	455	339	456	941	374	601	1324	407	747		437	893		466	1041	1#5 Top	12'8"	14'0"
		1#5 Top & Bot	252	301	271	539	342	456	1075	379	601	1446	414	747		446	893		477	1041	1#5 Top & Bot		
14'8"	13'4"	1#5 Top										1182	367	681	1525	394	818		420	950	1#5 Top	13'4"	14'8"
		1#5 Top & Bot										1368	373	681	1545	403	818		430	950	1#5 Top & Bot		
15'4"	14'0"	1#5 Top										1080	333	625	1369	358	749		381	872	1#5 Top	14'0"	15'4"
		1#5 Top & Bot										1296	339	625	1484	365	749		390	872	1#5 Top & Bot		
17'4"	16'0"	1#5 Top										781	255	497	1011	274	595	1241	292	694	1#5 Top	16'0"	17'4"
		1#5 Top & Bot										1043	259	497	1347	280	595	1405	299	694	1#5 Top & Bot		
19'4"	18'0"	1#5 Top										739	256	437	964	272	518	1190	287	600	1#5 Top	18'0"	19'4"
		1#5 Top & Bot										830	259	437	1214	276	518	1499	292	600	1#5 Top & Bot		
20'0	18'8"	1#5 Top										678	238	412	886	253	488	1093	267	565	1#5 Top	18'8"	20'0
		1#5 Top & Bot										783	241	412	1116	256	488	1381	271	565	1#5 Top & Bot		
22'0	20'8"	1#5 Top										529	194	350	693	206	416	857	218	482	1#5 Top	20'8"	22'0
		1#5 Top & Bot										598	196	350	883	209	416	1092	221	482	1#5 Top & Bot		
24'0	22'8"	1#5 Top										418	182	306	550	172	362	681	181	419	1#5 Top	22'8"	24'0
		1#5 Top & Bot										478	183	306	707	174	362	876	184	419	1#6 Top & Bot		

Note: Above loads include 1/3 increase for wind.
All lintels greater than 22'-8" in length will require (2)-#5 bars top or (2)-#5 bars top&bott.

NOTES:

1. PRODUCT NAME (PATENT NO. 6367209)

   PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED (G60 MINIMUM) COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).

   NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY. FOR SPANS LESS THAN 16'-0" BOX LINTELS TO BE 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 16'-0" BOX LINTELS TO BE 16 GA.

2. SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 18'-0" ARE BUILT WITH 1/2" CAMBER.

3. LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM f'm AS SHOWN.

4. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.

5. DESIGN BEARING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 18'-0" IN SPAN OR GREATER THAN 32" IN DEPTH. ALL OTHER LINTELS REQUIRE A MINIMUM OF 4" BEARING PER THE STANDARD AND FLORIDA BUILDING CODES.

6. f'm = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.

7. GROUT = 3,000 psi. SLUMP RANGE: 8" TO 11". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-83 AND BE EITHER COARSE OR FINE GROUT.

8. MORTAR: TYPE "S" OR TYPE "M" 1800 psi.

9. TOP REINFORCING OR TOP OF WALL REINFORCING, IS REQUIRED BY CODES TO PROVIDE A CONTINUOUS TIE AROUND A STRUCTURE AND TO PROVIDE FOR UPLIFT RESISTANCE AT LINTELS.

10. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.

11. LIMITATIONS:

    THE LINTELS SHALL NOT EXCEED THE ALLOWABLE DESIGN LOADS AND SPANS SHOWN IN THIS REPORT.

    THE LINTELS SHALL NOT BE USED IN A FIRE RESISTANCE RATED ASSEMBLY UNLESS A TEST REPORT DOCUMENTING FIRE RESISTANCE IS SUBMITTED TO THE BUILDING OFFICIAL.

    A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WOULD BE A POLYETHYLENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 1/4" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.

    NOT FOR USE IN THE HVHZ IN MIAMI OR BROWARD COUNTIES AT THIS TIME. MIAMI DADE COMPLIANCE IS BEING SOUGHT.

12. ALLOWABLE LOADS SHOWN IN THE TABLES FOR UPLIFT AND LATERAL LOAD CAPACITY INCLUDE A 1/3 INCREASE FOR WIND OR SEISMIC LOADING WITH NO FURTHER INCREASES ALLOWED. IF COMBINED LOADING CONDITIONS ARE APPLIED TO THE LINTELS FOR SIMULTANEOUS LOADING DIRECTIONS, THE ALLOWABLE LOADS SHOWN IN THE TABLES MUST BE ADJUSTED USING A UNITY EQUATION.

13. ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 4/2008 AND CLEARLY INDICATE SUPERIMPOSED LOADS.

14. #5 REINFORCING BAR (GRADE 40) IS TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.

15. MANUFACTURER:

    POWERS STEEL
    4118 E. ELWOOD PHOENIX, AZ 85040
    PH# 602-437-1160 FAX# 602-437-5409

16. TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

    + FLORIDA BUILDING CODE - 2007
    + NASPEC / AISI LIGHT GAGE COLD FORMED STEEL DESIGN - 2001 (W/ 2004 SUPPLEMENT)
    + ACI 530-05/ASCE 5-05/TMS 402-05

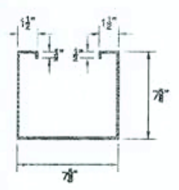
    TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

    STRUCTURAL ENGINEER FOR THESE LINTELS IS:

    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE No. (480) 946-2010
    FAX (480) 946-1909

17. IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.

    INSTALLATION:
    POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.



PSbox8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.
18 GAGE IS .048 INCHES THICK.

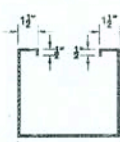
NOTES:

1. PRODUCT NAME (PATENT NO. 6367209);

   PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED (G60 MINIMUM) COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).

14. #5 REINFCING BAR(S) GRADE 40 ARE TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.

PSbox8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.
18 GAGE IS .048 INCHES THICK.



NOTES:

1. PRODUCT NAME (PATENT NO. 6367209);

   PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED (G60 MINIMUM) COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40 ksi).

   NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY. FOR SPANS LESS THAN 16'-0" BOX LINTELS TO BE 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 16'-0" BOX LINTELS TO BE 16 GA.

14. #5 REINFORCING BAR (GRADE 40) IS TO SET APPROX. 1 1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.

15. MANUFACTURER:

    POWERS STEEL PRODUCTS LINTELS
    4118 E. ELWOOD PHOENIX, AZ 85040
    PH# 602-437-1160 FAX# 602-437-5409

16. TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

    - FLORIDA BUILDING CODE - 2007
    - NASPEC / AISI LIGHT GAGE COLD FORMED STEEL DESIGN - 2001 (W/ 2004 SUPPLEMENT)
    - ACI 530-05/ASCE 5-05/TMS 402-05

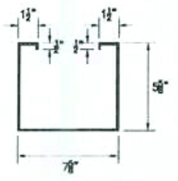
    TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

    STRUCTURAL ENGINEER FOR THESE LINTELS IS:

    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE No. (480) 946-2010
    FAX (480) 946-1909

    IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.

17. INSTALLATION:
    POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.



PSbox8(5-5/8) STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.
18 GAGE IS .048 INCHES THICK.

NOTES:

14. #5 REINFORCING BAR(S) GRADE 40 ARE TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.

15. MANUFACTURER:

    POWERS STEEL PRODUCTS LINTELS
    4118 E. ELWOOD PHOENIX, AZ 85040
    PH# 602-437-1160 FAX# 602-437-5409

16. TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

    + FLORIDA BUILDING CODE - 2007
    + NASPEC / AISI LIGHT GAGE COLD FORMED STEEL DESIGN - 2001 (W/ 2004 SUPPLEMENT)
    + ACI 530-05/ASCE 5-05/TMS 402-05

    TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

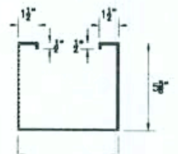
    STRUCTURAL ENGINEER FOR THESE LINTELS IS:

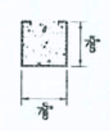
    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE No. (480) 946-2010
    FAX (480) 946-1909

    IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.

17. INSTALLATION:
    POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.

PSbox8(5-5/8) STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.
18 GAGE IS .048 INCHES THICK.




PSbox8-8"
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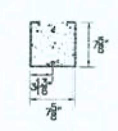
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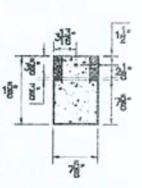
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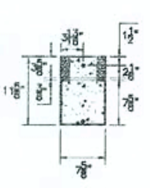
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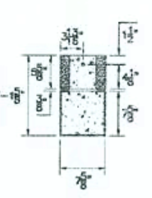
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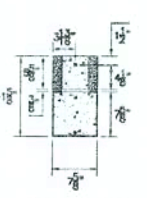
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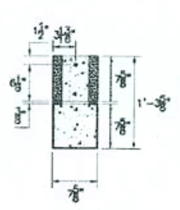
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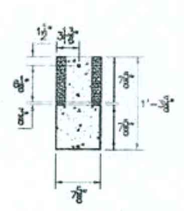
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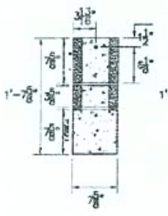
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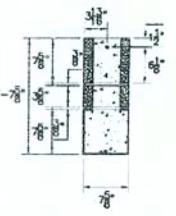
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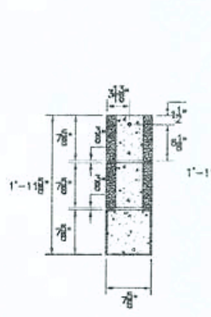
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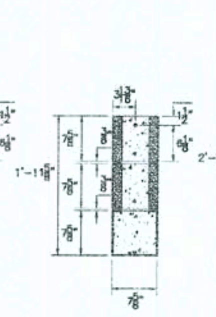
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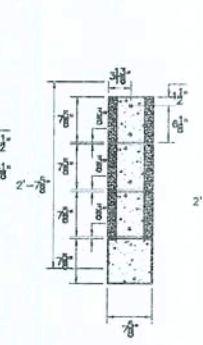
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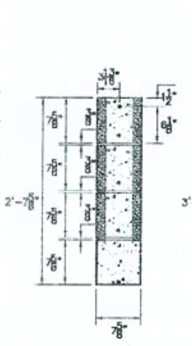
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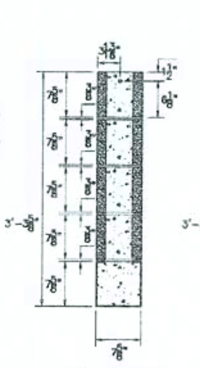
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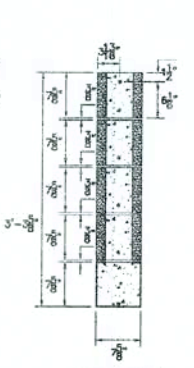
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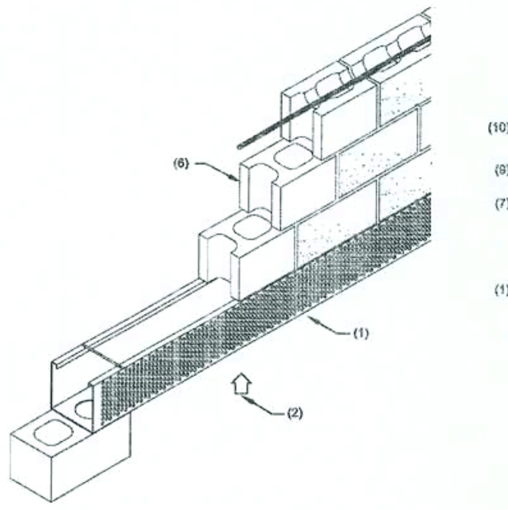
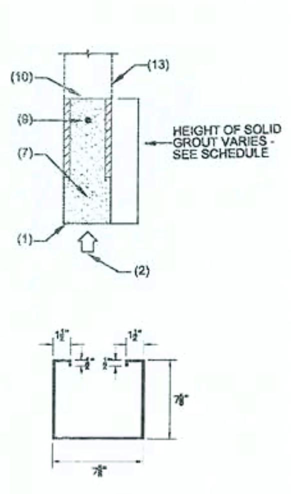
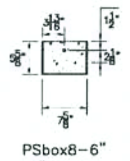




TYPICAL POWER BOX LINTEL SECTION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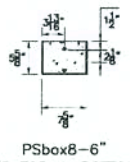
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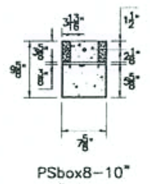
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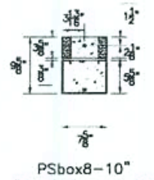
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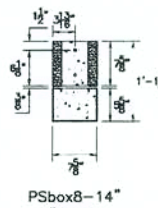
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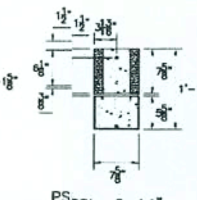
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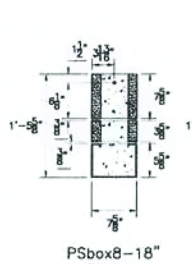
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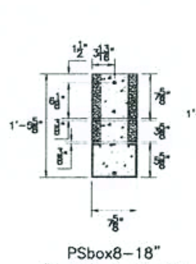
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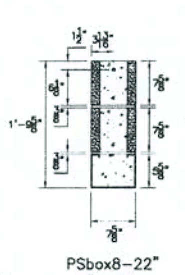
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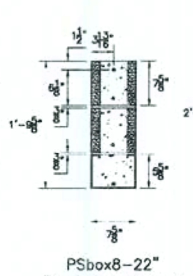
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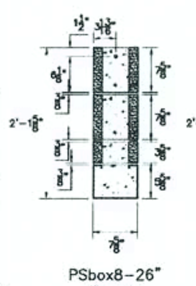
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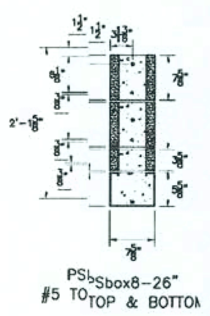
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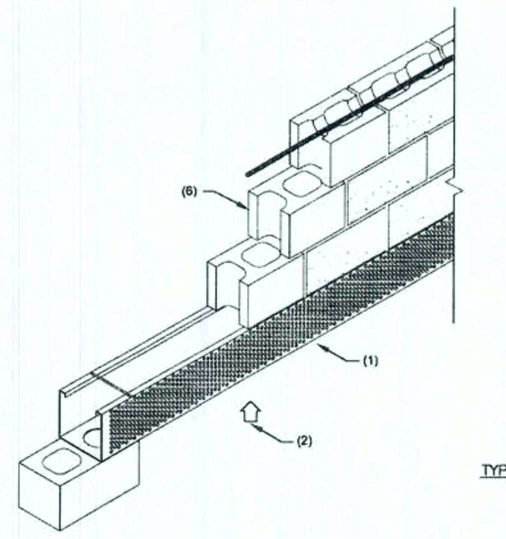
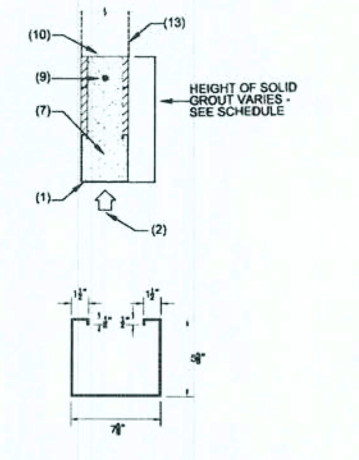




TYPICAL POWER BOX LINTEL SECTION

S.E. CONSULTANTS, Inc.
Structural Engineering Consultants
5800 East Thomas Road, Suite 104
Scottsdale, AZ 85251
(602)437-1160
Fax (602)437-5409

JOB NAME	
JOB NO.	0308-08
ADDRESS	
CONTRACTOR	MARONDA
DESCRIPTION	
ARCHITECT	
ENGINEER	
DETAILER	
DATE	AUG. 2008
GRADE	
DRWG NO.	

POWERS STEEL & WIRE
(602) 437-1160 FAX 437-5409

NO.	REVISION	BY	DATE

FASTENERS SCHEDULE USING 3/16" X 2 1/4" TAPCONS THROUGH BUCK INTO BLOCK

NOTE 1) 1/2 WIDE: 2 FASTENERS IN HEADER-JAMB
NOTE 2) 2 WIDE: 2 FASTENERS IN HEADER-JAMB
NOTE 3) 3 WIDE: 3 FASTENERS IN HEADER-JAMB
NOTE 4) 2 HIGH: 2 FASTENERS IN EA. SIDE JAMB
NOTE 5) 3,4,OR 5 HIGH: 3 FAST. EA. SIDE JAMB
NOTE 6) 6 HIGH 26 3/4": 4 FASTENERS IN EACH SIDE JAMB
NOTE 7) 438 WINDOW INTO FRAME OPENING: #10 X 1 3/4" SCREWS
NOTE 8) SGD FASTENED WITH: #10 1 3/4": PANHEAD ALL HOLES SILLS 3/16" X 1 3/4" ANCHORS EVERY HOLE

WINDOW NOTES

F.O. WIDTH IS FROM JACK TO SILL.
F.O. HEIGHT IS FROM SILL TO BEAM.
M.O. WIDTH IS FROM BLOCK TO BLOCK.
M.O. HEIGHT IS FROM LIP OF SILL TO PRECAST.
1st. DIMENTION IS ALWAYS WIDTH.
UNIT OF MEASURE IS INCH.

ATTENTION

SCHEDULES FOR NORANDEX WINDOW FASTENERS AND CAST-CRETE LINTELS AS SHOWN, ARE TAKEN DIRECTLY FROM TABLES SUPPLIED BY THE RESPECTIVE MANUFACTURERS, AND ARE PROVIDED FOR CONVENIENCE ONLY.

NORANDEX SERIES (MO)437-(FO)438 WINDOW SIZE CHART

SERIES 500/502 SGD DOOR OPENINGS

SIZE	M.O.	FAST.	SIZE	M.O.	FAST.
6068	75 1/2 X 81 3/4	8	6080	75 1/2 X 97 3/4	8

SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.	DOUBLE M.O.	FAST.	SIZE	SINGLE F.O.	FAST.	DOUBLE F.O.	FAST.
25	37 3/4 X 63	2,5	74 3/4 X 63	2,5					
1H2	27 1/4 X 26	1,4							

SINGLE HUNG BOWTOP

SIZE	DOUBLE M.O.	FAST.
(2)C2M6	74 3/4 X 74	2,5

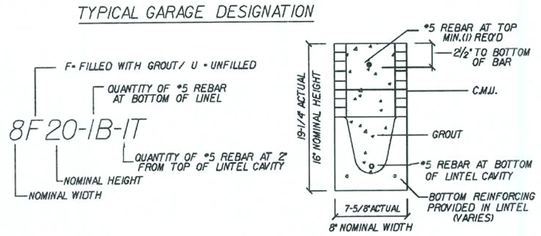
THE SPECIFIED LINTELS ON SHEET WL1 ARE MANUFACTURED BY CAST-CRETE CORP. ALTERNATE MANUFACTURED LINTELS ARE AVAILABLE "BY OTHERS". SOLE AND FULL RESPONSIBILITY IS RETAINED BY THE SUB-CONTRACTOR IN THE SELECTION OF THE ALTERNATE LINTELS AS HAVING EQUAL TO OR GREATER THAN THE ACTUAL GRAVITY AND UPLIFT LOADS, THAT ARE LISTED ON THIS HOUSE SPECIFIC WL1 LINTEL SCHEDULE.

REVISED 04-02-07

MATERIAS

1. f'c precast lintels = 3500 psi.
2. f'c prestressed lintels = 6000 psi.
3. f'c grout = 300 psi w/ maximum 3/8" aggregate
4. Concrete masonry units (CMU) per ASTM C90 w/ minimum net area compressive strength = 1900 psi.
5. Rebar provided in precast lintel per ASTM A615: R60. Field rebar per ASTM A615: R40 or GR60.
6. Prestressing strand per ASTM A416 grade 270 w relaxation.
7. 7/32 wire per ASTM A510.
8. Mortar per ASTM C270 type M or S.

TYPICAL GARAGE DESIGNATION



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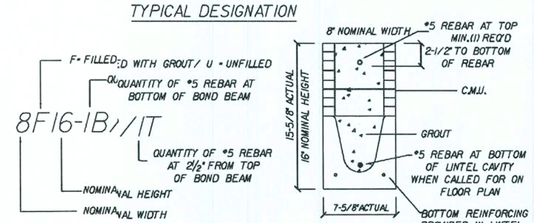


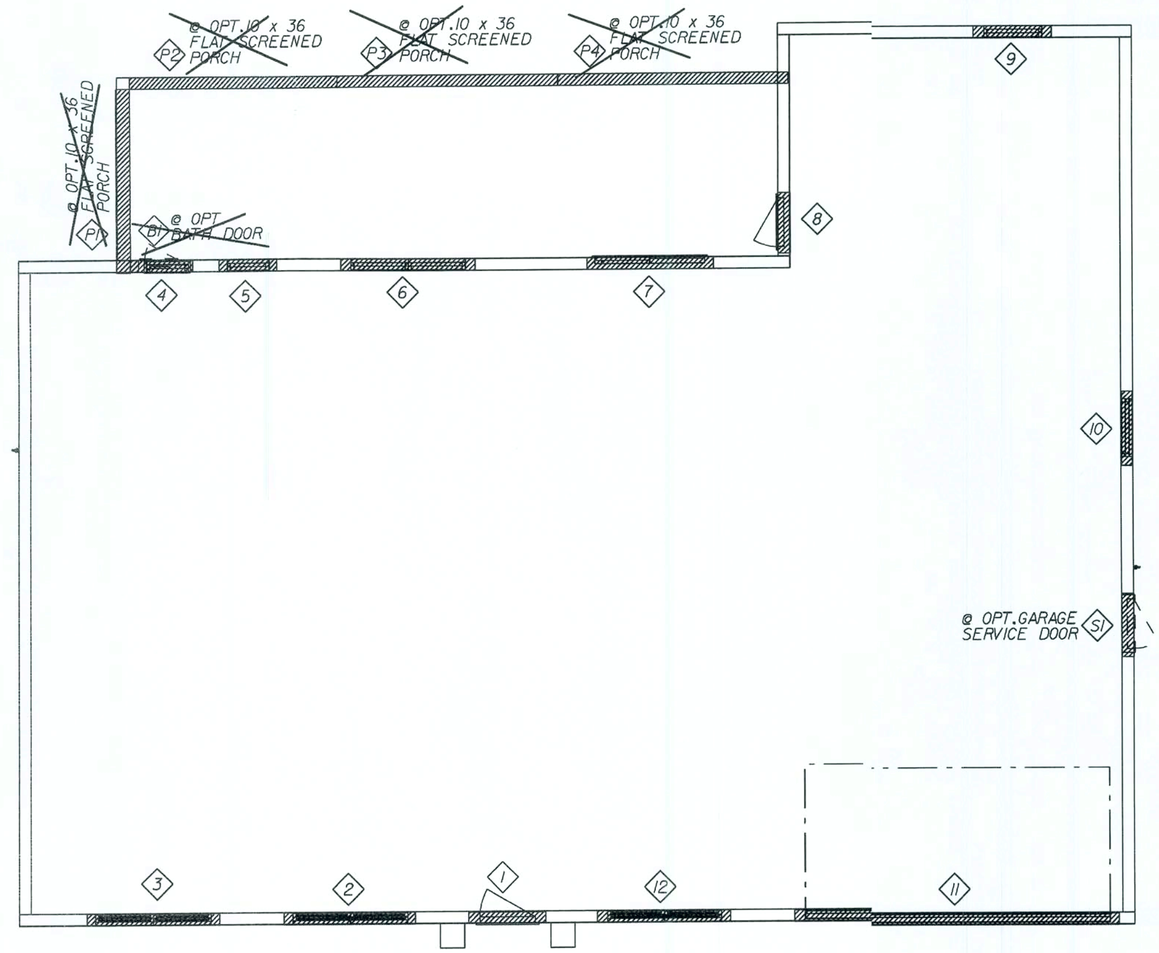
REVISED 12/29/04

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
1	4'-6"	8RU14-0B/IT	617	566	1494	2525	RECESSED
2	7'-6"	8RF14-0B/IT	617	566	2459	1462	RECESSED
3	7'-6"	8F14-0B/IT	617	566	2459	1462	RECESSED
4	4'-6"	8F16-0B/IT	617	566	2931	2724	-
5	4'-6"	8U16-0B/IT	617	566	1599	2724	-
6	7'-6"	8F16-0B/IT	617	566	2632	1634	-
7	7'-6"	8F16-0B/IT	617	566	2632	1634	-
8	4'-6"	8RU14-0B/IT	685	167	1494	2525	RECESSED
~~B1~~	~~4'-6"~~	~~8RU14-0B/IT~~	~~617~~	~~566~~	~~1494~~	~~2525~~	~~@ OPT. BATH DOOR~~

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
9	4'-6"	8U16-0B/IT	209	283	1599	2724	-
10	4'-6"	8U16-0B/IT	209	283	1599	2724	-
11	17'-4"	8F20-1B/2IT	620	580	1326	732	GARAGE DOOR
12	7'-6"	8RF14-0B/IT	617	566	2459	1462	RECESSED
~~S1~~	~~4'-6"~~	~~8U16-0B/IT~~	~~209~~	~~283~~	~~1599~~	~~2724~~	~~@ OPT. GARAGE SERVICE DR.~~
~~P1~~	~~10'-6"~~	~~8F8-0B/IT~~	~~83~~	~~116~~	~~475~~	~~914~~	~~@ OPT. PORCH~~
~~P2~~	~~12'-0"~~	~~8F8-0B/IT~~	~~230~~	~~116~~	~~540~~	~~470~~	~~@ OPT. PORCH~~
~~P3~~	~~12'-0"~~	~~8F8-0B/IT~~	~~230~~	~~116~~	~~540~~	~~470~~	~~@ OPT. PORCH~~
~~P4~~	~~12'-8"~~	~~8F8-0B/IT~~	~~230~~	~~116~~	~~475~~	~~914~~	~~@ OPT. PORCH~~



REVISIONS :

08-14-07 REV. CODE INFORMATION

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 + RESIDENTIAL AND 2005, 2006 SUPPLEMENT - FOR 125 MPH 3 SEC. GUST WIND SPEED. ALL REQUIRED STRAPPING, ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

p:\Houses_05\austin3\125\ous3-c-125.wl1

AMERICANA | WINDOW/LINTEL

AUSTIN 3

ELEVATION "C"

DRAWN BY: | GARAGE: RIGHT | 125 MPH

RELEASE DATE: 01-03-05 | 08:20:42

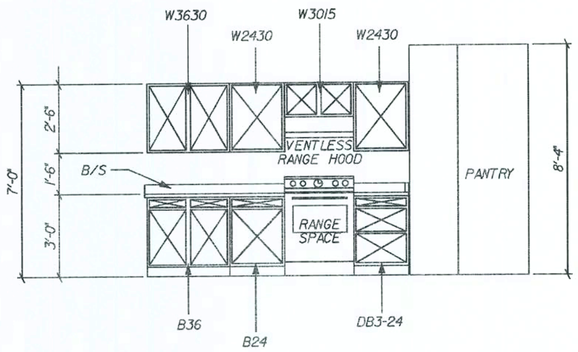
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

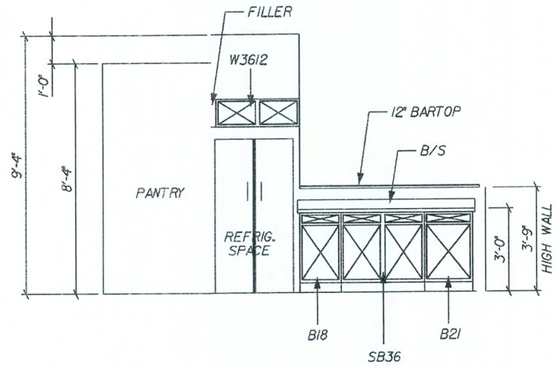
SHEET: WL1a

PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



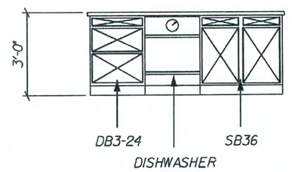
A KITCHEN ELEVATION



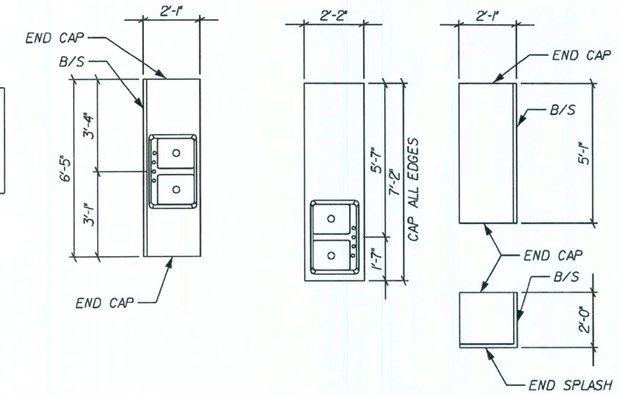
B KITCHEN ELEVATION

ON REAR FACE OF ISLAND CABINETS INSTALL 1/4" VENEER PANEL OVER 1/4" PLYWOOD BACKER w/ (2) OUTSIDE CORNER PEICES.

