KC

(GTNM42B) GEORGETOWN 4-M

FLORIDA DESIGN CRITERIA
REVISED 01-05-09

BUILDING DATA

FLORIDA BUILDING CODE 2007 : RESIDENTIAL
FLORIDA BUILDING CODE 2007 : PLUMBING
FLORIDA BUILDING CODE 2007 : MECHANICAL
FLORIDA BUILDING CODE 2007 : FUEL GAS

NATIONAL ELECTRICAL CODE 2005

STRUCTURAL DESIGN PARAMETERS: ASCE 7-05 (PER FRC 2007 : SECTION R301.2.1.1)

CLASSIFICATION : 2

OCCUPANCY: RESIDENTIAL

BUILDING DESIGN: ENCLOSED

EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

IMPORTANCE FACTOR: 1.0

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

DESIGNED WIND SPEED:
125 MPH - 3 SEC. GUST
(FRC 2007: R301.2.1.3)

HEIGHT LIMITS:
NUMBER STORIES: ONE STORY
BUILDING MEAN 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 2007, 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 2007, 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 2007, 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 2007, 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 2007, SECTION R301.2.1.2)

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

INDEX OF DRAWINGS

REVISIONS :

03-01-09 REV. CODE INFORMATION

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

9TM01801, JAX
Lot 18-1, 9TM

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION 301.2 OF THE FLORIDA BUILDING CODE, 2001 RESIDENTIAL.
ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.
EXPOSURE B, ENCLOSED BUILDING, H=0

DESIGN'D WIND SPEED:
125mph - 3 sec.GUST

P:\Y:\houses_05\georgetown4\arch_r\gtn\gtn4m-r.000

AMERICANA — COVER SHEET
GEORGETOWN 4
ELEVATION "M"
GARAGE: RIGHT
DRAWN BY:
RELEASE DATE: 04-04-06

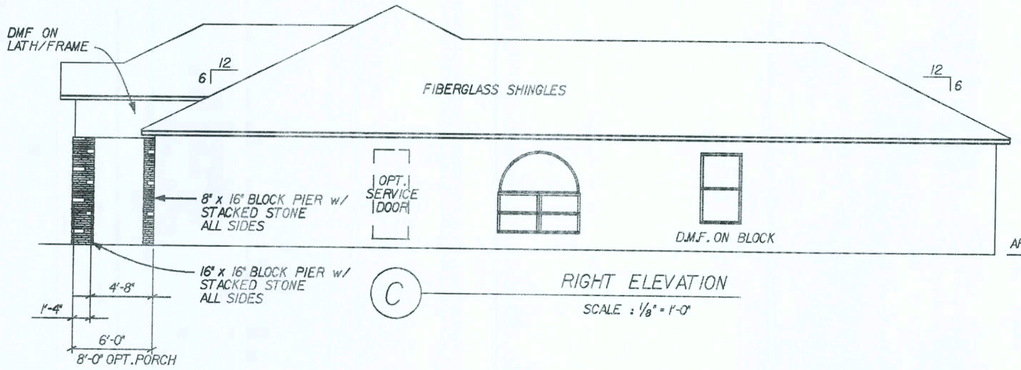
08.25.13

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

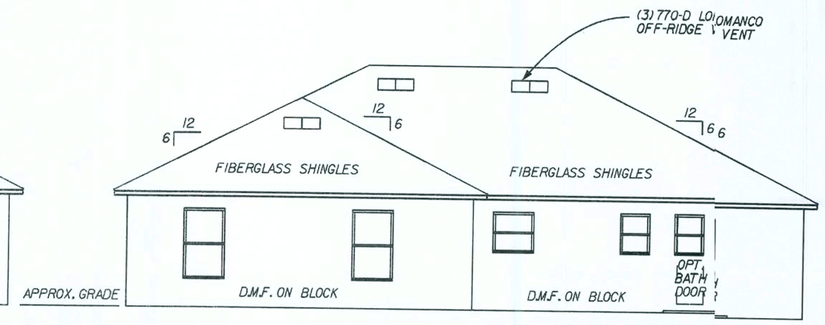
Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:
0m

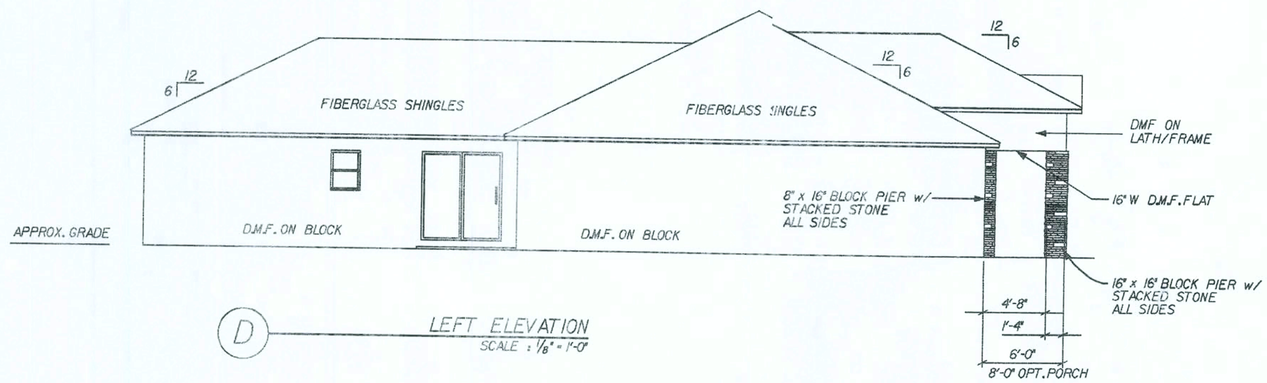
PLOT DATE: 16 MAR 2009



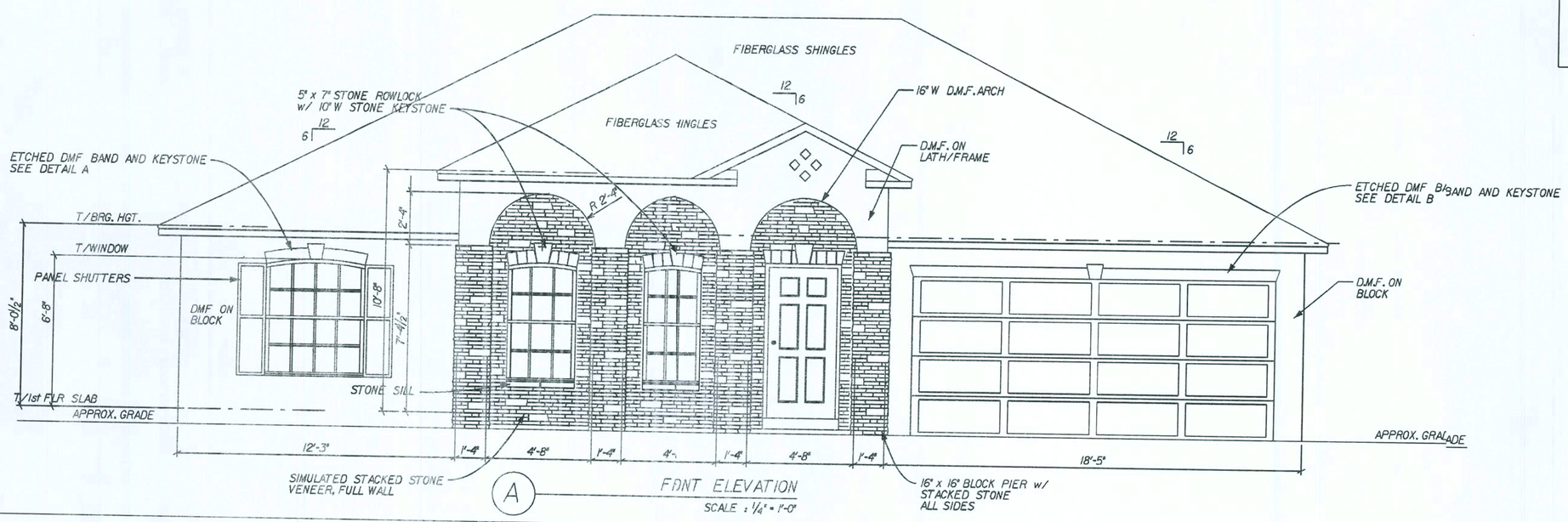
C — RIGHT ELEVATION
SCALE : 1/8" = 1'-0"



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



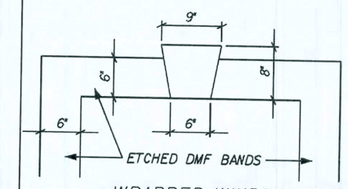
D — LEFT ELEVATION
SCALE : 1/8" = 1'-0"



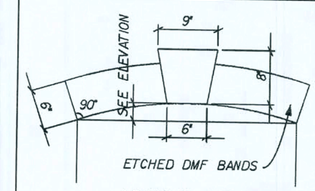
A — FRNT ELEVATION
SCALE : 1/4" = 1'-0"

GENERAL ELEVATION NOTES:

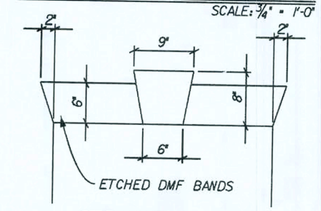
1. DMF • DECO MASONRY/STUCCO FINISH SHALL COMPLY WITH THE REQUIREMENTS OF ATSM C926 AND C1063.
2. EAVE & GABLE OVERHANGS 12" ALUM FASCIA AND SOFFITS. PLUMB CUT WITH LEVEL RETURNS.
3. 7/8" MIN. THICKNESS DMF OVER LATH/FRAME AND 1/2" MIN. THICKNESS OVER BLOCK
4. DMF/STUCCO INSTALLED OVER PAPER-BACKED LATH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



WRAPPED WINDOW TRIM
SCALE: 3/4" = 1'-0"



ARCH HEADER TRIM
SCALE: 3/4" = 1'-0"



STRAIGHT HEADER TRIM
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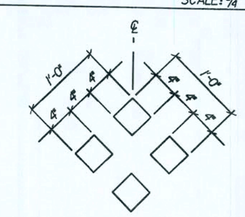


TYP. ETCHED DIAMONDS
SCALE: 3/4" = 1'-0"

REVISIONS:
REVISED 01-05-06
03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

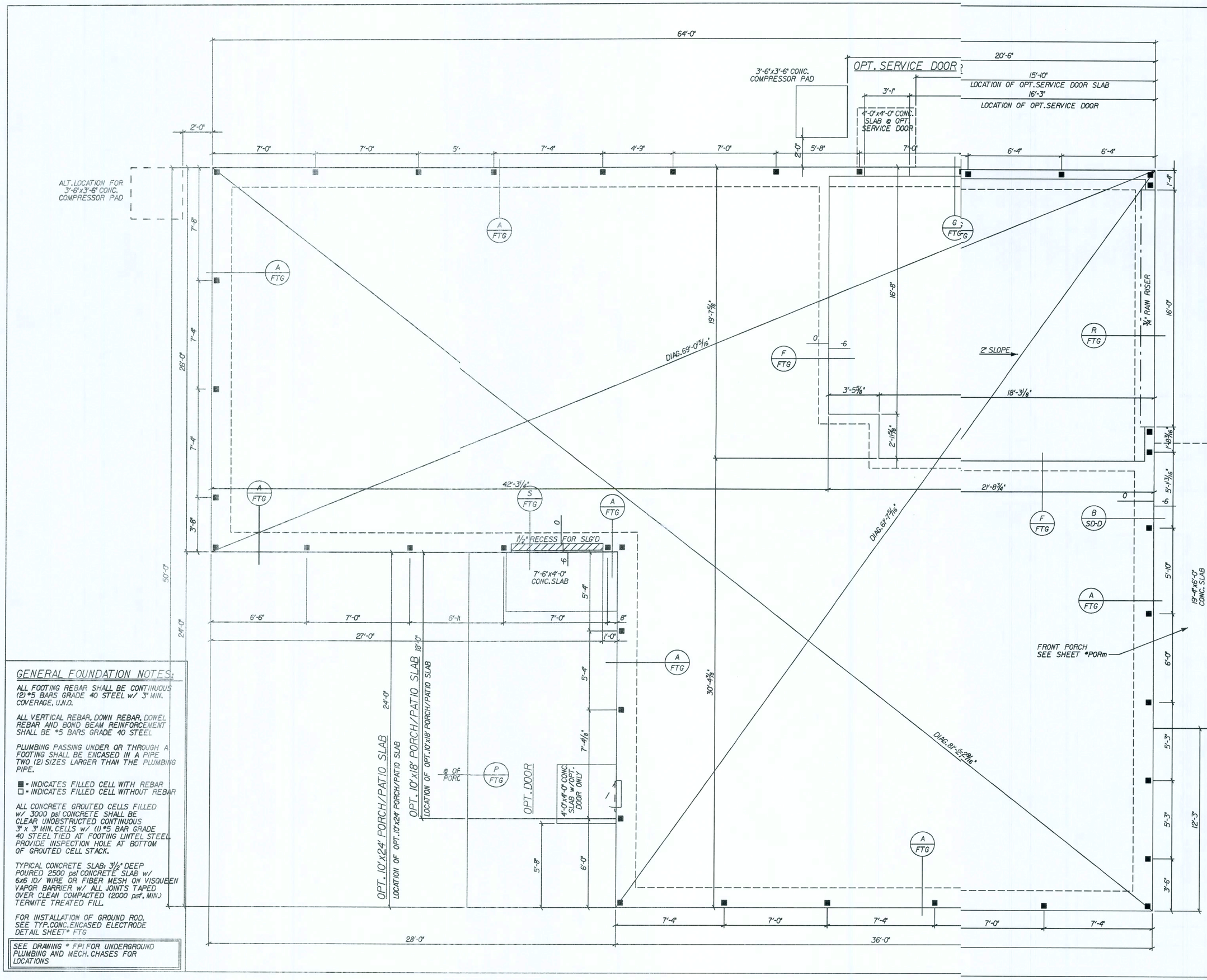
AMERICANA
EXT. ELEVATION
GEORGETOWN 4
ELEVATION "M"
GARAGE: RIGHT
DRAWN BY:
RELEASE DATE: 04-04-06
08:25a14
PLOT DATE: 16 MAR 2009
pw:\houses_05\georgetown4\std_right\gtn4m-r.001

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

Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:
1m

FLORIDA BUILDING CODE 2007 : RESIDENTIAL



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: 3 1/2" 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 * FP1 FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

REVISIONS :

03-01-09 REV. CODE INFORMATION

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL. ALL CONNECTIONS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING, HO

DESIGN'D WIND SPEED: 125mph - 3 sec. GUST

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AMERICANA — FOUNDATION PLAN

GEORGETOWN 4

ELEVATION "M"

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 04-04-06

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

Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET: 2m

PLOT DATE: 16 MAR 2009 08:25:46

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

OPENING PRESSURES:

	A	B	C	D	E
125mph	+28.1 / -30.5	+23.7 / -26.4	+28.1 / -37.6	+24.8 / -28.0	+24.2 / -27.1
140mph	+35.3 / -38.2	+29.7 / -33.1	+35.3 / -47.2	+31.0 / -35.1	+31.0 / -35.1

REVISED 01-06-09

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.

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 #WI FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

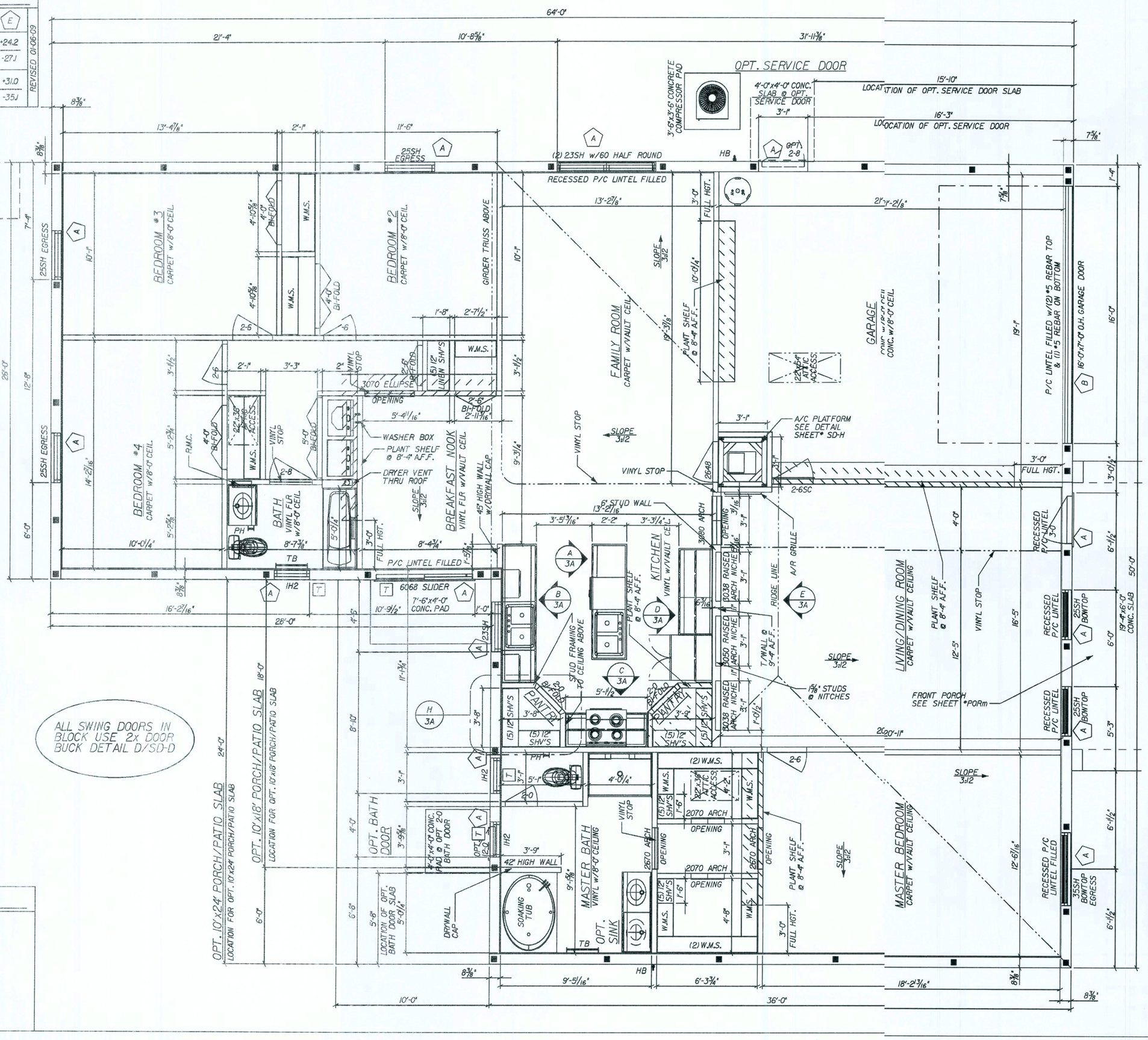
PROVIDE HEADER w/ (1) 2x4 JACK AND (1) 2x4 STUD, EACH SIDE OF OPENING (NO STRAPPING REQUIRED, U.N.O) HDR TO BE NO.2 SYP. SEE PLAN FOR SIZE

ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR = MIN. 1⅜" THICK SOLID CORE DOOR.
■ = INDICATES FILLED CELL WITH REBAR
□ = INDICATES FILLED CELL WITHOUT REBAR

SQUARE FOOTAGE:

1st FLOOR LIVING	2099 SQ. FT.
GARAGE AREA	429 SQ. FT.
COVERED ENTRY	116 SQ. FT.
TOTAL AREA	2644 SQ. FT.