ISLAND > 48" ADD (1) BATTON MOLDING AT PANEL JOINT

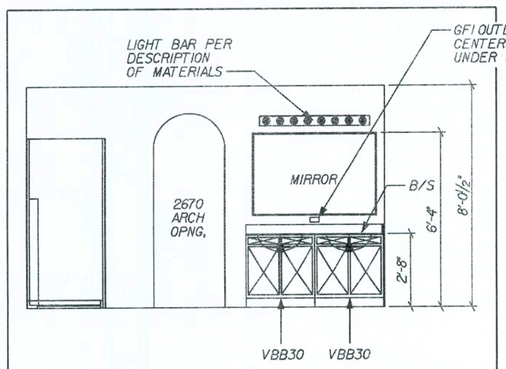


C KITCHEN ELEVATION

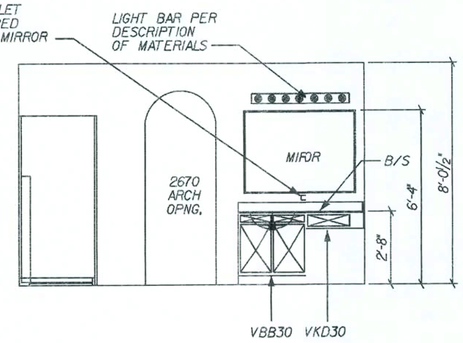


KITCHEN COUNTER TOP PLAN

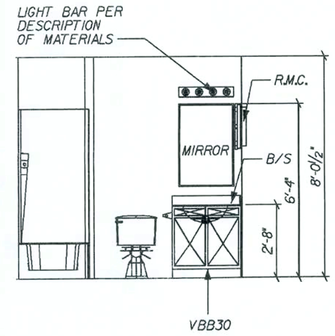
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



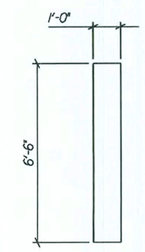
D OPTIONAL DBL. SINK - MASTER BATH VANITY



D STANDARD MASTER BATH VANITY

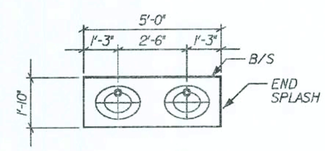


E HALL BATH VANITY

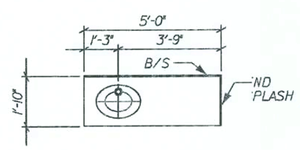


KITCHEN BAR TOP PLAN

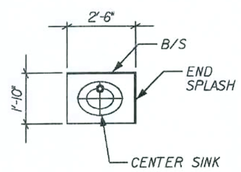
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



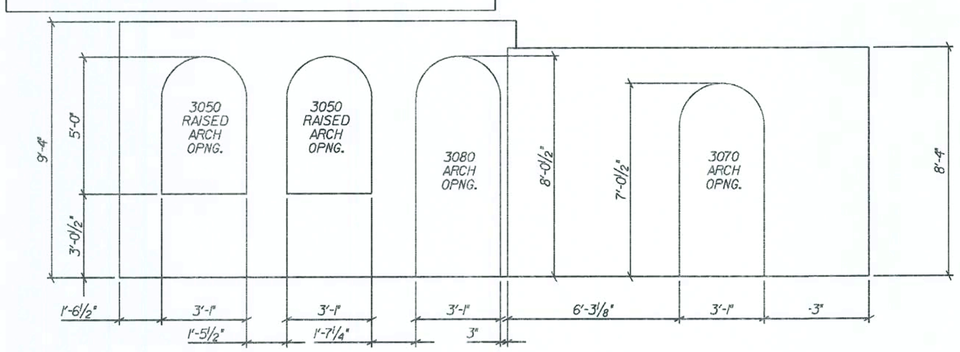
OPT. DBL. SINK LAV. TOP MASTER BATH VANITY



STANDARD LAV. TOP MASTER BATH VANITY



STANDARD LAV. TOP HALL BATH VANITY



F LIVING/DINING ROOM ARCH ELEVATION

REVISIONS :
01-08-07 REV. BASE CABINET @ RANGE

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPPLEMENT

AMERICANA
INT. ELEVATIONS
AUSTIN 3
GARAGE: RIGHT
DRAWN BY:
RELEASE DATE: 10-18-04
08:20:43
PLOT DATE: 04 DEC 2007
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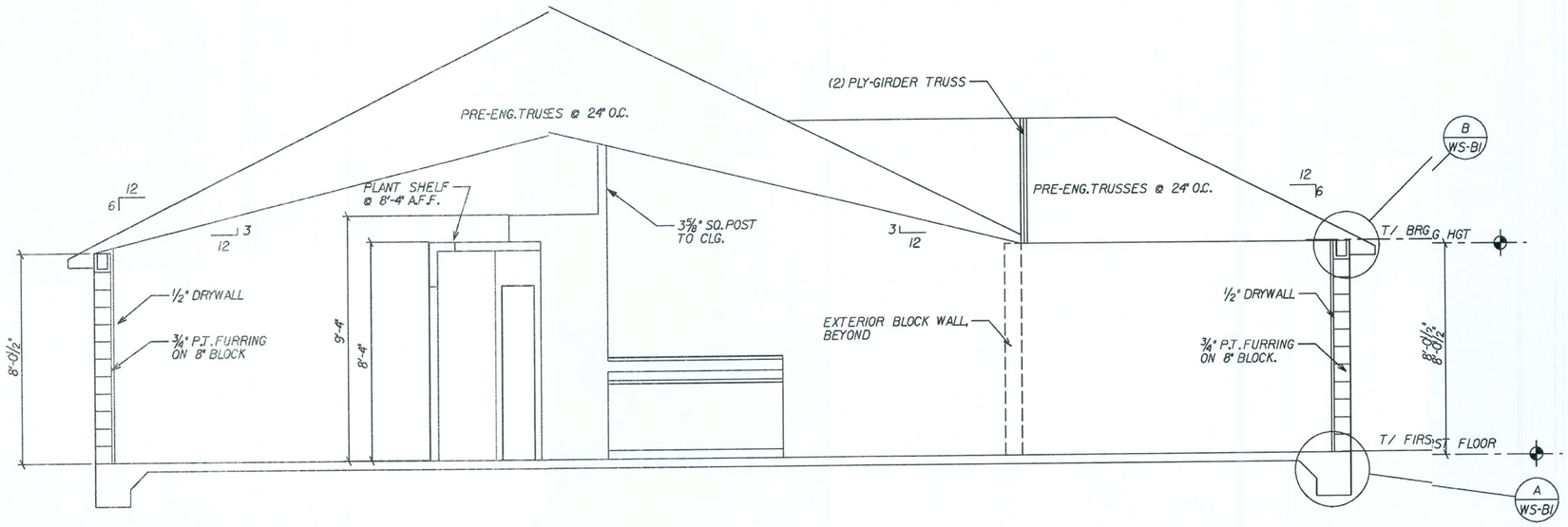
SHEET:
3A

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2006 SUPPLEMENT

AMERICANA | BLD. CROSS SECTION

AUSTIN 3

ALL ELEVATIONS

DRAWN BY:

GARAGE: RIGHT

RELEASE DATE: 10-18-04

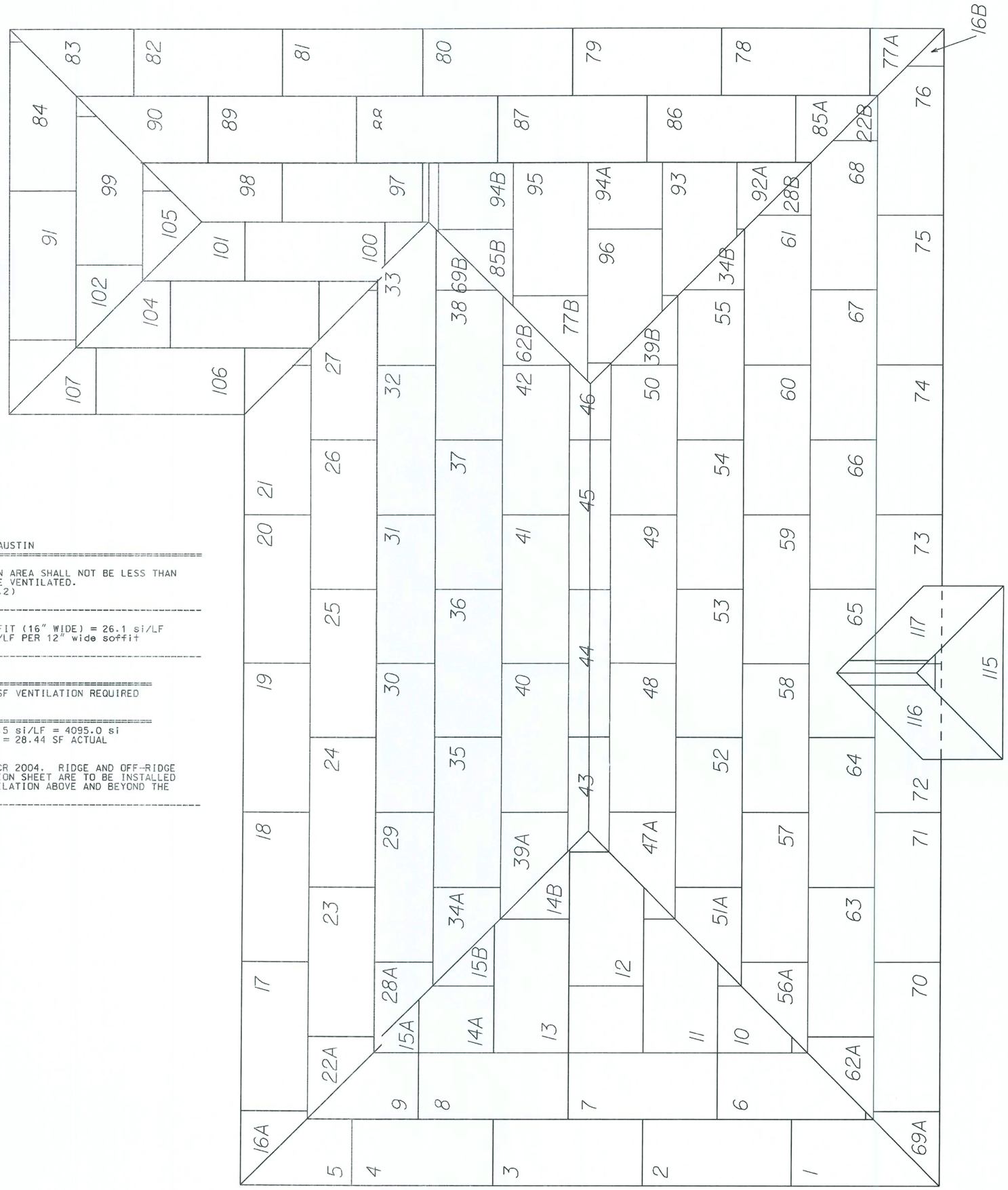
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:
CSU

PLOT DATE: 04 DEC 2007 08:20:43 p:\1\houses_05\austin3\sfd\austin3csu

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



VENTILATION OF ATTIC SPACE: AUSTIN

REQUIREMENTS:
TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF SPACE VENTILATED.
(FBCR 2004, SECTION R806.2)

SOFFIT VENTILATION:
ALSCO - QUAD 4 VENTED SOFFIT (16" WIDE) = 26.1 si/LF
26.1 si / 1.34' = 19.5 si/LF PER 12" wide soffit

CALCULATIONS:
MAIN ROOF
2396 s.f / 150 = 15.97 SF VENTILATION REQUIRED

SOFFIT:
210 L.F. SOFFIT VENT @ 19.5 si/LF = 4095.0 si
4095.0 si / 144 si PER SF = 28.44 SF ACTUAL

NOTE:
SOFFIT ALONE SATISFIES FBCR 2004. RIDGE AND OFF-RIDGE VENTS SHOWN ON THE ELEVATION SHEET ARE TO BE INSTALLED AND ACT AS INCREASED VENTILATION ABOVE AND BEYOND THE CODE REQUIREMENTS.

GENERAL ROOF NOTES:
7/16" OSB SHT'G w/ 8d RING/SCREW SHANK NAIL (AS PER R803.2.3.1) 4" O.C. EDGE & 6" O.C. FIELD, (3" O.C. @ GABLE END TRUSS) w/ CLIPS ON PRE-ENGINEERED TRUSSES @ 24" O.C.

TOTAL ROOF SHEATHING:
107

REVISED 05-07-07

REVISIONS :
06-16-06 REVISED VENT. CALCS.

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
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AMERICANA | OSB LAYOUT

AUSTIN 3

ELEVATION "C"

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 10 - 18 - 04

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08:20:43

SHEET:
RS/C

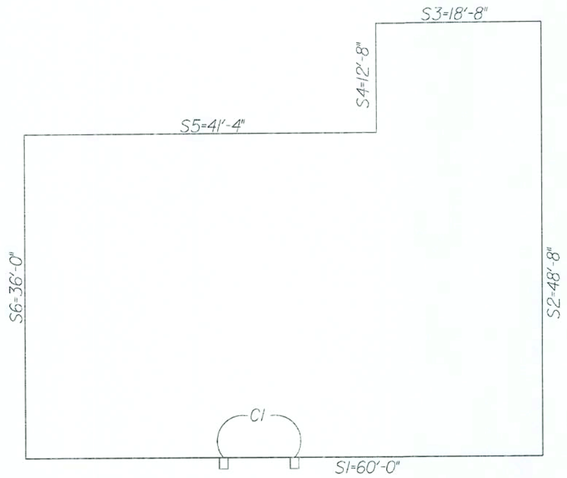
PLOT DATE: 04 DEC 2007

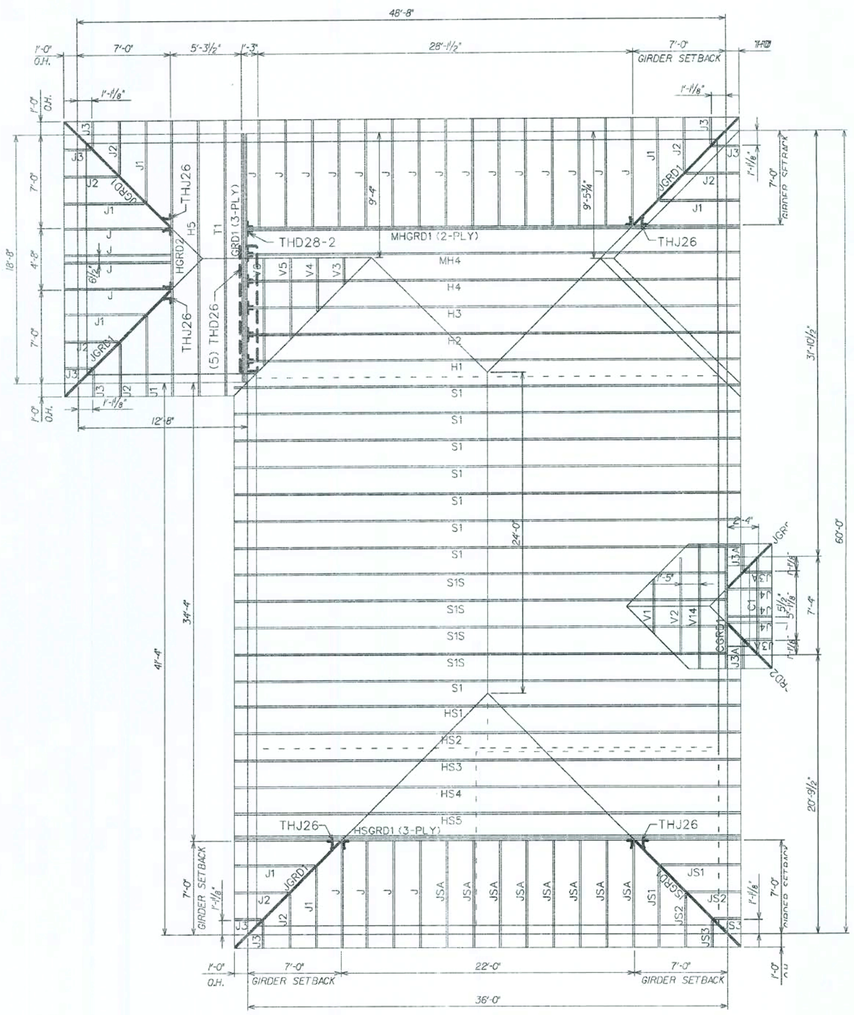
FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 125 mph WINDLOAD, ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-02
2. ROOF TRUSS LOADING:
   - 16 psf TOP CHORD LL
   - 7 psf TOP CHORD DL
   - 10 psf BOTTOM CHORD LL
   - 10 psf BOTTOM CHORD DL
   - 43 psf TOTAL LOAD
3. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING & BCSI.1-03

REVISED 1/18/08





STRUCTURAL WALL SCHEDULE

WALL ID	STUD		OVERTURN ANCHOR - APPLIED AT CORNERS & BOTH SIDES OF OPENINGS			WALL TO SLAB		TOP OF STUD TO PLATE		SHEARWALL SHEATHING	
	SIZE & GRADE	SPACING	PRODUCT CODE	BOLT TO SLAB SIZE	SPECIAL NOTES	PRODUCT CODE	SPACING	PRODUCT CODE	SPACING	TYPE	NAIL SIZE &SPACING
S1-S6	8" CMU	-	-	-	-	-	-	-	-	-	-
C1	8" CMU	-	-	-	-	-	-	-	-	-	-

TPI-02 TRUSS HARDWARE SCHEDULE 160%

NEW TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LEFT	UPLIFT MID	UPLIFT RIGHT	LEFT STRAP TYPE	LEFT STRAP MAX. UPLIFT	FASTENERS	MID STRAP TYPE	MID STRAP MAX. UPLIFT	FASTENERS	RIGHT STRAP TYPE	RIGHT STRAP MAX. UPLIFT	FASTENERS
S1	SCISSOR	8	368	—	368	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
S1S	SCISSOR	4	286	—	368	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
H1	HIP	1	379	—	284	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
H2	HIP	1	350	—	271	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
H3	HIP	1	334	—	255	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
H4	HIP	1	316	—	238	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
MH4	HIP	1	296	—	370	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
MHGRD1	2-PLY GRDR	1	1885	—	1881	(2)TA18	2410	(8)10d X 1½	—	—	—	THD28-2	2485	HEADER (28) 16d TRUSS (16) 10d X 1½
HS1	HIP SCISSOR	1	362	—	377	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS2	HIP SCISSOR	1	348	—	348	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS3	HIP SCISSOR	1	333	—	333	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS4	HIP SCISSOR	1	315	—	315	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS5	HIP SCISSOR	1	295	—	295	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HSGRD1	3-PLY GRDR	1	1691	—	1665	(2)TA18	2410	(8)10d X 1½	—	—	—	(2)TA18	2410	(8)10d X 1½
GRD1	3-PLY GRDR	1	2226	—	3102	(2)TA18	2410	(8)10d X 1½	—	—	—	MUGT15	4165	(24) 16d (1)⅝" ANCHOR BOLT, 3¾" EMBEDDED
T1	HIP SCISSOR	1	228	—	228	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
H5	HIP SCISSOR	1	228	—	228	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HGRD2	HIP SCISSOR	1	884	—	882	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
JGRD1	KING JACK	4	247	—	307	TA 18	1205	(8)10d X 1½	—	—	—	THJ26[2]	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½
JSGRD1	KING JACK	1	260	—	305	TA 18	1205	(8)10d X 1½	—	—	—	THJ26[2]	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½
J	JACK	23	120	—	34	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
JSA	JACK	8	122	—	191	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J1	JACK	8	114	—	91	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J2	JACK	8	113		37	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		3 / 2
J3	JACK	8	116		11	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		3 / 2
JS1	JACK	2	111	—	93	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
JS2	JACK	2	110		40	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
JS3	JACK	2	108		11	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
CGRD1	STRUC. SCIS.GBL.	1	364	—	159	(2)TA18	2410	(8)10d X 1½	—	—	—	(2)TA18	2410	(8)10d X 1½
JGRD2	KING JACK	2	160		31	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J3A	JACK	4	123		20	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J4	JACK	3	131		23	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
C1	BEAM	1	641		713	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
V	VALLEY SET			LTW12 @ 48" o.c.			670	(12) 10d						

ALL HARDWARE MANUFACTURED BY USP XXXX

ALL HARDWARE MANUFACTURED BY SIMPSON XXXX[1]

ALL HARDWARE MANUFACTURED BY CLEVELAND XXXX[2]

REVISIONS:
- 08-21-06 REV. TRUSS 10#'S & UPLIFTS
- 10-19-06 REV. HARDWARE SCHEDULE
- 08-14-07 REV. CODE INFORMATION

Maronda Homes

4005 MARONDA WAY SANFORD, FLORIDA (407) 321-0064

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. CHARACTER BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

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AMERICANA — INFO SHEET

AUSTIN 3

ELEVATION "C"

GARAGE: RIGHT

125 MPH

DRAWN BY: 01-03-05

RELEASE DATE:

165J1s4

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET: TR/C

PLOT DATE: 21 FEB 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

elecitem REPORT

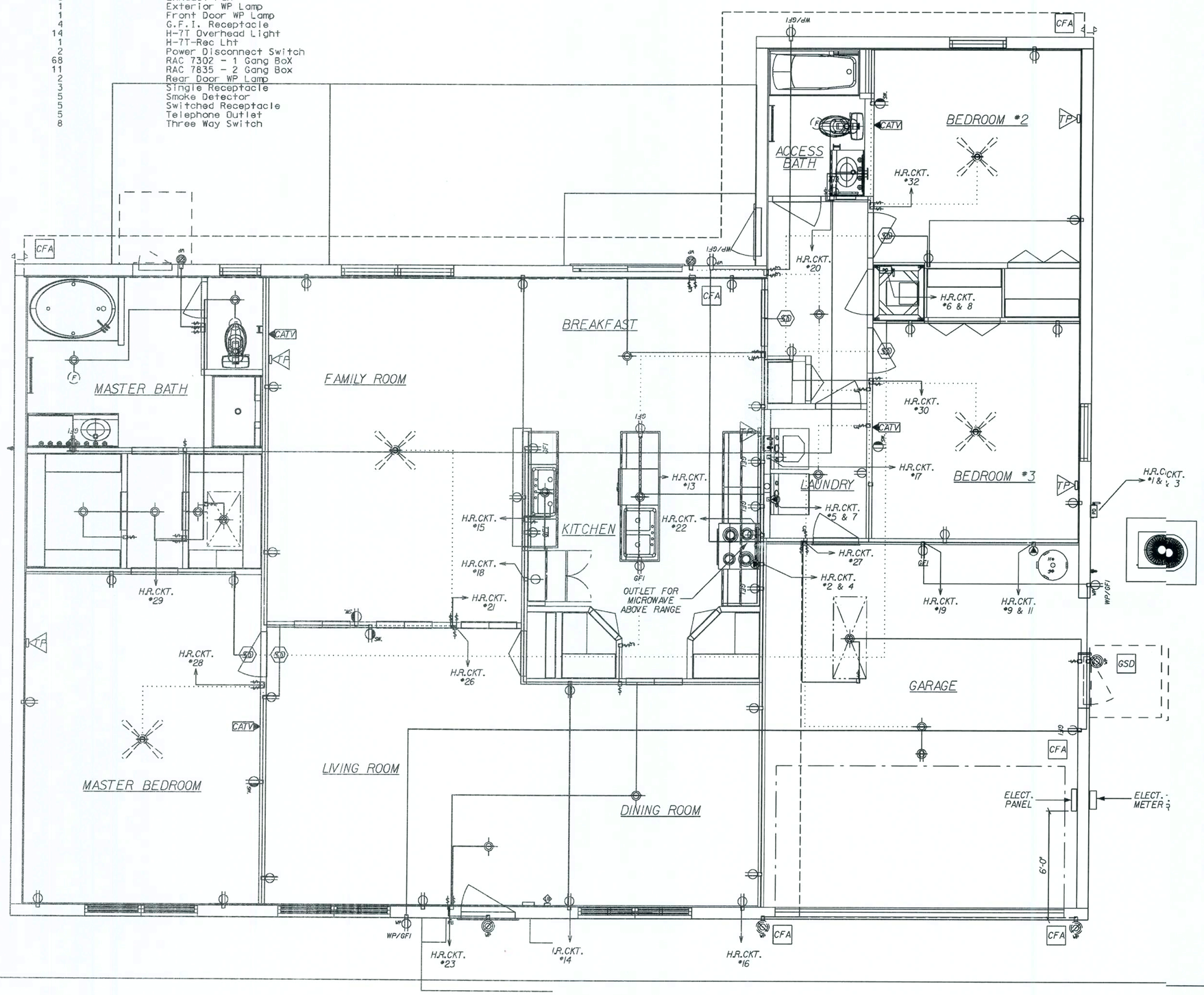
Thu Dec 23 14:55:54 2004
p:*fl*houses 05*austin3*electrical*aus3.ele

QUANTITY	DESCRIPTION
28	1451 Single Pole Switch
1	150 Amp Panel
3	220 V. Special Receptacle
1	ANC U200 - Underground Meter Socket
2	CLN B344A - 3 Gang Box
17	CLN B620H - Octagon Hanger
4	Ceiling Fan (By Others)
1	Deluxe Broadway 2' P3298-10
1	Deluxe Broadway 4' P3300-15
1	Door Bell Buzzer
1	Door Bell Chime
1	Door Bell Transformer
40	Duplex Receptacle
3	Exhaust Fan
1	Exterior WP Lamp
1	Front Door WP Lamp
4	G.F.I. Receptacle
14	H-7T Overhead Light
1	H-7T-Rec Lht
2	Power Disconnect Switch
68	RAC 7302 - 1 Gang BoX
11	RAC 7835 - 2 Gang Box
2	Rear Door WP Lamp
3	Single Receptacle
5	Smoke Detector
5	Switched Receptacle
5	Telephone Outlet
8	Three Way Switch

elecinth REPORT

Thu Dec 23 14:55:54 201
p:*fl*houses 05*austin3*electrical*aus3.ele

QUANTITY	DESCRIPTION
59'	1 Gauge/3 Cond. Copper
586'	1 Gauge/2 Cond. Copper
1773'	1 Gauge/2 Cond. Copper
372'	1 Gauge/3 Cond. Copper
140'	6 Gauge/3 Cond. Copper



GENERAL ELECTRICAL NOTES:

CIRCUITRY IS DIAGRAMATIC ONLY, FIELD CONDITIONS MAY CHANGE ACTUAL INSTALLATION.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC. SECTION 210.12

SMOKE DETECTORS ARE INSTALLED PER MFG. INSTRUCTIONS AND NFPA 72, ALL DEVICES SHALL BE INTERCONNECTED WITH BATTERY BACK-UP.

FOR INSTALLATION OF GROUND ROD, SEE TYP. CONC. ENCASED ELECTRODE DETAIL SHEET* FTG

REVISED 10-05-06

LIST OF OPTIONS:

CFA	OPTIONAL COACH LIGHTS, (2) FLOOD LIGHTS AT REAR AND GARAGE OUTLET REVISED 11-18-05
GSD	OPTIONAL DOOR LIGHT REVISED 11-18-05

ELECTRICAL SYMBOL LEGEND:

REGULAR TEXT	REVERSE TEXT	DESCRIPTION
PD	PD	Power Disconnect Switch
		Door Bell Chime
PB	PB	Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW.	SW.	Switched Receptacle
		220 V. Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg. Fixture
F	F	Exhaust Fan
CATV	CATV	Cable TV
TP	TP	Telephone Outlet
		Flood Lights
F		Exhaust Fan / Light Combo

REVISIONS :
02-03-06 REVISED MASTER BATH LIGHT
11-27-06 REVISED PANEL BOX TO 150A.
12-13-06 ELIM. SMOKE DETECT. HOME RUN.
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA

ELECTRICAL

AUSTIN 3

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 12/28/04

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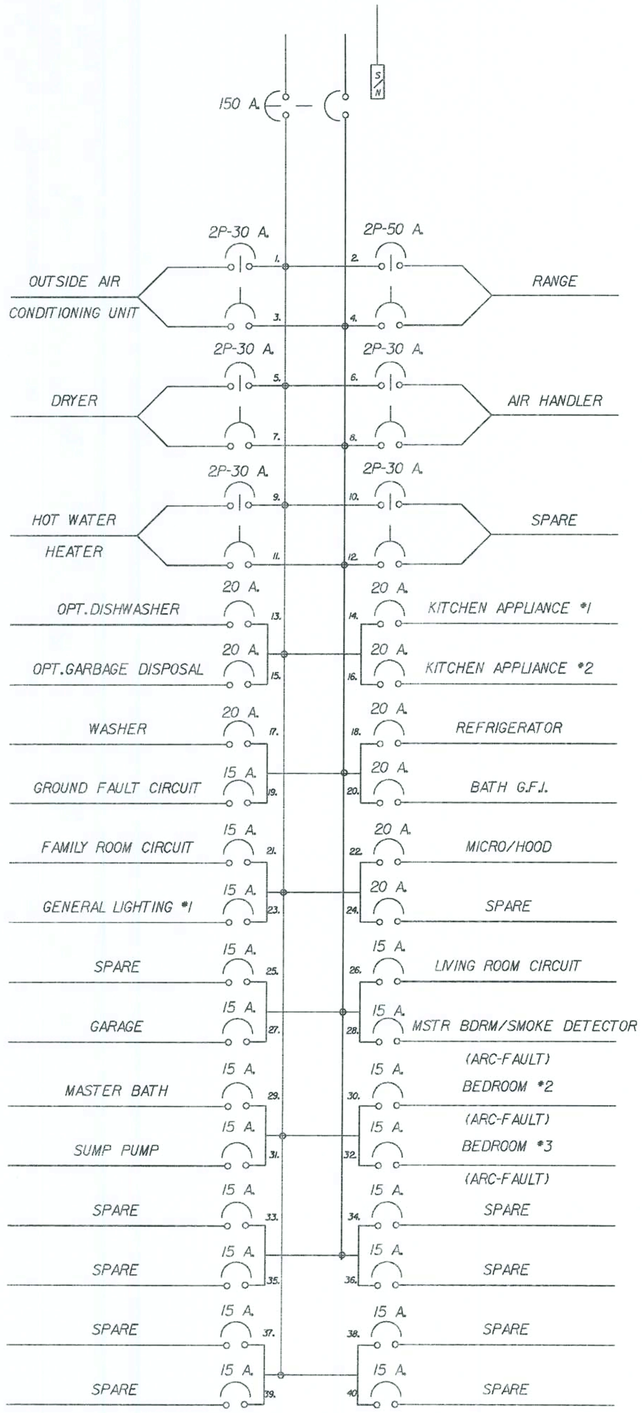
16:13:14

PLOT DATE: 11 MAR 2008

SHEET: E1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



MAIN BREAKER LOAD CENTER

NOTE:
IF LOCAL CODE REQUESTS A LOCK-DOG DEVICE ON BREAKERS FOR APPLIANCES, FIELD WILL SUPPLY TO COMPLY

ELECTRICAL LOAD CALCULATIONS

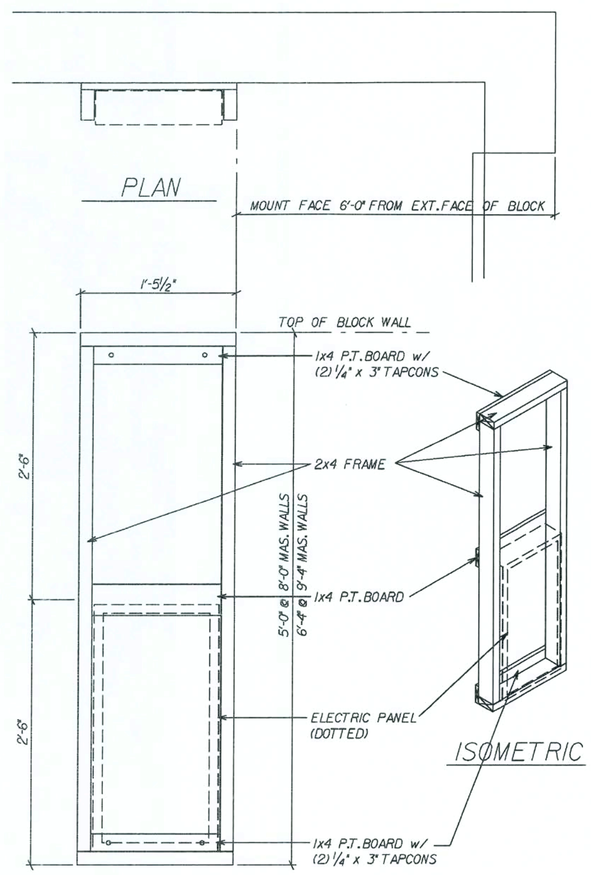
09/21/05

MODEL: AUSTIN 3

		VOLT/AMPS
LARGEST LOAD:HEAT PUMPW/SUPPLEMENTAL HEAT		**13700**
SQUARE FEET LIVING AREA	**2024** @ 3 VOLT/AMPS	6072
SMALL APPLIANCE CIRCUITS		3000
LAUNDRY CIRCUIT		1500
OVEN		11700
WATER HEATER		4500
DISHWASHER		1500
DRYER		5000
DISPOSAL		500
TOTAL LOAD		**33772**

FIRST 10KVA @100%	10000	
REMAINDER @40%	9508.8	
LARGEST LOAD	13700	
TOTAL LOAD	**33209** V.A./240 VOLTS= **138**	AMPS

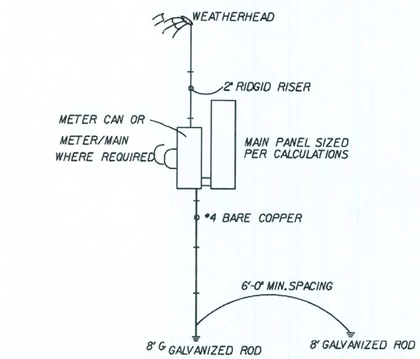
SERVICE SIZE: 150 AMPS



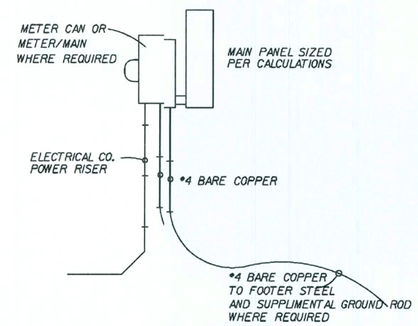
ELECTRIC PANEL FRAME

REVISED 09-07-07
ADDED HGT. @ 9'-4" MAS. WALL

SCALE: 1" = 1'-0"

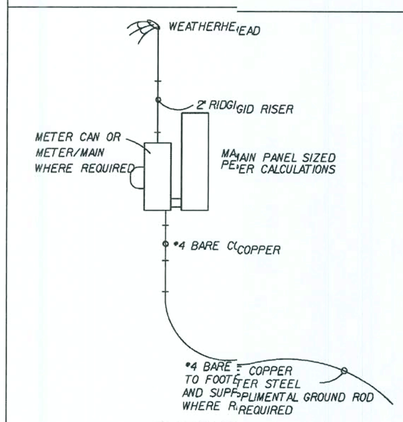


OVERHEAD SERV.

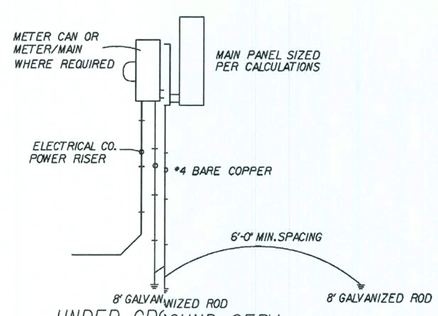


UNDER GROUND SERV.

REVISED 06-06-06
SPACING REQUIREMENT



OVERHEAD SERV.



UNDER GROUND SERV.

* GROUNDING ELECTRODE SYSTEM TO BE INSTALLED PER ARTICLE 250 NAT. ELECT. CODE *

REVISED 06-06-06
SPACING REQUIREMENT

REVISIONS :
05-24-06 ADD NOTE FOR LOCK-DOG
12-13-06 ELIM. SMOKE DETECT. HOME RUN.
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM
03-10-08 REV. DW & GD BKR. TO 20 AMP.- KW

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA ELECTRICAL DETAILS

AUSTIN-3

GARAGE:

DRAWN BY:

RELEASE DATE: 09-11-03

SHEET:
ELIA

PLOT DATE: 11 MAR 2008

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FLORIDA BUILDING CODE 2004 : RESIDENTIAL

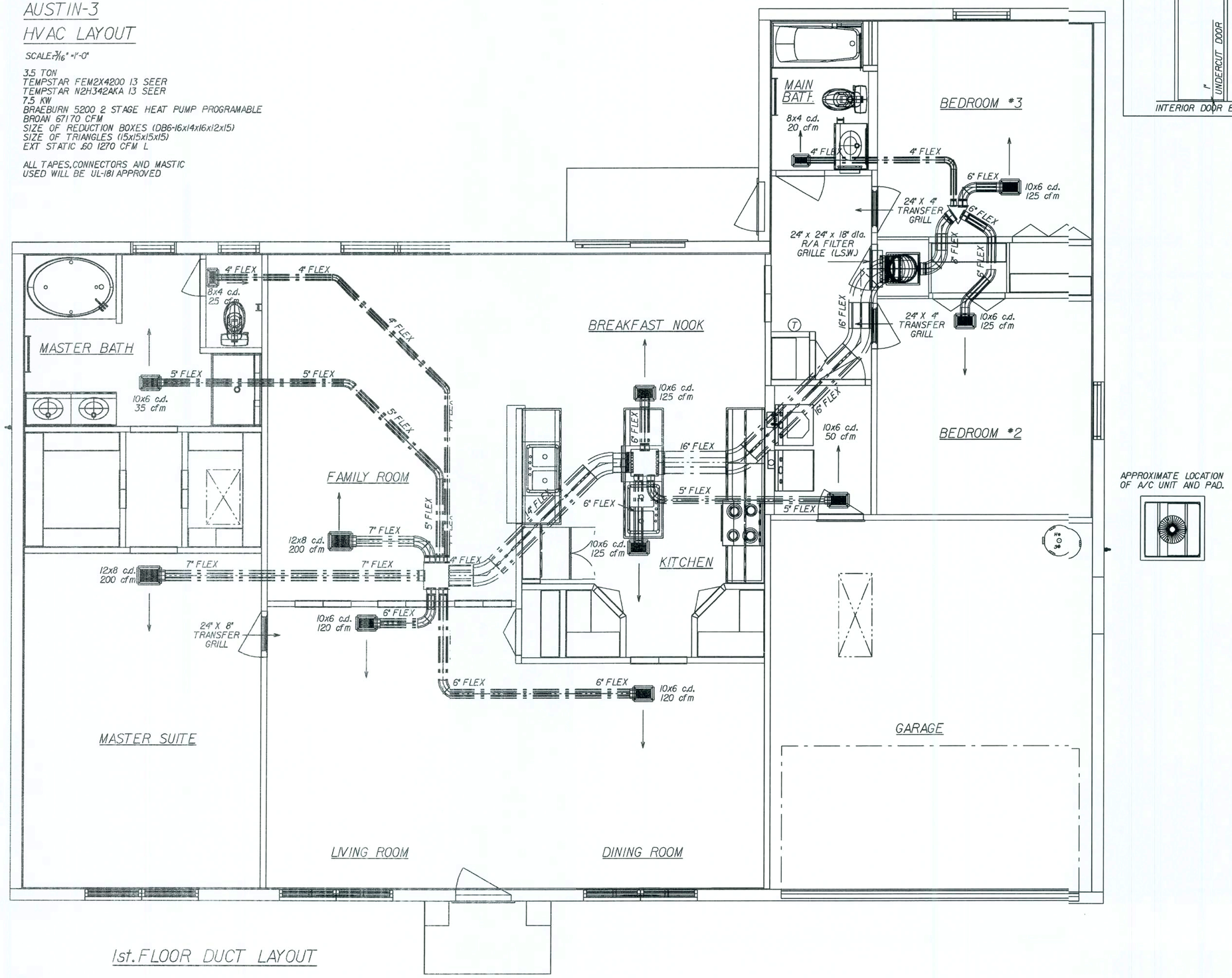
* USE WITH 13 SEER EQUIP. *

AUSTIN-3
HVAC LAYOUT

SCALE: 3/16" = 1'-0"

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 67170 CFM
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT STATIC .60 1270 CFM L

ALL TAPES, CONNECTORS AND MASTIC USED WILL BE UL-181 APPROVED



1st. FLOOR DUCT LAYOUT

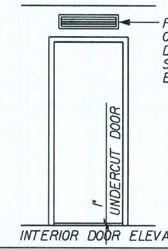
GENERAL MECHANICAL NOTES:

ALL TAPES, CONNECTORS AND MASTIC USED WILL BE UL-181 APPROVED.

SEE ELECTRIC PLANS FOR EXHAUST FAN LOCATIONS IN BATH AREAS.

SEE FLOOR PLAN FOR CLOTHES DRYER VENT LOCATION.

M1602.4 BALANCED RETURN AIR:
TRANSFER GRILLES @ HABITABLE ROOMS SEE DETAIL BELOW:



INTERIOR DOOR ELEVATION

REVISIONS :
11-01-05 REMOVED ENG'S NOTE
10/30/06 13 SEER UPDATE PER DWGS.TJM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

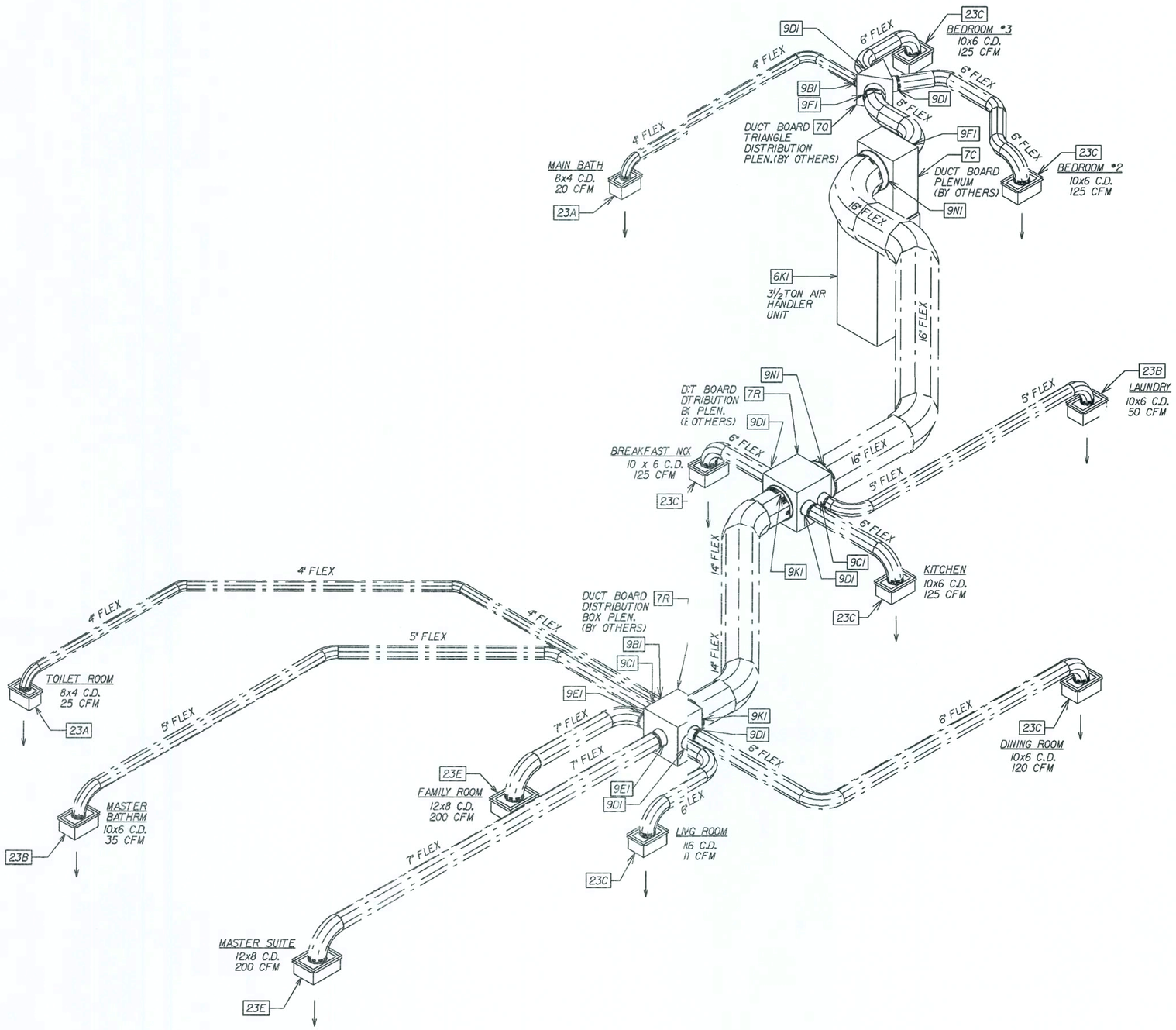
FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

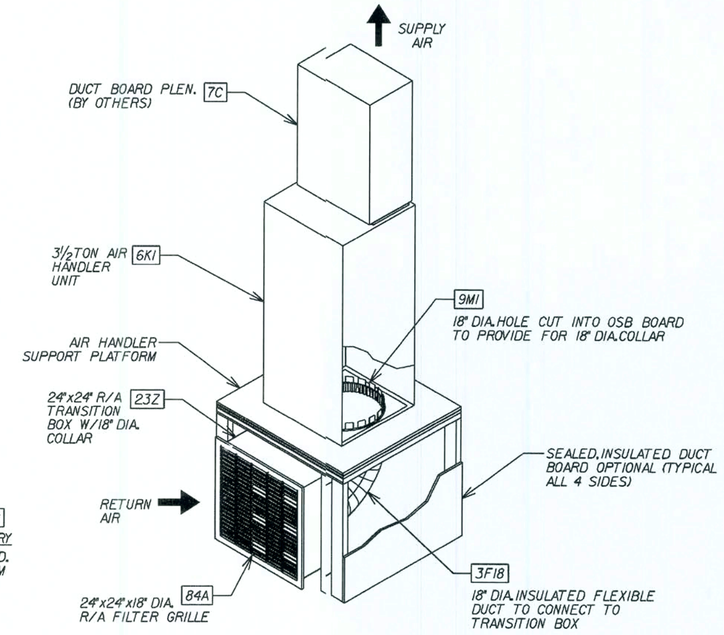
AMERICANA | REGISTER LAYOUT
AUSTIN 3
GARAGE: RIGHT
DRAWN BY:
RELEASE DATE: 10-18-04

SHEET:
HVA

p:\f\houses_05\austin3\hvac\austin3h3.hva
08:23:51
PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL





RETURN-AIR ISOMETRIC

hvacitem REPORT

Fri Nov 17 16:50:00 2006
p:*fl*houses 05*austin3*hvac*austin3h.htg

QUANTITY			DESCRIPTION
2	23A	150045.0035	8x4 CEILING BOOT W/4" DIA. COLLAR
2	23B	150045.0036	10x6 CEILING BOOT W/5" DIA. COLLAR
6	23C	150045.0036	10x6 CEILING BOOT W/6" DIA. COLLAR
2	23E	150045.0038	12x8 CEILING BOOT W/7" DIA. COLLAR
1	23Z	150045.0046	24x24 R/A TRANSITION BOOT W/18" COLLAR
12'	3F14	150040.0099	14" FOIL FLEX R6
16'	3F16	150040.0108	16" FOIL FLEX R6
3'	3F18	150040.0138	18" FOIL FLEX R6
38'	3F4	150040.0091	4" FOIL FLEX R6
35'	3F5	150040.0092	5" FOIL FLEX R6
40'	3F6	150040.0093	6" FOIL FLEX R6
21'	3F7	150040.0094	7" FOIL FLEX R6
4'	3F8	150040.0095	8" FOIL FLEX R6
1	6K1	150005.0044	FEM2X4200A 13 SEER 3.5 TON AIR HANDLER UNIT
1	6Q1	150010.0104	N2H342AKA 13 SEER 3.5 TON CONDENSER
1	7C	150005.0110	19x13x30"H BOX PLENUM
1	7Q	150040.0118	DUCT PLENUM TRIANGLE
2	7R	150040.0111	18" SQUARE DUCT PLENUM
2	81A	150055.0041	24x4 TRANSFER GRILLE
2	81B	150045.0052	24x4 TRANSFER GRILLE FRAME
1	81C	150055.0078	24x8 TRANSFER GRILLE
1	81D	150045.0078	24x8 TRANSFER GRILLE FRAME
1	84A	150055.0032	24x24 RETURN AIR FILTER GRILLE
2	9B1	150040.0075	4" K-COLLAR/ROTH (4KC/413)
2	9C1	150040.0076	5" K-COLLAR/ROTH (5KC/413)
6	9D1	150040.0077	6" K-COLLAR/ROTH (6KC/413)
2	9E1	150040.0078	7" K-COLLAR/ROTH (7KC/413)
2	9F1	150040.0079	8" K-COLLAR/ROTH (8KC/413)
2	9K1	150040.0083	14" K-COLLAR/ROTH (14KC/413)
1	9M1	150040.0137	18" K-COLLAR/ROTH (18KC/413)
2	9N1	150040.0084	16" K-COLLAR/ROTH (16KC/413)

AUSTIN 3 BEDROOM HVAC LAYOUT

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 67170 CFM
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15x15)
EXT STATIC .60 1270 CFM

ALL TAPES,CONNECTORS AND MASTIC USED WILL BE UL-181 APPROVED

* USE WITH 13 SEER EQUIP. *

REVISIONS :
10/30/06 13 SEER UPDATE PER DWGS.TJM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA
HVAC ISO
AUSTIN 3
GARAGE: RIGHT
DRAWN BY:
RELEASE DATE: 10-18-04

SHEET:
ISO-H

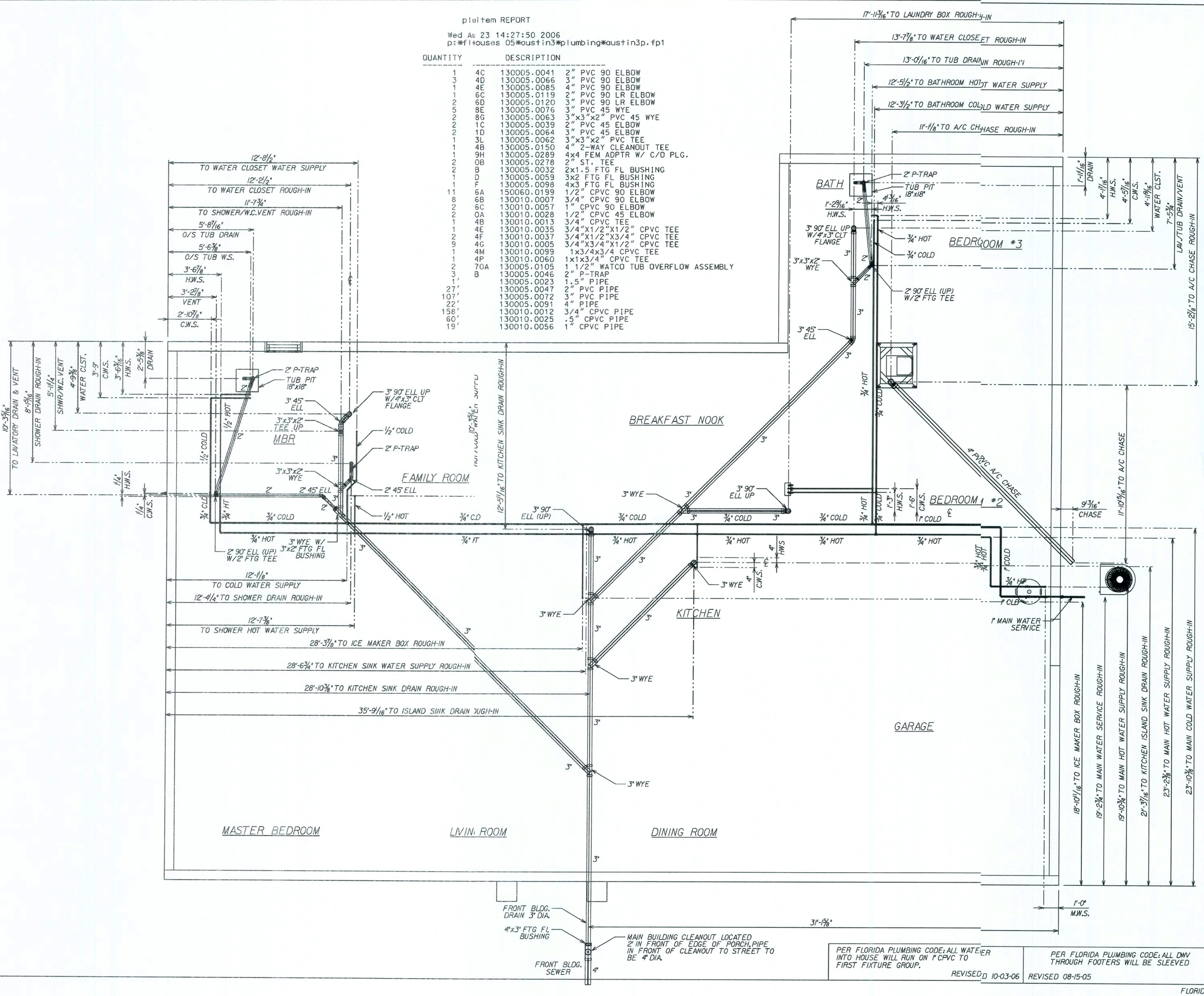
PLOT DATE: 04 DEC 2007
08:23:52
p:\fl\houses_05\austin3\hvac\austin3h3.iso

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

pluitem REPORT

Wed Au 23 14:27:50 2006
p:*flrouses 05*austin3*plumbing*austin3p.fp1

QUANTITY			DESCRIPTION
1	4C	130005.0041	2" PVC 90 ELBOW
3	4D	130005.0066	3" PVC 90 ELBOW
1	4E	130005.0085	4" PVC 90 ELBOW
1	6C	130005.0119	2" PVC 90 LR ELBOW
2	6D	130005.0120	3" PVC 90 LR ELBOW
5	8E	130005.0076	3" PVC 45 WYE
2	8G	130005.0063	3"x3"x2" PVC 45 WYE
2	1C	130005.0039	2" PVC 45 ELBOW
2	1D	130005.0064	3" PVC 45 ELBOW
1	3L	130005.0062	3"x3"x2" PVC TEE
1	4B	130005.0150	4" 2-WAY CLEANOUT TEE
1	9H	130005.0289	4x4 FEM ADPTR W/ C/O PLG.
2	OB	130005.0278	2" ST. TEE
2	B	130005.0032	2x1.5 FTG FL BUSHING
1	D	130005.0059	3x2 FTG FL BUSHING
1	F	130005.0098	4x3 FTG FL BUSHING
11	6A	150060.0199	1/2" CPVC 90 ELBOW
8	6B	130010.0007	3/4" CPVC 90 ELBOW
2	6C	130010.0057	1" CPVC 90 ELBOW
2	OA	130010.0028	1/2" CPVC 45 ELBOW
1	4B	130010.0013	3/4" CPVC TEE
1	4E	130010.0035	3/4"x1/2"x1/2" CPVC TEE
2	4F	130010.0037	3/4"x1/2"x3/4" CPVC TEE
9	4G	130010.0005	3/4"x3/4"x1/2" CPVC TEE
1	4M	130010.0099	1x3/4x3/4 CPVC TEE
1	4P	130010.0060	1x1x3/4" CPVC TEE
2	70A	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
3	B	130005.0046	2" P-TRAP
1'		130005.0023	1.5" PIPE
27'		130005.0047	2" PVC PIPE
107'		130005.0072	3" PVC PIPE
22'		130005.0091	4" PIPE
158'		130010.0012	3/4" CPVC PIPE
60'		130010.0025	.5" CPVC PIPE
19'		130010.0056	1" CPVC PIPE



PER FLORIDA PLUMBING CODE: ALL WATER INTO HOUSE WILL RUN ON 1" CPVC TO FIRST FIXTURE GROUP.

REVISED 10-03-06

PER FLORIDA PLUMBING CODE: ALL DWV THROUGH FOOTERS WILL BE SLEEVED

REVISED 08-15-05

REVISIONS :

5/12/06 REVISED CALL-OUT NOTES TJM
06/13/06 REVISED UG PLBG FITTINGS TJM
08/03/06 REV.CLEANOUT & BOM LIST TJM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
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AMERICANA UNDERGROUND PLBG.

AUSTIN - 3

3 BEDROOM

GARAGE: RIGHT

DRAWN BY: TOM MARTINEZ

RELEASE DATE: 10-18-04

SHEET: FP1

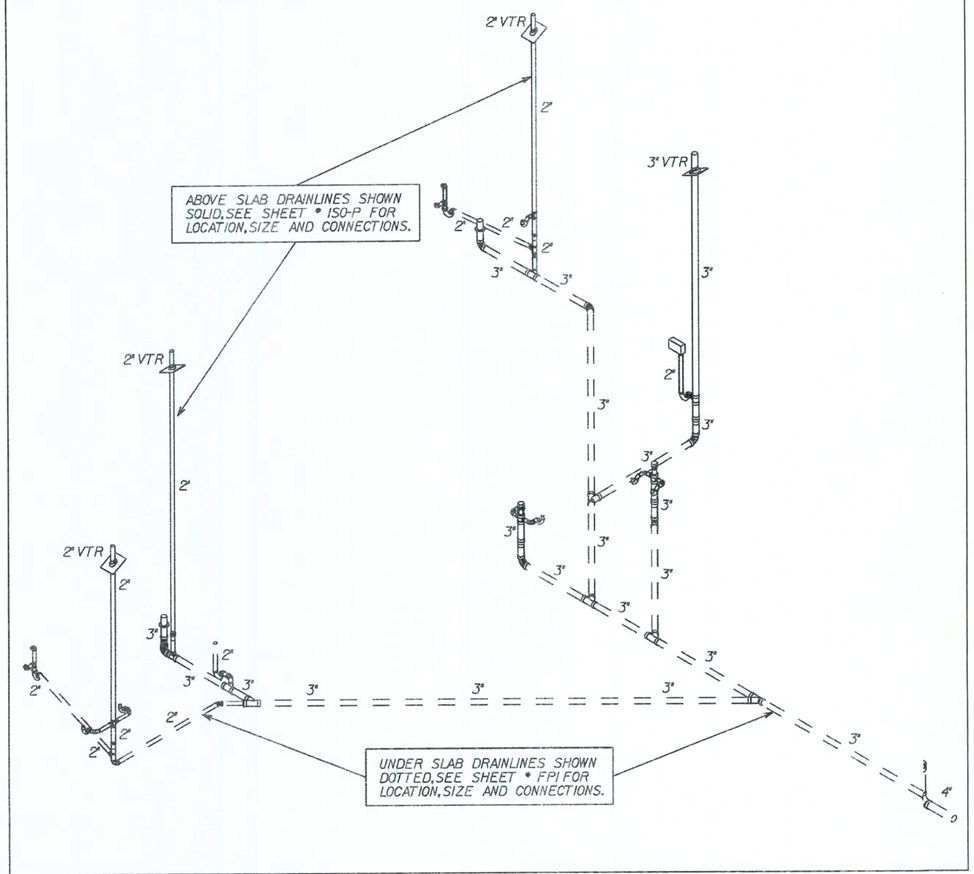
PLOT DATE: 04 DEC 2007

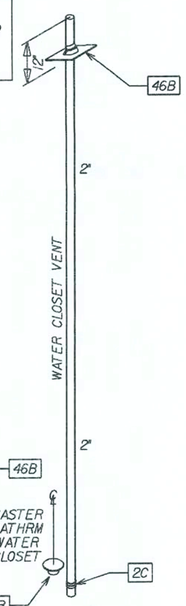
08:25:33

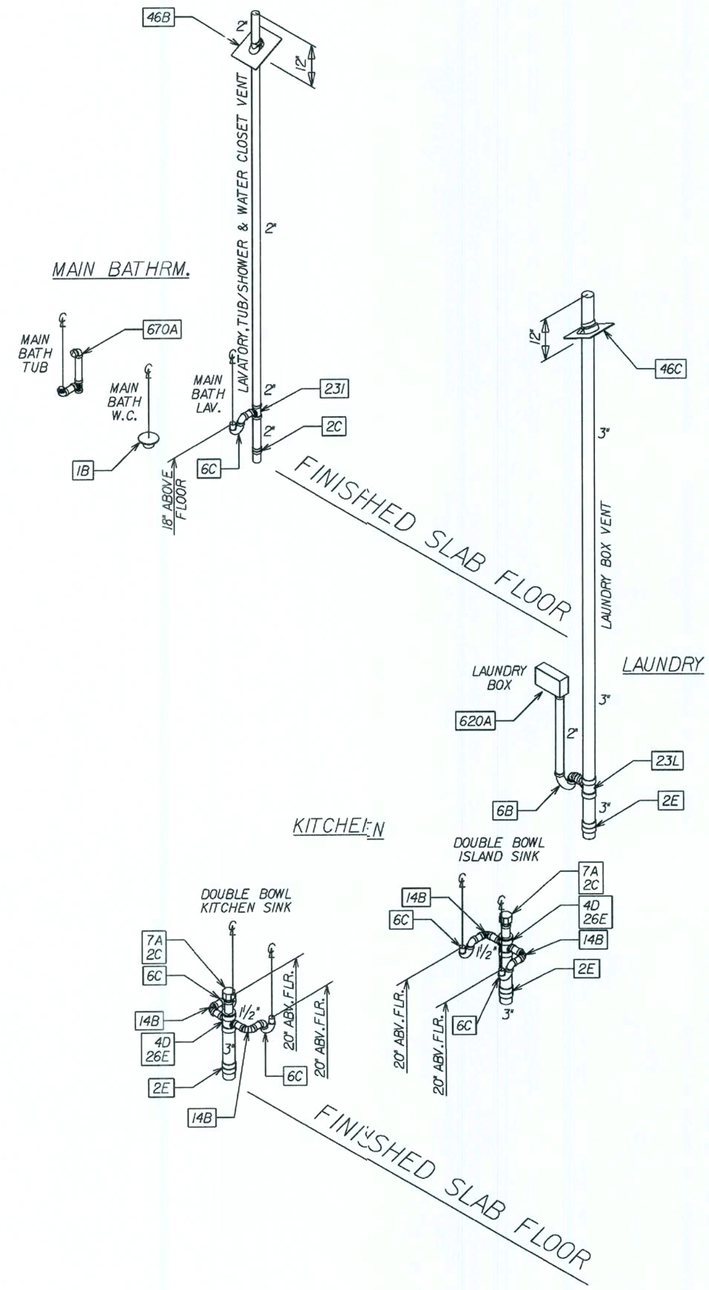
p:\flrouses_05\austin3\plumbing\austin3p.fp1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

COMPLETE SANITARY PLUMBING DIAGRAM:







plumitem REPORT

Wed Aug 23 15:29:23 2006
p:*fl*houses 05*austin3*plumbing*austin3p.plm

QUANTITY			DESCRIPTION
4	14B	130005.0013	1.5" PVC 90 ELBOW
2	16B	130005.0187	1.5" PVC 90 LR ELBOW
2	1B	130005.0099	4"X3" CLOSET FLANGE
1	23I	130005.0034	2"x2"x1.5" PVC TEE
1	23L	130005.0062	3"x3"x2" PVC TEE
1	26C	130005.0133	2"x2"x1.5"x1.5" DOUBLE TEE
2	26E	130005.0132	3"x3"x1.5"x1.5" DOUBLE TEE
5	2C	130005.0043	2" PVC COUPLING
3	2E	130005.0068	3" PVC COUPLING
3	46B	130050.0125	2" NEOPRENE ROOF FLASHING
1	46C	130050.0028	3" NEOPRENE ROOF FLASHING
2	4D	130005.0059	3x2 FTG FL BUSHING
1	620A	130035.0027	Laundry Box Left
2	670A	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
1	6B	130005.0046	2" P-TRAP
7	6C	130005.0107	1.5"x1.25" P-TRAP W/UNION JT
2	7A	130005.0160	1.25-2" STUDOR MINI-VENT

Pluminth REPORT

Wed Aug 23 15:29:23 2006
p:*fl*houses 05*austin3*plumbing*austin3p.plm

QUANTITY		DESCRIPTION
5'	130005.0023	1.5" PIPE
45'	130005.0047	2" PVC PIPE
19'	130005.0072	3" PVC PIPE

REVISIONS :
08/23/06 REVD.KITCHEN SINK ASSEM.-TJM

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(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

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AMERICANA | D.W.V. PLUMBING ISO

AUSTIN - 3

3 BEDROOM

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

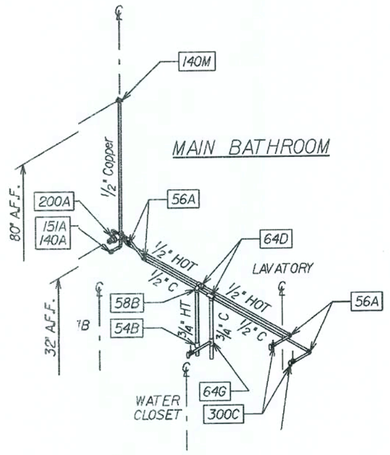
p:\fl\houses_05\austin3\plumbing\austin3p.lso

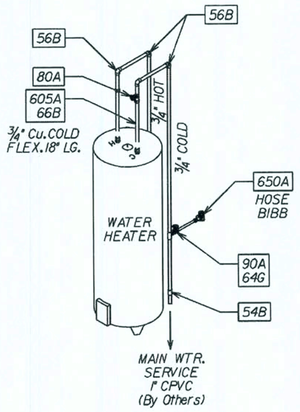
08:25:34

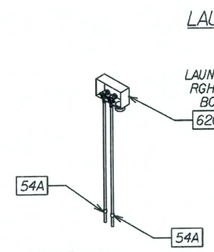
PLOT DATE: 04 DEC 2007

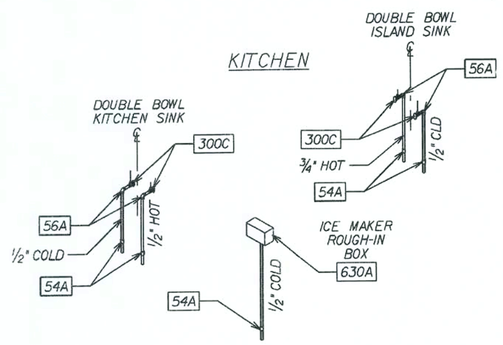
SHEET:
ISO-P

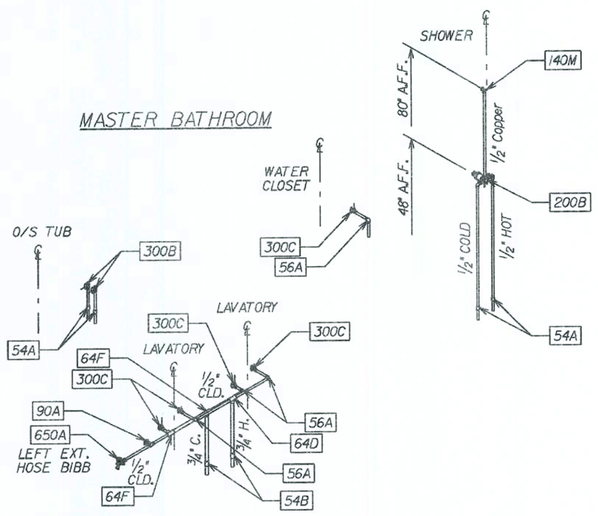
FLORIDA BUILDING CODE 2004 : RESIDENTIAL











plumitem REPORT

Tue Aug 10 13:17:10 2004
p:*fl*houses 05*austin3*plumbing*austin3p.plm

QUANTITY	DESCRIPTION
1	140A 90 ELL Cu 1/2"
2	140M 90 ELL Cu 1/2 Drop
1	151A Adapter Male Cu 1/2"
1	200A Tub Diverter
1	200B Shower Diverter
2	300B Straight Valve 1/2" x 3/8"
12	300C Angle Valve 1/2" x 3/8"
11	54A CPVC COUPLING .5
5	54B CPVC COUPLING .75
12	56A CPVC EL90 .5
4	56B CPVC EL90 .75
4	58A CPVC EL90 STREET .5
1	58B CPVC EL90 STREET .75
2	605A Corr Gas App Conn
1	620A Laundry Box Left
1	630A Ice Maker Box
1	640B Water Heater - OH
3	64D CPVC TEE .5x.5x.75
2	64F CPVC TEE .75x.5x.75
2	64G CPVC TEE .75x.75x.5
2	650A Hose Bib
2	66B CPVC MALE ADAPTER BRS THR .75
1	80A CPVC SHUTOFF VALVE .75
2	90A Shut-Off Valve
50'	.5" CPVC PIPE
26'	.75" CPVC PIPE
7'	1/2" Cu Pipe

PER FLORIDA PLUMBING CODE: ALL WATER INTO HOUSE WILL RUN ON 1" CPVC TO FIRST FIXTURE GROUP.
REVISED 10-03-06

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA | WATER LINES ISO.