REVISIONS :

03-01-09 REV. CODE INFORMATION

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

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DESIGN WIND SPEED: 125mph - 3 sec GUST

D:\N\houses_05\georgetown\arch_r\georgtn4rr.003

AMERICANA | FLOOR PLAN
GEORGETOWN 4
ELEVATION "M"

DRAWN BY: | GARAGE: RIGHT
RELEASE DATE: 04-04-06

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

Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET: 3m

PLOT DATE: 16 MAR 2009 08:25a/r

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

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 EVERYHOLE

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.
1H2	27 1/4 X 26	2,5							
23	37 3/4 X 38 1/4"	2,5							
25	37 3/4 X 63	2,5							

SINGLE HUNG EYEBROW

SIZE	SINGLE M.O.	FAST.
35	53 7/8 X 68 11/16	3,5

HALF ROUND MULLED TO UNIT - SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.
(2)23 w/ 6'-0" CT	74 3/4 X 77 3/8"	2,5,7

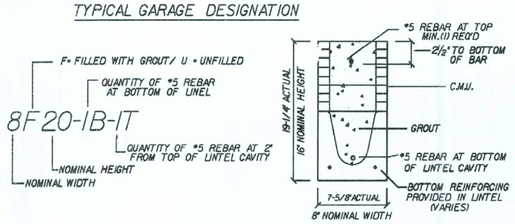
REVISED 04-02-07

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.

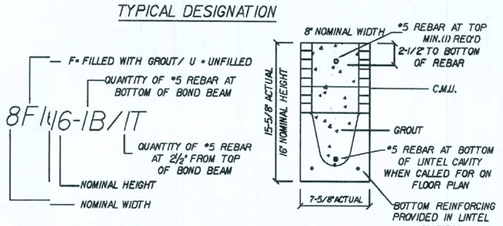
MATERIALS

1. f'c precast lintels = 3500 psi.
2. f'c prestressed lintels = 6000 psi.
3. f'c grout = 3000 psi w/ maximum 3/8" aggregate.
4. Concrete masonry units (CMU) per ASM C90 w/minimum net area compressive strength = 1900 psi.
5. Rebar provided in precast lintel per AST. A615 GR60. Field rebar per AST. A615 GR40 or GR60.
6. Prestressing strand per ASTM A416 grade 270 low relaxation.
7. 7/3. wire per ASTM A510.
8. Mortaper ASTM C270 type M or S.

TYPICAL GARAGE DESIGNATION



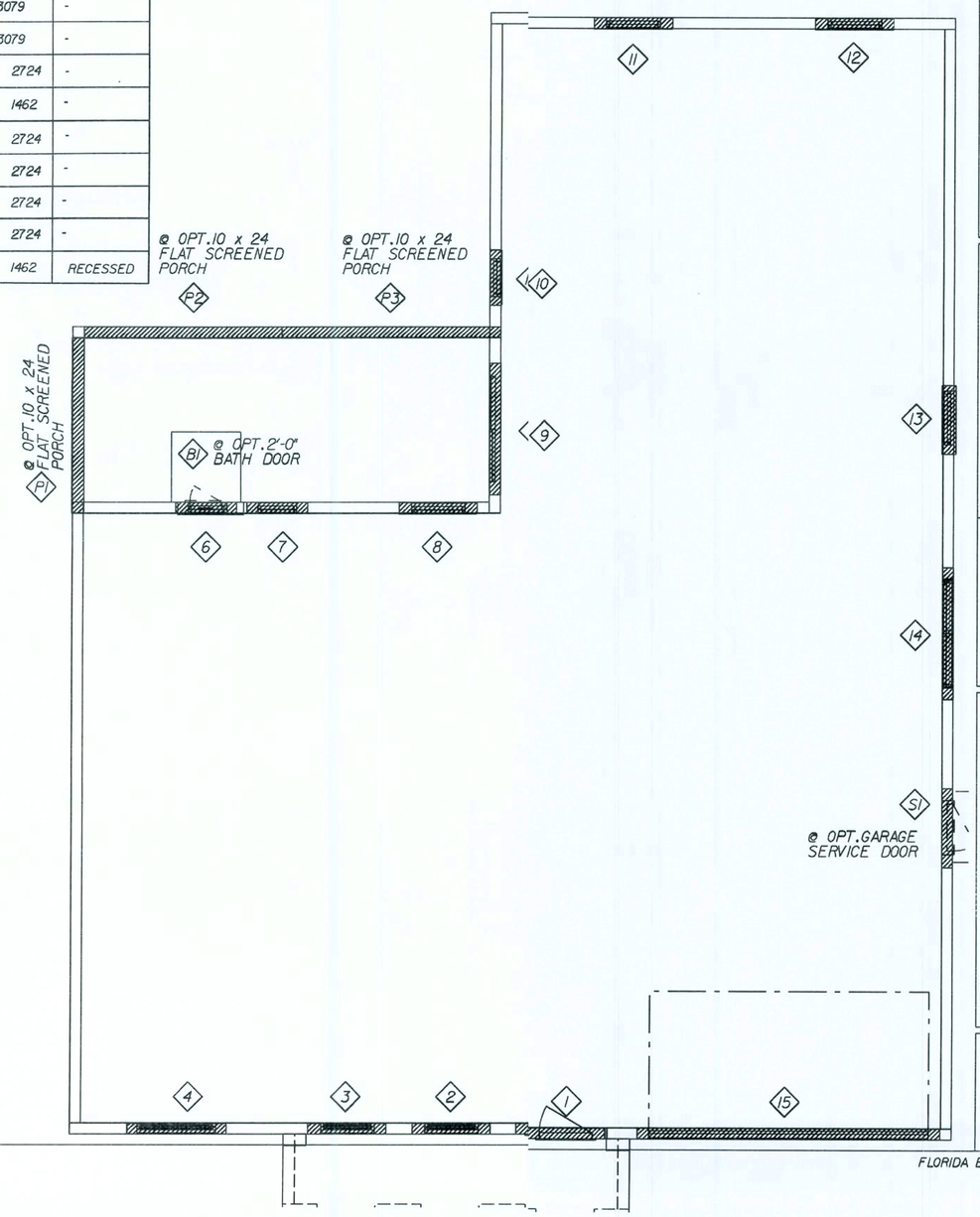
TYPICAL DESIGNATION



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"	8RF14-0B/IT	591	225	2992	2525	RECESSED
2	4'-6"	8U14-0B/IT	591	225	2992	2525	RECESSED
3	4'-6"	8U14-0B/IT	591	225	2992	2525	RECESSED
4	5'-10"	8F14-0B/IT	591	225	1600	1900	RECESSED
6	4'-0"	8U16-0B/IT	613	269	1966	3079	-
7	4'-0"	8U16-0B/IT	613	269	1966	3079	-
8	4'-6"	8U16-1B/IT	613	269	1599	2724	-
9	7'-6"	8RF14-1B/IT	454	206	2459	1462	-
10	4'-6"	8U16-1B/IT	163	88	1599	2724	-
11	4'-6"	8U16-1B/IT	163	88	1599	2724	-
12	4'-6"	8U16-0B/IT	163	88	1599	2724	-
13	4'-6"	8U16-0B/IT	163	88	1599	2724	-
14	7'-6"	8RF14-1B/IT	163	88	2459	1462	RECESSED
15	17'-4"	8F20-1B/2T	744	359	1332	326	732	GARAGE DOOR
P1	10'-6"	8F8-0B/IT	100	220	1224	247	914	@ OPT. PORCH
P2	11'-4"	8F8-0B/IT	359	220	451	158	239	@ OPT. PORCH
P3	12'-8"	8F8-0B/IT	359	220	451	158	239	@ OPT. PORCH
S1	4'-6"	8U16-0B/IT	163	88	1559	599	2724	@ OPT. GARAGE SERVICE DR.
B1	4'-6"	8RU14-0B/IT	613	269	1454	94	2525	RECESSED @ OPT. BATH DR.



FLORIDA BUILDING CODE 2007 : RESIDENTIAL

REVISIONS :

03-01-09 REV. CODE INFORMATION

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

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EXPOSURE B, ENCLOSED BUILDING, H=0
DESIGN'D WIND SPEED: 125mph - 3 sec. GUST

P:\Houses_05\georgetown\March_1\georgtown4m-wll

AMERICANA | WINDOW/LINTEL

GEORGETOWN

ELEVATION "M"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 04-04-06

08:25x19

Maronda Systems
4005 Maronda Way
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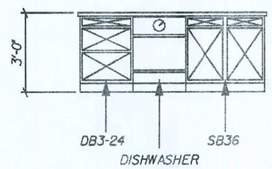
Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:
WL1m

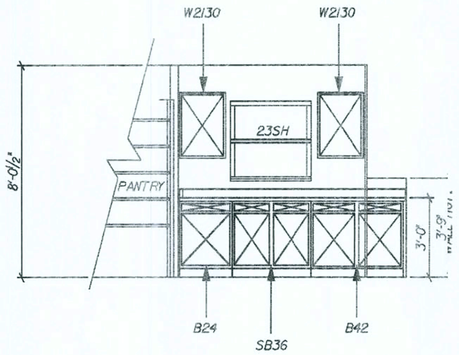
PLOT DATE: 16 MAR 2009

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

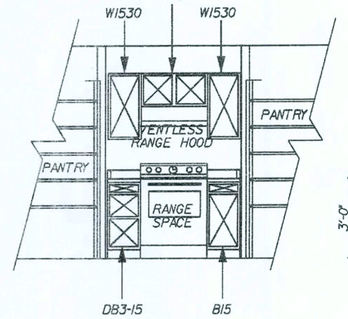
ISLAND > 48" ADD (1) BATTON MOLDING AT PANEL JOINT



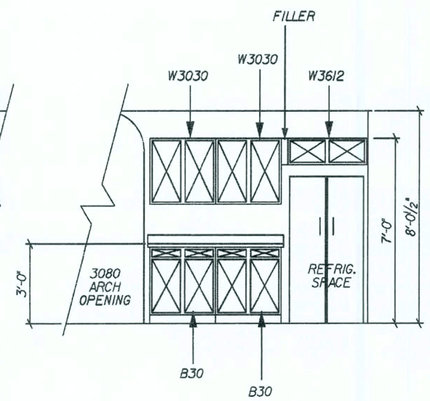
A KITCHEN ELEVATION



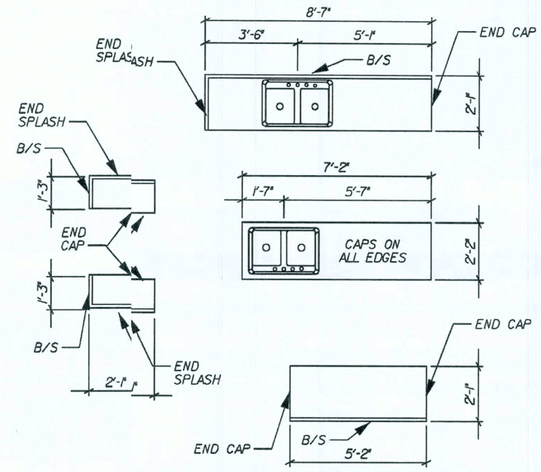
B KITCHEN ELEVATION



C KITCHEN ELEVATION

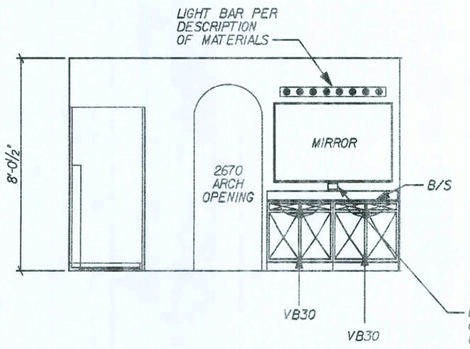


D KITCHEN ELEVATION

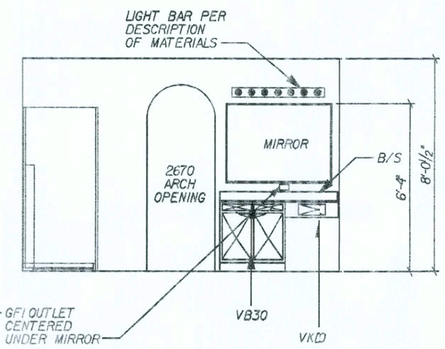


KITCHEN COUNTER TOP PLAN

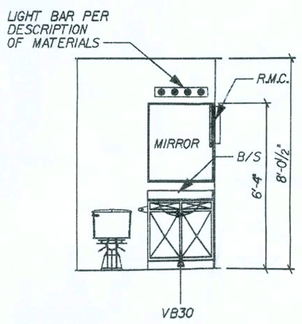
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



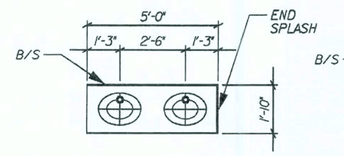
OPTIONAL DBL.SINK - MASTER BATH VANITY



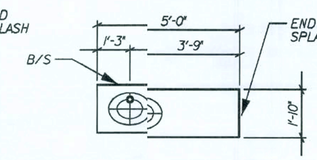
F STANDARD MASTER BATH VANITY



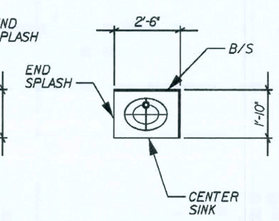
G HALL BATH VANITY



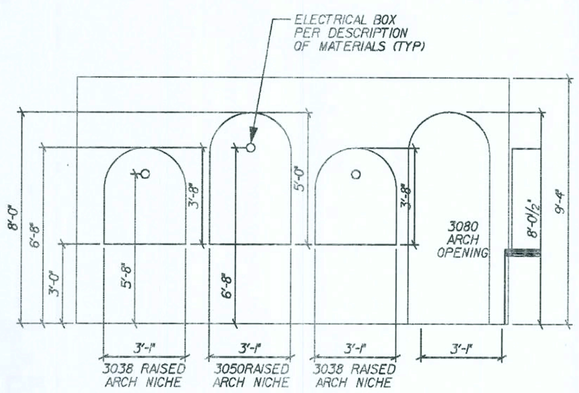
OPT. DBL. SINK LAV. TOP MASTER BATH VANITY



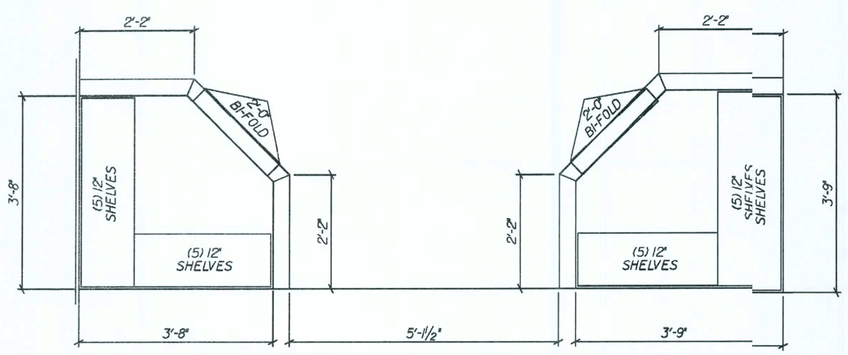
STANDARD LAV. TOP MASTER BATH VANITY



STANDARD LAV. TOP HALL BATH VANITY



E DINING ROOM WALL ELEVATION



H ENLARGED PANTRY PLAN

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 2007 : RESIDENTIAL

03-01-09 REV. CODE INFORMATION

p:\houses_05\georgetown\std_rlg\gtn4-r03a

AMERICANA | SECTIONS/DETAILS

GEORGETOWN 4

SECTIONS & DETAILS

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 09-08-04

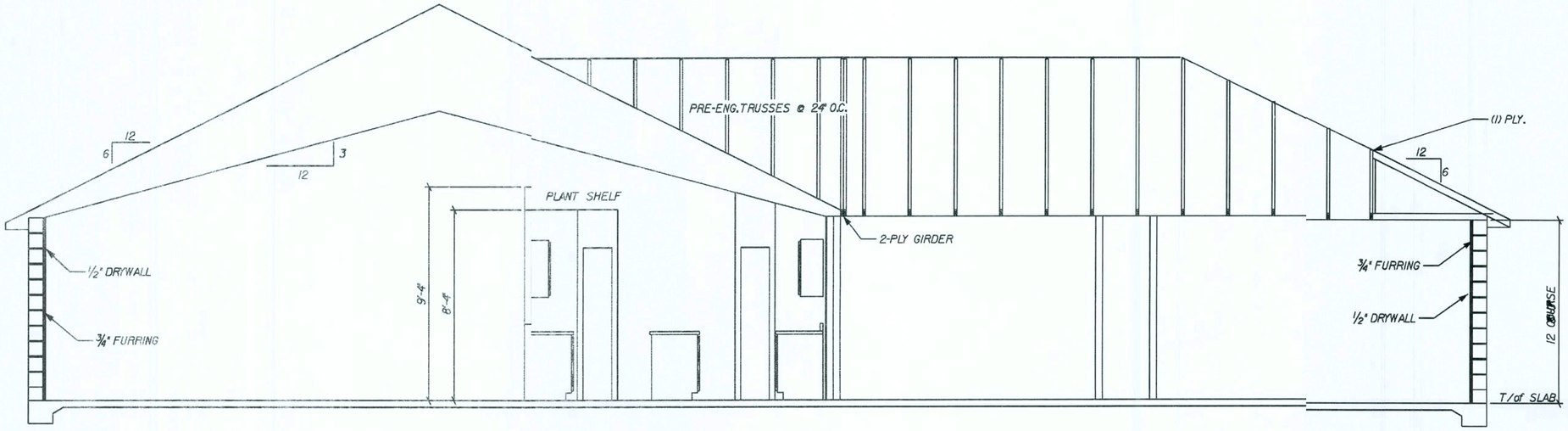
08:25:49

PLOT DATE: 16 MAR 2009

SHEET:

3A

FLORIDA BUILDING CODE 2007 : RESIDENTIAL



ROSS SECTION

REVISIONS :

03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

AMERICANA | BLD. CROSS SECTION

GEORGETOWN 4

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 09-08-04

D:\houses_05\georgetown4\std_right\gtn4r.csu

08:25:20

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

Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:

CSU

PLOT DATE: 16 MAR 2009

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

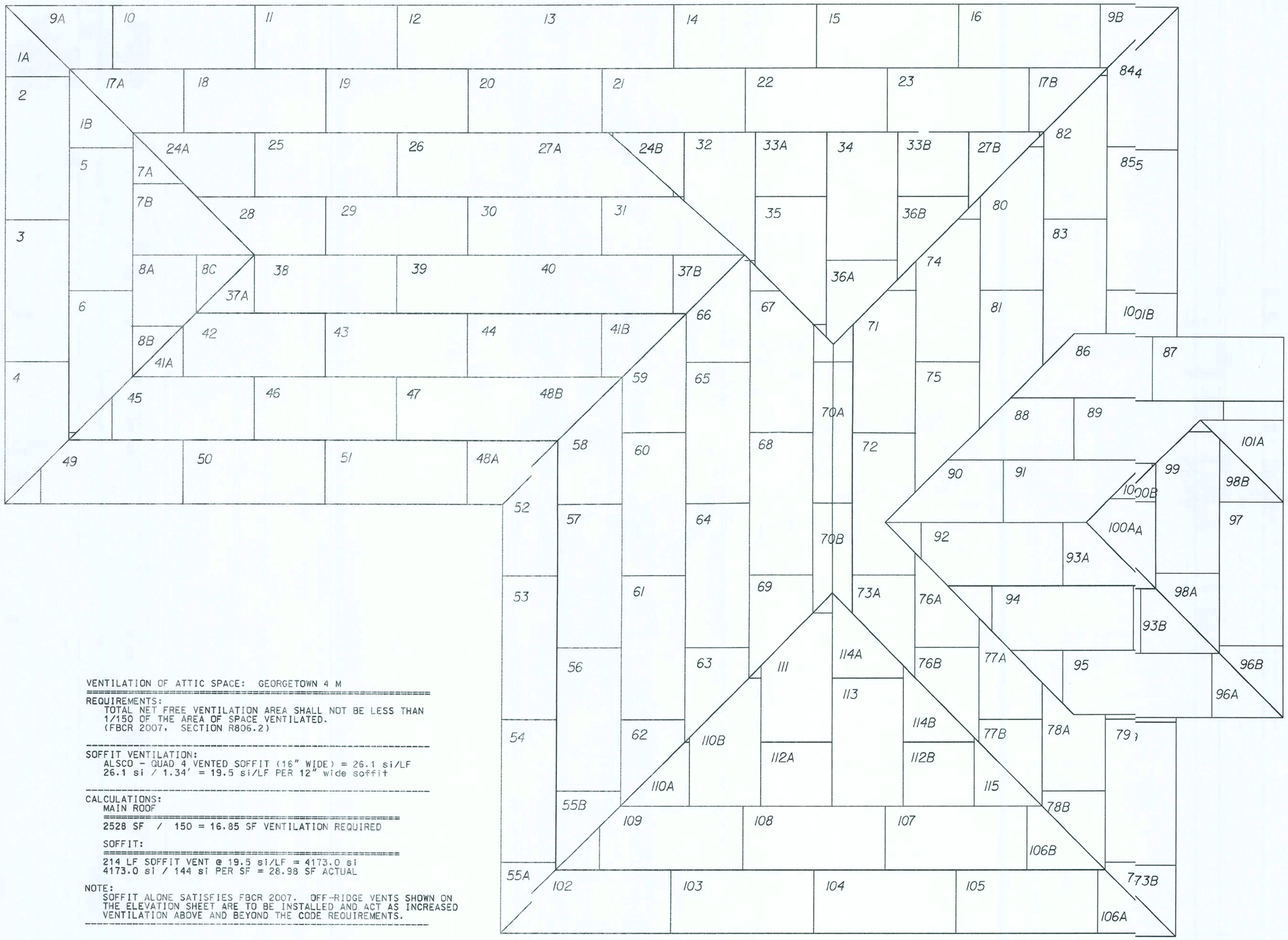
GENERAL ROOF NOTES:

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.

REVISED 05-07-07

TOTAL ROOF SHEATHING:

115 SHEETS



VENTILATION OF ATTIC SPACE: GEORGETOWN 4 M

REQUIREMENTS:
TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF SPACE VENTILATED.
(FBCR 2007, 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
2528 SF / 150 = 16.85 SF VENTILATION REQUIRED

SOFFIT:
214 LF SOFFIT VENT @ 19.5 si/LF = 4173.0 si
4173.0 si / 144 si PER SF = 28.98 SF ACTUAL

NOTE:
SOFFIT ALONE SATISFIES FBCR 2007. OFF-RIDGE VENTS SHOWN ON THE ELEVATION SHEET ARE TO BE INSTALLED AND ACT AS INCREASED VENTILATION ABOVE AND BEYOND THE CODE REQUIREMENTS.

REVISIONS :

03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

AMERICANA | OSB LAYOUT

GEORGETOWN 4

ELEVATION "M"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 04-04-06

SHEET:

RS1-m

PLOT DATE: 16 MAR 2009

08:25:21

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

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

GENERAL FIRST FLOOR NOTES:

REVISED 01-06-09

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.

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.

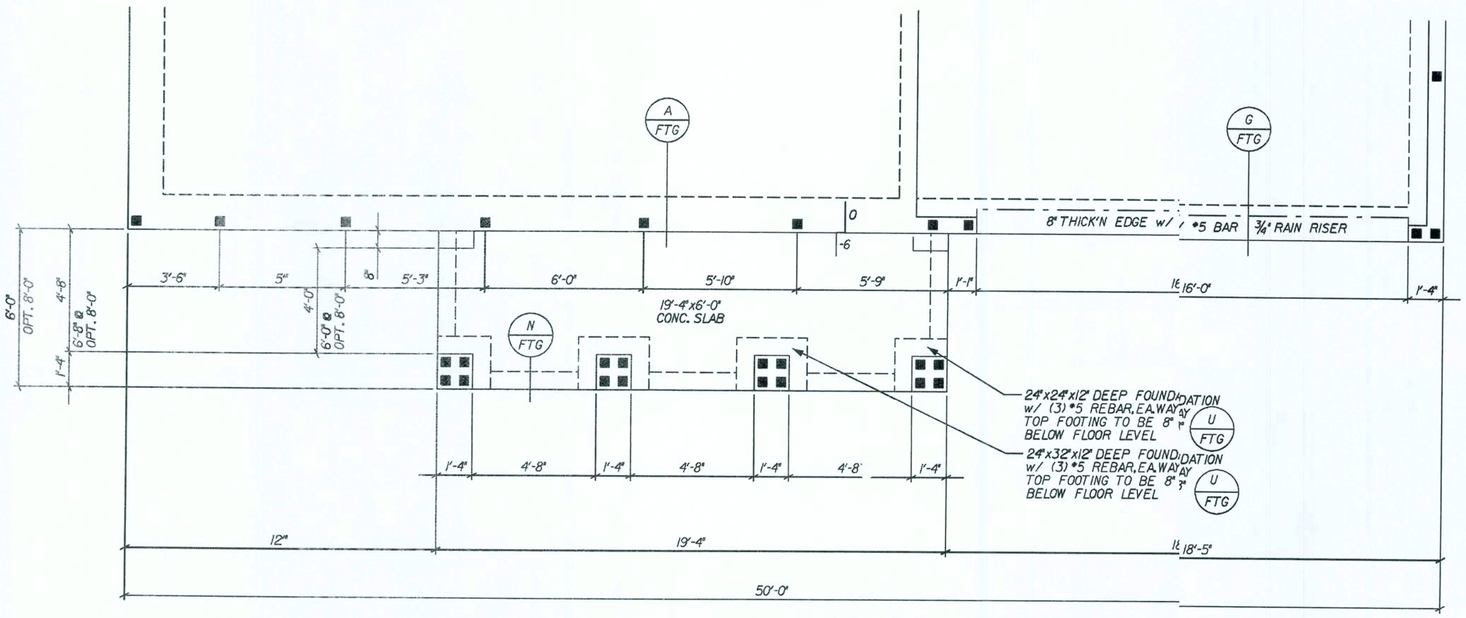
SEE SHEET * WLI FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

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.

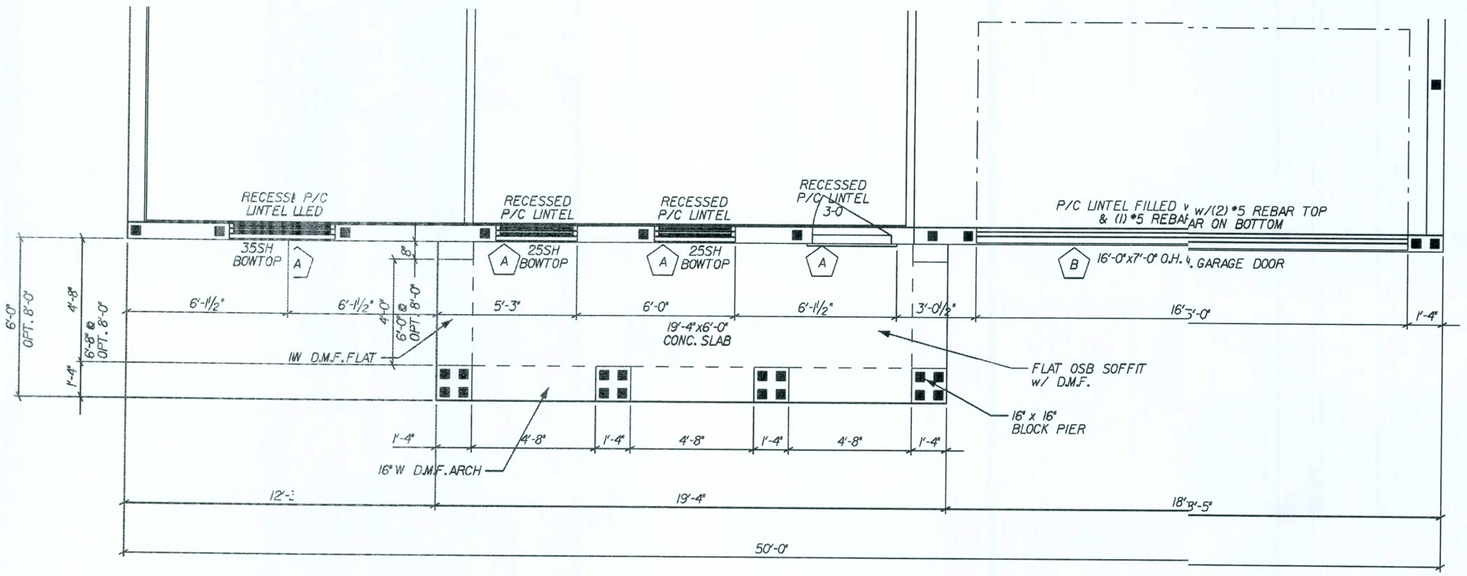
SC DOOR = MIN. 1⅜" THICK SOLID CORE DOOR

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



FOUNDATION PLAN

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



FLOOR PLAN

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

REVISIONS :

03-01-09 REV. CODE INFORMATION

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Maronda Homes

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301.2(4) OF THE FLORIDA BUILDING CODE, 2007 : RESIDENTIAL.
ALL CONNECTORS HAVE BEEN CHECKED FOR WITHSTAND ALL APPLICABLE LOADS.
EXPOSURE B, ENCLOSED BUILDING, HLD

DESIGN'D WIND SPEED: 122mph, 3 sec. GUST

pAVNhouses_05\georgetown\arch_rlgh\grfnHm-por

AMERICANA | FRNT. PORCH DETAILS

GEORGETOWN 4

ELEVATION "M"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 04-04-06

08/25/22

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

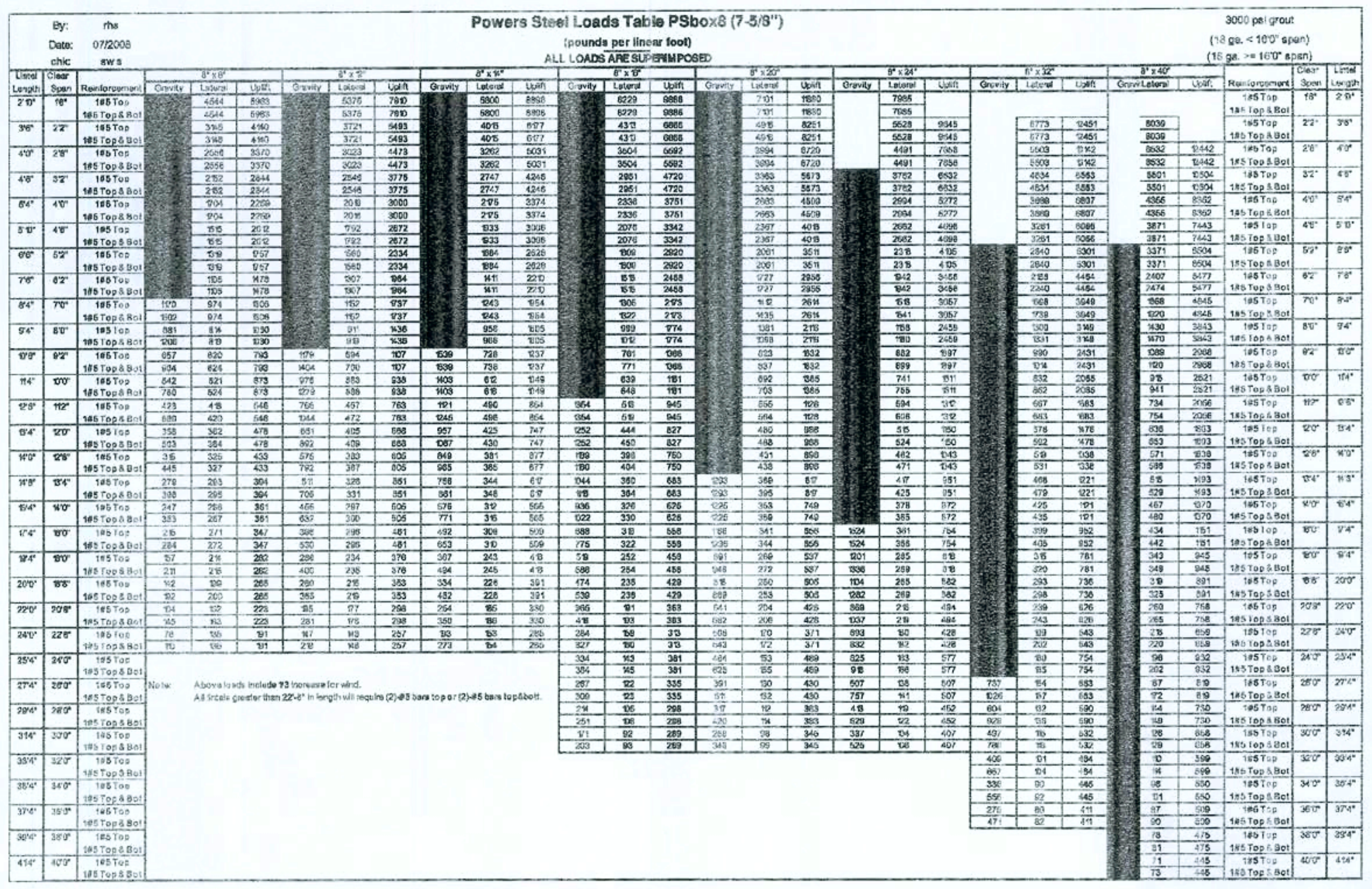
Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:

PORm

PLOT DATE: 16 MAR 2009

FLORIDA BUILDING CODE 2007 : RESIDENTIAL



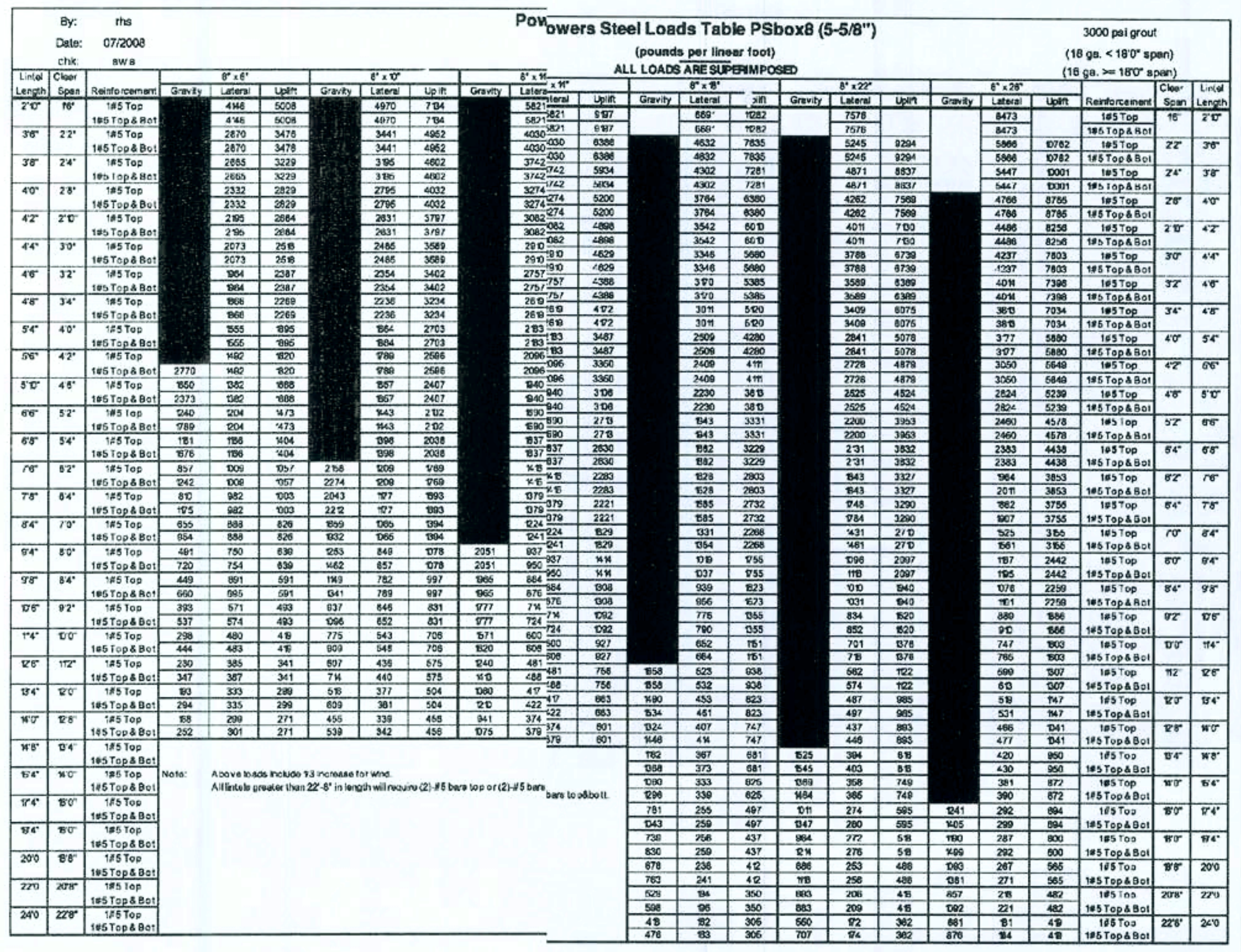
By: rhs
Date: 07/2008
chk: sws

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

(pounds per linear foot)
ALL LOADS ARE SUPERIMPOSED

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

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 Loads Table PSbox8 (5-5/8")

(pounds per linear foot)
ALL LOADS ARE SUPERIMPOSED

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

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 18'-0" BOX LINTELS TO BE 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-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

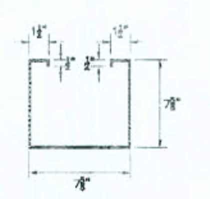
TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

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).

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

11. LIMITATIONS:

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

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- 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:

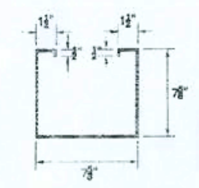
S.E. CONSULTANTS, INC.
5800 E. THOMAS RD. SUITE 104
SCOTTSDALE, AZ 85251
PHONE No. (480) 946-2010
FAX (480) 946-1909

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 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 18'-0" BOX LINTELS TO 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 18'-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 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

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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.

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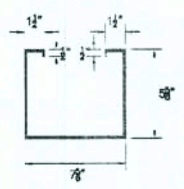
POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.



PSbox8(5-5/8) STEEL LINTELS

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

NOTES:

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PSbox8(5-5/8) STEEL LINTELS

NOTE: NO SCALE
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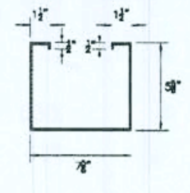

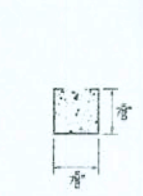
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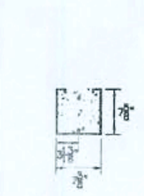
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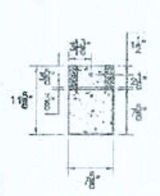
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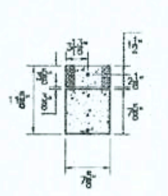
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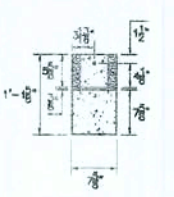
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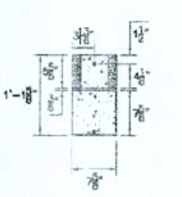
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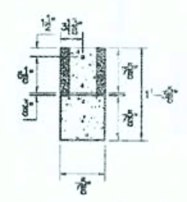
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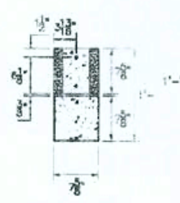
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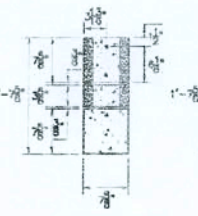
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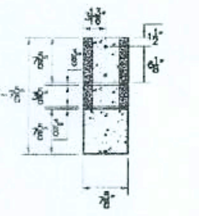
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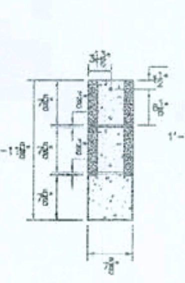
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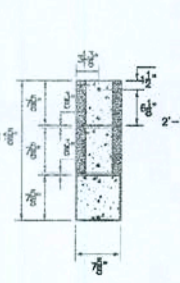
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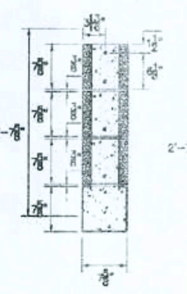
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PSbox8-32"
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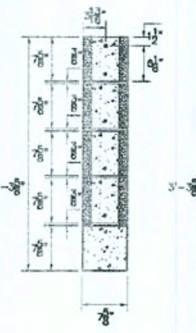
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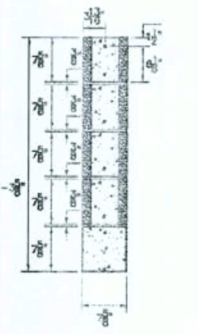
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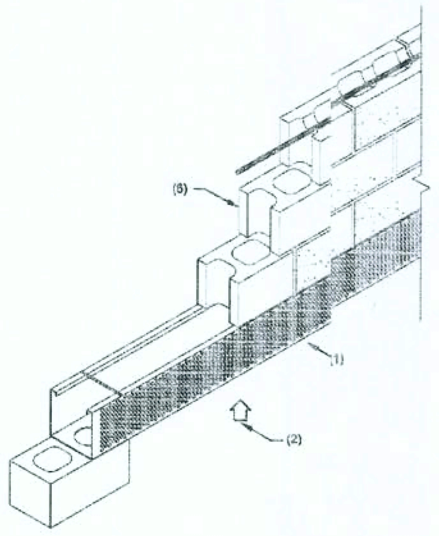
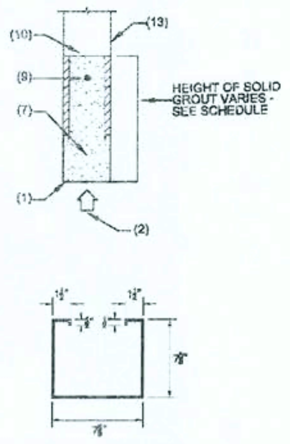
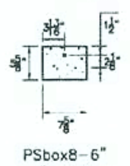




TYPICAL POWER BOX LINTEL SECTION

Florida Product Appoval # FL6264-R1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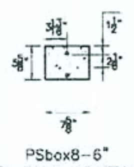
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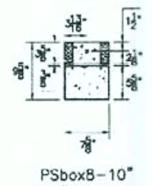
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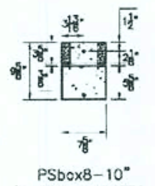
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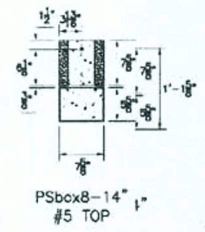
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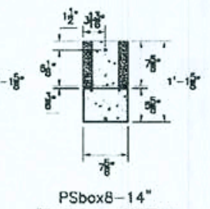
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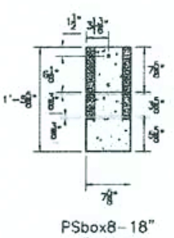
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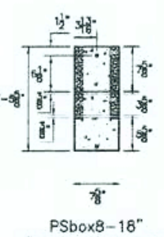
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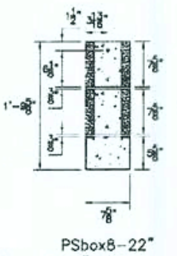
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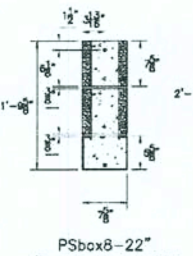
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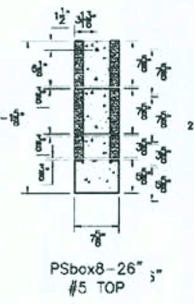
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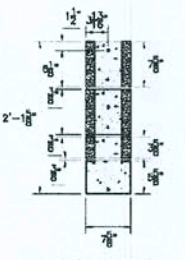
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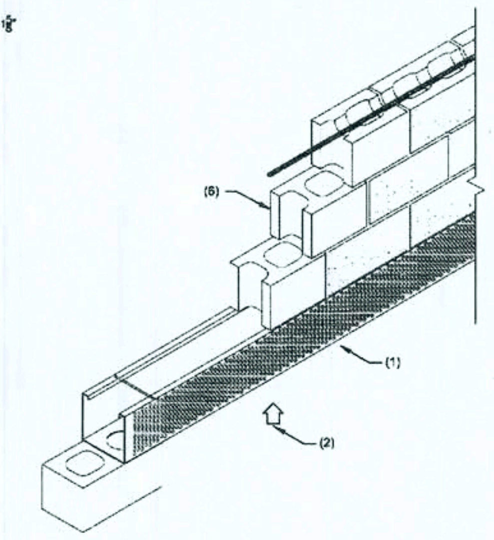

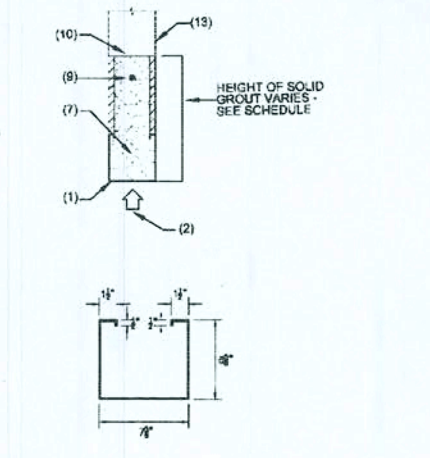

TYPICAL POWER BOX LINTEL SECTION

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Scottsdale, AZ 85251
(602)437-1160
Fax (602)437-5409

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

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

USP HARDWARE - 160%

REVISED 03/06/09

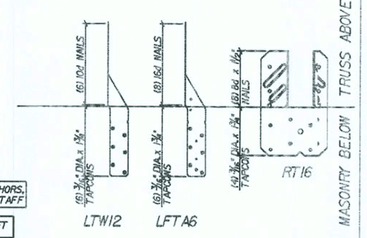
MARK	PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
N	16d NAILS - (2) TOP CHORD NAILS / (2) BOTTOM CHORD NAILS			
1	HUS 26	USP	(14) 16d HEADER (6) 16d TRUSS	1925
2	HUS 28	USP	(22) 16d HEADER (8) 16d TRUSS	2570
3	JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
4	MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
5	MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	630/655
6	SKH 26 L/R	USP	HEADER (6) 16d JACK (6) 10d X 1 1/2"	1085
7	SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1 1/2"	2190
8	SUH 26	USP	HEADER (6) 16d JACK (4) 10d X 1 1/2"	725
9	SUH 28	USP	HEADER (6) 16d JACK (6) 10d X 1 1/2"	800
10	THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1 1/2"	2170
11	THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2330
12	THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2485
13	THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1 1/2"	2665
14	THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2485
15	THJ 26	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1 1/2"	1010
16	(2) MTW 12	USP	(14) 10d	2390
17	(2) MUGT15	USP	(14) 10d x 1-1/2 5/8" ANCHOR BOLT 3 3/4" EMBEDDED GIRDER (22) 10d X 1 1/2"	8330
18	(2) RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1 1/2"	2320
19	(2) MSTA24	USP	(18) 10d (18) 10d	1950
20	(2) LFTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1 1/2"	2500
21	C44	USP	POST (6) 16d BEAM (6) 10d X 1 1/2"	1000
22	FA3	USP	TOP (4) 10d X 1 1/2" SIDE (2) 10d X 1 1/2"	1155
23	HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
24	HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1 1/2" PLATE (10) 10d X 1 1/2"	800
25	HTA 20 ANCHOR	USP	(14) 10d X 1 1/2"	1615
26	HTA 20(2) ANCHOR	USP	(13) 10d X 1 1/2"	3230
27	HTW24	USP	(20) 10d	1530
28	HUGT2	USP	CONC. ANC.-BOLT (2)3/4"-(2)3 1/2"WASH 3 1/4" * EMBED. -ALL GRDR.-(8) 10d	9790
29	HUGT3	USP	CONC. ANC.-BOLT (2)3/4"-(2)3 1/2"WASH 3 1/4" EMBED. -ALL GRDR.-(8) 10d	9860
30	KST237 STRP ANC.	USP	(34) 16d	5395
31	LFTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1 1/2"	1250
32	LSTA36	USP	(22) 10d X 1 1/2"	1640
33	LTW12	USP	(12) 10d	775
34	LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3 1/4" EMBED. (10) 10d X 1 1/2"STRAP	1910
35	LBP12 -TZ	USP	1/2" J-BOLT	N/A
36	LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1210
37	MSTA12	USP	(10) 10d	1015
38	MSTA18	USP	(14) 10d	1420
39	MSTA24	USP	(18) 10d	1640
40	MSTA30	USP	(22) 10d	2065
41	MTW12	USP	(14) 10d	1195
42	MTW18	USP	(14) 10d	1195
43	MTS27B STRP ANC	USP	(24) 16d (1) 3 1/4" ANCHOR BOLT 3 1/4" EMBEDDED	4635
44	MUGT15	USP	(20) 10d 3/4"x400 PABZ W/ (10) W515 (1) 3/4" ANCHOR BOLT 3 3/4" EMBEDDED SCREWS & (1) 3/4" THREADED ROD	4165
45	NP37 3/8 X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1 1/2"	
46	PA 28	USP	(15) 16d	3700
47				
48	RT16A	USP	TRUSS (9) 10d x 1 1/2" PLATE (8) 10d	1255
49	RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1 1/2"	975
50	RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	520
51	RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	520
52	TA 12	USP	(5) 10d x 1 1/2"	990
53	TA 14	USP	(7) 10d x 1 1/2"	1205
54	TA 18	USP	(8) 10d x 1 1/2"	1205
55	(2)TA 18	USP	(8) 10d x 1 1/2" 1-PLY (8) 10d x 1 1/2" 2-PLY	2410
56	TA 24	USP	(8) 10d x 1 1/2"	1205
57	(2)TA 24	USP	(8) 10d x 1 1/2" 1-PLY (8) 10d x 1 1/2" 2-PLY	2410
58	USC63	USP	TRUSS (8) 10d (4)3/4" EXP. BOLTS #6170 2 3/4" EMBEDDED	1150
59	USC3F	USP	TRUSS (8) 10d (4)3/4" EXP. BOLTS #6170 2 3/4" EMBEDDED	1150
60	USC73	USP	TRUSS (8) 16d (4)3/4" EXP. BOLTS #6170 2 3/4" EMBEDDED	1150
61	UGTS63	USP	TRUSS (8) 16d (2)3/4" ANC. BOLTS 2 3/4"x" EMBEDDED	6170
62	(2) HTW24	USP	(20) 10d (20) 10d	3060
63	THDH414	USP	(16) 16d - POST (66) 16d - TRUSS	6770
64	HGA10	USP	(4) W515 - RAFTER/TRUSS (4) W53 - PLATE	1285
65	LUGT2	USP	STUDS/TOP PLATE (16) 10d TRUSS (16) 10d	2260
66	(2) LUGT2	USP	STUDS/TOP PLATE (16) 10d TRUSS (16) 10d	4520
67	(2) MTW18	USP	(14) 10d	2390
68	THD26-2	USP	(18) 16d HEADER (12) 10d TRUSS	2265
69	HTT22	USP	(32) 10d OR (32) 16d	5370
70	(2) RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	1080

TRUSS HARDWARE SCHEDULE

TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LEFT	UPLIFT MID	UPLIFT RIGHT	SIP LEFT	SIP	SIP RIGHT
S1AX	HIP	3	450		537	54		54
S1CX	HIP	4	459		457	54		10
HS1AX	HIP	1	529		422	54		54
HS1BX	HIP	1	550		470	54		10
HS2AX	HIP	1	512		425	54		54
HS2BX	HIP	1	516		428	54		10
HS3AX	HIP	1	405		494	54		54
HS3BX	HIP	1	498		407	54		10
HS4X	HIP	1	473		473	54		54
HS5X	HIP	1	449		449	54		54
MHS1X	HIP	1	461		552	54		10
MHS2X	HIP	1	461		556	54		10
HSGRD1X	HIPGRDR	1(3PLY)	1765		1778	55		55
MHSGRDX	HIPGRDR	1(3PLY)	1719		1946	55		13
GRD1X	GIRDER	1(3PLY)	3728		5208	44		17
S2X	HIP	5	412		412	54		54
T1X	COMMON	3	413		413	54		54
H1X	HIP	1	398		398	54		54
H2X	HIP	1	377		377	54		54
HGRD1X	HIPGRDR	1(2PLY)	1275		1279	55		55
JGRD1X	JACKGRDR	4	325		335	54		15
JSGRD1X	JACKGRDR	1	293		382	54		15
JX	JACK	18	175		144	54		N
JSX	JACK	13	144		160	54		N
JSBX	JACK	1	144		164	54		N
JSCX	JACK	1	144	88	64	54		N
JSDX	JACK	1	144		188	54		N
J1X	JACK	8	147		101	54		N
JS1X	JACK	2	128		111	54		N
J2X	JACK	8	121		56	54		N
JS2X	JACK	2	115		60	54		N
J3X	JACK	8	121		7	54		N
JS3X	JACK	2	127	9	1	54		N
GRD2X	GIRDER	1	464		474	50		50
CGRD2X	SPECIAL	2	1345	830/1298	1617	54	5454	54
FGRD2X	GIRDER	2	725		429	54		54
JGRD2X	JACK	2	183		170	24		N
J6X	JACK	3	159		118	50		N
J6AX	JACK	2	100		117	50		N
J9X	JACK	3	100		100	50		N
J9AX	JACK	1	100		100	50		N
J10X	JACK	3	117		100	50		N
J10AX	JACK	1	100		100	50		N
RG1X	GABLE	1	← 33 @ 48" O.C. →					
V1X	VALLEY	1	← 33 @ 48" O.C. →					
VM1X-VM5X	VALLEY	1	← 33 @ 48" O.C. →					
VM14X-VM15X	VALLEY	1	← 33 @ 48" O.C. →					
V6X-V11X	VALLEY	1	← 33 @ 48" O.C. →					