AUSTIN - 3

3 BEDROOM

GARAGE:

DRAWN BY: TOM MARTINEZ

RELEASE DATE: 10-18-04

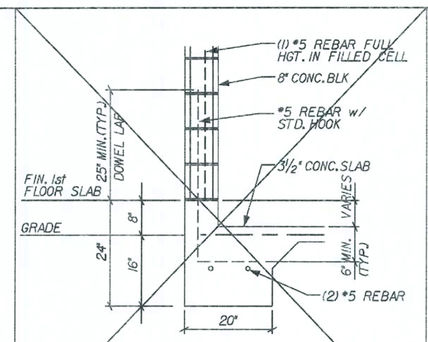
p:\fl\houses_05\austin3\plumbing\austin3w.iso

08:25:35

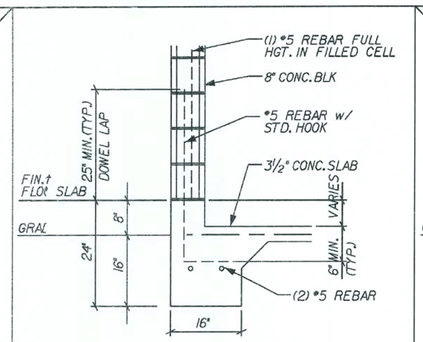
PLOT DATE: 04 DEC 2007

SHEET: ISO-W

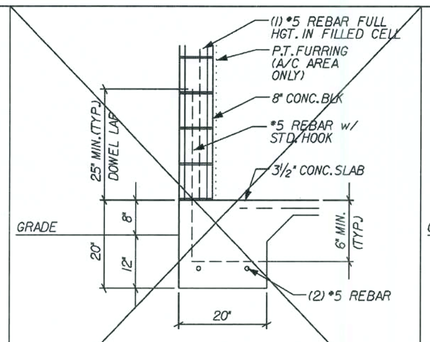
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



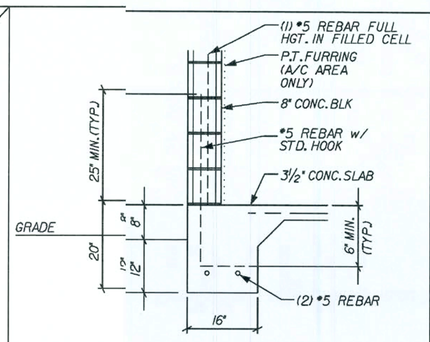
G2 GARAGE 2-STORY
REVISED 11-07-06 DELETED STONE LEDGE — NOT USED — SCALE: ½" = 1'-0"



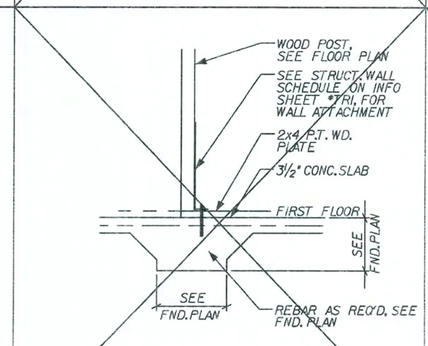
G GARAGE 1-STORY
REVISED 11-07-06 DELETED STONE LEDGE — SCALE: ½" = 1'-0"



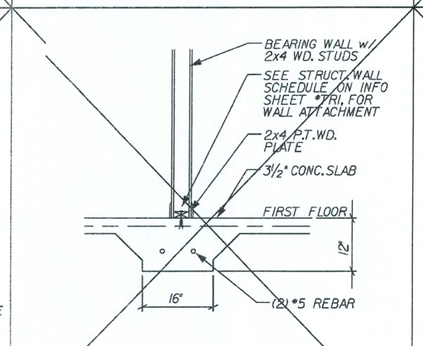
A2 TYPICAL 2-STORY
REVISED 11-07-06 DELETED STONE LEDGE — NOT USED — SCALE: ½" = 1'-0"



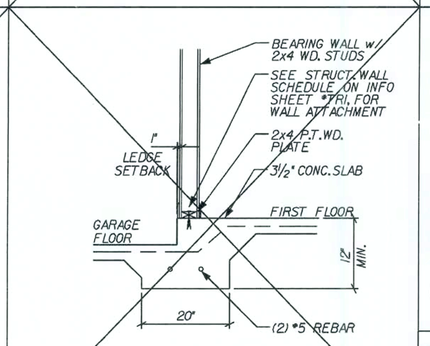
A TYPICAL 1-STORY
REVISED 11-07-06 DELETED STONE LEDGE — SCALE: ½" = 1'-0"



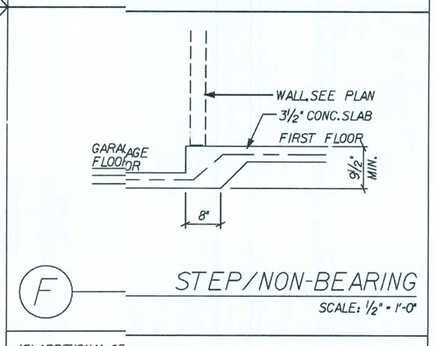
J INTERIOR BEARING POST
NOT USED — SCALE: ½" = 1'-0"



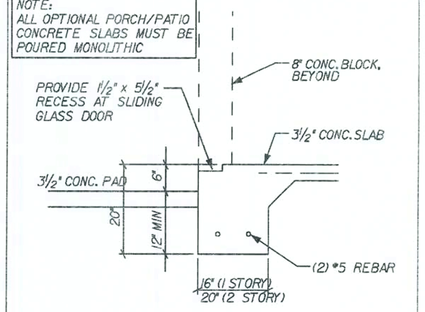
I INTERIOR BEARING
NOT USED — SCALE: ½" = 1'-0"



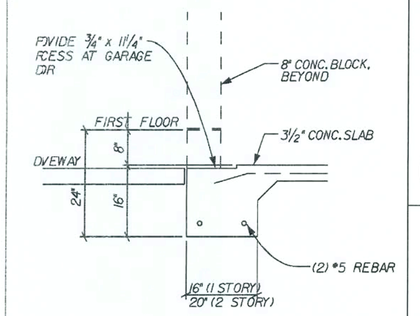
H STEP/BEARING
REVISED 01-31-05 — NOT USED — SCALE: ½" = 1'-0"



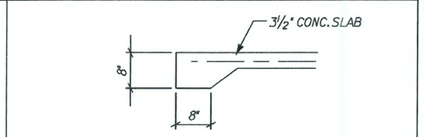
F STEP/NON-BEARING
SCALE: ½" = 1'-0"



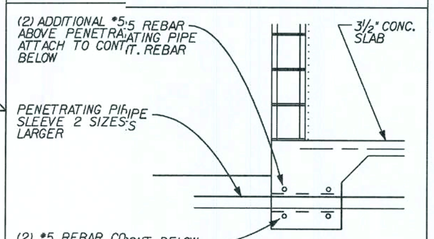
S RECESS @ SLIDER
REVISED 05-06-05 — SCALE: ½" = 1'-0"



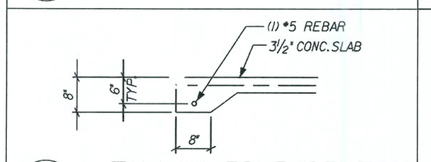
P THICK'N EDGE/GARAGE
REVISED 04-23-06 — SCALE: ½" = 1'-0"



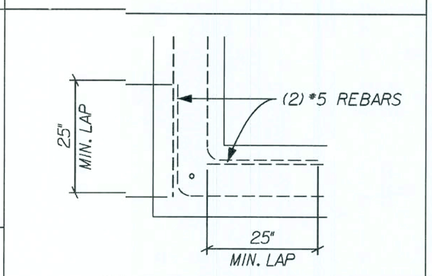
N THICK'N EDGE
SCALE: ½" = 1'-0"



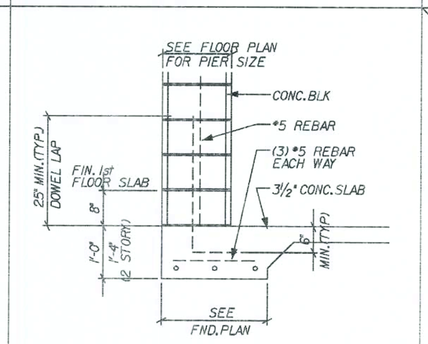
TYYP. PIPE PENETRATION
REVISED 06-01-06 ADDED DETAIL — SCALE: ½" = 1'-0"



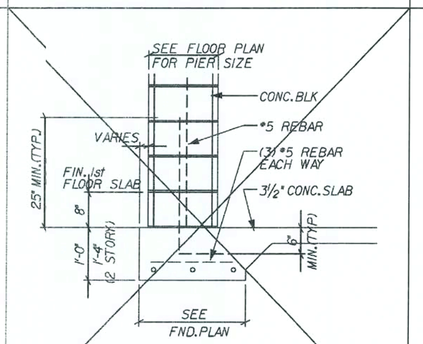
P THICK'N EDGE/BEARING
SCALE: ½" = 1'-0"



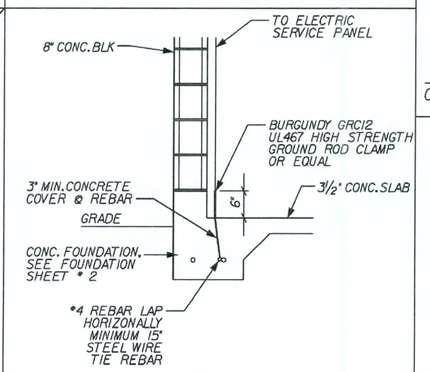
TYYP. FTNG @ CORNERS
04-07-08 ONE CORNER DTL — SCALE: ½" = 1'-0"



U PIER DETAIL #2
REVISED 02-20-07 16" DEEP @ 2 STORY — SCALE: ½" = 1'-0"



T PIER DETAIL #1
REVISED 02-20-07 16" DEEP @ 1 STORY — NOT USED — SCALE: ½" = 1'-0"



TYP. CONC. ENCASED ELECTRODE
SCALE: ½" = 1'-0"

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE RESIDENTIAL AND 2006 SUPPLEMENT

FOOTINGS — STANDARD DETAILS

AUSTIN 3

GARAGE:
DRAWN BY:
RELEASE DATE: 10-18-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

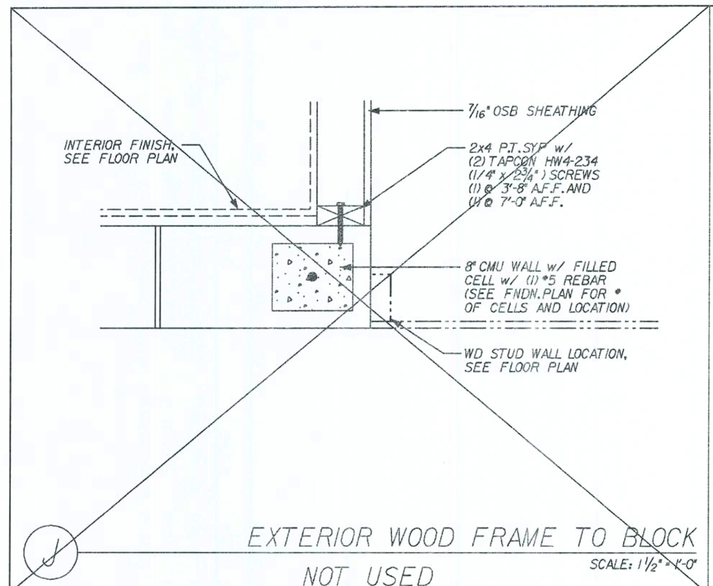
Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:
FTG

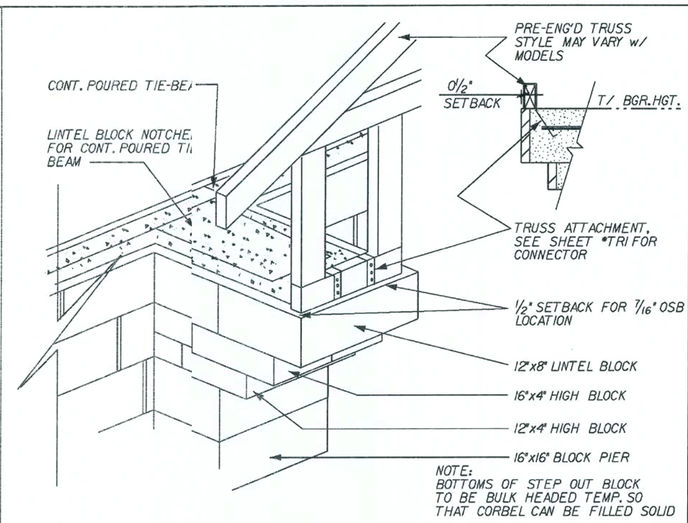
PLOT DATE: 04 DEC 2007 08:25:58

p:\1\houses_05\austin3\details\aus3-std.fig

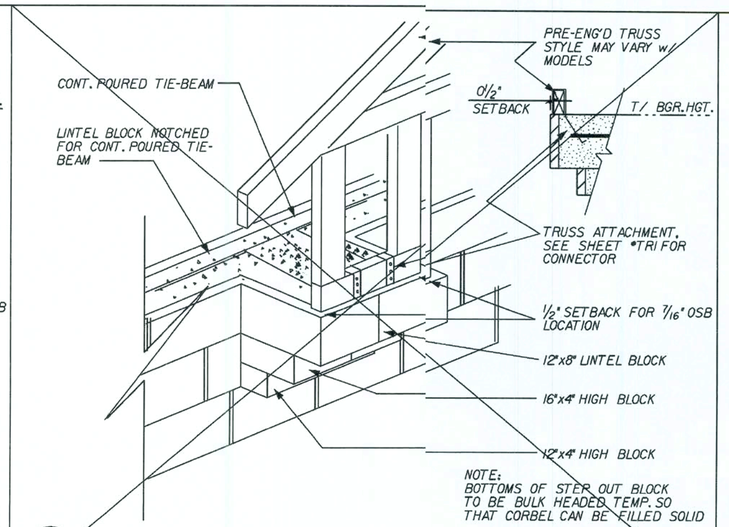
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



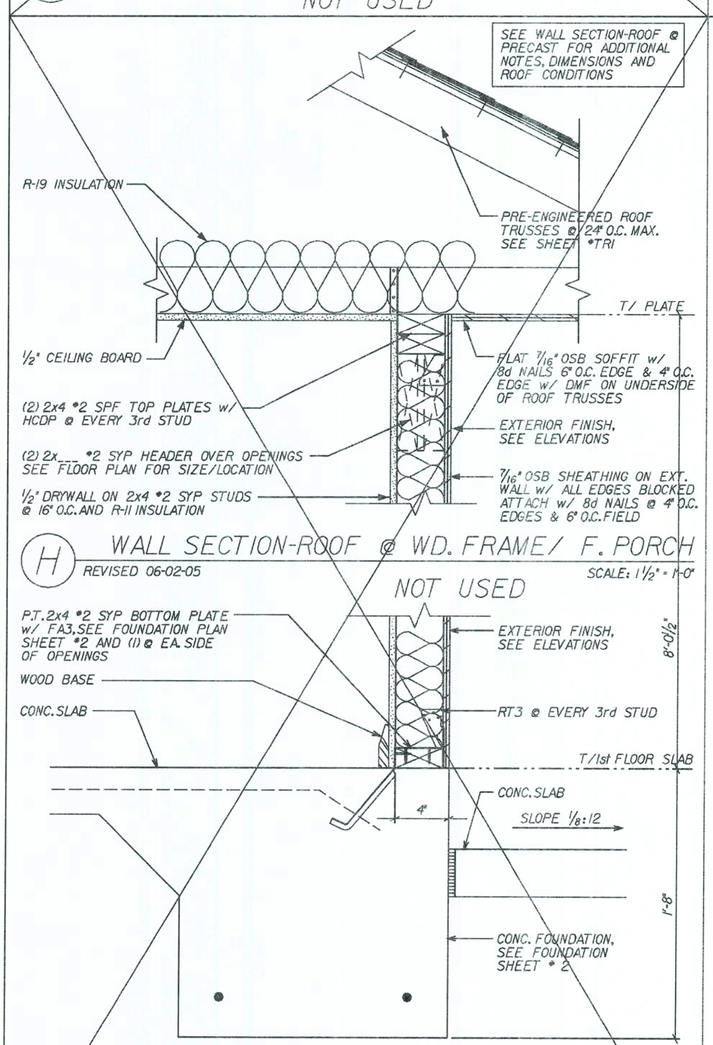
J EXTERIOR WOOD FRAME TO BLOCK
NOT USED
SCALE: 1 1/2" = 1'-0"



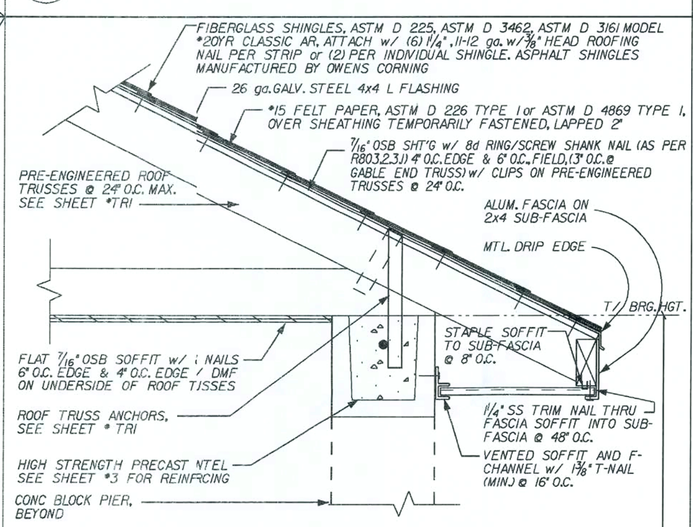
F 16" O.C. BLOCK PIER w/ BLOCK CORBEL ISO
SCALE: N.T.S.



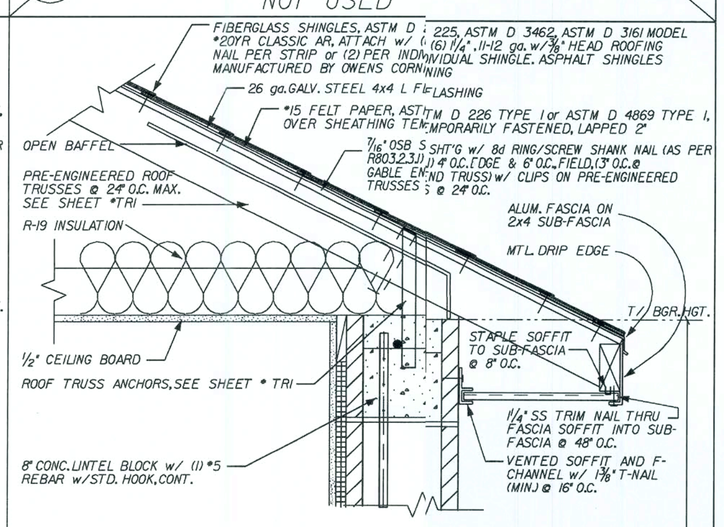
E BLOCK CORBEL ISO
NOT USED
SCALE: N.T.S.



H WALL SECTION-ROOF @ WD. FRAME/ F. PORCH
REVISED 06-02-05
SCALE: 1 1/2" = 1'-0"

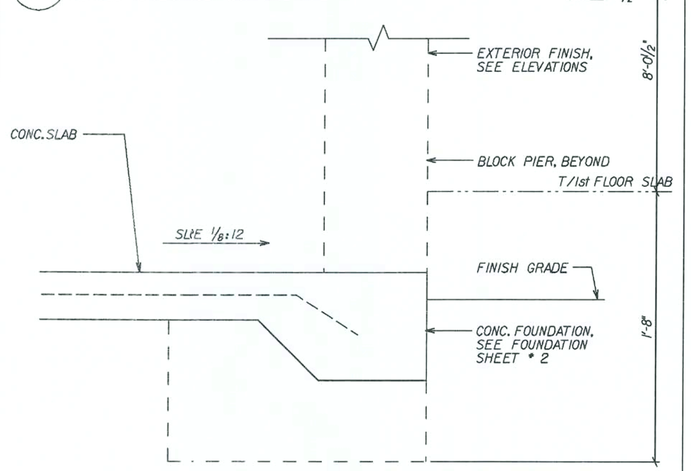


D WALL SECTION-ROOF @ PRECAST/FRONT PORCH
REVISED 05-02-07 OSB ROOF NAIL TYPE
SCALE: 1 1/2" = 1'-0"

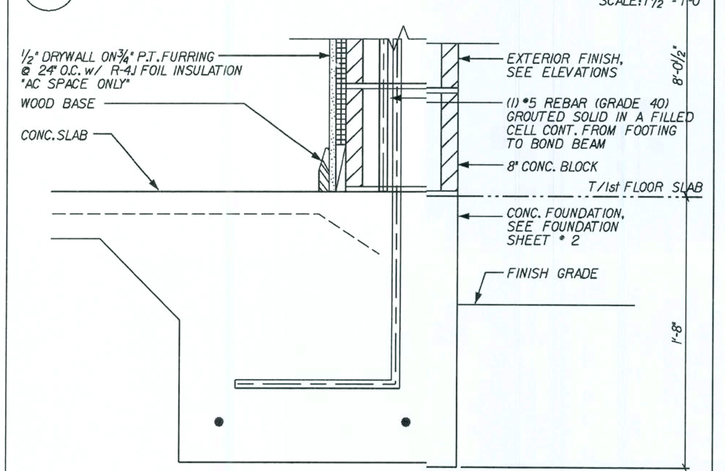


B WALL SECTION-ROOF @ BLOCK
REVISED 05-02-07 - OSB ROOF NAIL TYPE
SCALE: 1 1/2" = 1'-0"

G WALL SECTION-FOUNDATION @ WOOD FRAME
REVISED 10-25-04
NOT USED
SCALE: 1 1/2" = 1'-0"



C WALL SECTION-FOUNDATION @ FRONT PORCH
REVISED 04-22-05
SCALE: 1 1/2" = 1'-0"



A WALL SECTION-FOUNDATION @ BLOCK
REVISED 02-19-07 FOIL INSUL TO R-4J
SCALE: 1 1/2" = 1'-0"

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

ONE STORY | WALL SECTIONS

AUSTIN 3

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

08:25:59

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:
WS-B1

PLOT DATE: 04 DEC 2007

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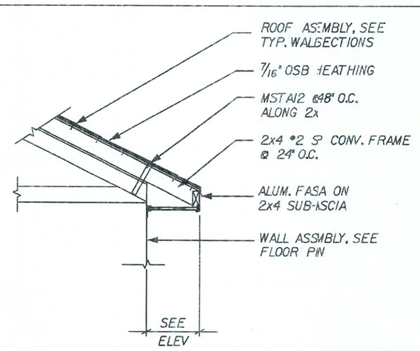
FLORIDA BUILDING CODE 2004 : RESIDENTIAL

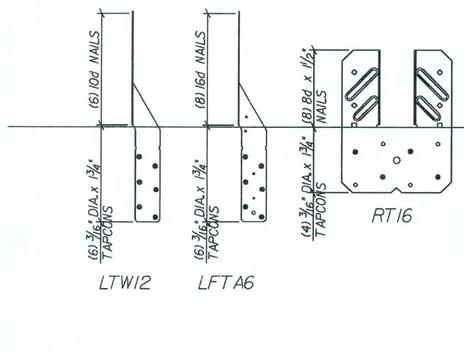
USP HARDWARE - 160% REVISED 05-10-06

PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
HTW24	USP	(20) 10d	1325
HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" " EMBED. -ALL GRDR.-(8) 10d	9790
HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9860
JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
KST227 STRP ANC.	USP	(34) 16d	4750
LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1½"	1250
LSTA36	USP	(22) 10d X 1½"	1640
LTW12	USP	(12) 10d	670
LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3¼" EMBED. (10) 10d X 1½"STRAP	1890
LBP12 BEARING PLT	USP	½" J-BOLT	2515
LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
MSTAI2	USP	(10) 10d	1015
MSTAI8	USP	(14) 10d	1420
MSTA24	USP	(18) 10d	1640
MSTA30	USP	(22) 10d	2065
MTW12	USP	(14) 10d	1030
MTW18	USP	(14) 10d	1030
MTS27B STRP ANC	USP	(24) 16d (1)¾" ANCHOR BOLT 3¼" EMBEDDED	4635
MUGT15	USP	(22) 10d (1)⅝" ANCHOR BOLT 3¾" EMBEDDED	4165
NP37 3⅛X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1½"	
PA 28	USP	(15) 16d	3360
RT-16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
RT-16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1160
RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
SKH 26 L\R	USP	HEADER (6) 16d JACK (6) 10d X 1½"	1085
SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
TAI2 TA 12/METAL	USP	(5) #10 SCREWS (9) #10 SCREWS	825 910
TA 14	USP	(7) 10d x 1½"	920
TA 18	USP	(8) 10d x 1½"	1205
(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
TA 24	USP	(8) 10d x 1½"	1205
(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THJ 26 2	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"	1010
USC63	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	11150
USC3F	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	11150
USC73	USP	TRUSS (8) 16d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	11150
UGTS63	USP	TRUSS (8) 16d (2)¾" ANC. BOLTS 2¾"" EMBEDDED	6170



CONV. FRAMED HIP ROOF

SCALE: ½" = 1'-0"

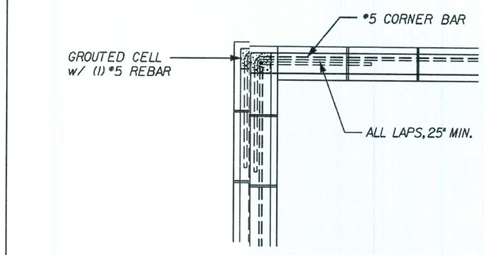


CONNECTOR	MAX. UPLIFT
LTW12	775 LBS
LFTA6	990 LBS
RT16	700 LBS

FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

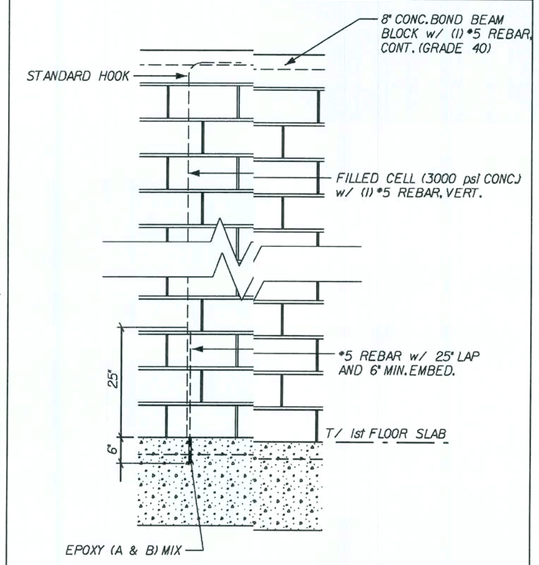
SCALE: N.T.S.