GENERAL TRUSS NOTES:

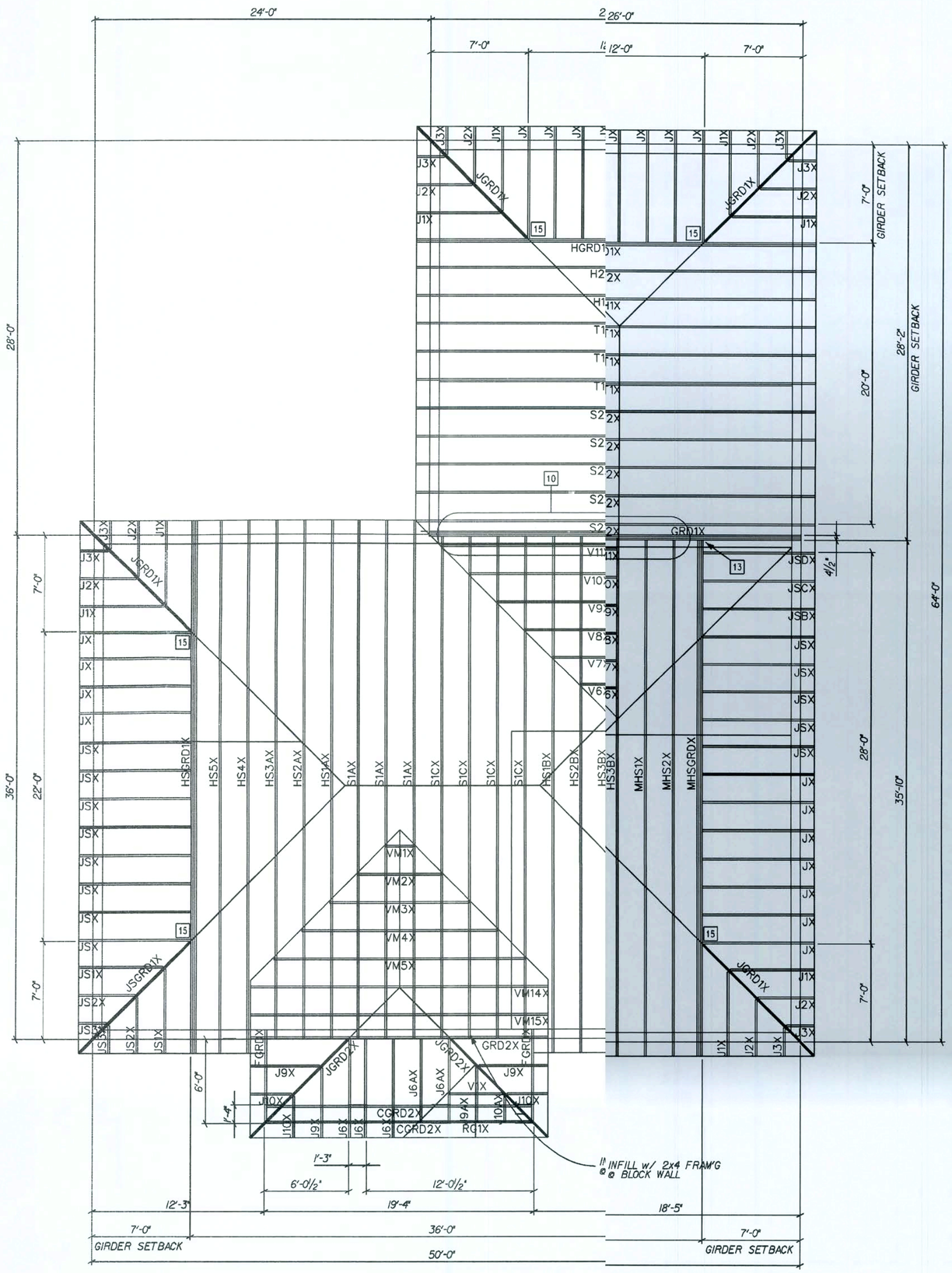
1. INFORMATION BASED ON 140 mph WINDLOAD. ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-05
2. ROOF TRUSS LOADING:
   - 16 psf TOP CHORD LL
   - 7 psf TOP CHORD DL
   - 0 psf BOTTOM CHORD LL
   - 10 psf BOTTOM CHORD DL
   - 33 psf TOTAL LOAD
3. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING & BCSI-03



FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

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

ANCHOR FASTENING SCHEULE
MISSED ROOF TIE DOWN REPAIR
SCALE: NTS



REVISIONS:
03-31-09 REV. PER REDLINES
03-01-09 REV. CODE INFORMATION

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2007 + RESIDENTIAL.
ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.
EXPOSURE: B, ENCLOSED BUILDING, HD
DESIGN'D WIND SPEED: 125mph - 3 sec. GUST

pw:\Houses_05\georgetownA\rod_0\full_size_layouts\light_garage\350-gtn4_m_rgt.rl 03-01-09 10:52:36

AMERICANA
INFO SHEETS
GEORGETOWN4
ELEVATION - M
DRAWN BY: SWE
GARAGE: RIGHT
RELEASE DATE: 03-26-09

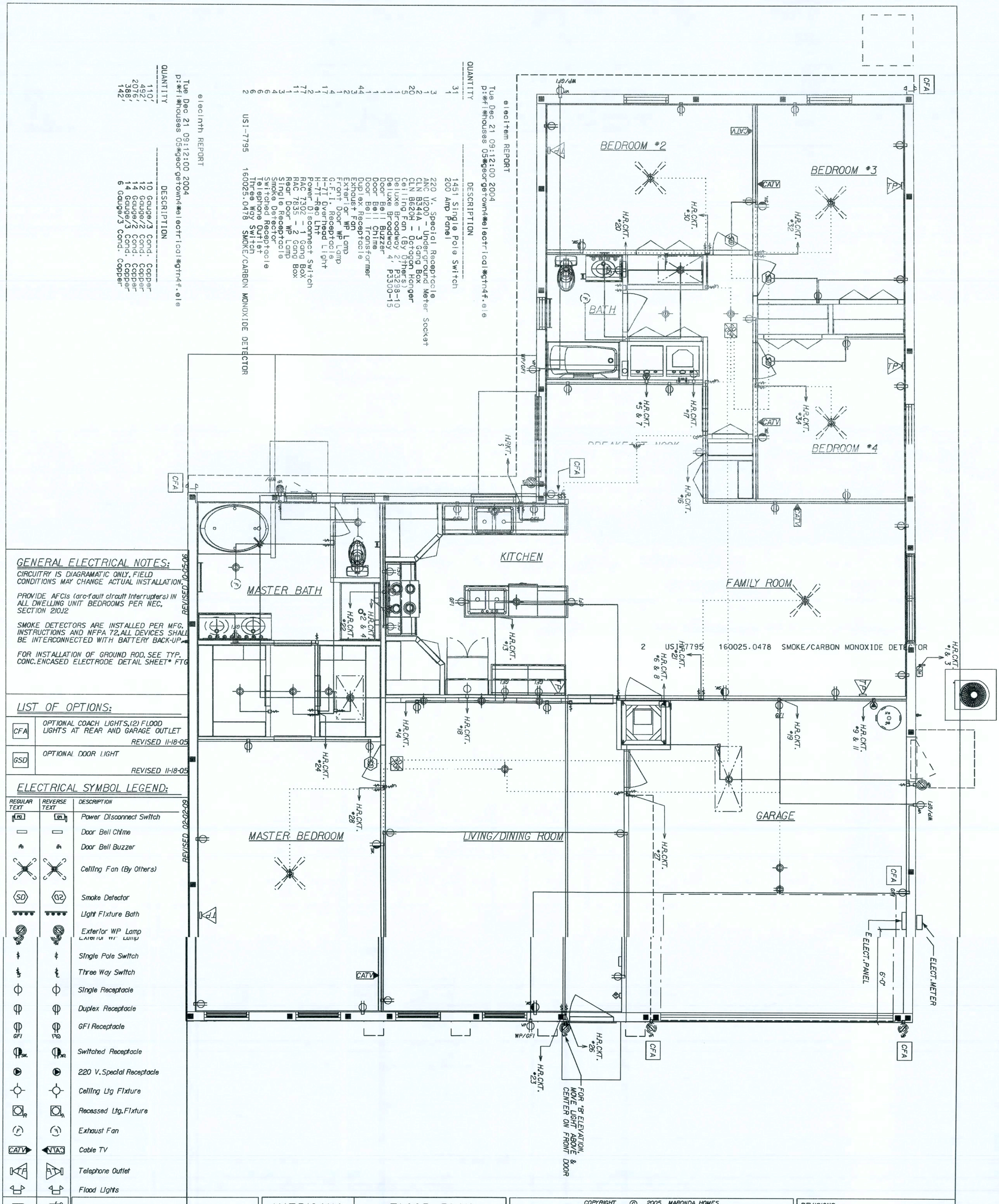
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:
TR1

PLOT DATE: 31 MAR 2009

FLORIDA BUILDING CODE 2007 : RESIDENTIAL




```
elecitem REPORT
Tue Dec 21 09:12:00 2004
p:*fl*houses 05*georgetown4*electrical*gtn4f.ele

QUANTITY   DESCRIPTION
--------   -----------
  31       1451 Single Pole Switch
           200 Amp Panel

   3       220 V. Special Receptacle
   1       ANC U2000-Underground Meter Socket
   2       CLN B344A - 3 Gang Box
  20       CLN B620H - Octagon Hanger
   5       Ceiling Fan (By Others)
   1       Deluxe Broadway 2', P3298-10
   1       Deluxe Broadway 4', P3300-15
   1       Door Bell Buzzer
   1       Door Bell Chime
   4       Door Bell Transformer
   4       Duplex Receptacle
   3       Exhaust Fan
   2       Exterior WP Lamp
   1       Front Door WP Lamp
   1       G.Fil. Receptacle
   1       H-Tt Overhead Light
   1       H-Tt-Rec Lht
   2       Power Disconnect Switch
   7       RAC 7830 - 1 Gang Box
   7       RAC 7835 - 2 Gang Box
   1       Rear Door WP Lamp
   3       Single Receptacle
   3       Smoke Detector
   4       Switched Receptacle
   6       Telephone Outlet
   6       Three Way Switch
   2       US17795  160025.0478  SMOKE/CARBON MONOXIDE DETECTOR
```

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elecinth REPORT
Tue Dec 21 09:12:00 2004
p:*fl*houses 05*georgetown4*electrical*gtn4f.ele

QUANTITY   DESCRIPTION
--------   -----------
  110'     10 Gauge/3 Cond. Copper
  492'     12 Gauge/2 Cond. Copper
  278'     14 Gauge/2 Cond. Copper
  188'     14 Gauge/3 Cond. Copper
  142'      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
		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.	SW2	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
		Exhaust Fan / Light Combo
		Smoke / Carbon Monoxide Combo
		5-Bulb Dining Chandelier
		Breakfast Nook Opal Globe
		Exterior Overhead Light
		Stair Storage 18" Flourescent

REVISED 02-02-09

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

AMERICANA	FLOOR PLAN
GEORGETOWN 4	
ELEVATION "A" & "B"	
DRAWN BY:	GARAGE: RIGHT
RELEASE DATE: 09-08-04	

Maronda Homes

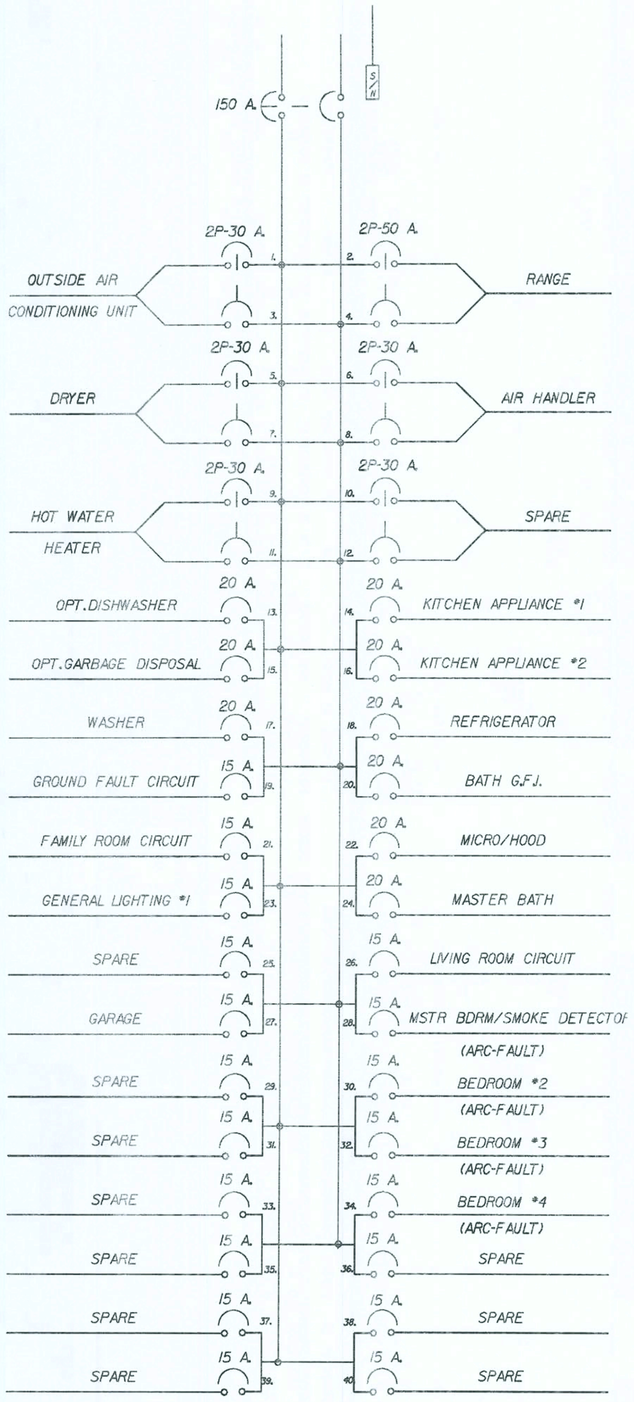
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

REVISIONS :

- 12-05-05 RELOCATE BRK. NOOK SWITCHES
- 01-26-07 ELIM. SMOKE DETECT. HOME RUN.
- 02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM
- 12-17-07 RELOCATED FAMILY RM. SWITCHES.
- 05-28-08 UPDATED CARB. MONO. DET. (DIN./LIV. RM. & HALL) AH
- 03-01-09 REV. CODE INFORMATION

PLOT DATE: 16 MAR 2009 08:33:10 p:\fl\houses_05\georgetown4\electrical\gtn4.all



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

11/28/06

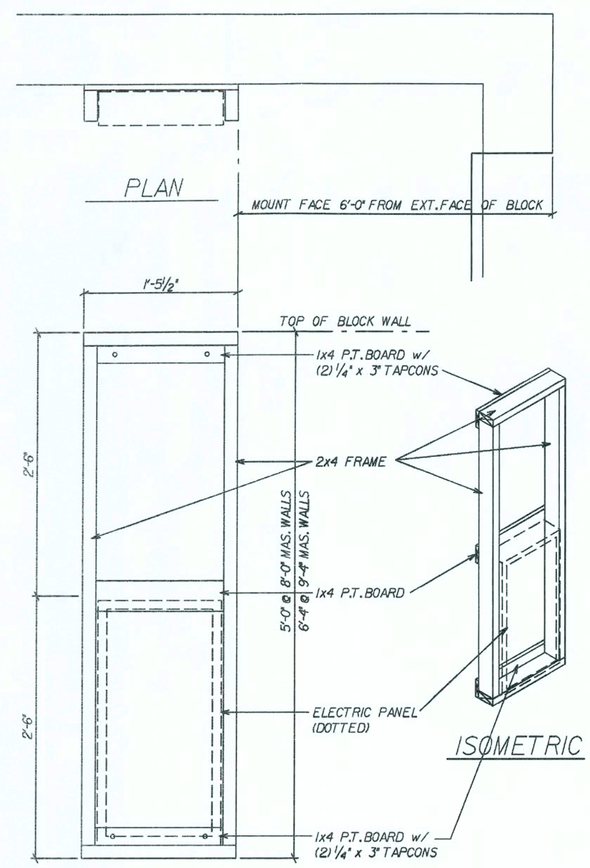
MODEL: GEORGETOWN 4

		VOLT/AMPS
LARGEST LOAD:HEAT PUMPW/SUPPLEMENTAL HEAT		**13692**
SQUARE FEET LIVING AREA	**2099** @ 3 VOLT/AMPS	6297
SMALL APPLIANCE CIRCUITS		3000
LAUNDRY CIRCUIT		1500
OVEN		11700
WATER HEATER		4500
DISHWASHER		1500
DRYER		5000
DISPOSAL		500
TOTAL LOAD		**33997**

FIRST 10KVA @100%	10000
REMAINDER @40%	9598.8
LARGEST LOAD	13692
TOTAL LOAD	**33291** V.A./240 VOLTS= **139** AMPS

SERVICE SIZE: 150 AMPS

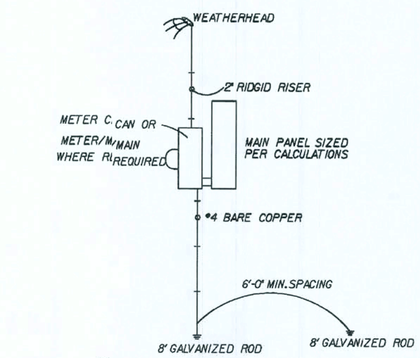
NOTE: HEAT PUMPS ARE CALCULATED AT 100% WITH SUPPLIMENTAL HEAT AT 100%



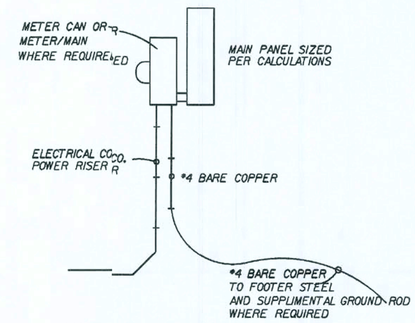
ELECTRIC PANEL FRAME

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

SCALE: 1" = 1'-0"

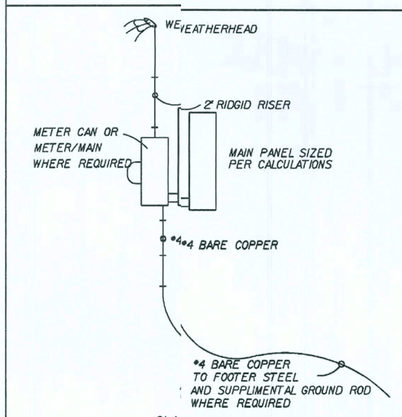


OVERHEAD SERV.