TYPICAL BOND BEAM @ CORNER

REVISED 04-22-05

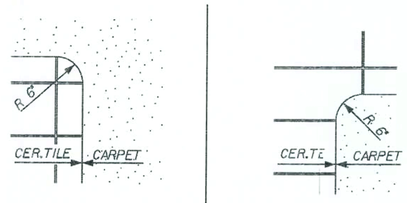
SCALE: ½" = 1'-0"



MISSED DOWN ROD REPAIR

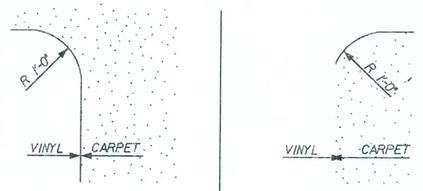
SCALE: ½" = 1'-0"

CERAMIC TILE TO CARPE



OUTSIDE CORNER INSIDE CORNER

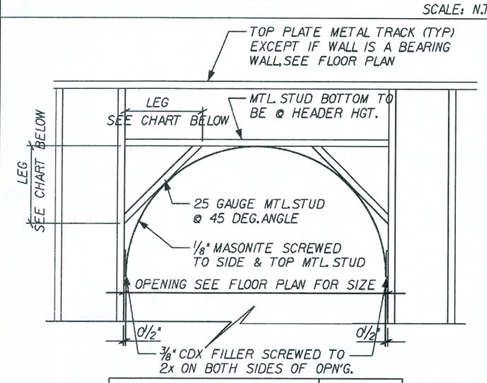
VINYL TO CARPET



OUTSIDE CORNER INSIDE CORNER

FLOOR EDGE CORNER DETAIL

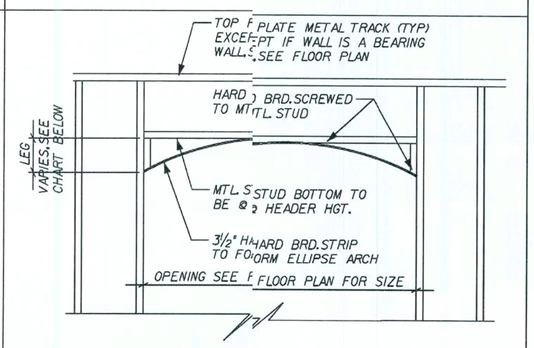
SCALE: ½" = 1'-0"



OPENING	LEG
2'-1" = 2'-0" ARCH OPENING	7½"
2'-7" = 2'-6" ARCH OPENING	8⅞"
2'-9" = 2'-8" ARCH OPENING	9 7/16"
3'-1" = 3'-0" ARCH OPENING	10⅝"
4'-1" = 4'-0" ARCH OPENING	15"
-	-

INTERIOR CURVED ARCH

SCALE: ½" = 1'-0"



OPENING	LEGS
2'-0" - 3'-1"	4"
3'-2" - 4'-0"	5½"
4'-1" - 5'-0"	6½"
5'-1" - 7'-0"	8"
7'-1" - 9'-0"	9½"
9'-1" - 12'-0"	12"

INTERIOR ELLIPSE ARCH

SCALE: ½" = 1'-0"

REVISIONS :

03-22-06 ADDED CONV. ROOF DETAIL

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND 2006 SUPPLEMENT

AMERICANA STANDARD DETAILS

AUSTIN 3

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

08:26:00

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:

SD1

PLOT DATE: 04 DEC 2007

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FLORIDA BUILDING CODE 2004 : RESIDENTIAL

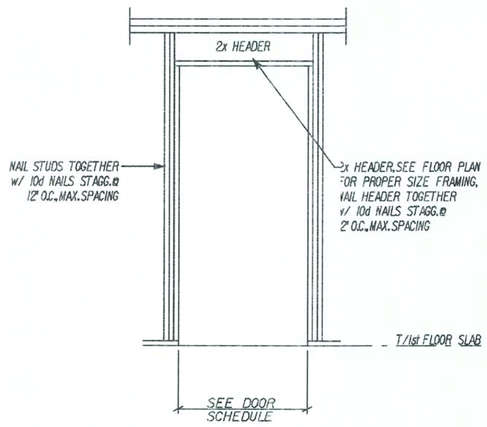
REVISED 02-15-07
83 3/4" -> 82 5/8"

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD I.S.	25 1/2" x 80 5/8"	26" x 80 7/8"	29" x 82 3/8"
2-8 STANDARD I.S.	33 1/2" x 80 5/8"	34" x 80 7/8"	37" x 82 3/8"
2-10 STANDARD I.S.	35 1/2" x 80 5/8"	36" x 80 7/8"	39" x 82 3/8"
3-0 STANDARD I.S.	37 1/2" x 82"	38" x 82 1/4"	41" x 82 3/8"
3-0 w/SIDELIGHT I.S.	51 1/8" x 82"	51 5/8" x 82 1/4"	54 5/8" x 82 3/8"
3-0 w/(2) SIDELIGHT I.S.	64 1/2" x 82"	65" x 82 1/4"	68" x 82 3/8"
5-8 (2)2-10 FRENCH I.S.	70 1/2" x 80 5/8"	71" x 80 7/8"	74" x 82 3/8"

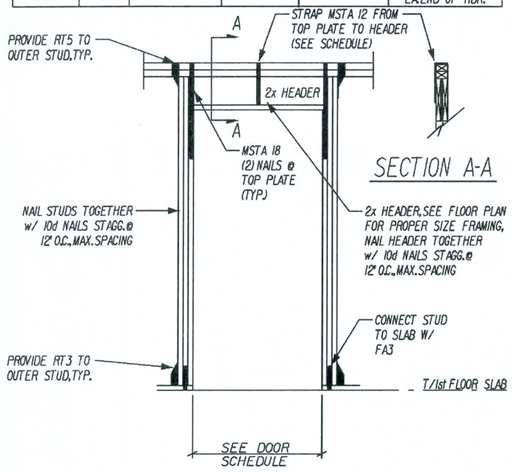
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE +1/4" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE +1/2" FOR WIDTH
** O.S.= OUTSWING
** I.S.= INSWING

MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS EA.END 10'-0" MAX.T.	
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	
3'-3"	(1)		2	2	
6'-3"	(1)		2	3	

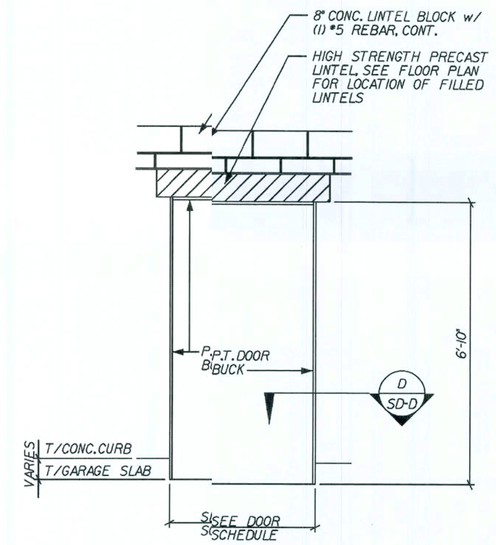


K STD.DOOR - WD FRAME, NO-UPLIFT
SCALE: N.T.S.

MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		2	2	(1) @ CEN.OF HDR.
6'-3"	(1)		2	3	(1) @ 2'-0" OFF EA.END OF HDR.

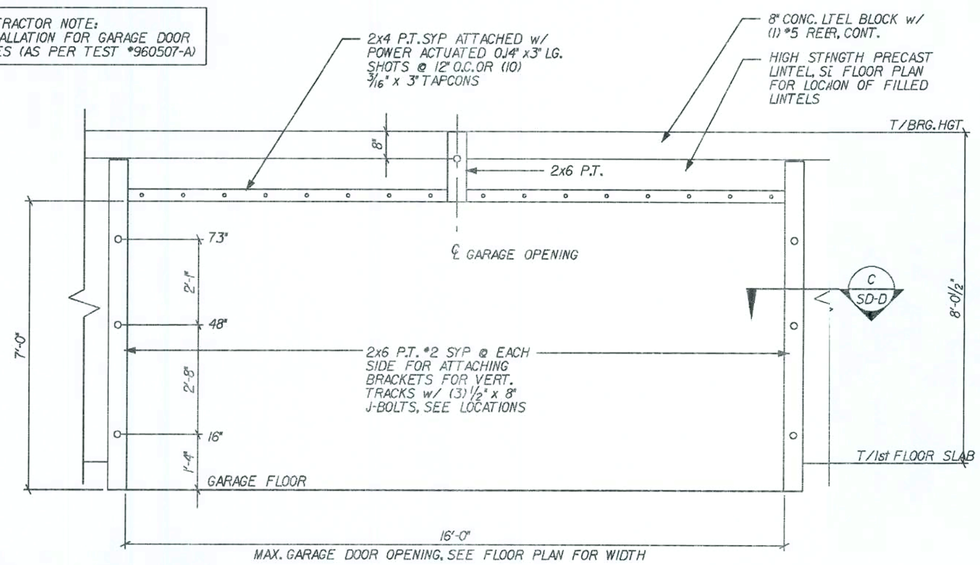


J STD.DOOR - WD FRAME, UPLIFT
SCALE: N.T.S.

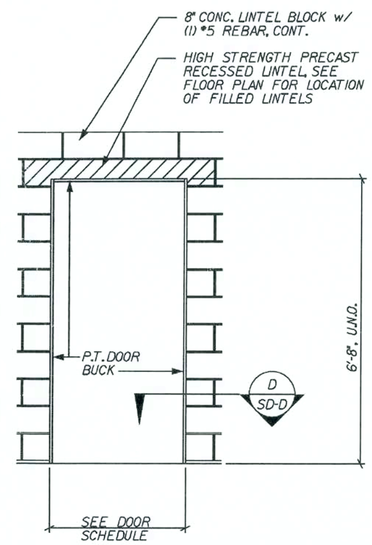


H OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: 3/8" = 1'-0"

CONTRACTOR NOTE:
INSTALLATION FOR GARAGE DOOR TYPES (AS PER TEST #960507-A)

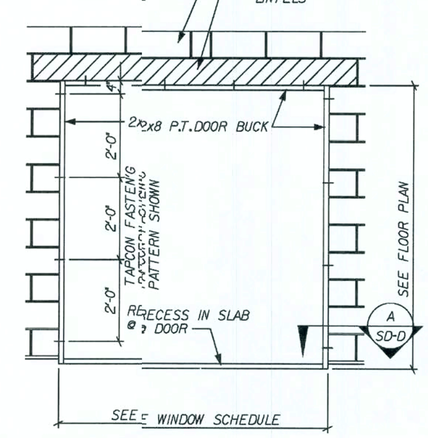


G GARAGE DOOR ELEVATION
SCALE: 3/8" = 1'-0"

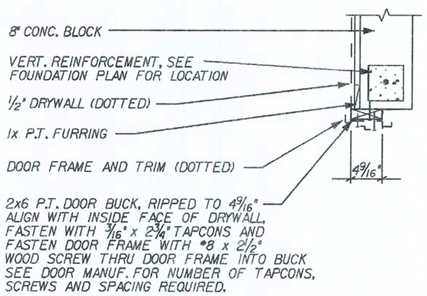


F STANDARD DOOR ELEVATION
SCALE: 3/8" = 1'-0"

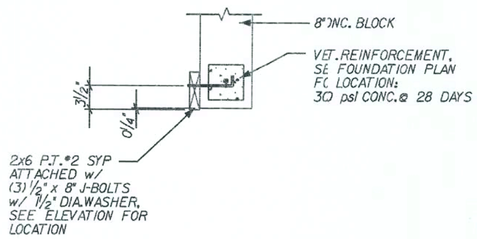
CONTRACTOR NOTE:
FOR INSTALLATION SIZES OF NORANDEX SLIDING DOOR SERIES 500 UP TO 8'-0" x 6'-8" AS PER #96-0131J0 & SERIES 502 UP TO 8'-0" x 8'-0" MAX. (AS PER TEST #96-0608.20)



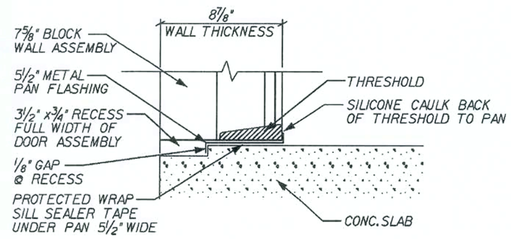
E SLIDING GLASS DOOR ELEVATION
SCALE: 3/8" = 1'-0"



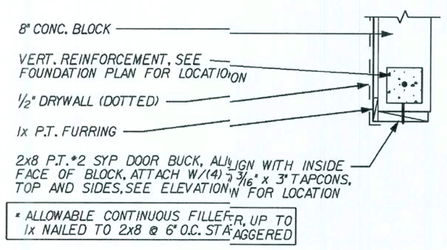
D 2x DOOR BUCK DETAIL
SCALE: 3/4" = 1'-0"



C GARAGE DOOR BCK DETAIL
SCALE: 3/4" = 1'-0"



B DOOR PAN FLASHING
REVISED 06-08-06
NEW DETAIL
SCALE: 3/4" = 1'-0"



A SLIDING GLASS DOOR BUCK DETAIL
REVISED 10-21-04
SCALE: 3/4" = 1'-0"

REVISIONS :
06-20-06 ADDED DOOR PAN DETAIL

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

DOORS | STANDARD DETAILS

AUSTIN 3

GARAGE:
DRAWN BY:
RELEASE DATE: 10-18-04

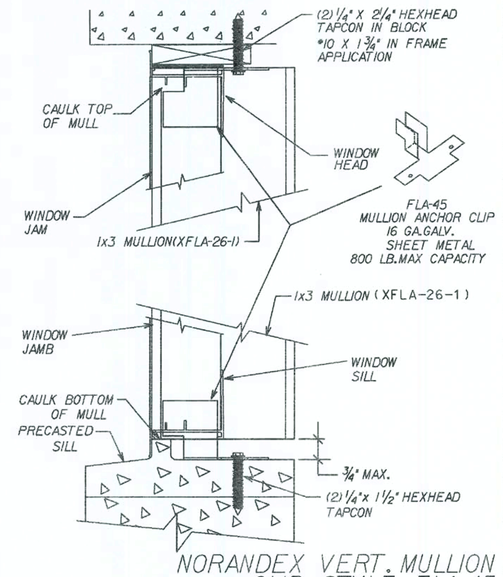
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:
SD-D

PLOT DATE: 04 DEC 2007
08:26:00
p:\houses_05\austin3\details\std_door.s.dd

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

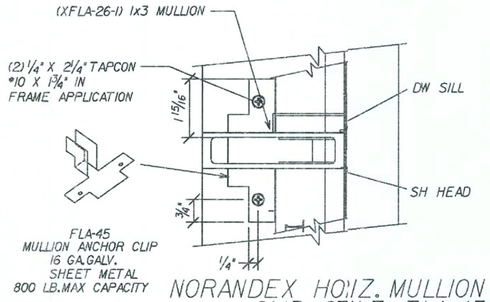


NORANDEX VERT. MULLION CLIP STYLE FLA-45

SCALE: 3/4" = 1'-0"

CONTRACTOR NOTE:
FOR INSTALLATION SIZES OF NORANDEX WINDOW SERIES 437/438 UP TO 53 1/8" x 76 3/8 AS PER TEST #96-0624.20

STANDARD WINDOW DETAILSIN BLOCK WALLS UP TO 10 FET HIGH



NORANDEX HOIZ. MULLION CLIP ST'LE FLA-45

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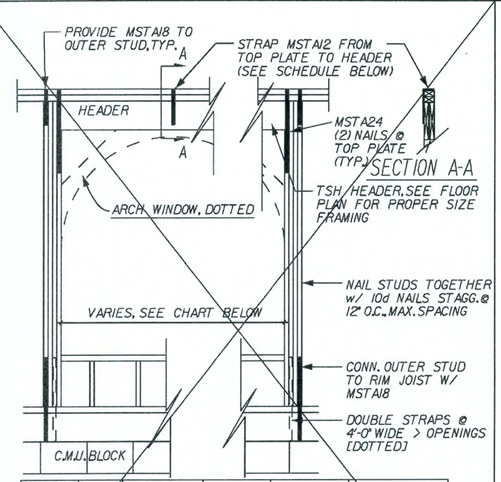


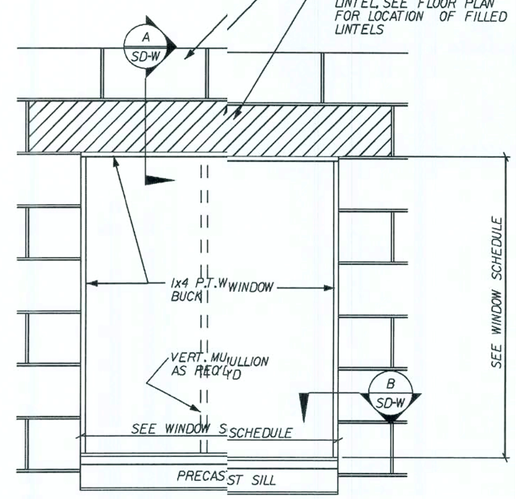
MAX. OPNG SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		1	2	(1) @ CEN.OF HDR.
6'-3"	(2)		2	3	(1) @ 2'-0" OFE EA.END OF HDR.

K TYP.HEADER DETAIL-2ND FLOOR FRAMING

REVISED 06-06-07 : PER WALL PANELS

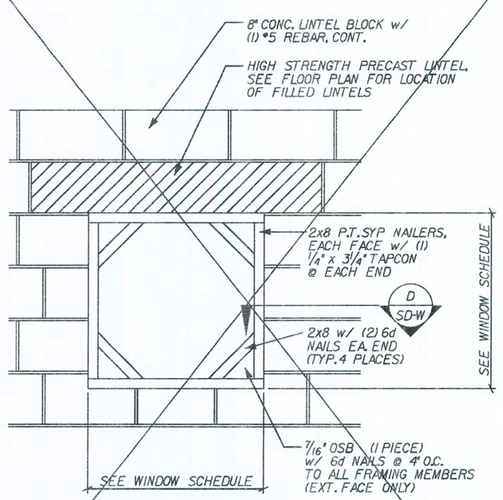
SCALE: N.T.S.

NOT USED



J WINDOW-STANDARD-BLK

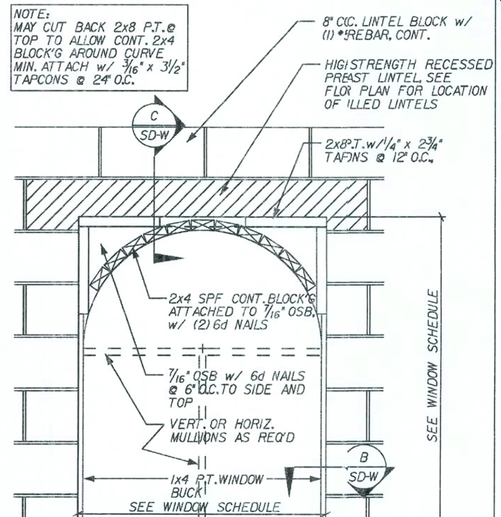
SCALE: 3/4" = 1'-0"



H WINDOW-OCTAGON-BLK

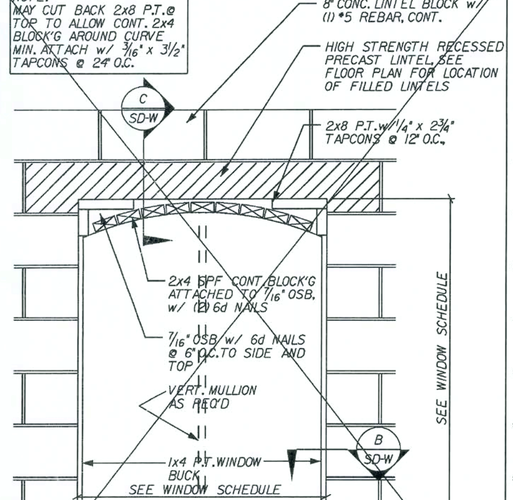
NOT USED

SCALE: 3/4" = 1'-0"



G WINDOW-1/2 ROUD TOP-BLK

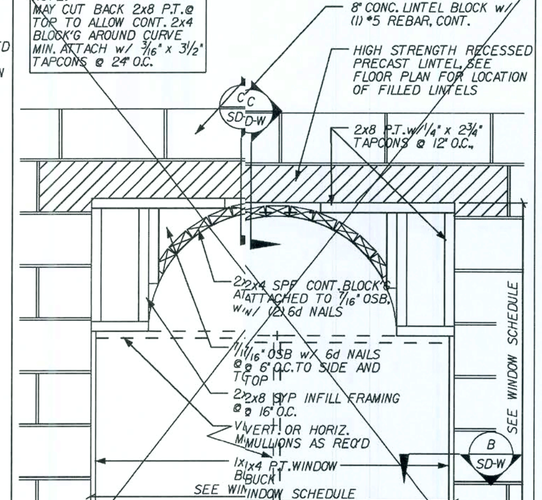
SCALE: 3/4" = 1'-0"



F WINDOW-EYEBROW-BLK

NOT USED

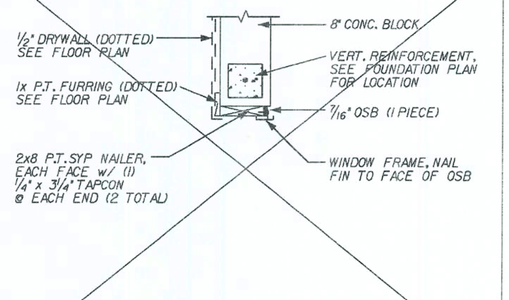
SCALE: 3/4" = 1'-0"



E WINDOW-COMBINATION-BLK

NOT USED

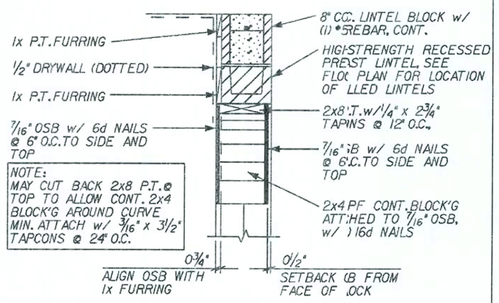
SCALE: 3/4" = 1'-0"



D WINDOW JAMB-OCTAGON-BLK

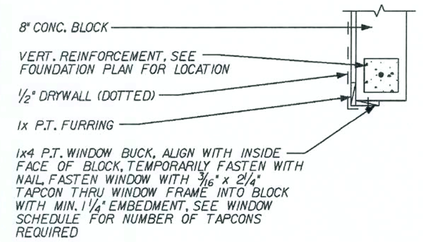
NOT USED

SCALE: 3/4" = 1'-0"



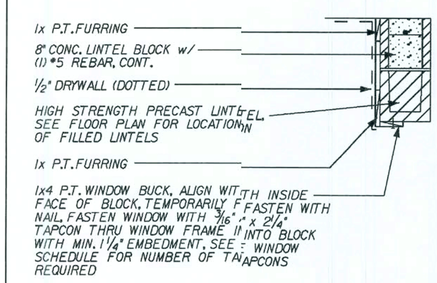
C WINDOW HEAD-ARCH IINDOW-BLK

SCALE: 3/4" = 1'-0"



B WINDOW JAMB-STANDARD-BLK

SCALE: 3/4" = 1'-0"



A WINDOW HEAD-STANDARD-BLK

SCALE: 3/4" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL WINDBOOK, 2006 SUPPLEMENT

WINDOWS | STANDARD DETAILS

AUSTIN 3

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
SEP 29 2008

SHEET:

SD-W

PLOT DATE: 04 DEC 2007

08:26:01

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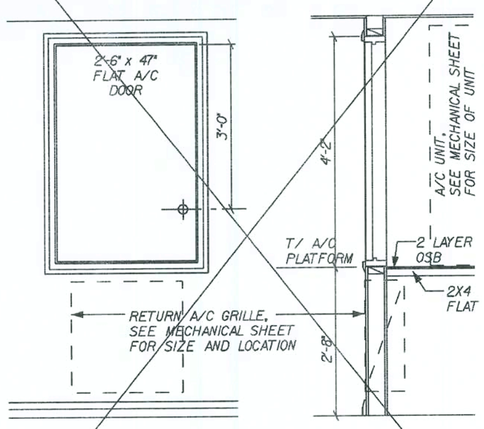
FLORIDA BUILDING CODE 2004 : RESIDENTIAL

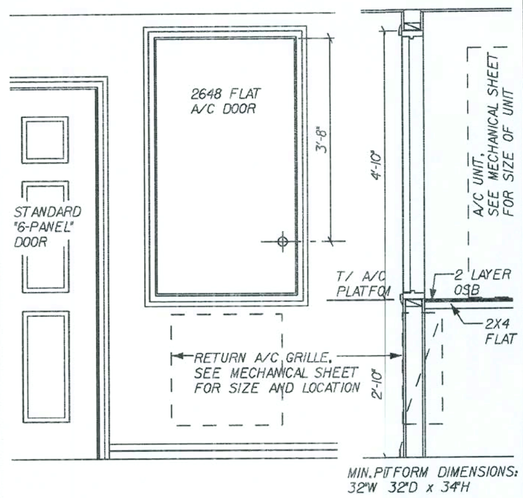


ELEVATION SECTION

7'-0" CEIL. ENCLOSED A/C PLATFORM

NOT USED

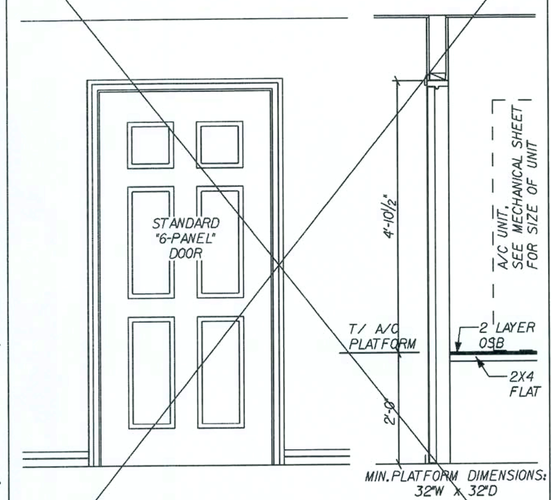
SCALE: 1/2" = 1'-0"



ELEVATION SECTION

ENCLOSED A/C PLATFORM

SCALE: 1/2" = 1'-0"

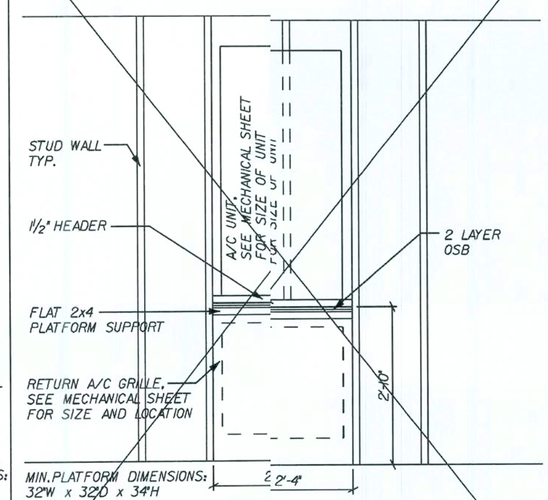


ELEVATION SECTION

FULL DOOR ENCLOSED A/C PLATFORM

NOT USED

SCALE: 1/2" = 1'-0"

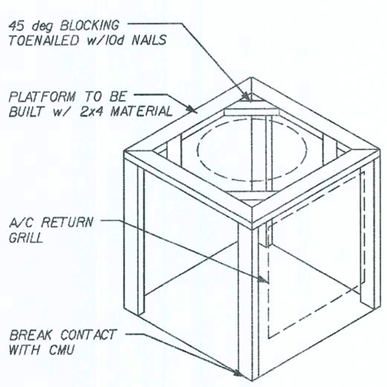


ELEVATION

OPEN A/C PLATFORM

NOT USED

SCALE: 1/2" = 1'-0"



A/C PLATFORM FRAMING

REVISED 01-24-05

SCALE: 1/2" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

STANDARD PLATFORM DETAILS

AUSTIN 3

A/R-HEAT DETAILS

DRAWN BY:

GARAGE:

RELEASE DATE: 10-18-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

SEP 29 2008

SHEET:

SD-H

p:\f1houses_05\austin3\details\std_heating.sdh

08:26:01

PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

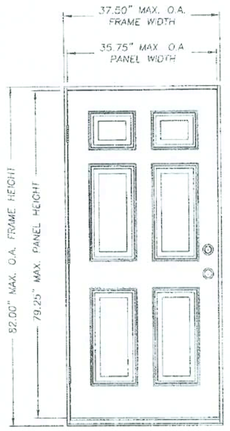
NAN YA PLASTICS CORP.
PLASTPRO INC.
9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039
PH: 800-779-0561 FAX: 973-758-4001

DISTINCTION SERIES
3'0" x 6'8" OPAQUE FIBERGLASS DOOR
INSWING / OUTSWING

GENERAL NOTES

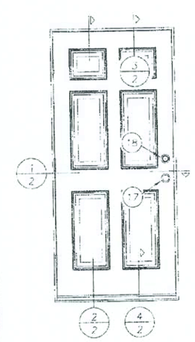
1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN WIND-BORNE DEBRIS REGIONS THIS PRODUCT COMPLIES WITH SECTION 1609.1.4 OF THE FLORIDA BUILDING CODE AS AN IMPACT RESISTANT PRODUCT AND DOES NOT REQUIRE THE USE OF AN EXTERNAL IMPACT RESISTANT COVERING. THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR ENHANCED PROTECTION OF ESSENTIAL FACILITIES AS DEFINED IN ASTM E1996.
4. FOR 2X STUD FRAMING CONSTRUCTION, ANCHORING OF THESE UNITS SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK MASONRY CONSTRUCTION.
5. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

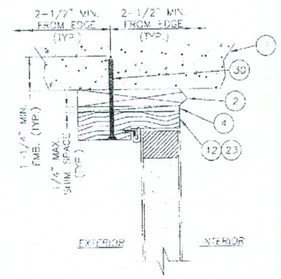
TABLE OF CONTENTS



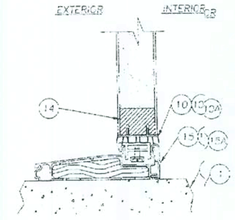
SINGLE OPAQUE DOOR

TYPE	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
INSWING	37.50" x 82.00"	+65.0	-70.0
OUTSWING	37.50" x 80.37"	+65.0	65.0

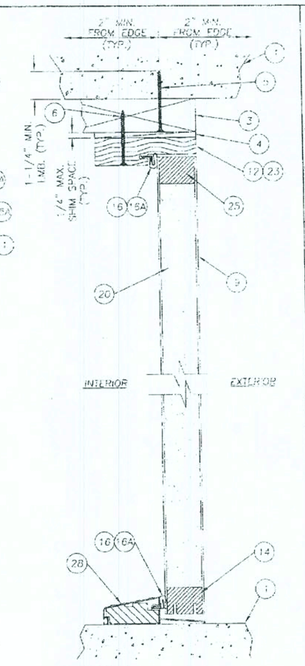




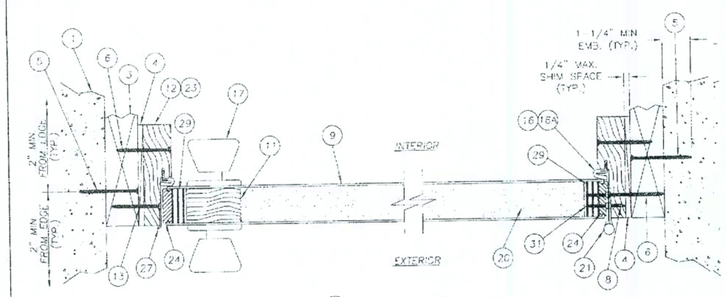
1/2 VERTICAL CROSS SECTION
SHOWN W/1X SQ6-BUCK SUBSTITUTING CONCRETE SCREWS FOR SCREWS PER SECTION 1714.5.4.2 OF THE FLORIDA BUILDING CODE.



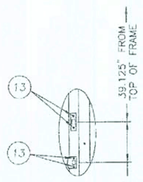
4/2 VERTICAL CROSS SECTION
INSWING CONFIGURATION



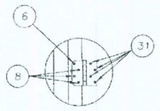
2/2 VERTICAL CROSS SECTION
OUTSWING CONFIGURATION



1/2 HORIZONTAL CROSS SECTION
OUTSWING CONFIGURATION

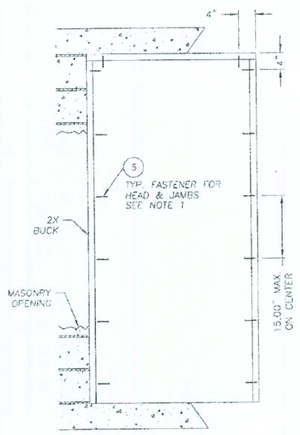


STRIKE PLATE DETAIL

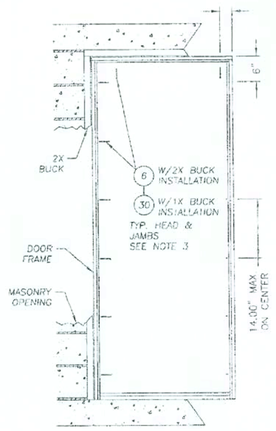


HINGE DETAIL

HINGES (3) LOCATED @ 9.46", 40.71" AND 71.965" FROM TOP OF FRAME TO CENTER LINE OF HINGE.



BUCK ANCHORING

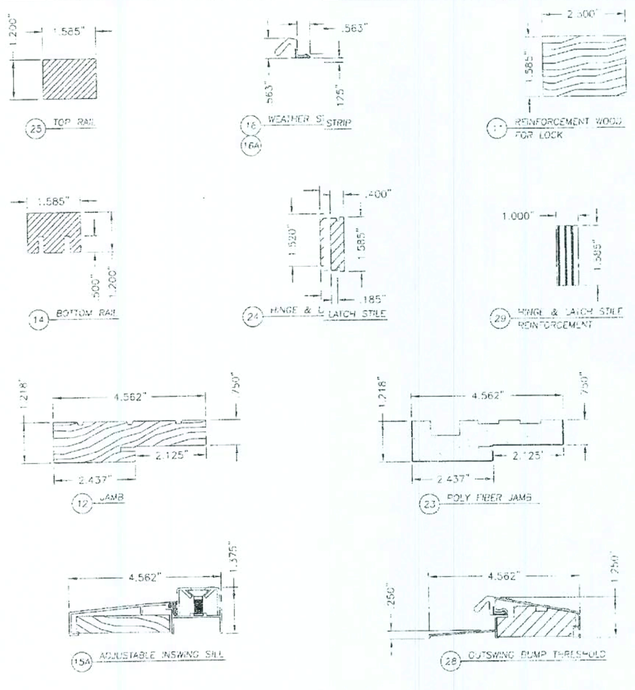


FRAME ANCHORING

NOTES:

1. 3/16" TAPCONS REQUIRE A MINIMUM 2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 2-1/4" CLEARANCE TO ADJACENT TAPCONS.
2. 1/4" TAPCONS REQUIRE A MINIMUM 2-1/2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 3" CLEARANCE TO ADJACENT TAPCONS.
3. WHEN ANCHORING DOOR FRAME UTILIZING A 1X BUCK THEN ITEM #6 IS SUBSTITUTED WITH ITEM #30 (1/4" X 3-3/4" ELCO ANCHOR). THE QUANTITY AND SPACING OF ANCHORS DOES NOT CHANGE. SEE NOTE 2.

ITEM	DESCRIPTION	MATERIAL
1	MASONRY	CONC
2	1X BUCK	WOOD
3	2X BUCK	WOOD
4	1/4" MAX. SHIM SPACE	WOOD
5	3/16" x 2-3/4" TAPCON	STEEL
6	#10 x 2-1/2" PFH WOOD SCREW	STEEL
7	3/16" x 2-1/4" TAPCON	STEEL
8	#8 x 3/4" PFH WOOD SCREW	STEEL
9	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
10	INSWING VINYL DOOR BOTTOM SWEEP BY ENDURA	VINYL
10A	VINYL DOOR BOTTOM SWEEP #3626 BY NOLM IND.	VINYL
11	REINFORCEMENT WOOD FOR LOCKS	WOOD
12	FINGER JOINTED PINE JAMB	WOOD
13	#8 x 2-1/4" PFH WS	STEEL
14	BOTTOM RAIL	FOAM PVC
15	INSWING ADJUSTABLE THRESHOLD BY ENDURA	AL./WOOD
15A	INSWING ADJUSTABLE ALUMINUM THRESHOLD BY GLP	AL./WOOD
16	FORCE & WEATHER STRIPPING BY ENDURA	FOAM
16A	COMPRESSION WEATHER STRIP QUIN 650 BY SCHLEGEL	FOAM
17	KWIKSET KEYED LINKY GRADE 2	STEEL
18	KWIKSET DEADBOLT GRADE 2	STEEL
19	NOT USED	-
20	POLYURETHANE FOAM BY NANYA	FOAM
21	4" x 4" BUTT HINGE	STEEL
22	#8 x 2" PFH WOOD SCREW	STEEL
23	POLY FIBER JAMB	COMP / VINYL
24	HINGE & LATCH STILE	FOAM PVC
25	TOP RAIL	FOAM PVC
26	NOT USED	
27	STRIKE PLATE	STEEL
28	OUTSWING BUMP THRESHOLD	ALUM
29	HINGE & LATCH STILE REINFORCEMENT	LVL
30	1/4" x 3-1/4" TAPCON	STEEL
31	#8 x 1" PFH WOOD SCREW	STEEL



Florida Product Approval #6184.1

REVISIONS :

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Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FIBERGLASS EXTERIOR DOORS
IN SWING / OUT SWING DOOR
SINGLE DOOR
RELEASE DATE: 09/02/08

SHEET:
ED-0

NAN YA PLASTICS CORP.

PLASTPRO INC.

9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039

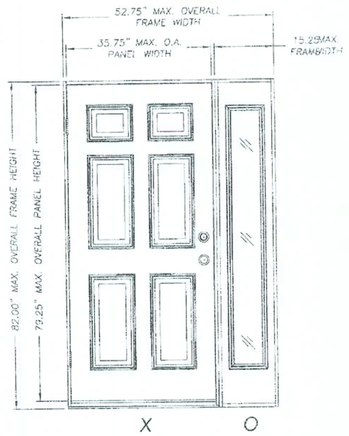
PH: 800-779-0561 FAX: 973-758-4001

DISTINCTION SERIES 3'0" x 6'8" OPAQUE FIBERGLASS DOOR WITH SIDELITE LIP LITE SCREW FRAME INSWING / OUTSWING

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN WIND-BORNE DEBRIS REGIONS THE OPAQUE DOOR PANEL COMPLIES WITH SECTION 1609.1.4 OF THE FLORIDA BUILDING CODE AS AN IMPACT RESISTANT PRODUCT AND DOES NOT REQUIRE THE USE OF AN EXTERNAL IMPACT RESISTANT COVERING; THE SIDELITE MUST BE PROTECTED WITH AN IMPACT RESISTANT COVERING THAT COMPLIES WITH SECTION 1609.1.4. THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR ENHANCED PROTECTION OF ESSENTIAL FACILITIES AS DEFINED IN ASTM F1996.
4. FOR 2X STUD FRAMING CONSTRUCTION, ANCHORING OF THESE UNITS SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK MASONRY CONSTRUCTION.
5. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

TABLE OF CONTENTS



SINGLE OPAQUE DOOR WITH SIDELITE

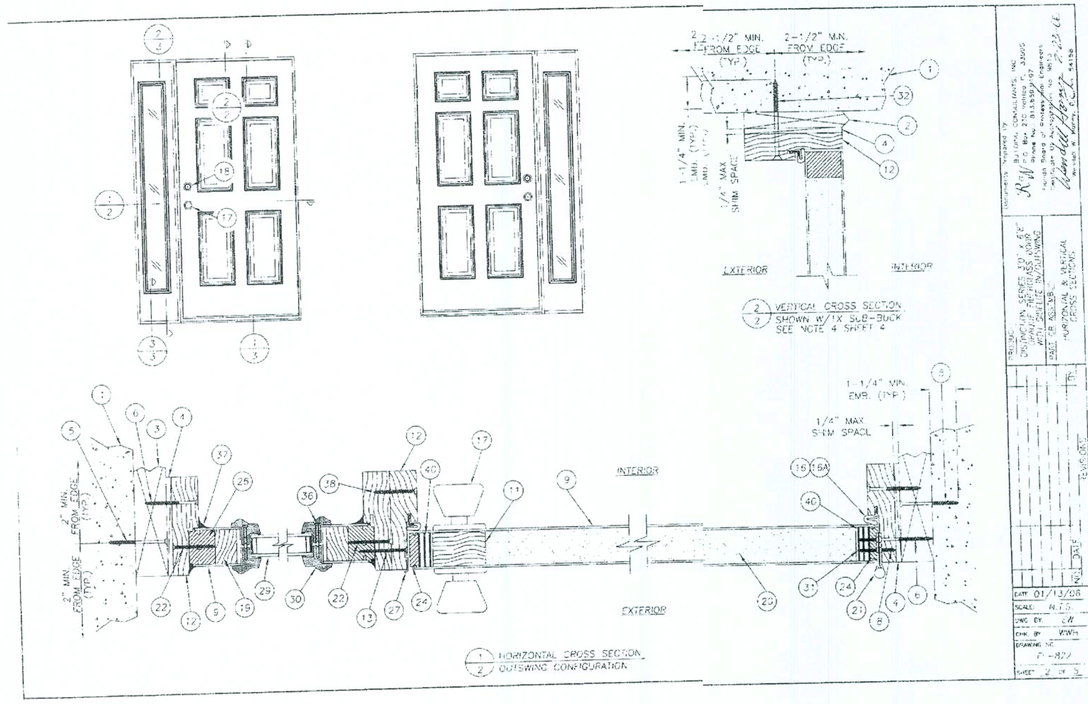
TYPE	OVERALL FRAME DIMENSION	SIDELITE DAYLIGHT DIMENSION	GLASS TYPE	DESIGN PRESSE (PSF) POSITIVE	NEGATIVE
INSWING	52.75" x 82.00"	7.00" x 63.00"	1/8" TEMP. - AIR - 1/8" TEMP	+50.0	50.0
OUTSWING	52.75" x 80.37"	7.00" x 63.00"		+50.0	-50.0

Documents Prepared By: R.W. Building Consultants, Inc. P.O. Box 2, Ft. Lauderdale, Fl 33302 Phone No. 954.359.9197 Florida Board of Professional Engineers Certificate of Authorization No. 8613 Richard W. Perry, P.E. 44156

PRODUCT: DISTINCTION SERIES 3'0" x 6'8" OPAQUE FIBERGLASS DOOR WITH SIDELITE LIP LITE SCREW FRAME INSWING/OUTSWING
PART: 02 ASSEMBLY
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS

DATE: 01/13/06
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: WWH
DRAWING NO: FL-822
SHEET 1 OF 5



2/2 VERTICAL CROSS SECTION SHOWN W/1X SUB-BUCK SEE NOTE 4 SHEET 4

1/1 HORIZONTAL CROSS SECTION 2/2 OUTSWING CONFIGURATION

Documents Prepared By: R.W. Building Consultants, Inc. P.O. Box 2, Ft. Lauderdale, Fl 33302 Phone No. 954.359.9197 Florida Board of Professional Engineers Certificate of Authorization No. 8613 Richard W. Perry, P.E. 44156

PRODUCT: DISTINCTION SERIES 3'0" x 6'8" OPAQUE FIBERGLASS DOOR WITH SIDELITE LIP LITE SCREW FRAME INSWING/OUTSWING
PART: 02 ASSEMBLY
HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS

DATE: 01/13/06
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: WWH
DRAWING NO: FL-822
SHEET 2 OF 5

REVISIONS :

Maronda Homes

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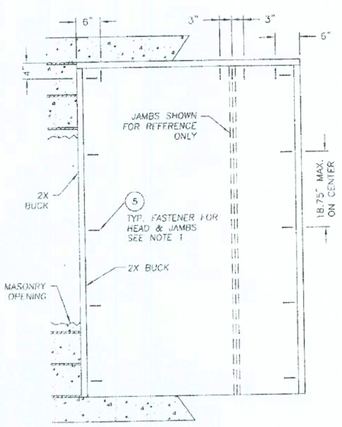
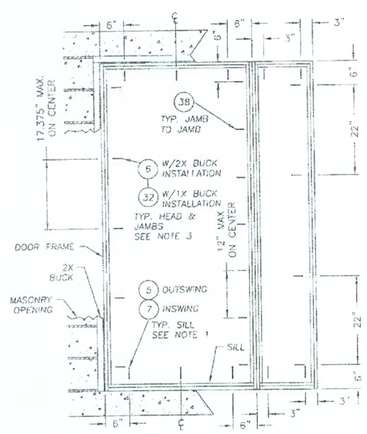
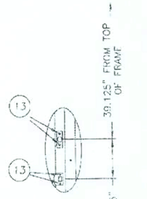
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA



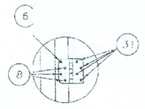
BUCK ANCHORING



FRAME ANCHORING



SIKE PLATE DETAIL



HINGE DETAIL

IGES (3) LOCATED @ 9.40.71" AND 71.955" FM TOP OF FRAME TO OTER LINE OF HINGE.

NOTES:

1. 3/16" TAPCONS REQUIRE A MINIMUM 2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 2-1/4" CLEARANCE TO ADJACENT TAPCONS.
2. 1/4" TAPCONS REQUIRE A MINIMUM 2-1/2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 3" CLEARANCE TO ADJACENT TAPCONS.
3. WHEN ANCHORING DOOR FRAME UTILIZING A 1X BUCK THEN ITEM #6 IS SUBSTITUTED WITH ITEM #32 (1/4" X 3-3/4" ELCO ANCHOR). THE QUANTITY AND SPACING OF ANCHORS DOES NOT CHANGE. SEE NOTE 2.
4. PER FBC SECTION 1714.5.4.2, FOR SUB-BUCKS LESS THAN 1-1/2" THICK, THE WINDOW SHALL BE ANCHORED THROUGH THE MAIN FRAME DIRECTLY INTO THE MASONRY. TAPCONS ARE SUBSTITUTED FOR THE ANCHORS.
5. SIDELITE PANEL SECURED TO THE SIDELITE FRAME WITH (4) OF ITEM #22 LOCATED 10", 30.5", 51" AND 71.5" FROM THE TOP OF EACH JAMB AND (2) OF ITEM #22 IN THE HEAD AND SILL 3" FROM EACH END.

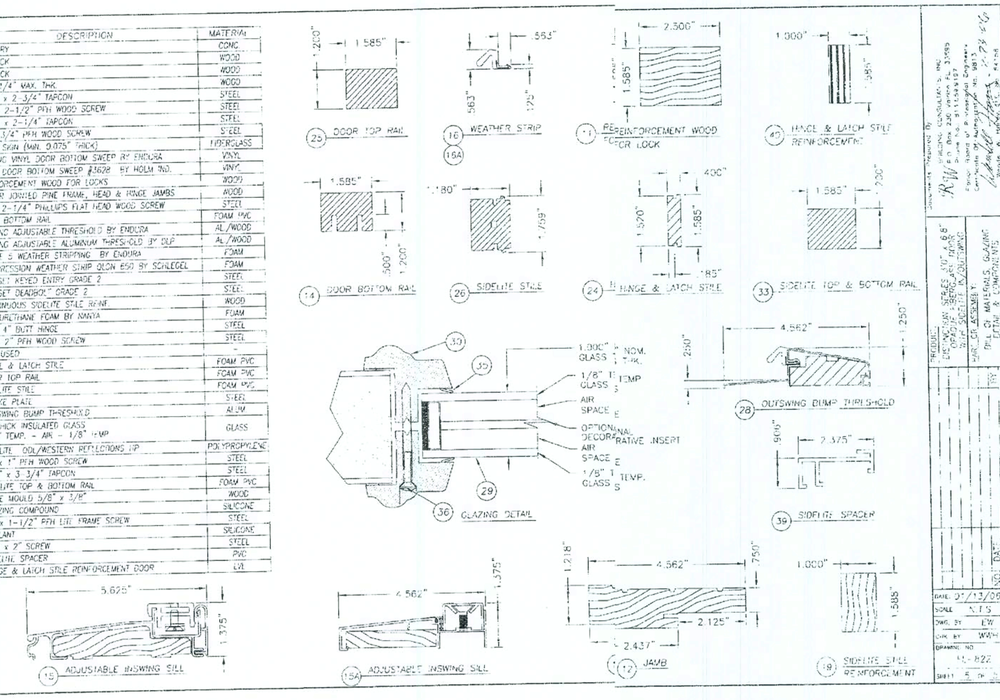
Documents Prepared By: R.W. Building Consultants, Inc. P.O. Box 2, Ft. Lauderdale, Fl 33302 Phone No. 954.359.9197 Florida Board of Professional Engineers Certificate of Authorization No. 8613 Richard W. Perry, P.E. 44156

PRODUCT: DISTINCTION SERIES 3'0" x 6'8" OPAQUE FIBERGLASS DOOR WITH SIDELITE LIP LITE SCREW FRAME INSWING/OUTSWING
PART: 02 ASSEMBLY
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS

DATE: 01/13/06
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: WWH
DRAWING NO: FL-822
SHEET 4 OF 5

ITEM	DESCRIPTION	MATERIAL
1	MASONRY	CONC.
2	1X BUCK	WOOD
3	2X BUCK	WOOD
4	SHIM 1/4" MAX. THK.	WOOD
5	3/16" x 2-3/4" TAPCON	STEEL
6	#10 x 2-1/2" PFH WOOD SCREW	STEEL
7	3/16" x 2-1/4" TAPCON	STEEL
8	#8 x 3/4" PFH WOOD SCREW	STEEL
9	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
10	INSWING VINYL DOOR BOTTOM SWEEP BY ENDURA	VINYL
10A	VINYL DOOR BOTTOM SWEEP #3628 BY HOLM IND.	VINYL
11	REINFORCEMENT WOOD FOR LOCKS	WOOD
12	FINGER JOINED PINE FRAME, HEAD & HINGE JAMBS	WOOD
13	#8 x 2-1/4" PHILLIPS FLAT HEAD WOOD SCREW	STEEL
14	DOOR BOTTOM RAIL	FOAM PVC
15	INSWING ADJUSTABLE THRESHOLD BY ENDURA	AL./WOOD
15A	INSWING ADJUSTABLE ALUMINUM THRESHOLD BY DLP	AL./WOOD
16	FORCE S WEATHER STRIPPING BY ENDURA	FOAM
16A	COMPRESSION WEATHER STRIP QLON 650 BY SCHLEGEL	FOAM
17	KWIKSET KESED ENTRY GRADE 2	STEEL
18	KWIKSET DEADBOLT GRADE 2	STEEL
19	CONTINUOUS SIDELITE STILE REINF.	WOOD
20	POLYURETHANE FOAM BY NANYA	FOAM
21	4" x 4" BUTT HINGE	STEEL
22	#8 x 2" PFH WOOD SCREW	STEEL
23	NOT USED	
24	HINGE & LATCH STILE	FOAM PVC
25	DOOR TOP RAIL	FOAM PVC
26	SIDELITE STILE	FOAM PVC
27	STRIKE PLATE	STEEL
28	OUTSWING BUMP THRESHOLD	ALUM
29	1" THICK INSULATED GLASS 1/8" TEMP. - AIR - 1/8" TEMP	GLASS
30	LIP LITE OGL/WESTERN REFLECTIONS LIP	POLYPROPYLENE
31	#8 x 1" PFH WOOD SCREW	STEEL
32	1/4" x 3-3/4" TAPCON	STEEL
33	SIDELITE TOP & BOTTOM RAIL	FOAM PVC
34	SHOE MOULD 5/8" x 3/8"	WOOD
35	GLAZING COMPOUND	SILICONE
36	#8 x 1-1/2" PFH LIP LITE FRAME SCREW	STEEL
37	SEALANT	SILICONE
38	#10 x 2" SCREW	STEEL
39	SIDELITE SPACER	PVC
40	HINGE & LATCH STILE REINFORCEMENT DOOR	LVL



Documents Prepared By: R.W. Building Consultants, Inc. P.O. Box 2, Ft. Lauderdale, Fl 33302 Phone No. 954.359.9197 Florida Board of Professional Engineers Certificate of Authorization No. 8613 Richard W. Perry, P.E. 44156

PRODUCT: DISTINCTION SERIES 3'0" x 6'8" OPAQUE FIBERGLASS DOOR WITH SIDELITE INSWING/OUTSWING
PART: 05 ASSEMBLY
BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS

NO.	DATE	REVISIONS

DATE: 01/13/06
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: WWH
DRAWING NO: FL-822
SHEET 5 OF 5

FIBERGLASS EXTERIOR DOORS

IN SWING / OUT SWING DOOR WITH (ONE) SIDELITE

RELEASE DATE: 09/02/98

SHEET:

ED-1

Florida Product Approval #6184.3

NAN YA PLASTICS CORP.
PLASTPRO INC.
9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039
PH: 800-779-0561 FAX: 973-758-4001

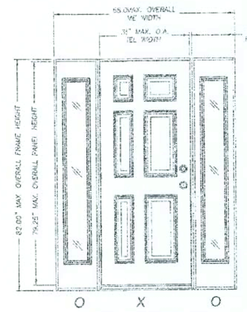
DISTINCTION SERIES 3'0" x 6'8" OPAQUE FIBERGLASS DOOR WITH SIDELITES LIP LITE SCREW FRAME INSWING / OUTSWING

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE (EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE").
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN WIND-BORNE DEBRIS REGIONS THE OPAQUE DOOR PANEL COMPLIES WITH SECTION 1609.1.4 OF THE FLORIDA BUILDING CODE AS AN IMPACT RESISTANT PRODUCT AND DOES NOT REQUIRE THE USE OF AN EXTERNAL IMPACT RESISTANT COVERING; THE SIDELITE MUST BE PROTECTED WITH AN IMPACT RESISTANT COVERING THAT COMPLIES WITH SECTION 1609.1.4. THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR ENHANCED PROTECTION OF ESSENTIAL FACILITIES AS DEFINED IN ASTM E1996.
4. FOR 2X STUD FRAMING CONSTRUCTION, ANCHORING OF THESE UNITS SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK MASONRY CONSTRUCTION.
5. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

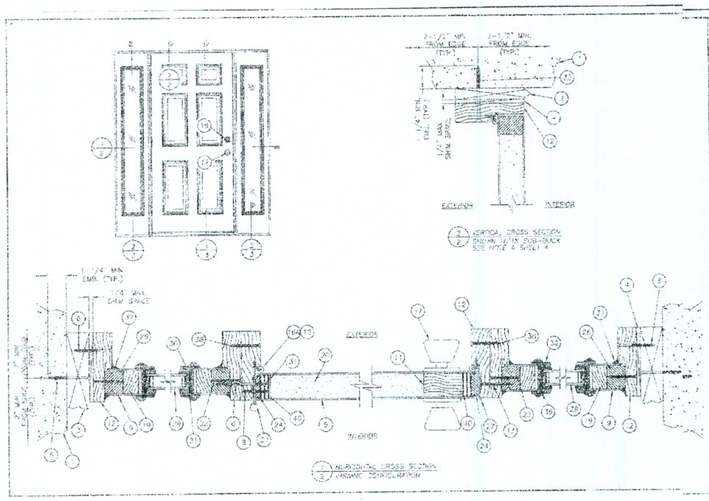
TABLE OF CONTENTS

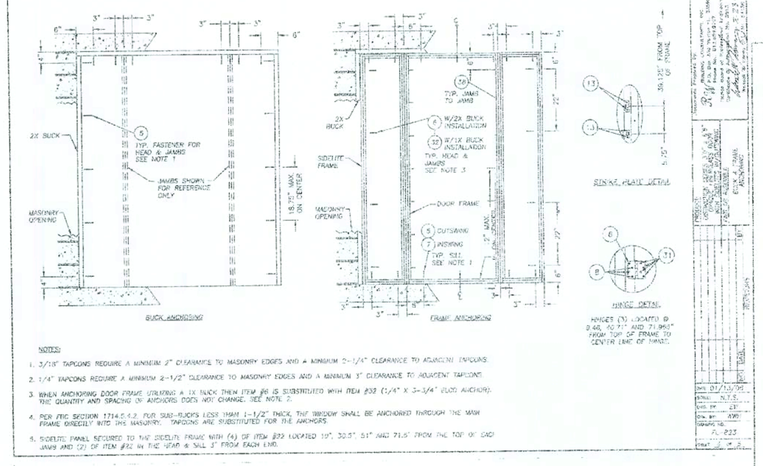
SHEET #	DESCRIPTION
1	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
2	HORIZONTAL & VERTICAL CROSS SECTIONS
3	VERTICAL CROSS SECTIONS
4	BUCK & FRAME ANCHORING
5	BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS



SINGLE OPT DOOR WITH SIDELITES

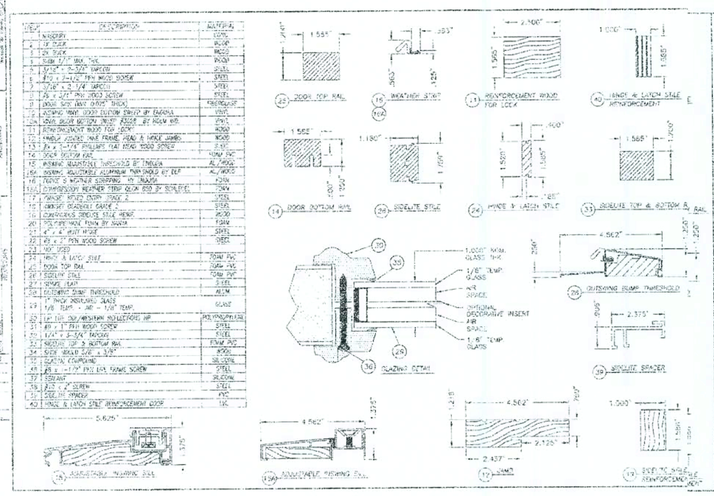
TYPE	OVERALL FRAME DIMENSION	SIDELITE OPENING DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF) POSITIVE	DESIGN PRESSURE (PSF) NEGATIVE
INSWING	60.00" x 82.00"	7.00" x 83.00"	1/8" TEMP.	+50.0	-50.0
OUTSWING	66.00" x 80.37"	7.00" x 83.00"	1/8" TEMP.	+50.0	-50.0





NOTES:

1. 3/16" TAPCONS REQUIRE A MINIMUM 2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 2-1/4" CLEARANCE TO ADJACENT TAPCONS.
2. 1/4" TAPCONS REQUIRE A MINIMUM 2-1/2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 3" CLEARANCE TO ADJACENT TAPCONS.
3. WHEN ANCHORING DOOR FRAME UTILIZING A 1X BUCK THEN ITEM #6 IS SUBSTITUTED WITH ITEM #33 (1/4" X 3-3/4" FLOG ANCHOR). THE QUANTITY AND SPACING OF ANCHORS DOES NOT CHANGE. SEE NOTE 2.
4. PER FBC SECTION 1714.5.4.2, FOR SUB-BUCKS LESS THAN 1-1/2" THICK, THE WINDOW SHALL BE ANCHORED THROUGH THE MAIN FRAME DIRECTLY INTO THE MASONRY. TAPCONS ARE SUBSTITUTED FOR THE ANCHORS.
5. SIDELITE PANEL SECURED TO THE SIDELITE FRAME WITH (4) OF ITEM #33 LOCATED 10", 30.5", 51" AND 71.5" FROM THE TOP OF EACH JAMB AND (2) OF ITEM #32 IN THE HEAD & SILL 3" FROM EACH END.



Florida Product Approval 6184.5

REVISIONS :

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Maronda Homes
14071 321-0064 4005 MARONDA WAY SAN GRD. FL.32104

FIBERGLASS EXTERIOR DOORS
IN SWING / OUT SWING DOOR
WITH (TWO) SIDELITES
RELEASE DATE: 09/02/08

SHEET:
ED-2

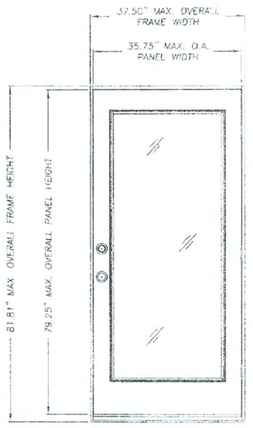
NAN YA PLASTICS CORP.
PLASTPRO INC.
9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039
PH: 800-779-0561 FAX: 973-758-4001

DISTINCTION SERIES 3'0" x 6'8" FLUSH GLAZED FIBERGLASS DOOR INSWING / OUTSWING "NON-IMPACT"

GENERAL NOTES

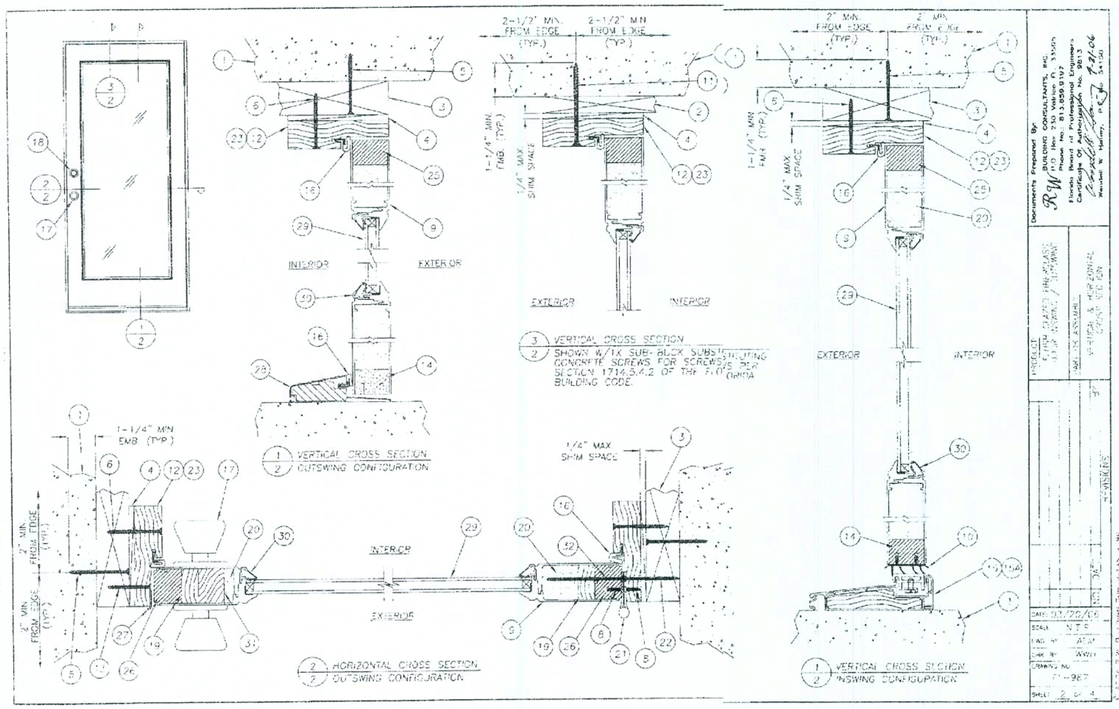
1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE 2004 FLORIDA BUILDING CODE EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN AREAS REQUIRING WIND-BORNE DEBRIS PROTECTION THIS PRODUCT IS REQUIRED TO BE PROTECTED WITH AN IMPACT RESISTANT COVERING THAT COMPLIES WITH SECTION 1609.1.4 OF THE FLORIDA BUILDING CODE
4. FOR 2X STUD FRAMING CONSTRUCTION, ANCHORING OF THESE UNITS SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK MASONRY CONSTRUCTION.
5. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

TABLE OF CONTENTS



SINGLE DOOR

TYPE	OVERALL FRAME DIMENSION	OVERALL DAYLIGHT DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF) POSIT	NEGATIVE
INSWING	37.50" x 81.81"	26.25" x 65.93"	1/8" TEMPERED - AIR - 1/8" TEMPERED	+50.	-50.0
OUTSWING	37.50" x 80.75"	26.25" x 65.93"		+50.	-50.0

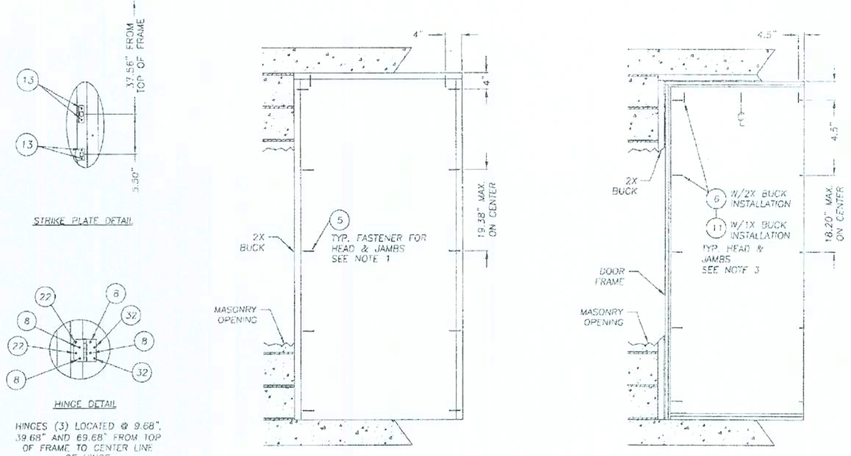


1/2 VERTICAL CROSS SECTION OUTSWING CONFIGURATION

3/2 VERTICAL CROSS SECTION SHOWN W/1X SUB-BUCK SUBSTITUTING CONCRETE SCREWS FOR SCREWS PER SECTION 1716.5.4.2 OF THE FLORIDA BUILDING CODE

2/2 HORIZONTAL CROSS SECTION OUTSWING CONFIGURATION

1/2 VERTICAL CROSS SECTION INSWING CONFIGURATION



STRIKE PLATE DETAIL

HINGE DETAIL

HINGES (3) LOCATED @ 9.68", 39.68" AND 69.68" FROM TOP OF FRAME TO CENTER LINE OF HINGE.