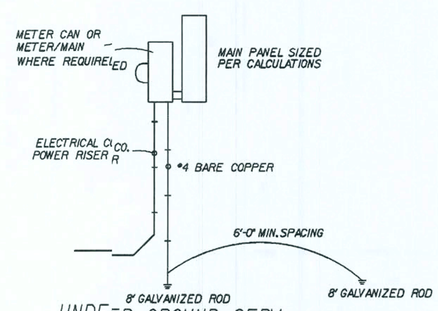


UNDER GROUND SERV.

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
11-28-06 REV. ELECT. LOAD CALC.
01-26-07 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
03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

AMERICANA | ELECTRICAL DETAILS

GEORGETOWN-4

GARAGE:

DRAWN BY:

RELEASE DATE: 09-11-03

08.33.11

PLOT DATE: 16 MAR 2009

SHEET:

ELIA

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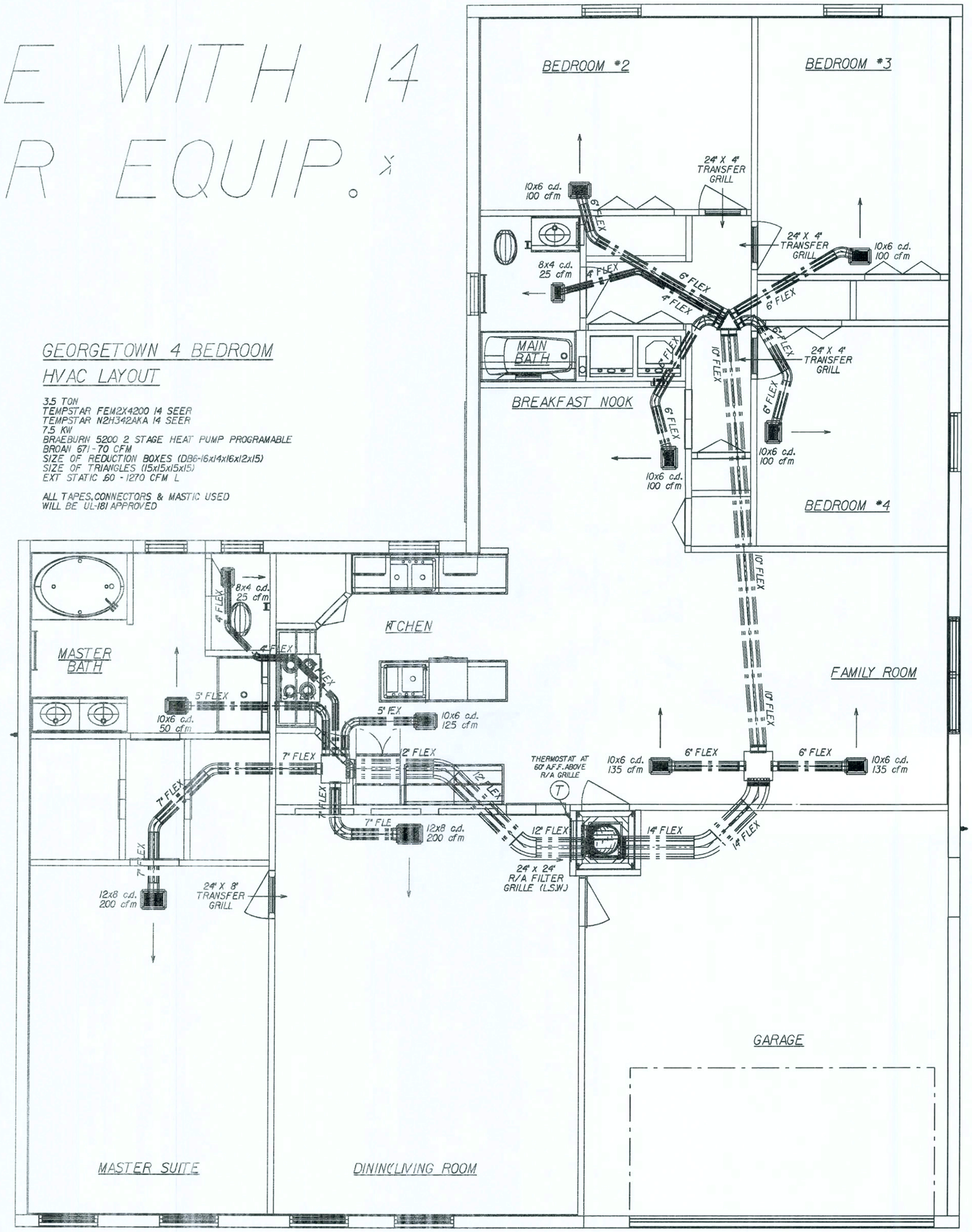
FLORIDA BUILDING CODE 2007 : RESIDENTIAL

* USE WITH 14 SEER EQUIP. *

GEORGETOWN 4 BEDROOM HVAC LAYOUT

3.5 TON
TEMPSTAR FEM2X4200 14 SEER
TEMPSTAR N2H342AKA 14 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 671-70 CFM
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT STATIC .60 - 1270 CFM L

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



1st. FLOOR DUCT LAYOUT

APPROXIMATE LOCATION OF A/C UNIT AND PAD.

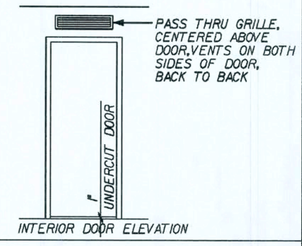
GENERAL MECHANICAL NOTES:

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:



REVISIONS :
11-01-05 REMOVED ENG'S NOTE
01-04-06 ADDED TRANSFER GRILLE @ BED2
12/11/06 COMPLETE 13 SEER UPDATE 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 2007 : RESIDENTIAL

AMERICANA | REGESTER LAYOUT

GEORGETOWN-4

4 BEDROOM

DRAWN BYTOM MARTINEZ | GARAGE: RIGHT

RELEASE DATE: 09-08-04

P:\1houses_05\georgetown\hvac\gth4h3.hvg

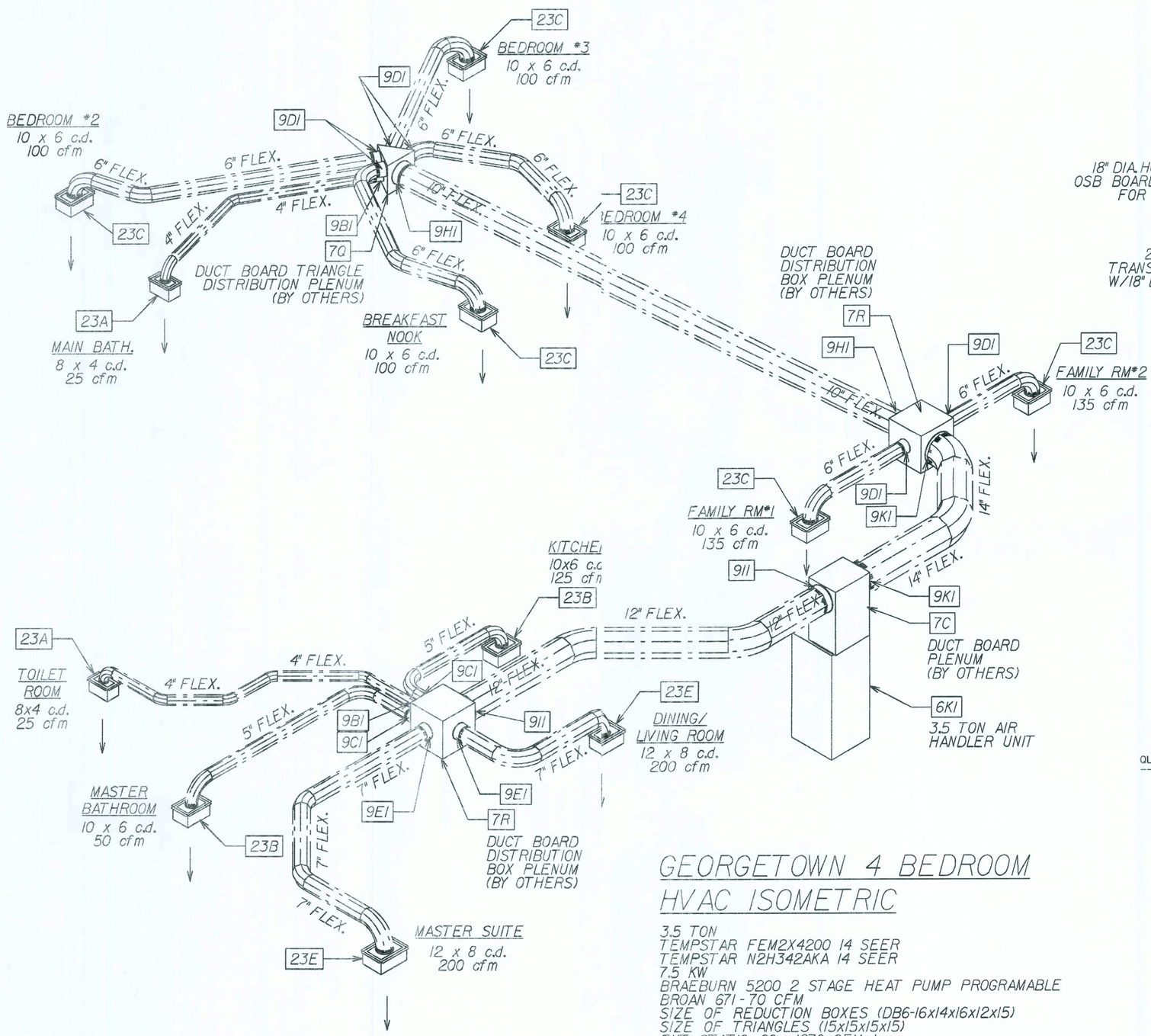
08:33:43

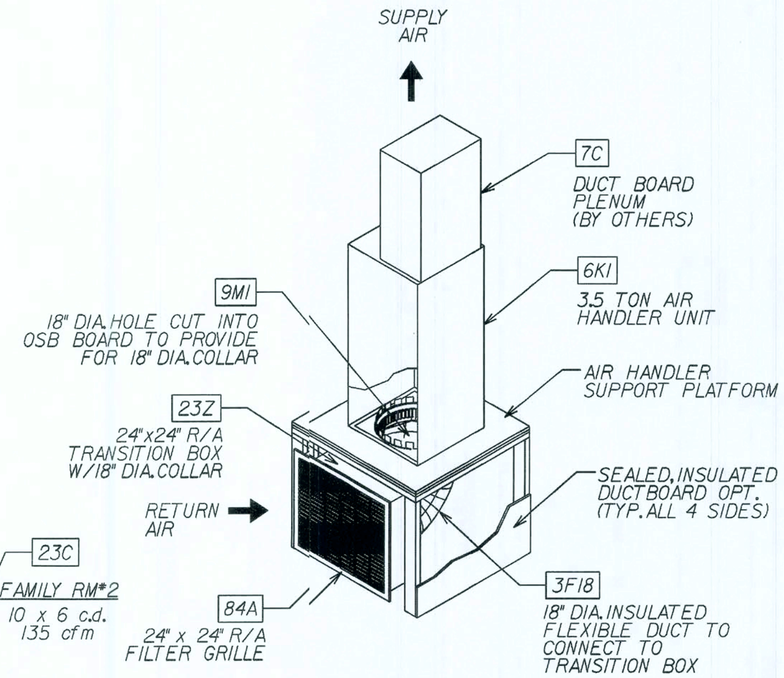
PLOT DATE: 16 MAR 2009

SHEET:
HVA

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

* USE WITH 14 SEER EQUIPMENT *





RETURN-AIR ISOMETRIC

GEORGETOWN 4 BEDROOM HVAC ISOMETRIC

3.5 TON
TEMPSTAR FEM2X4200 14 SEER
TEMPSTAR N2H342AKA 14 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 671-70 CFM
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT STATIC .60 -1270 CFM L

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

hvacitem REPORT

Wed Dec 20 16:43:33 2006
p:*fl*houses 05*georgetown4*hvac*gtn4h.htg

QUANTITY	DESCRIPTION			
2	23A	150045	5.0035	8x4 CEILING BOOT W/4" DIA. COLLAR
2	23B	150045	5.0036	10x6 CEILING BOOT W/5" DIA. COLLAR
6	23C	150045	5.0036	10x6 CEILING BOOT W/6" DIA. COLLAR
2	23E	150045	5.0038	12x8 CEILING BOOT W/7" DIA. COLLAR
1	23Z	150045	5.0046	24x24 R/A TRANSITION BOOT W/18" COLLAR
22'	3F10	150040	5.0097	10" FOIL FLEX R6
14'	3F12	150040	5.0098	12" FOIL FLEX R6
9'	3F14	150040	5.0099	14" FOIL FLEX R6
3'	3F18	150040	5.0138	18" FOIL FLEX R6
25'	3F4	150040	5.0091	4" FOIL FLEX R6
16'	3F5	150040	5.0092	5" FOIL FLEX R6
45'	3F6	150040	5.0093	6" FOIL FLEX R6
21'	3F7	150040	5.0094	7" FOIL FLEX R6
1	6K1	150005	5.0044	FEM2X4200A 14 SEER 3.5 TON AIR HANDLER UNIT
1	6Q1	150010	5.0104	N2H342AKA 14 SEER 3.5 TON CONDENSER
1	7C	150005	5.0110	19x13x30"H BOX PLENUM
1	7Q	150040	5.0118	DUCT PLENUM TRIANGLE
2	7R	150040	5.0111	18" SQUARE DUCT PLENUM
3	81A	150055	5.0041	24x4 TRANSFER GRILLE
3	81B	150045	5.0052	24x4 TRANSFER GRILLE FRAME
1	81C	150055	5.0078	24x8 TRANSFER GRILLE
1	81D	150045	5.0078	24x8 TRANSFER GRILLE FRAME
1	84A	150055	5.0032	24x24 RETURN AIR FILTER GRILLE
2	9B1	150040	5.0075	4" K-COLLAR/ROTH (4KC/413)
2	9C1	150040	5.0076	5" K-COLLAR/ROTH (5KC/413)
6	9D1	150040	5.0077	6" K-COLLAR/ROTH (6KC/413)
2	9E1	150040	5.0078	7" K-COLLAR/ROTH (7KC/413)
2	9H1	150040	5.0081	10" K-COLLAR/ROTH (10KC/413)
2	9I1	150040	5.0082	12" K-COLLAR/ROTH (12KC/413)
2	9K1	150040	5.0083	14" K-COLLAR/ROTH (14KC/413)
1	9M1	150040	5.0137	18" K-COLLAR/ROTH (18KC/413)

REVISIONS :
12/11/06 COMPLETE 13 SEER UPDATE TJM

03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

AMERICANA
H.V.A.C. ISO
GEORGETOWN-4
4 BEDROOM
GARAGE:
DRAWN BY: TOM MARTINEZ
RELEASE DATE: 09-08-04

SHEET:
ISO-H

PLOT DATE: 16 MAR 2009 08:33:44
p:\houses_05\georgetown4\hvac\gtn4h.iso

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

plumitem REPORT

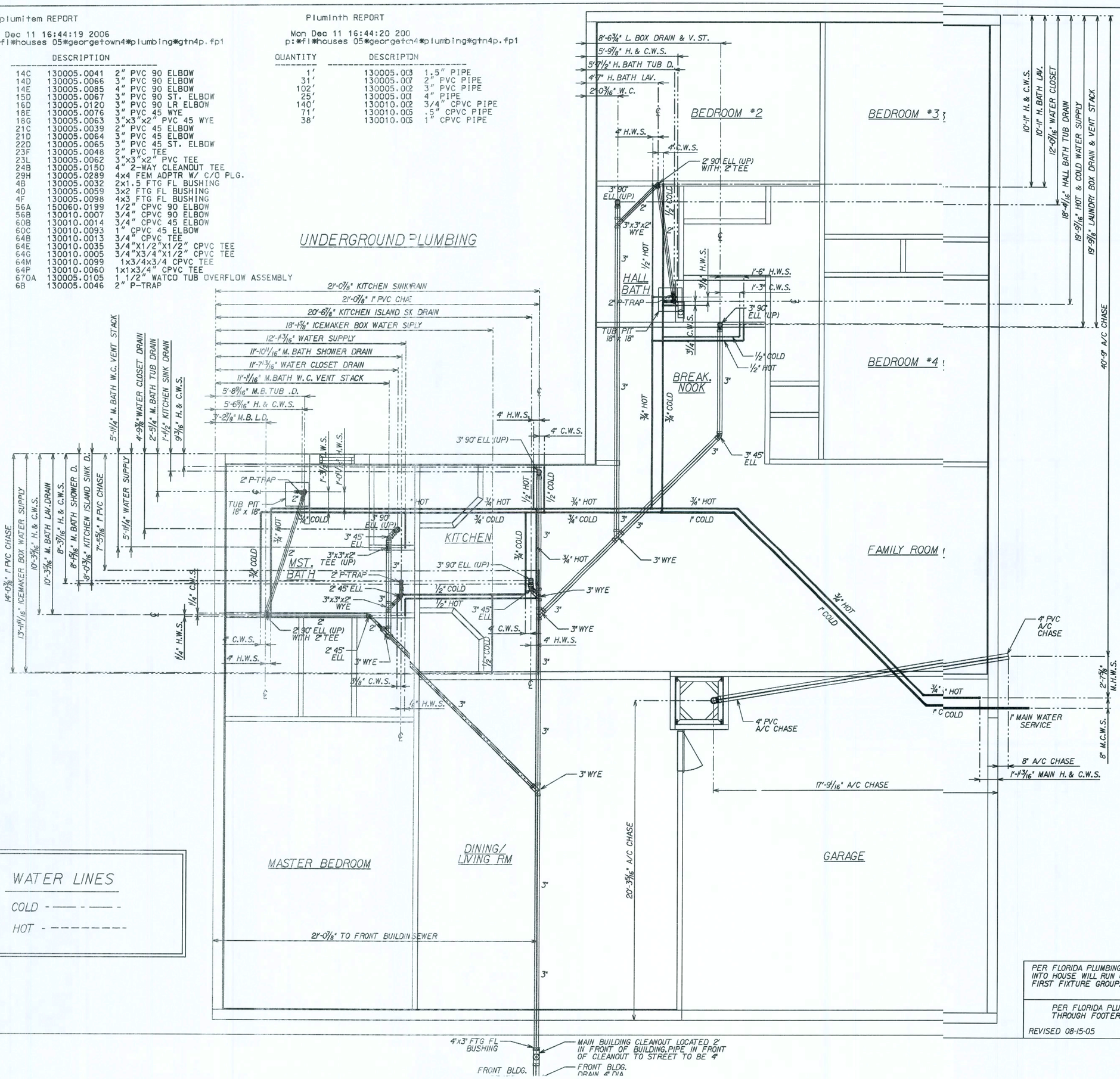
Mon Dec 11 16:44:19 2006
p:*fl*houses 05*georgetown4*plumbing*gtn4p.fp1