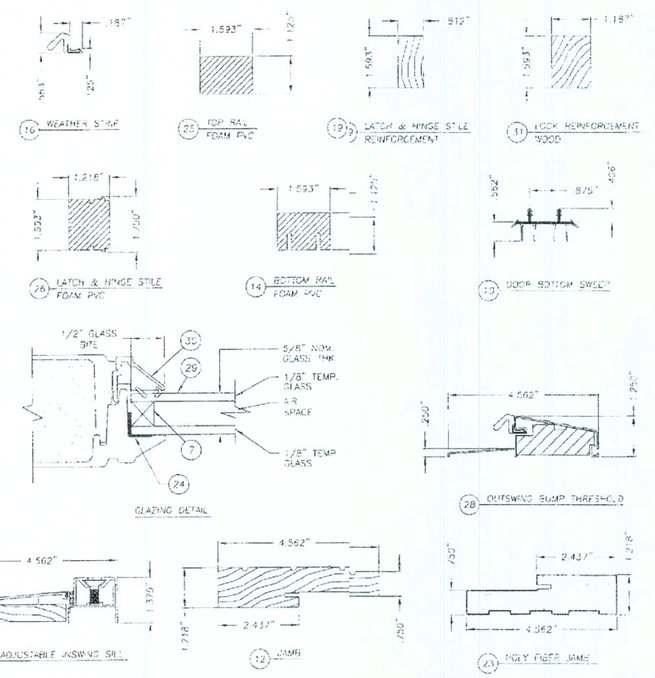
BUCK ANCHORING

FRAME ANCHORING

NOTES:

1. 3/16" TAPCONS REQUIRE A MINIMUM 2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 2-1/4" CLEARANCE TO ADJACENT TAPCONS.
2. 1/4" TAPCONS REQUIRE A MINIMUM 2-1/2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 3" CLEARANCE TO ADJACENT TAPCONS.
3. WHEN ANCHORING DOOR FRAME UTILIZING A 1X BUCK THEN ITEM #6 IS SUBSTITUTED WITH ITEM #11 (1/4" X 3-3/4" ELCO ANCHOR). THE QUANTITY AND SPACING OF ANCHORS DOES NOT CHANGE. SEE NOTE 2.

ITEM	DESCRIPTION	MATERIAL
1	MASONRY	CONC.
2	1X BUCK	WOOD
3	2X BUCK	WOOD
4	1/4" MAX. SHIM SPACE	WOOD
5	3/16" x 2-1/2" TAPCON	STEEL
6	#10 x 2-1/2" PHILLIPS FLAT HEAD SCREW	STEEL
7	GLAZING SPACER	ALUM.
8	#8 x 3/4" PFH WOOD SCREW	STEEL
9	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
10	WEATHER-STOP 1847 NOVA INDUSTRIES	VINYL
11	1/4" x 2-3/4" EPCON	STEEL
12	FINGER JOINED PINE FRAME HEAD & JAMBS	WOOD
13	#8 x 2-1/2" PHILLIPS FLAT HEAD SCREW	STEEL
14	BOTTOM RAIL	FOAM PVC
15	INSWING ADJUSTABLE THRESHOLD BY ENDURA	AL./WOOD
15A	INSWING ADJUSTABLE ALUMINUM THRESHOLD BY ENP	AL./WOOD
16	0.120N 825 WEATHER STRIP SOLFGE	FOAM
17	KWIKSET KEYED ENTRY GRADE 2	STEEL
18	KWIKSET DEADBOLT GRADE 2	STEEL
19	CONTINUOUS LATCH AND HINGE STILE REINFORCEMENT	WOOD
20	POLYURETHANE FOAM BY NOVA	FOAM
21	4" x 4" BUTT HINGE	STEEL
22	#8 x 2-1/2" PFH WOOD SCREW	STEEL
23	POLY FIBER JAMB	COMP. / VINYL
24	GLAZING COMPOUND DOW 995	SILICONE
25	TOP RAIL	FOAM PVC
26	LATCH & HINGE STILE	FOAM PVC
27	STRIKE PLATE	STEEL
28	OUTSWING BUMP THRESHOLD	ALUM.
29	5/8" INSULATED GLASS 1/8" TEMPERED - AIR - 1/8" TEMPERED	GLASS
30	GLAZING BEAD	PVC
31	LOCK REINFORCEMENT	WOOD
32	#8 x 3-1/2" PFH WOOD SCREW	STEEL



16 WEATHER STRIP

25 TOP RAIL FOAM PVC

19/9 LATCH & HINGE STILE REINFORCEMENT

31 LOCK REINFORCEMENT WOOD

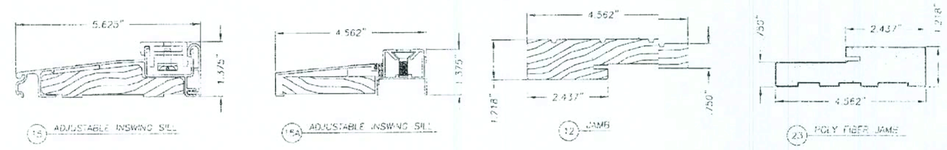
26 LATCH & HINGE STILE FOAM PVC

14 BOTTOM RAIL FOAM PVC

13 DOOR BOTTOM SWEEP

GLAZING DETAIL

28 OUTSWING BUMP THRESHOLD



15 ADJUSTABLE INSWING SILL

15A ADJUSTABLE INSWING SILL

12 JAMB

23 POLY FIBER JAMB

Florida Product Approval #6729.

REVISIONS :

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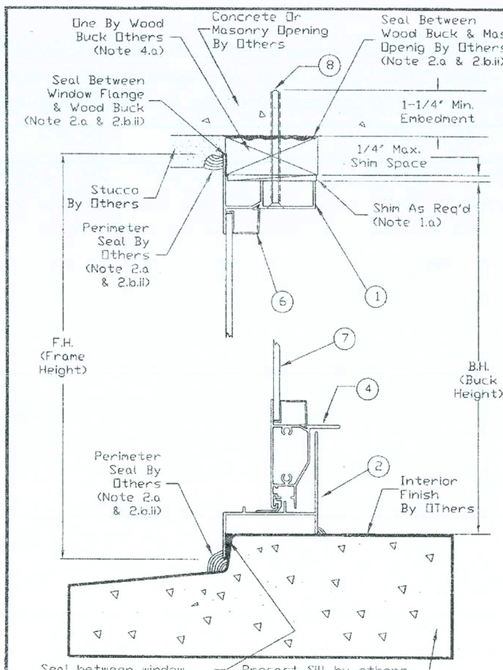
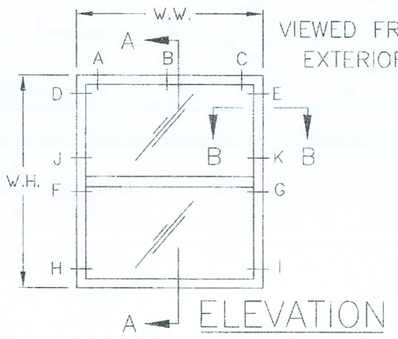
Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FIBERGLASS EXTERIOR DOORS
IN SWING / OUT SWING DOOR
GLAZED DOOR
RELEASE DATE: 05/02/08

SHEET:
ED-4

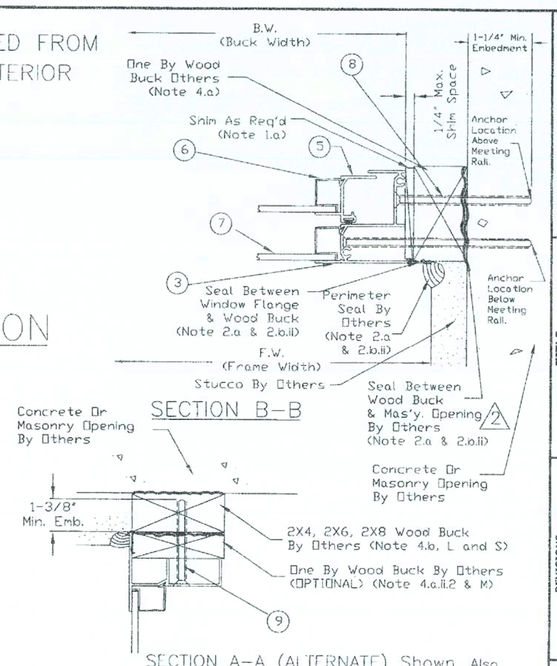


SECTION A–A



VIEWED FROM EXTERIOR

ELEVATION



SECTION B–B

SECTION A–A (ALTERNATE) Shown. Also applicable to Section B–B for installation with two by with or w/o one by wood bucks.

PARTS LIST

1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Lift Rail - Sash
5 Jamb - Sash
6 Glazing Bead
7 Glazing - See Note (B) and (C)
8 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 180 lbs at 1 1/4" embedment. See Note (I) on Sheet 2 & Note 7 on Drawing FLEX20100.
9 #10 Flate Head Wood or Tapping Screw with a minimum embedment of 1-3/8" into "Structural Two By Buck or Framing". See Note (L) on Sheet 2 and Note 8 on Drawing FLEX20100.
10 #8 Flat Head Wood or Tapping Screw with a minimum embedment of 5/8" into the "One By Wood Buck". See Note (K) on Sheet 2 and Note 8 on Drawing FLEX20100.

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.
(A) Milestone Series 1000 Single Hung Aluminum Window is shown. Also applicable to Milestone Series 1500 and 2000 Single Hung Aluminum Windows.
(B) Drawing applicable to Non-Impact Resistant glazed windows.
(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12
(D) For Fastener Location & Quantities see Sheet 2 of this drawing. See Note (H) regarding deviations.
(E) Concrete screw edge distance measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4". Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(F) Wood screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(G) Not used.
(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, tapping screws and Vulkem Structural Adhesive (or other approved pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

Florida Extruders Int'l., Inc.
2540 Jovett Lane - Sanford, FL 32771
407-323-3300 - 407-322-3507 (fax)
www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 1000, 1500 & 2000 Non-Impact Resistant Aluminum Flange Frame Single Hung Window Installation Drawing for Masonry Substrate with Concrete Screws

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0016
1	11/14/06	RJA	Revised Anchorage
2	3/02/07	RJA	Editorial Corrections

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
FL License No. 49752

ROBERT JAMES AMORUSO LICENSE NUMBER 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/2/07

Drawing No. FLEX21110
Sheet 1 of 2

FASTENER LOCATION TABLE (see Elevation View)

Size Code	Buck Width	Buck Height	Concrete Screw Location Head	Concrete Screw Location Jambs
12	18 1/8	25	A, C	D, E, F, G, H, I
13	18 1/8	37 3/8	A, C	D, E, F, G, H, I
14	18 1/8	49 5/8	A, C	D, E, F, G, H, I
145	18 1/8	55 1/4	A, C	D, E, F, G, H, I
15	18 1/8	62	A, C	D, E, F, G, H, I
16	18 1/8	71	A, C	D, E, F, G, H, I, J, K
17	18 1/8	83	A, C	D, E, F, G, H, I, J, K
1H2	25 1/2	25	A, C	D, E, F, G, H, I
1H3	25 1/2	37 3/8	A, C	D, E, F, G, H, I
1H4	25 1/2	49 5/8	A, C	D, E, F, G, H, I
1H45	25 1/2	55 1/4	A, C	D, E, F, G, H, I
1H5	25 1/2	62	A, C	D, E, F, G, H, I
1H6	25 1/2	71	A, C	D, E, F, G, H, I, J, K
1H7	25 1/2	83	A, C	D, E, F, G, H, I, J, K
3H2	29 1/2	25	A, C	D, E, F, G, H, I
3H3	29 1/2	37 3/8	A, C	D, E, F, G, H, I
3H4	29 1/2	49 5/8	A, C	D, E, F, G, H, I
3H45	29 1/2	55 1/4	A, C	D, E, F, G, H, I
3H5	29 1/2	62	A, C	D, E, F, G, H, I
3H6	29 1/2	71	A, C	D, E, F, G, H, I, J, K
3H7	29 1/2	83	A, C	D, E, F, G, H, I, J, K
22	36	25	A, C	D, E, F, G, H, I
23	36	37 3/8	A, C	D, E, F, G, H, I
24	36	49 5/8	A, C	D, E, F, G, H, I
245	36	55 1/4	A, C	D, E, F, G, H, I
25	36	62	A, C	D, E, F, G, H, I
26	36	71	A, C	D, E, F, G, H, I, J, K
27	36	83	A, C	D, E, F, G, H, I, J, K
482	47	25	A, B, C	D, E, F, G, H, I
483	47	37 3/8	A, B, C	D, E, F, G, H, I
484	47	49 5/8	A, B, C	D, E, F, G, H, I
4845	47	55 1/4	A, B, C	D, E, F, G, H, I
485	47	62	A, B, C	D, E, F, G, H, I
486	47	71	A, B, C	D, E, F, G, H, I, J, K
487	47	83	A, B, C	D, E, F, G, H, I, J, K
32	52 1/8	25	A, B, C	D, E, F, G, H, I
33	52 1/8	37 3/8	A, B, C	D, E, F, G, H, I
34	52 1/8	49 5/8	A, B, C	D, E, F, G, H, I
345	52 1/8	55 1/4	A, B, C	D, E, F, G, H, I
35	52 1/8	62	A, B, C	D, E, F, G, H, I
36	52 1/8	71	A, B, C	D, E, F, G, H, I, J, K
37 (Note 1)	52 1/8	83	A, B, C	D, E, F, G, H, I, J, K

Notes 1) Only applicable to Series 2000.

FASTENER INSTALLATION INSTRUCTIONS - FLEX21110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK:

(I) Where window is installed in an opening with a non-structural one by wood buck for the head and jambs and masonry or concrete sill, installation is as follows:

- At the head and jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concretes. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
- At the sill, apply a Structural Adhesive Sealant meeting the requirements of Note 2.b.i on FLEX20100 for the full length of the Sill.

(J) See fastener location table this sheet for concrete screw locations and any additional installation requirements.
(K) Any remaining factory applied installation fastener hole in the head at location "B" not used for concrete screw installation per the fastener location table shall be filled with a #8 wood screws of sufficient length to provide min. 5/8" embedment into wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLEX20100, Note 8 for additional wood screw requirements.

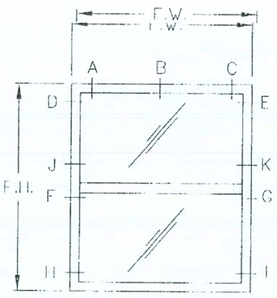
#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK (SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

(L) Where window is installed in an opening with a structural two by wood buck for the head and jambs and a masonry or concrete sill, installation is as follows:

- At the head and jambs, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
- At the sill, apply a Structural Adhesive Sealant meeting the requirements of Note 2.b.i on FLEX20100 for the full length of the Sill.

(M) If a two by and one by wood buck are used together (See Section A-A Alternate, similar for Section B-B), then #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck will be used and the one by wood buck will be secured to the two by wood buck as required in Note 4.a.ii.2 on drawing FLEX20100.
(N) #10 wood screws shall be installed at all factory applied installation fastener hole locations.
(O) Wood screws shall not be used to fasten assembly into the end grain of wood.

VIEWED FROM EXTERIOR (FASTENER LOCATIONS)



ELEVATION

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(P) If exact window size is not listed in fastener installation table, use fastener quantity listed for next larger size.
(Q) Installations depicted in these instructions acceptable for design pressures [illegible] to 70 PSF for the window sizes shown in the table. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener location table and shall be determined in accordance with Note 13 of FLEX20100.
(R) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(S) Two by wood buck and/or framing at the head and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(T) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

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2540 Jovett Lane - Sanford, FL 32771
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Florida COA No. 9235

TITLE: Milestone Series 1000, 1500 & 2000 Non-Impact Resistant Aluminum Flange Frame Single Hung Window Installation Drawing for Masonry Substrate with Concrete Screws

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0016
1	11/14/06	RJA	Revised Anchorage
2	3/02/07	RJA	Editorial Corrections

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX21110
Sheet 2 of 2

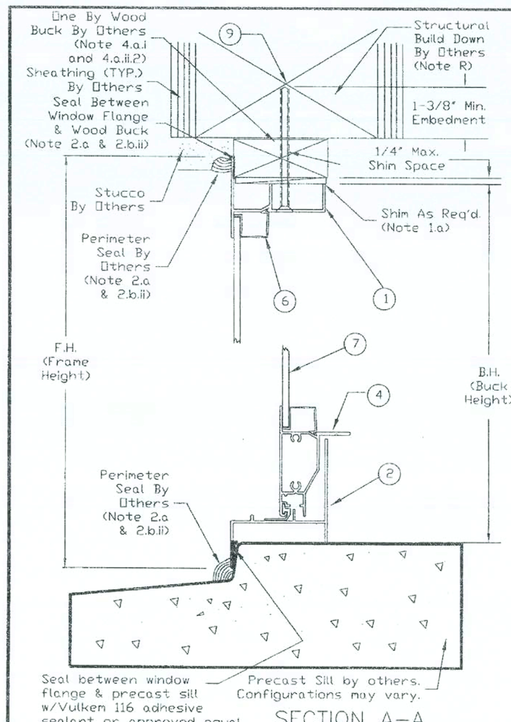
FL12.1

SHEET: 1 of 5

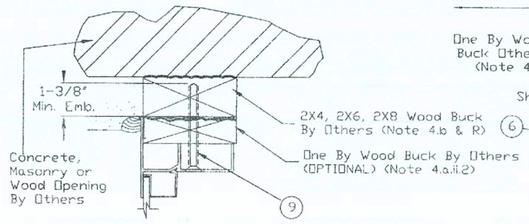
FLORIDA EXTRUDERS
WINDOWS IN BLOCK
RELEASE DATE: 09/03/08

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

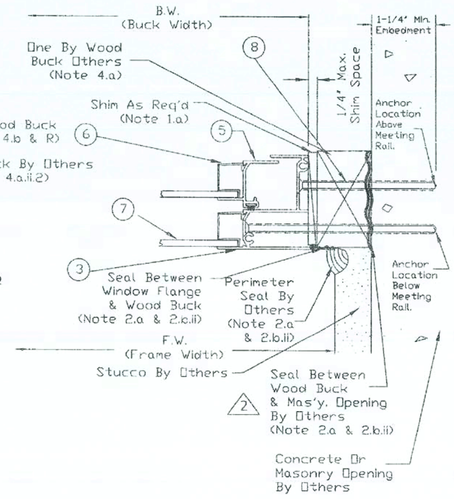
REVISIONS :



SECTION A–A



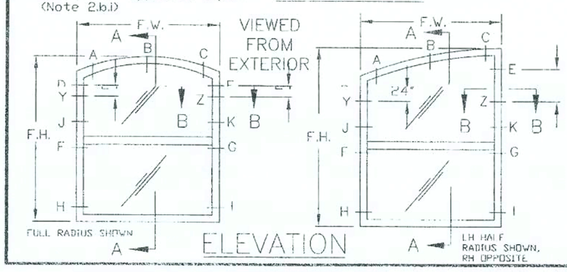
SECTION A--A (ALTERNATE) Shown. Also applicable to Section B-B for installation with two by with or w/o one by wood bucks.



PARTS LIST

1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Lift Rail - Sash
5 Jamb - Sash
6 Glazing Bead
7 Glazing - See Note (B) and (C)
8 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 180 lbs at 1 1/4" embedment. See Note (I) on this drawing and Note 7 on Drawing FLEX20100.
9 #10 Flat Head Wood or Tapping Screw with a minimum embedment of 1-3/8" into "Structural Two By Buck or Framing". See Note (K) on this drawing and Note 8 on Drawing FLEX20100. 2

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage [i.e., concrete screws, wood screws, tapping screws and Vulkem Structural Adhesive (or other approved equal) as applicable] to achieve the design pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.



ELEVATION

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.
(A) Milestone Series 1000 Single Hung Radius Head Aluminum Window is shown. Also applicable to Milestone Series 1500 and 2000 Single Hung Radius Head Aluminum Windows.
(B) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(D) For Fastener Location & Quantities see Sheet 1 & 2 of this drawing respectively. See Note (H) regarding deviations.
(E) Concrete screw edge distance measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4". Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(G) Not used.
(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

Robert J. Amoruso, P.E.
Fl. License No. 49752

ROBERT JAMES AMORUSO No. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER 3/2/07

Drawing No. FLEX22110
Sheet 1 of 2

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2540 Jewett Lane - Sanford, Fl. 32771
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Florida COA No. 9235

TITLE: Milestone Series 1000, 1500 & 2000 Non-Impact Resistant Aluminum Flange Frame Radius Head SH Window Installation Dwg. for Masonry/Wood Substrate with Concrete/Wood Screws

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0140
1	11/14/06	RJA	Revised Anchorage.
2	3/02/07	RJA	Editorial Corrections

Date: 11/14/06
Scale: NTS
Drawn By: RJA
Checked By: JH

FASTENER LOCATION TABLE (see Elevation View, Sheet 1)

Series	Size Code	Frame Width and Height: Width	Height (Full Radius)	Height (Half Radius)	Fastener Screw Location: Head (No. 10 WS)	Jambs (No. 10 WS or Concrete Screw)
1000/1500/2000	12	19 1/8	26 13/16	28 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	13	19 1/8	39 3/16	40 11/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	14	19 1/8	51 7/16	52 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	145	19 1/8	57 1/16	58 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	15	19 1/8	63 13/16	65 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	16	19 1/8	72 13/16	74 5/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	17	19 1/8	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	17	19 1/8	90	86 5/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	1H2	26 1/2	27 7/16	29 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H3	26 1/2	39 13/16	41 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H4	26 1/2	52 1/16	54 3/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H45	26 1/2	57 11/16	59 13/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H5	26 1/2	64 7/16	66 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H6	26 1/2	73 7/16	75 9/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	1H7	26 1/2	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	1H7	26 1/2	90	87 9/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	3H2	30 1/2	27 73/96	30 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H3	30 1/2	40 13/96	42 29/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H4	30 1/2	52 37/96	54 41/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H45	30 1/2	58 1/96	60 23/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H5	30 1/2	64 73/96	67 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H6	30 1/2	73 73/96	76 11/48	A, B, C	D, E, F, G, H, I, J, K
1000/1500	3H7	30 1/2	84 1/96	83 47/48	A, B, C	D, E, F, G, H, I, J, K
2000	3H7	30 1/2	90 1/96	89 47/48	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	22	37	28 5/16	31 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	23	37	40 11/16	43 11/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	24	37	52 15/16	55 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	245	37	58 9/16	61 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	25	37	65 5/16	68 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	26	37	74 5/16	77 5/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	27	37	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	27	37	90	89 5/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	482	48	29 7/32	33 7/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	483	48	41 19/32	45 25/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	484	48	53 27/32	57 37/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	4845	48	59 15/32	63 19/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	485	48	66 7/32	70 7/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	486	48	75 7/32	79 7/48	A, B, C	D, E, F, G, H, I, J, K
1000/1500	487	48	84	84 1/12	A, B, C	D, E, F, G, H, I, J, K
2000	487	48	90	90 1/12	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	32	53 1/8	29 21/32	34	A, B, C	D, E, F, G, H, I
1000/1500/2000	33	53 1/8	42 1/32	46 3/8	A, B, C	D, E, F, G, H, I
1000/1500/2000	34	53 1/8	54 9/32	58 5/8	A, B, C	D, E, F, G, H, I
1000/1500/2000	345	53 1/8	59 29/32	64 1/4	A, B, C	D, E, F, G, H, I
1000/1500/2000	35	53 1/8	66 21/32	71	A, B, C	D, E, F, G, H, I
1000/1500/2000	36	53 1/8	75 21/32	80	A, B, C	D, E, F, G, H, I, J, K
1000/1500	n/a	n/a	n/a	n/a	n/a	n/a
2000	37	53 1/8	90	90	A, B, C	D, E, F, G, H, I, J, K, Y, Z

FASTENER INSTALLATION INSTRUCTIONS - FLEX22110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK:

(I) Where window is installed in an opening with a non-structural one by wood buck for the jambs and masonry or concrete sill, installation is as follows:
(1) At the jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
(2) At the sill, apply a Structural Adhesive Sealant for the full length of the Sill meeting the requirements of Note 2.b.i on FLEX 20100.
(J) See fastener installation table on this sheet for concrete screw locations in jambs and additional installation requirements.

#10 WOOD SCREW WITH (1) STRUCTURAL BUILD-DOWN FOR RADIUS HEAD, (2) OPTIONAL STRUCTURAL TWO BY WOOD BUCK AND (3) OPTIONAL ONE BY WOOD BUCK AT HEAD AND/OR JAMBS (SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION FOR HEAD, SIMILAR FOR SECTION B-B AT JAMB):

(K) Where window is installed in an opening with a (1) structural build-down for radius head, (2) optional structural two by wood buck and (3) optional one by wood buck at head and/or jambs, installation is as follows:
(1) For structural build-down at the head and/or two by wood buck at the head and/or jambs as applicable, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck and/or or structural build-down. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
(2) For one by wood buck used in conjunction with a structural two by wood buck at the head and/or jambs as applicable use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
(3) At the sill, apply a Structural Adhesive Sealant for the full length of the Sill meeting the requirements of Note 2.b.i on FLEX 20100.
(L) If a two by and one by wood buck are used together (see Section A-A Alternate, similar for Section B-B), then #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck will be used and the one by wood buck will be secured to the two by wood buck as required in Note 4.a.ii.2 on drawing FLEX20100.
(M) #10 wood screws shall be installed at all factory applied installation fastener hole locations where applicable.
(N) Wood screws shall not be used to fasten assembly into the end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(O) If exact window size is not listed in fastener installation table, use fastener locations listed for next larger size.
(P) Installations depicted in these instructions acceptable for design pressures to 70 PSF for the window sizes shown in the chart. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.
(Q) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(R) Structural build-down at head, two by wood buck and/or framing at the head and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(S) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

FASTENER LOCATION TABLE NOTES:
1. This chart and Notes I, J, K.1, L, M and N for use when Radius Head Flange Window is installed in opening with the following attributes:
   a. Wood Structural Build-Down at Head, and
   b. Masonry/Concrete Substrate and One-By Wood Buck at Jambs.
2. Install Radius Head Flange Window using #10 Wood Screws with a 1-3/8" minimum embedment into the structural wood substrate in accordance with Notes K to N in an opening with the following attributes.
   a. Wood Structural Build-Down at Head,
   b. Optional Structural Two By Buck is installed at the head or jambs, and
   c. Optional One By Wood Buck is installed at the head or jambs.
3. See Note R regarding structural framing requirements.
4. See Sheet 1 for Fastener Location Diagrams.
5. Fasteners Y & Z applicable to Series 2000 Size 37 Only. 3/16" Hole must be drilled in field.

Drawing No. FLEX22110
Sheet 2 of 2

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TITLE: Milestone Series 1000, 1500 & 2000 Non-Impact Resistant Aluminum Flange Frame Radius Head SH Window Installation Dwg. for Masonry/Wood Substrate with Concrete/Wood Screws

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0140
1	11/14/06	RJA	Revised Anchorage.
2	3/02/07	RJA	Editorial Corrections

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

FL44.1

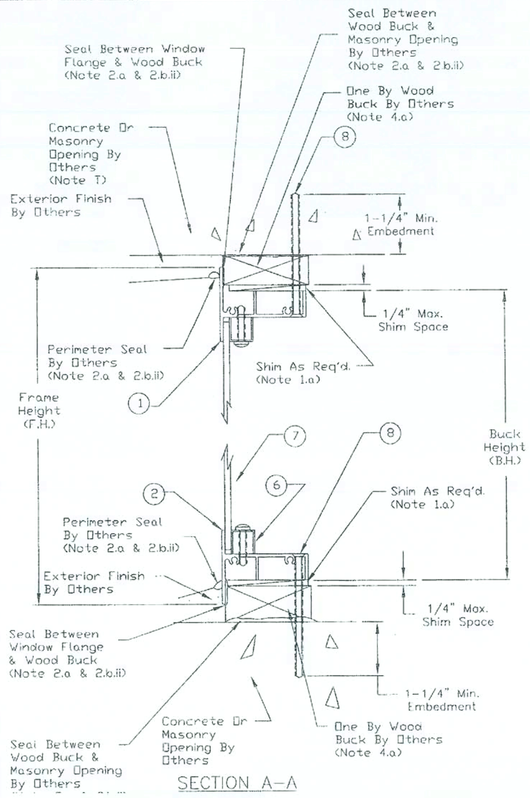
SHEET: 2 of 5

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
RELEASE DATE: 09/03/08

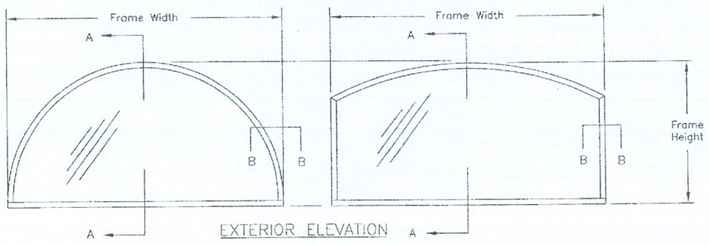
Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

REVISIONS :

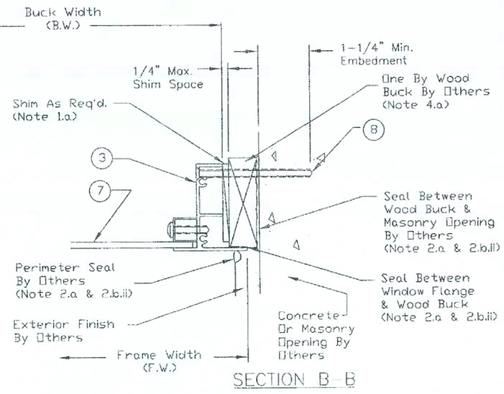
$DATE$ $TIME$ $FILE$



SECTION A–A



EXTERIOR ELEVATION



SECTION B–B

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage [i.e., concrete screws, wood screws, and tapping screws] to achieve the design pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.

(A) Milestone Series 1000 Designer Fixed Aluminum Window is shown. Also applicable to Series 2000 Designer Fixed Aluminum Windows.

(B) Drawing applicable to Non-Impact Resistant glazed windows.

(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(D) For Fastener Location & Quantities see Sheet 2 of this drawing. See Note (H) regarding deviations.

(E) Concrete screw edge distance measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and [illegible] deviations.

(G) All field supplied holes in the frame (if required) will be 3/16" in diameter for 3/16" concrete screws and #10 wood screws.

(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

PARTS LIST

1. Head - Flange Frame
2. Sill - Flange Frame
3. Jamb - Flange Frame
4. Not Used
5. Not Used
6. Glazing Bead
8. 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 180 lbs at 1 1/4" embedment. See Note (I) on Sheet 2 and Note 7 on Drawing FLEX20100.
9. #10 Flat Head Wood or Tapping Screw with a minimum embedment of 1-3/8" into "Structural Two By Buck or Framing". See Note (K) on Sheet 2 and Note 8 on Drawing FLEX20100.