QUANTITY		DESCRIPTION	
2	14C	130005.0041	2" PVC 90 ELBOW
2	14D	130005.0066	3" PVC 90 ELBOW
1	14E	130005.0085	4" PVC 90 ELBOW
1	15D	130005.0067	3" PVC 90 ST. ELBOW
2	16D	130005.0120	3" PVC 90 LR ELBOW
5	18E	130005.0076	3" PVC 45 WYE
2	18G	130005.0063	3"x3"x2" PVC 45 WYE
2	21C	130005.0039	2" PVC 45 ELBOW
2	21D	130005.0064	3" PVC 45 ELBOW
1	22D	130005.0065	3" PVC 45 ST. ELBOW
2	23F	130005.0048	2" PVC TEE
1	23L	130005.0062	3"x3"x2" PVC TEE
1	24B	130005.0150	4" 2-WAY CLEANOUT TEE
1	29H	130005.0289	4x4 FEM ADPTR W/ C/O PLG.
2	4B	130005.0032	2x1.5 FTG FL BUSHING
1	4D	130005.0059	3x2 FTG FL BUSHING
1	4F	130005.0098	4x3 FTG FL BUSHING
16	56A	150060.0199	1/2" CPVC 90 ELBOW
7	56B	130010.0007	3/4" CPVC 90 ELBOW
2	60B	130010.0014	3/4" CPVC 45 ELBOW
2	60C	130010.0093	1" CPVC 45 ELBOW
3	64B	130010.0013	3/4" CPVC TEE
3	64E	130010.0035	3/4"X1/2"X1/2" CPVC TEE
9	64G	130010.0005	3/4"X3/4"X1/2" CPVC TEE
1	64M	130010.0099	1x3/4x3/4 CPVC TEE
1	64P	130010.0060	1x1x3/4" CPVC TEE
2	670A	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
3	6B	130005.0046	2" P-TRAP

Pluminth REPORT

Mon Dec 11 16:44:20 200
p:*fl*houses 05*georgetcn4*plumbing*gtn4p.fp1

QUANTITY	DESCRIPTION	
1'	130005.003	1.5" PIPE
31'	130005.007	2" PVC PIPE
102'	130005.002	3" PVC PIPE
25'	130005.001	4" PIPE
140'	130010.002	3/4" CPVC PIPE
71'	130010.005	.5" CPVC PIPE
38'	130010.003	1" CPVC PIPE



WATER LINES

COLD - — - — -

HOT - - - - - - - - -

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:
6/30/06 REV. PLBG FTGS & BOM LIST TJM
08/09/06 REV. CLEANOUT & BOM LIST TJM
12/11/06 REVISED A/C CHASE & BOM TJM
03-01-09 REV. CODE INFORMATION

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FLORIDA:
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p:\houses_05\georgetown4\plumbing\gtn4p.fp1

AMERICANA UNDERGROUND PLBG.

GEORGETOWN-4

4 BEDROOM

DRAWN BY: GARAGE: RIGHT

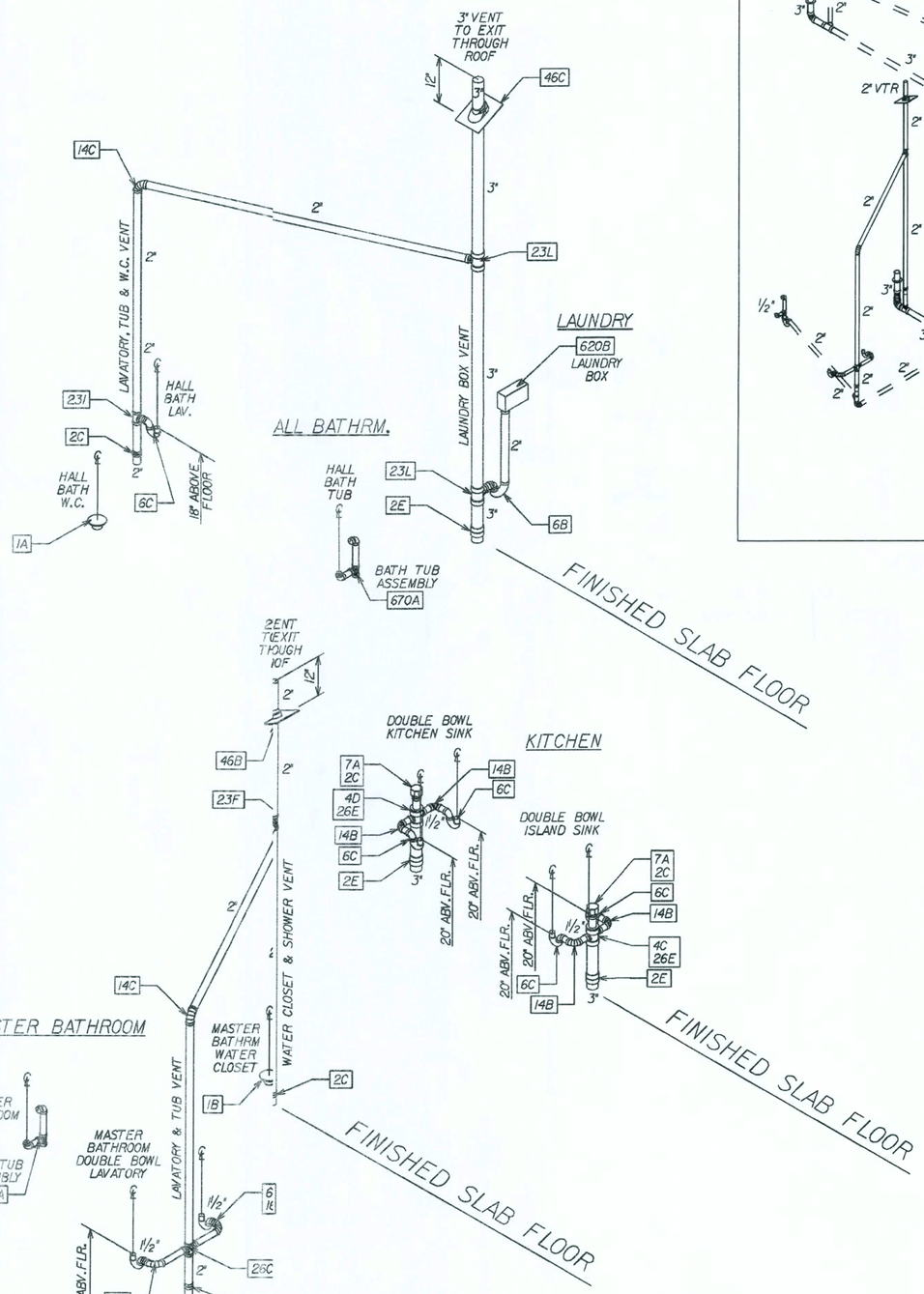
RELEASE DATE: 09-08-04 TOM MARTINEZ

08-34/16

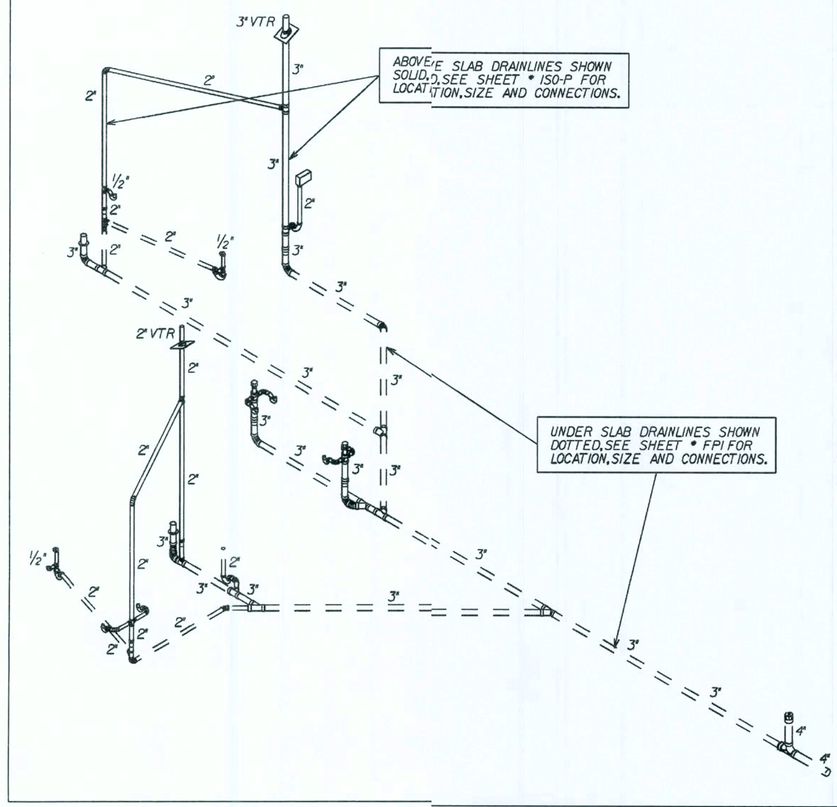
SHEET: FP1

PLOT DATE: 16 MAR 2009

FLORIDA BUILDING CODE 2007 : RESIDENTIAL



COMPLETE SANITARY PLUMBING DIAGRAM:



plumitem REPORT

Mon Sep 18 09:25:48 2006
p:*fl*houses 05*georgetown4*plumbing*gtn4p.plm

QUANTITY	DESCRIPTION		
4	14B	1300055.0013	1.5" PVC 90 ELBOW
2	14C	1300055.0041	2" PVC 90 ELBOW
2	16B	1300055.0187	1.5" PVC 90 LR ELBOW
2	1B	1300055.0099	4"X3" CLOSET FLANGE
1	23F	1300055.0048	2" PVC TEE
1	23I	1300055.0034	2"x2"x1.5" PVC TEE
2	23L	1300055.0062	3"x3"x2" PVC TEE
1	26C	1300055.0133	2"x2"x1.5"x1.5" DOUBLE TEE
2	26E	1300055.0132	3"x3"x1.5"x1.5" DOUBLE TEE
5	2C	1300055.0043	2" PVC COUPLING
3	2E	1300055.0068	3" PVC COUPLING
1	46B	1300050.0125	2" NEOPRENE ROOF FLASHING
1	46C	1300050.0028	3" NEOPRENE ROOF FLASHING
2	4D	1300055.0059	3x2 FTG FL BUSHING
1	620B	1300355.0027	Laundry Box Right
2	670A	1300055.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
1	6B	1300055.0046	2" P-TRAP
7	6C	1300055.0107	1.5"x1.25" P-TRAP W/UNION JT
2	7A	1300055.0160	1.25-2" STUDOR MINI-VENT

Pluminth REPORT

Mon Sep 18 09:25:48 2006
p:*fl*houses 05*georgetown4*plumbing*gtn4p.plm

QUANTITY	DESCRIPTION		
5'		1300055.0023	1.5" PIPE
51'		1300055.0047	2" PVC PIPE
17'		1300055.0072	3" PVC PIPE

REVISIONS :
09/18/06 REVD. KITCHEN SINK ASSEM.- TJM
03-01-09 REV. CODE INFORMATION

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

FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

p:\houses_05\georgetown4\plumb\rcy\gtn4p.iso

AMERICANA D.W.V. PLUMBING ISO

GEORGETOWN-4

4 BEDROOM

DRAWN BY: GARAGE: RIGHT

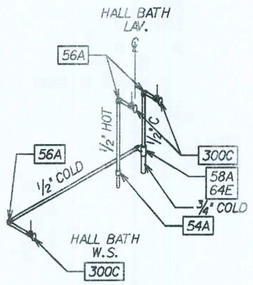
RELEASE DATE: 09-08-04 TOM MARTINEZ

08:34p/6

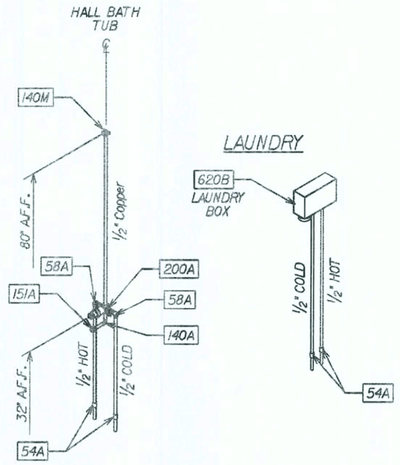
SHEET: ISO-P

PLOT DATE: 16 MAR 2009

FLORIDA BUILDING CODE 2007 : RESIDENTIAL



HALL BATHROOM



plumitem REPORT

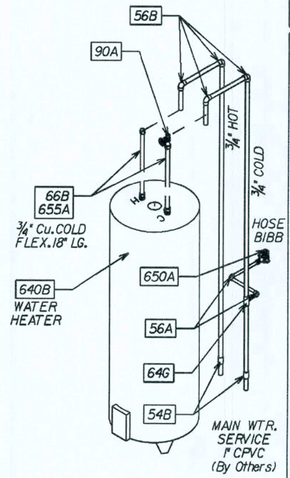
Mon Sep 18 09:25:48 2006
p:*fl*houses 05*georgetown4*plumbing*gtn4p.plm

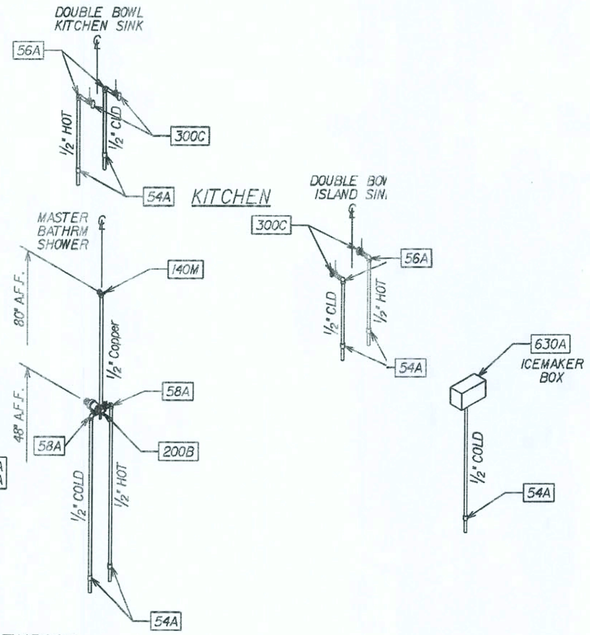
QUANTITY			DESCRIPTION
1	140A	130025.0017	1/2" COPPER 90 ELBOW
2	140M	130025.0051	1/2" COPPER 90 ELBOW Drop
1	151A	130025.0020	1/2" COPPER MALE ADAPTER
1	200A	130035.0061	Tub Diverter
1	200B	130035.0061	Shower Diverter
2	26E	130005.0132	3"x3"x1.5"x1.5" DOUBLE TEE
2	300B	130010.0049	Straight Valve 1/2" x 3/8"
12	300C	130010.0046	1/2" x 3/8"Angle Valve
15	54A	130010.0022	1/2" CPVC COUPLING
4	54B	130010.0009	3/4" CPVC COUPLING
13	56A	150060.0199	1/2" CPVC 90 ELBOW
4	56B	130010.0007	3/4" CPVC 90 ELBOW
5	58A	130010.0027	1/2" CPVC 90 ST. ELBOW
2	605A	130055.0047	Corr Gas App Conn
1	620B	130035.0027	Laundry Box Right
1	630A	130035.0057	Ice Maker Box
1	64D	130010.0096	1/2x1/2x3/4 CPVC TEE
1	64E	130010.0035	3/4"X1/2"X1/2" CPVC TEE
2	64F	130010.0037	3/4"X1/2"X3/4" CPVC TEE
1	64G	130010.0005	3/4"X3/4"X1/2" CPVC TEE
2	650A	130050.0109	1/2" Hose Bib
2	66B	130010.0010	3/4" CPVC MALE ADAPTER BRASS THREADS
1	80A	130010.0006	3/4" CPVC SHUTOFF VALVE

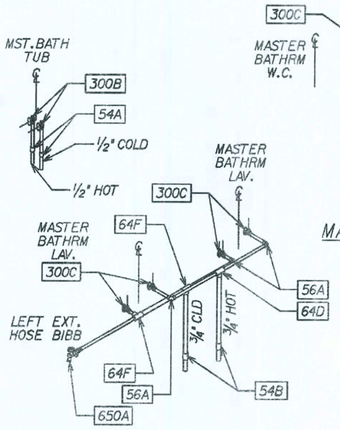
PlumInth REPORT

Mon Sep 18 09:25:48 2006
p:*fl*houses 05*georgetown4*plumbing*gtn4p.plm

QUANTITY		DESCRIPTION
23'	130010.0012	3/4" CPVC PIPE
50'	130010.0025	.5" CPVC PIPE
7'	130025.0006	1/2" COPPER Pipe







MASTER BATHROOM

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

REVISIONS :

03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

AMERICANA | WATER LINES ISO.