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TITLE
Milestone Series 1000 and 2000
Non-Impact Resistant Aluminum Flange
Frame Designer Fixed Window
Installation Drawing for Masonry
Substrate & Concrete Header

REVISIONS

No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0035
1	1/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised edge distance terminology

Date: 1/9/07
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
FL License No. 49752

ROBERT JAMES AMORUSO LICENSE NO. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Drawing No. FLEX28110
Sheet 1 of 2

FASTENER INSTALLATION INSTRUCTIONS - FLEX28110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK AND CONCRETE BUILD-DOWN:

(I) Where window is installed in an opening with a non-structural one by wood back for the head, sill and jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.

(J) Fastener spacing shall be per Notes (N), (P) and (Q) below.

#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK AND CONCRETE BUILD-DOWN. USED WHEN TWO BY BUCK EMPLOYED IN LIEU OF ONE BY BUCK (THIS CONFIGURATION NOT SHOWN):

(K) Where window is installed in an opening with a structural two by wood buck for the head, sill and jambs, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.

(L) Wood screws shall not be used to fasten assembly into the end grain of wood.

(M) Fastener spacing shall be per Notes (O), (P) and (Q) below.

FASTENER SPACING (See Elevation View on this Sheet):

(N) Concrete screw spacing shall be as follows:
- 5" maximum from each corner of head, sill or jambs,
- evenly spaced between corner anchors but not exceeding 15" o.c. spacing in head, sill or jambs of quarter circle, quarter-circle arch and half-fan configurations, or
- evenly spaced between corner anchors but not exceeding 18" o.c. spacing in head, sill or jambs of all other configurations not mentioned above, and
- tolerance is +/- 1", and
- this tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from tip of frame.

(O) #10 wood screw spacing shall be as follows:
- 5" maximum from each corner of head, sill or jambs,
- evenly spaced between corner anchors but not exceeding 12" o.c. spacing in head, sill or jambs for the following configurations,
  - o eyebrow
  - o half-circle arch
  - o half-eyebrow
  - o octagon
  - o fan
  - o pentoid
  - o full-circle
  - o half-circle
  - o triangle
  - o trapezoid
  - o oval
- evenly spaced between corner anchors but not exceeding 9" o.c. spacing in head, sill or jambs for the following configurations,
  - o quarter-circle
  - o quarter-circle arch
  - o half-fan
- tolerance is +/- 1", and
- this tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from tip of frame.

(P) Spacing in Note (N) and (O) above based on the use of either a concrete screw or #10 wood screw as required for securing the window frame into the substrate as follows (see illustration this sheet).
- Concrete screw into concrete or masonry using a non-structural One By Wood Buck.
- #10 wood screw into a Two By Wood Buck structurally attached to concrete or masonry substrate.

(Q) If configuration requires combination of concrete screw and #10 wood screw in either a head, sill or jamb, the lower of the maximum spacings above shall be used.

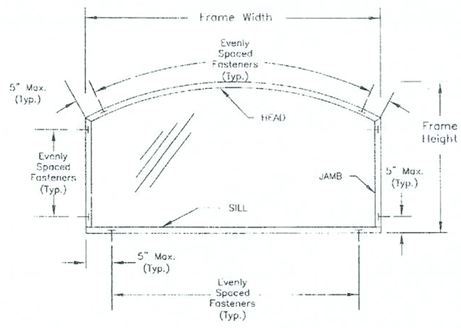
DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(R) Installations depicted in these instructions acceptable for design pressures to 70 PSF. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.

(S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(T) Concrete Header at head and/or two by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.

(U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.



EXTERIOR ELEVATION

FASTENER SPACING ILLUSTRATION
EYEBROW ARCH DESIGNER WINDOW SHOWN AS EXAMPLE

EXAMPLE:

HEAD (CURVED PORTION) SECURED TO CONCRETE HEADER, JAMBS OR SILL SECURED TO CMU AND CAST-SILL RESPECTIVELY WITH ONE BY BUCK

USE 3/16" DIA. CONCRETE SCREWS AT 18" O.C. SPACING BETWEEN ANCHORS AND SPACED 5" MAXIMUM FROM CORNERS.

– or –

HEAD (CURVED PORTION), JAMBS OR SILL SECURED TO STRUCTURAL TWO BY BUCK (ATTACHED TO CONCRETE HEADER, JAMBS OR SILL)

USE #10 WOOD SCREWS AT 12" O.C. SPACING BETWEEN FASTENERS AND SPACED 5" MAXIMUM FROM CORNERS. (NOTE: 12" SPACING FOR EXAMPLE EYEBROW APPLICATION. OTHER APPLICATIONS MAY REQUIRE 9" SPACING PER NOTE (O))

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TITLE
Milestone Series 1000 and 2000
Non-Impact Resistant Aluminum Flange
Frame Designer Fixed Window
Installation Drawing for Masonry
Substrate & Concrete Header

REVISIONS

No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0035
1	1/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised edge distance terminology

Date: 1/9/07
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX28110
Sheet 2 of 2

FL44.1

SHEET: 3 of 5

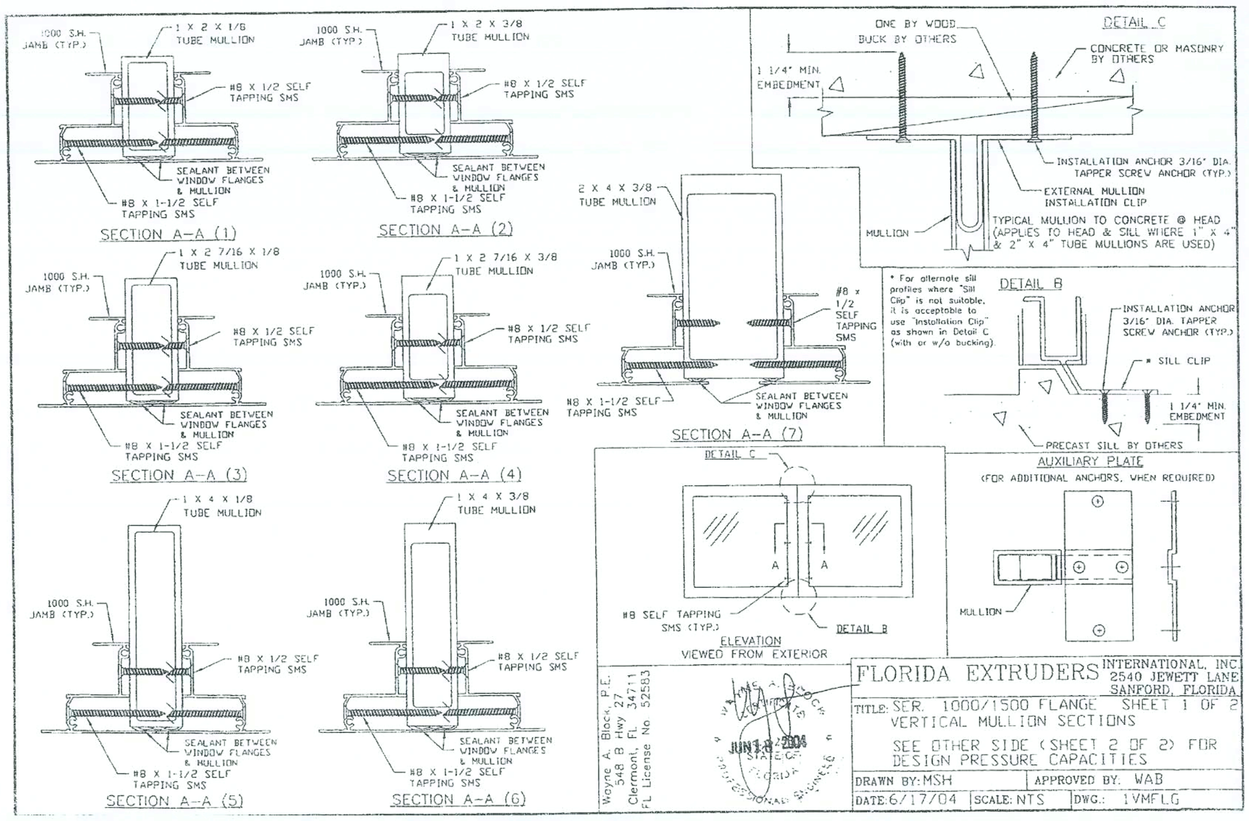
FLORIDA EXTRUDERS
WINDOWS IN BLOCK

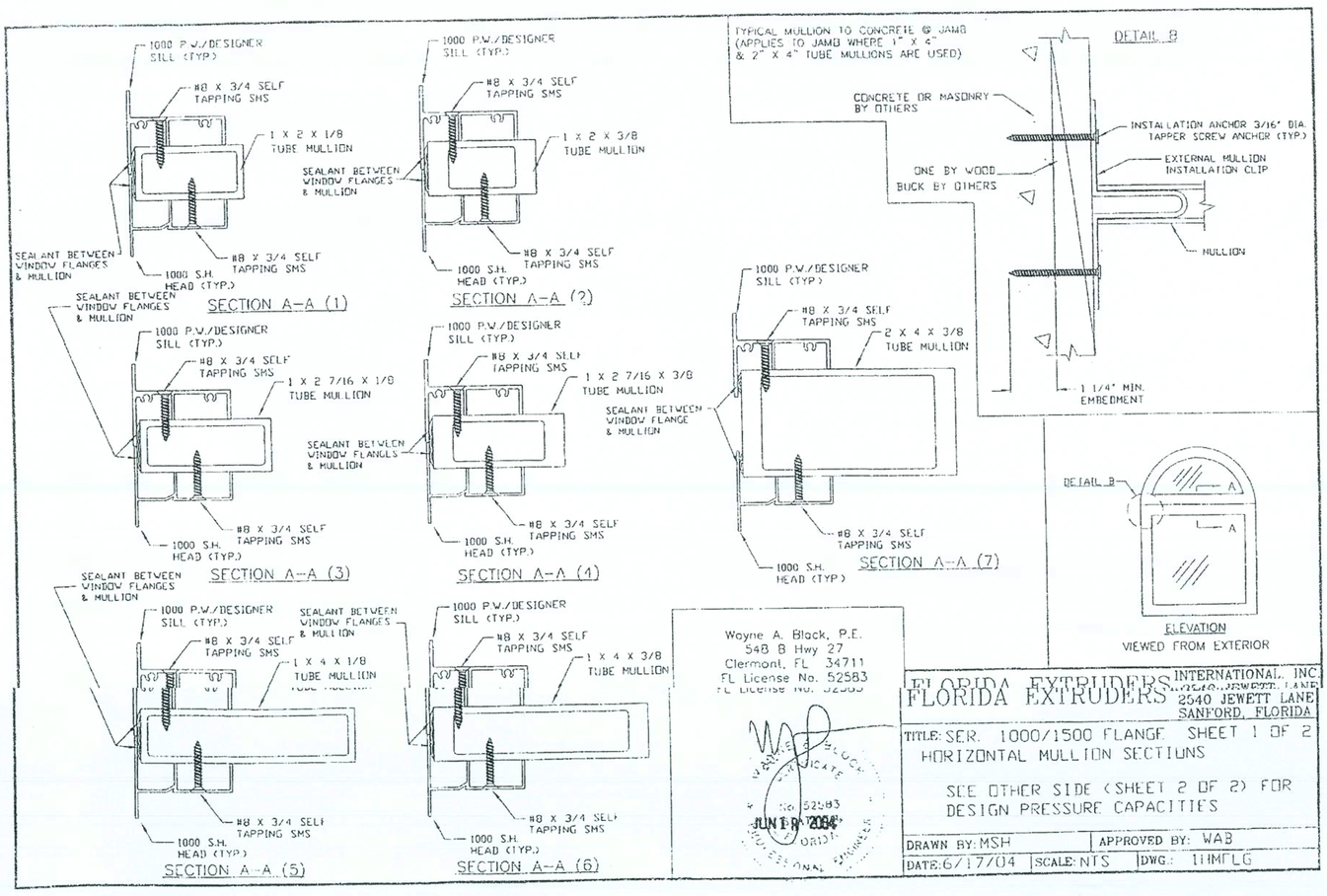
RELEASE DATE: 09/03/08

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

REVISIONS :

$DATE$ $TIME$ $FILE$





FL3136-R2

SHEET: 4 of 5

FLORIDA EXTRUDERS

WINDOW MULLIONS

RELEASE DATE: 09/03/08

Maronda Homes

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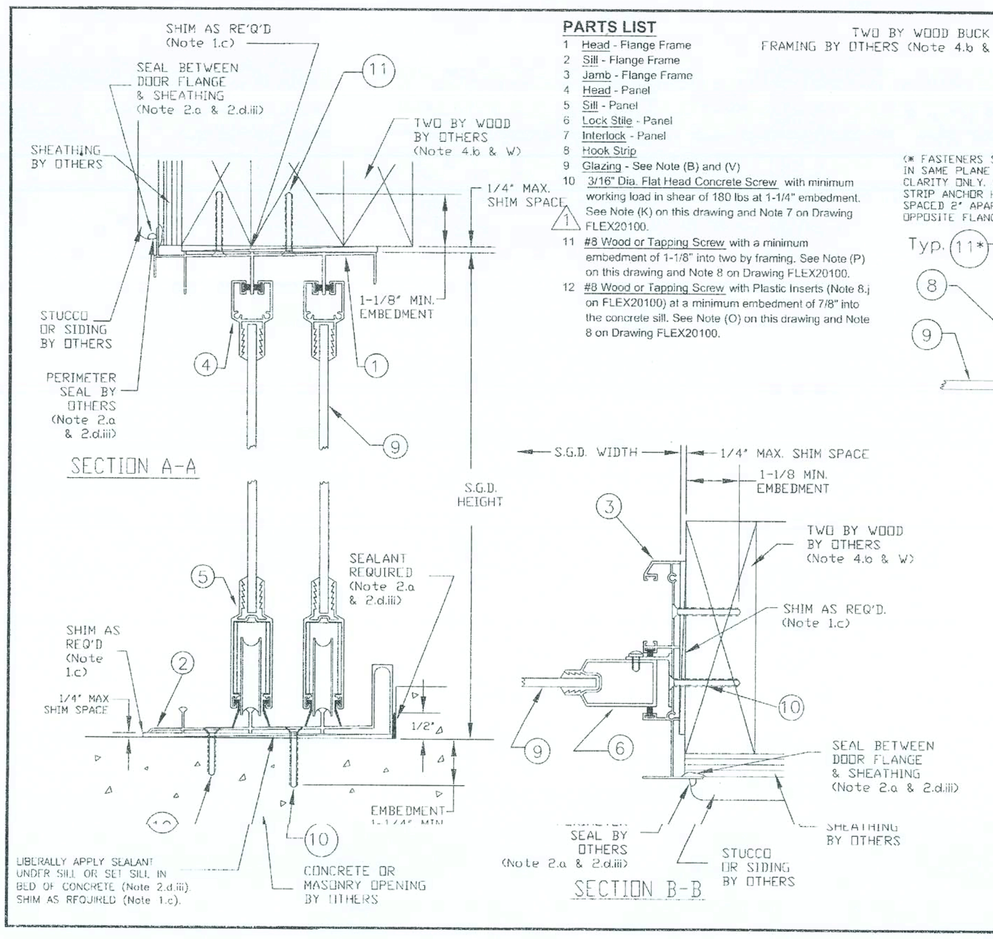
REVISIONS :

FL45.1



PARTS LIST

1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Head - Panel
5 Sill - Panel
6 Lock Stile - Panel
7 Interlock - Panel
8 Hook Strip
9 Glazing - See Note (B) and (V)
10 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 180 lbs at 1-1/4" embedment. See Note (K) on this drawing and Note 7 on Drawing FLEX20100.
11 #8 Wood or Tapping Screw with a minimum embedment of 1-1/8" into two by framing. See Note (P) on this drawing and Note 8 on Drawing FLEX20100.
12 #8 Wood or Tapping Screw with Plastic Inserts (Note 8.j on FLEX20100) at a minimum embedment of 7/8" into the concrete sill. See Note (O) on this drawing and Note 8 on Drawing FLEX20100.

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage [i.e., concrete screws, wood screws and tapping screws] to achieve the design pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC)...Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

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TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Flange Frame Sliding Glass Door Installation Drawing for Concrete Sill w/Concrete Screws & Wood Substrate w/#8 Wood Screws

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0327
1	3/02/07	RJA	Revised for new testing

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

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Drawing No. FLEX24111
Sheet 1 of 2

Fastener Installation Chart

Size Code	Configuration	Size Width	Size Height	Required Quantities of Fasteners Jamb (No. 8 WS)	Head (No. 8 WS)	Sill (3/16" CS)	Hook Strip (No. 8 WS)
4068	XX, OX, XO	48	80	8	6	3 (D0)	8
5068	XX, OX, XO	60	80	8	6	3 (D0)	8
6068	XX, OX, XO	72	80	8	8	4 (D0)	8
8068	XX, OX, XO	96	80	8	10	5 (D0)	8
10068	XX, OX, XO	120	80	8	12	7 (D1)	8
5080	XX, OX, XO	60	96	10	6	3 (D0)	10
6080	XX, OX, XO	72	96	10	8	4 (D0)	10
8080	XX, OX, XO	96	96	10	10	5 (D0)	10
10080	XX, OX, XO	120	96	10	12	8 (D2)	10
50100	XX, OX, XO	60	120	12	6	3 (D0)	12
60100	XX, OX, XO	72	120	12	8	4 (D0)	12
80100	XX, OX, XO	96	120	12	10	5 (D0)	12
9068	OXO	109 1/8	80	8	10	6 (D1)	8
12068	OXO	145 1/8	80	8	14	9 (D2)	8
15068	OXO	181 1/8	80	8	16	12 (D4)	8
9080	OXO	109 1/8	96	10	10	7 (D2)	10
12080	OXO	145 1/8	96	10	14	10 (D3)	10
15080	OXO	181 1/8	96	10	16	14 (D6)	10
90100	OXO	109 1/8	120	12	10	7 (D2)	12
120100	OXO	145 1/8	120	12	14	11 (D4)	12
9068	XXX	106 5/8	80	8	10	6 (D1)	8
12068	XXX	142 5/8	80	8	14	9 (D2)	8
15068	XXX	178 5/8	80	8	16	12 (D4)	8
9080	XXX	106 5/8	96	10	10	6 (D1)	10
12080	XXX	142 5/8	96	10	14	10 (D3)	10
15080	XXX	178 5/8	96	10	16	14 (D6)	10
90100	XXX	106 5/8	120	12	10	7 (D2)	12
12100	XXX	142 5/8	120	12	14	11 (D4)	12
10068	OXXO	119 5/8	80	8	12	7 (D1)	8
12068	OXXO	143 5/8	80	8	14	9 (D2)	8
16068	OXXO	191 5/8	80	8	18	13 (D4)	8
10080	OXXO	119 5/8	96	10	12	8 (D2)	10
12080	OXXO	143 5/8	96	10	14	10 (D3)	10
16080	OXXO	191 5/8	96	10	18	15 (D6)	10
100100	OXXO	119 5/8	120	12	12	8 (D2)	12
120100	OXXO	143 5/8	120	12	14	11 (D4)	12
160100	OXXO	191 5/8	120	12	18	17 (D8)	12
10068	XXXX	117 1/4	80	8	12	7 (D1)	8
12068	XXXX	141 1/4	80	8	14	9 (D2)	8
16068	XXXX	189 1/4	80	8	18	13 (D4)	8
10080	XXXX	117 1/4	96	10	12	8 (D2)	10
12080	XXXX	141 1/4	96	10	14	10 (D3)	10
16080	XXXX	189 1/4	96	10	18	15 (D6)	10
100100	XXXX	117 1/4	120	12	12	8 (D2)	12
120100	XXXX	141 1/4	120	12	14	11 (D4)	12
160100	XXXX	189 1/4	120	12	18	17 (D8)	12

Fastener Installation Chart Notes:

1) In some cases concrete screws are only required in one of the factory applied installation hole sets (i.e., a hole set being the two holes lying in a plane perpendicular to the width of the door frame). In those cases designated as "D0" in the installation chart, one of the holes will receive a Concrete Screw and the remaining holes will be filled in accordance with Notes O and P.
2) In some cases concrete screws are required in both factory applied installation hole sets. "D1" through "D8" designates in which size & configurations two concrete screws are required. The remaining holes will be filled in accordance with Notes O and P.
a) "D1" means, install two concrete screws in one set of installation holes.
b) "D2" means, install two concrete screws in two sets of installation holes.
c) "D3" means, install two concrete screws in three sets of installation holes.
d) "D4" means, install two concrete screws in four sets of installation holes.
e) "D5" means, install two concrete screws in five sets of installation holes.
f) "D6" means, install two concrete screws in six sets of installation holes.
g) "D7" means, install two concrete screws in seven sets of installation holes.
h) "D8" means, install two concrete screws in eight sets of installation holes.
3) Location of additional concrete screws in head & sill should be prioritized as follows:
a) First adjacent to interlock or butt stiles in head & sill.
b) Secondly, at each end of head & sill near jamb corner, if needed.
c) Locations in head & sill other than as listed in a & b.
4) Location of additional concrete screws in jambs should be prioritized as follows:
a) First adjacent to locks in jambs.
b) Secondly, at each end of jambs near head & sill corners.
c) Locations in jambs other than as listed in a & b.
5) CS = concrete screw and WS = wood screw

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.
(A) Milestone Series 1000 Sliding Glass Door is shown. Also applicable to Milestone Series 2000 Sliding Glass Door.
(B) Drawing applicable to Non-Impact Resistant Sliding Glass Doors glazed with 3/16" fully tempered glass. See Note (V).
(C) Where "X" represents moving panel and "O" represents fixed panel, approved configurations are as listed on the fastener installation chart on Sheet 2.
(D) Not all configurations listed on the fastener chart are shown on this drawing, however installation sections "A-A", "B-B" & Hook Strip Detail apply to installation of all approved configurations.
(E) For pocket door configurations, use closest by-pass door size and configuration in the chart to the finished opening of the pocket door.
(F) Concrete screw edge distance measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4". Minimum size and embedment per Parts List. See Note (J) regarding deviations.
(G) Wood or tapping screw edge distance measured from edge of wood receiving the point to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (J) regarding deviations.
(H) All field supplied holes in the frame (if required) will be 3/16" in diameter.
(I) Wood screw withdrawal values used to generate the fastening requirements are based on Spruce-Pine-Fur with a Specific Gravity of 0.50. See Note (J) regarding deviations.
(J) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

FASTENER INSTALLATION INSTRUCTIONS - FLEX24111

3/16" DIA. CONCRETE SCREW WITH SILL:

(K) Where door is installed in an opening with a masonry or concrete sill, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
(L) See fastener installation chart this sheet for concrete screw quantities and additional installation requirements.
(M) Install one concrete screw in each pair of factory applied installation holes unless noted otherwise on the fastener installation chart. It is acceptable to install a 3/16" diameter concrete screw with a 1-1/4" embedment in all holes in the sill which will exceed the minimum requirements of the Fasterner Installation Chart.
(N) Alternate concrete screw installation fasteners front to back in the sill frame member when both sets of holes are not used.
(O) All remaining factory applied installation fastener holes in the sill not used for concrete screw installation shall be anchored with plastic anchors (see FLEX20100, Note 8.j for details) and #8 wood screws of sufficient length to provide min. 7/8" in. embedment into the concrete or masonry. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLEX20100, Note 8 for additional wood screw requirements.

#8 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK FOR HEAD, JAMBS AND POCKET DOOR HOOK STRIP:

(P) Where the head, jambs and pocket door hook strip is installed in a wood opening with a structural two by wood buck and/or framing, use #8 wood screws of sufficient length to achieve 1-1/8" minimum embedment into the two by wood buck and/or framing receiving the point at all factory applied installation holes. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLEX20100, Note 8 for additional wood screw requirements.
(Q) See fastener installation chart this sheet for #8 wood screw requirements in jamb(s), head and hook strip.
(R) Not used.
(S) Wood screws shall not be used to fasten assembly into end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(T) If exact door size is not listed in fastener installation chart, use fastener quantity listed for next larger size, for the appropriate design pressure required.
(U) Installations depicted in these instructions acceptable for design pressures to 55 PSF for the window sizes shown in the chart. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.
(V) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(W) Two by wood and/or framing to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(X) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

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TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Flange Frame Sliding Glass Door Installation Drawing for Concrete Sill w/Concrete Screws & Wood Substrate w/#8 Wood Screws

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0327
1	3/02/07	RJA	Revised for new testing

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX24111
Sheet 2 of 2

SHEET: 5 of 5

FLORIDA EXTRUDERS
SLIDING GLASS DOORS IN BLOCK
RELEASE DATE: 09/03/08

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

REVISIONS :

PRODUCT APPROVAL INFORMATION SHEET FOR FLORDA

PROJECT NAME:_____ PERM # _____

PROJECT ADDRESS: _____

As required by Florda Statute 553.842 and Florda Administrative Code 9b-72. Please provide the information anoproduct approval number(s) for the building components listed below as applicable to the building construction project for the permint number ted above. You should contact you product supplier if you do not know the product approval number for any of the applicable listed produc. Information regarding statewide product approval may be obtained at: www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc.	Fiberglass Doors	Evaluated for use in locations adhering to the Florda Building Code and hwere pressure requirements as determined by ACSE 7 Minimum Design Loads For Building and Other Structures.	L 6729.1 L 6729.5	+ 50 / -50 + 50 / -50
2. Sliding	Simonton/Norandex Florda Extruders	Sliding Glass Doors	500 72X80 SGD-R45 Milestone 1000 SGD	F 5979.1 F 45.1	+ 50 / -50 +45 / -45
3. Sectional					
4. Roll up	Wayne Dalton	Garage Doors 130 16' 9100 / 5120 8' Garage Doors 140 16' 9100 / 5120 8'	As indicated in evaluation report and installation drawings. Not to be used in HVHZ.	F 5287.1 F5287.3 F 9174.4 F 9174.5	+26.9 /-30.8 +25.9 /-28.8 +43.2 /-49.6 +39.2 /-43.7
B. WINDOWS					
1. Single Hung	H-R Windows Danvid Window Co Florda Extruders	300 Fin Single Hung 341 Flange Frame S.H. Milestine 1000 S.H.	40-17 72x74 H-r45	F5089.1 F 2752.1 F 42.1	+45 / -45 +55 / -55 +45 / -45
2. Horizontal Slider					
3. Casement					
4. Double hung					
5. Fixed	H-R Windows Danvid Window Co Florda Extruders	300Fin Frame Fixed341 Flange Frame Fixed Milestone 1000 Fixed	437.438 111X63 F-C60 3/16 Tempered Glass Flange & Fin	F 1291.2 F 2349.1 F 44.1	+55 / -55 +70 / -70 +45 / -45
6. Awning					
7. Pass-through					
8. Projected					
9. Mullion	H-R Windows Florda Extruders	Mullions Milestone Tube Mull Fin Or Flange	Evaluated for use in locations adhering to the Florda Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads for Building and Other Structures.	F.5782 F13136-R2	+45 / -45
10. Wind breaker					
11. Dual action					
12. Other					
C. PANEL WALL					
1. Siding	Owen Corning	Norandex - Summit Manor Dbl 4.5 Butch Lap Reynolds - Easy Street Dbl 4.5 Dutch Lap	This Evaluation is not for use within the FBC HVHZ or on Education Facilities within the State of Fiordia. Vinyl Siding is limited to Type V construction, as defined below. Section 602.5- TYPE V CONSTRUCTION Type V construction is the type of construction in which the structural elements, exterior walls and interior walls are of ant material permitted by this code. Compliance is valid only if the subject profile trade name is current on the VSI Vinyl Siding Certification Program.	F 920.3 F 920.7	+NA / -152 +NA / -152
2. Soffit	Alsco Metal Corp	16" Vented Soffit Quad 4 Aluminum Soffit	For use as soffit only. Not for use in HVHZ	F14459.1	46.71 PSF
D. ROOFING PRODUCTS					
1. Asphalt shingles	Owens Corning	Asphalt Shingle Ridge Vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed	F 3663 F 234	
2. Underlayments					
3. Roofing fasteners					
4. Nonstructural metal roof					
5. Built- up roofing					
6. Modified bitumen	Polyglass	Two layer torch down	The max design pressure for the selected assembly shall meet or exceed the Zone I design pressure determined in accordance with FBC chapter 16.	F11654.8 F11654.9	
7. Single ply roofing					
8. Roofing tiles					
9. Roofing Insulation					
10. Waterproofing					
11. Wood shingles/shakes					
12. Roofing slate					

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
D. ROOFING PRODUCTS cont.					
13. Liquid applied roofing					
14. Cement-adhesive coats					
15. roof tile adhesive					
16. Spray applied polyurethane roof					
17. roof vents	Owens Corning Stamco Inc. Lamanco	Galvanized metal roof vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 5289.1 FL 8103.1 FL 3792.5	
E. SHUTTERS					
1. Storm Panels	Atrium Shutters, Inc. K&D Manufacturing All American Shutters, Inc.	5L Panel Galv. Stl Storm	This product may only be installed on concrete, hollow concrete block or wood substrates. This product is NOT suitable for installation in the High Velocity Hurricane Zone.	FL 5547.1 FL 2773.1 FL 393.1	50 PSF +47 / -50
F. STRUCTURAL COMPONENTS					
1. Wood connector/anchor	United Steel Products	Anchors, Hangers Etc. Structural Components Wood Connectors	Subject to limitation and installation instructions specified in NOA 05-0105.05	FL.RI, 565, 569, 572, 576, 815, 816, 817, 818, 819, 820, 821, 822, 859, 1247, 1777, 2033, 2620, 3923, 4928, 5631, 6223	
2. Truss plates	Mitek Industries Inc	Truss Connectors	No Limitation of Use.	FL 2197 RI	
3. Engineered lumber					
4. Railing					
5. Coolers-freezers					
6. Concrete admixtures					
7. Material					
8. Insulation forms					
9. Plastics					
10. Deck-roof					
11. Wall					
12. Sheds					
13. Other	Powers Steel Inc.	PSbox8 PSbox8(5 5/8)	Lintels shall not exceed the allowable design load and spans. The lintels shall not be used in a fire resistance rated assembly. A proper barrier is required when using corrosive lumber products in contact with steel lintels. Not for use in HVHZ Miami or Broward counties at this time.	6264.1	N/A
G. SKYLIGHTS					
1. Skylight					
2. Other					
H. NEW EXTERIOR ENVELOPE PRODUCTS					
1.					
2.					

EACH MANUFACTURER'S ENGINEER OF RECORD RETAINS FULL AND SOLE RESPONSIBILITY FOR THE DESIGN AND FUNCTION OF THE LISTED PRODUCT APPROVAL

In addition to completing the above list of manufacturers, product description and State approval number for the products used on this project, it is the Contractor's or Authorized Agent's reponsibility to have a legible copy of each manufacturer's printed instructions, along with the list above, on the job site available to the Inspector.

The products listed below did not demonstrate product approval at time of plan review. I understand that before these products can be inspected, they must be submitted for review for code compliance and approved by the Plans Examiner. This form will be revised to include each new product in the categories listed above and will be highlighted to indicate the new products and required information.

_____ _____ _____

Authorized Project Agent: _____ _____ _____
(Contractor or Design Professional) (Print Name) (Signature)

Company Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Cell Phone Number: ( ) _____ E-mail Address: _____

REVISIONS :
10-29-07 UPDATE LISTS
01-21-08 UPDATE ROLL UP DOORS
08-14-08 ADDED POWERS STEEL LINTELS
09-16-08 ADDED MANUF. ENGRS NOTE

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND2005, 2006 SUPLEMENT.

PRODUCT APPROVAL

GARAGE:

DRAWN BY:

RELEASE DATE:

SHEET:

PLOT DATE: 17 SEP 2008 14:47:49

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