GEORGETOWN-4

4 BEDROOM

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 09-08-04

PLOT DATE: 16 MAR 2009

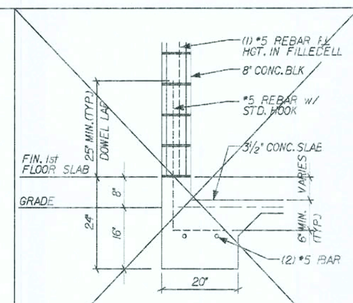
DWG: p:\fl\houses_05\georgetown4\plumbing\gtn4w1.iso

08.34.17

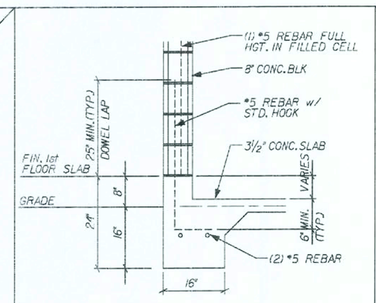
SHEET:

ISO-W

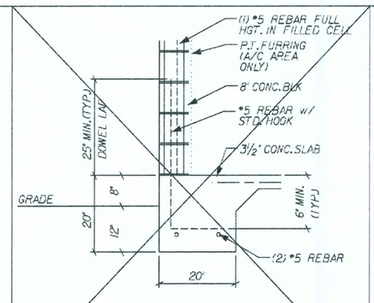
FLORIDA BUILDING CODE 2007 : RESIDENTIAL



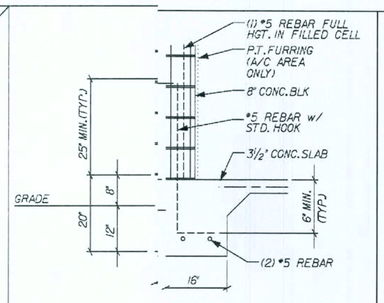
G2 GARAGE 2-STORY
REVISED 11-07-06 DELETED STONE LEDGE — USED
SCALE: ½" = 1'-0"



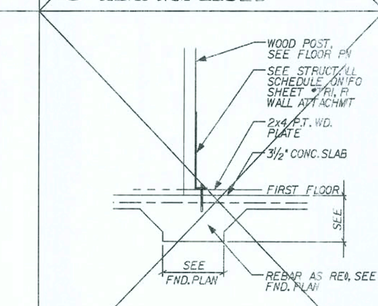
G GARAGE 1-STORY
REVISED 11-07-06 DELETED STONE LEDGE
SCALE: ½" = 1'-0"



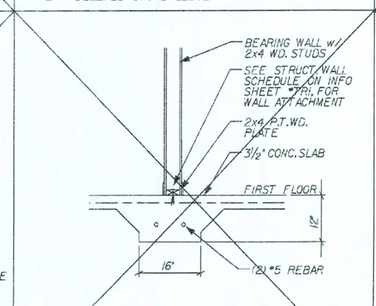
A2 TYPICAL 2-STORY
REVISED 11-07-06 DELETED STONE LEDGE — USED
SCALE: ½" = 1'-0"



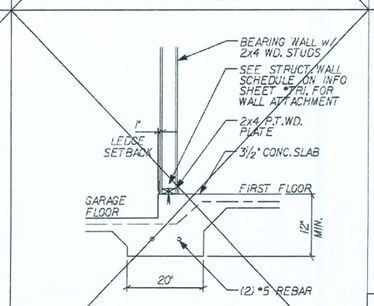
A TYPICAL 1-STORY
REVISED 11-07-06 DELETED STONE LEDGE
SCALE: ½" = 1'-0"



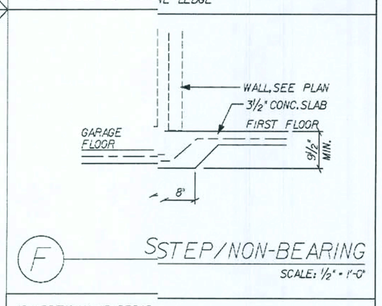
J INTERIOR BEARING PST
NOT USED
SCALE: ½" = 1'-0"



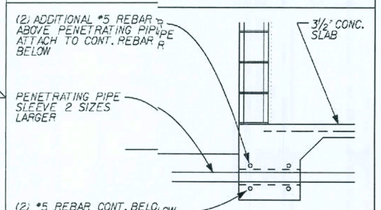
I INTERIOR BEARING
NOT USED
SCALE: ½" = 1'-0"



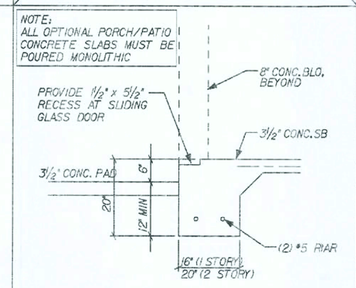
H STEP/BEARING
REVISED 01-31-95
NOT USED
SCALE: ½" = 1'-0"



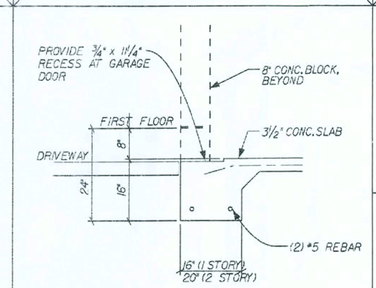
F SSTEP/NON-BEARING
SCALE: ½" = 1'-0"



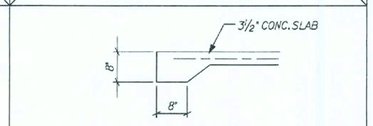
TYP. PIPE PENETRATION
REVISED 06-01-06 ADDED DETAIL
SCALE: ½" = 1'-0"



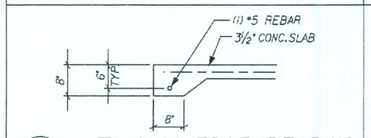
S RECESS @ SLIER
REVISED 05-06-05
SCALE: ½" = 1'-0"



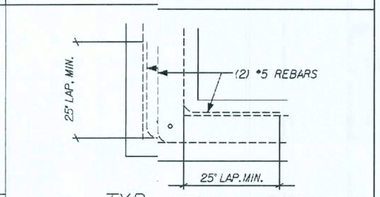
R THICK'N EDGE/GARAGE
REVISED 04-23-06
SCALE: ½" = 1'-0"



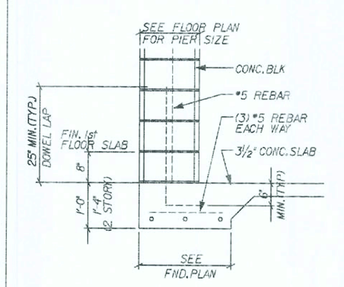
N THICK'N EDGE
SCALE: ½" = 1'-0"



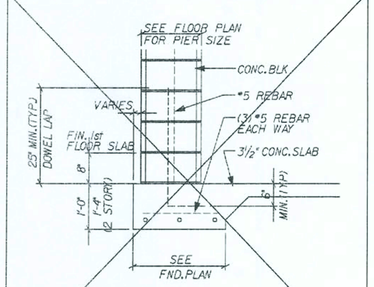
P THICK'N EDGE/BEARING
SCALE: ½" = 1'-0"



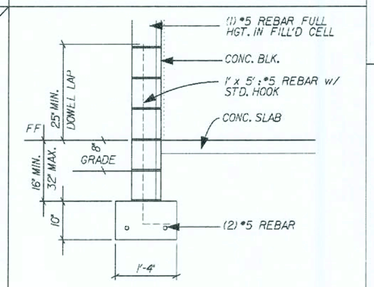
TYP. FTNG @ CORNERS
REVISED 04-07-08 ONE CORNER DETAIL
SCALE: ½" = 1'-0"



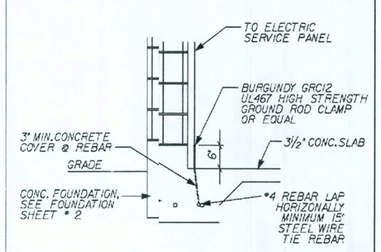
U PIER DETAIL #2
REVISED 02-20-07 16" DEEP @ 2 STORY
SCALE: ½" = 1'-0"



T PIER DETAIL #1
REVISED 02-20-07 16" DEEP @ 2 STORY — USED
SCALE: ½" = 1'-0"



ALTERNATE STEM WALL FOUNDATION : 4 CRS MAX.
03-11-09 : ADDED DET. JL
SCALE: ½" = 1'-0"



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

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

REVISIONS :

03-01-09 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 THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

P:\Houses CS\georgetown\details\ftg14-sdd.fig

1 BOILINGS STANDARD DETAILS

GEORGETOWN 4

DRAWN BY:
GARAGE:
RELEASE DATE: 09-08-04
10:48:31

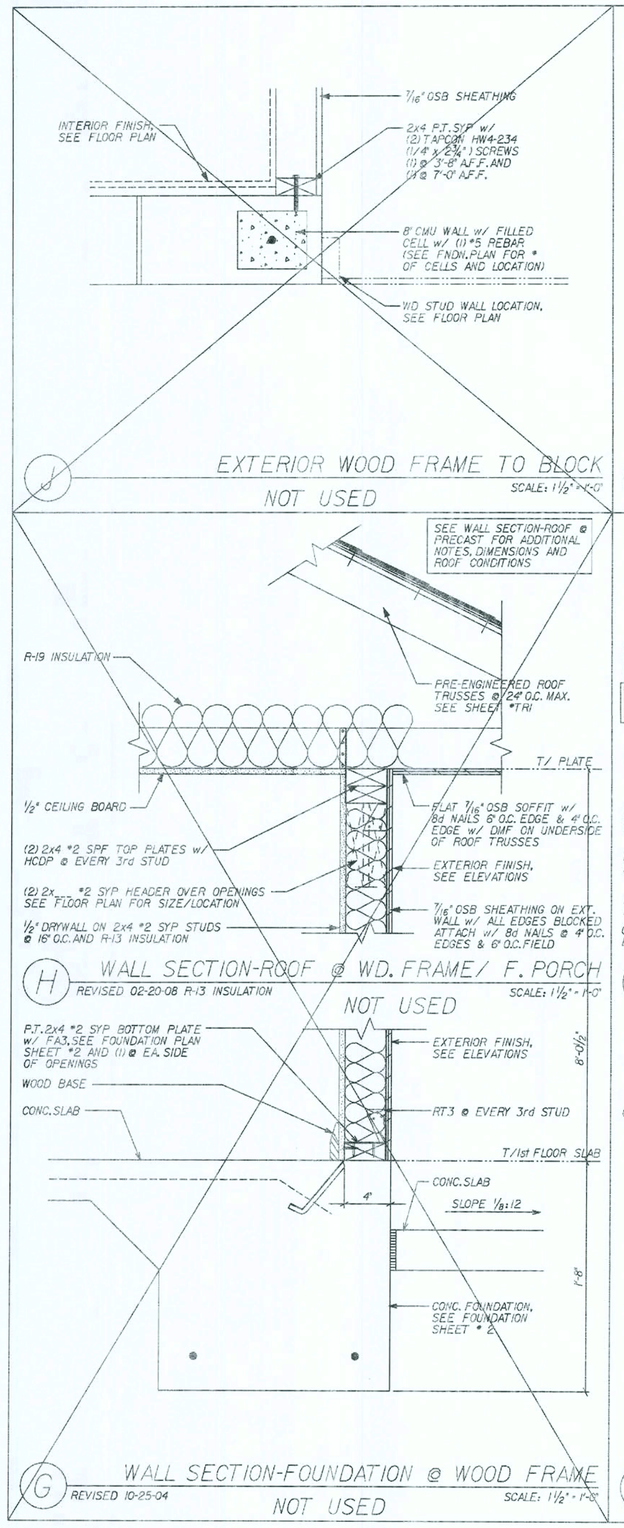
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

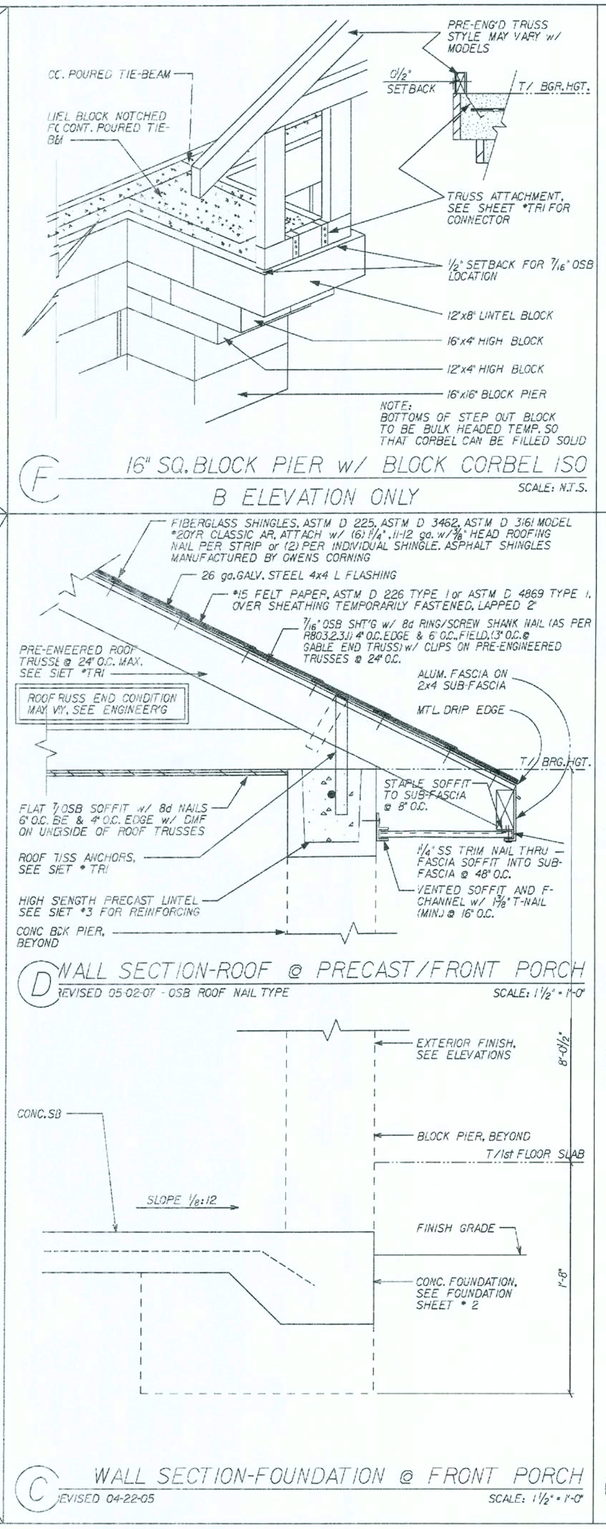
Tomas Ponce P.E.
License No. 0050068

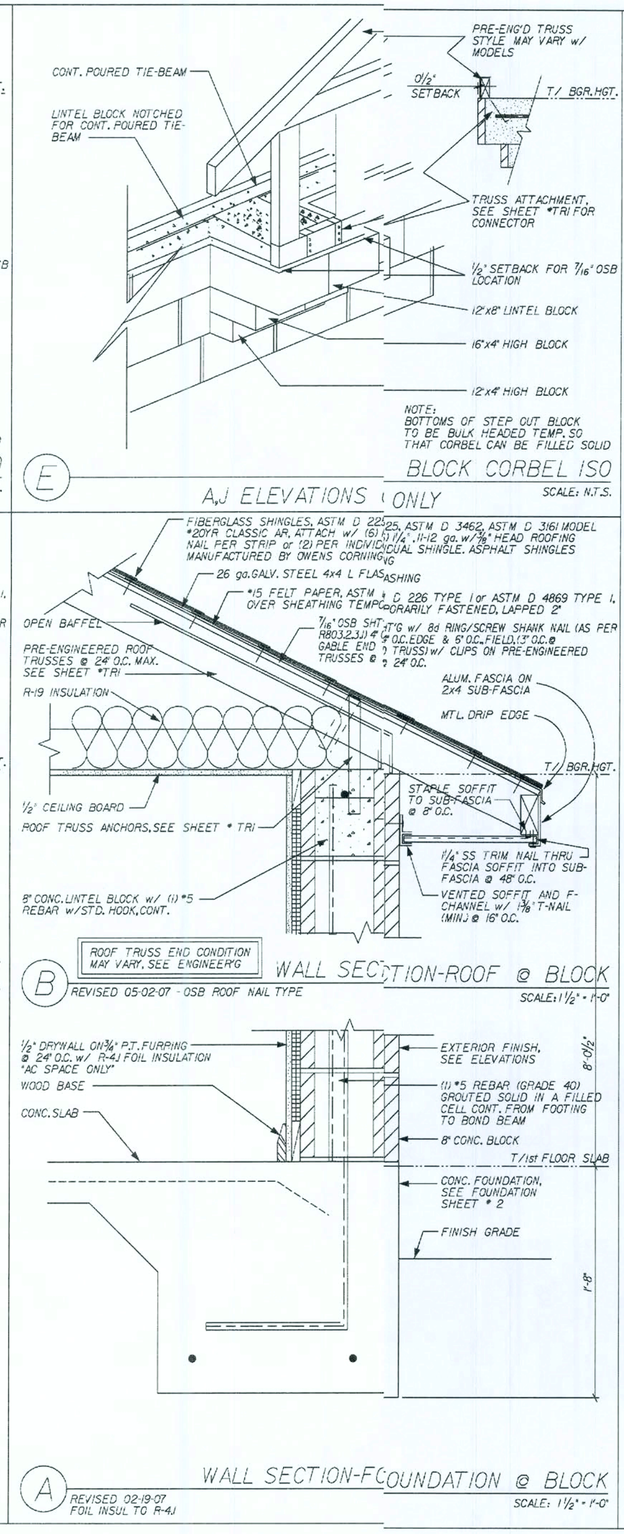
April 2, 2009

SHEET:
FTG

PLOT DATE: 01 APR 2009







THIS DRAWING WAS PRINTED BY USING THE TAMERAN Vivoof SOFTWARE AND HAS BEEN REVIEWED BY SE, DS, ST, MF, JG, TP, EB, DR, TY AND TT.

REVISIONS :

03-01-09 REV. CODE INFORMATION

Maronda Homes

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

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ONE STORY WALL SECTIONS

GEORGETOWN 4

GARAGE:

DRAWN BY:

RELEASE DATE: 09-08-04

PLOT DATE: 01 APR 2009

10x48.xp

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

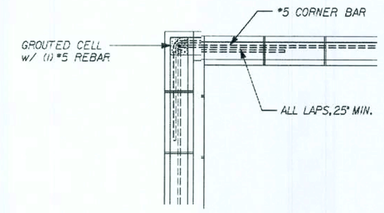
Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:

WS-B1

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

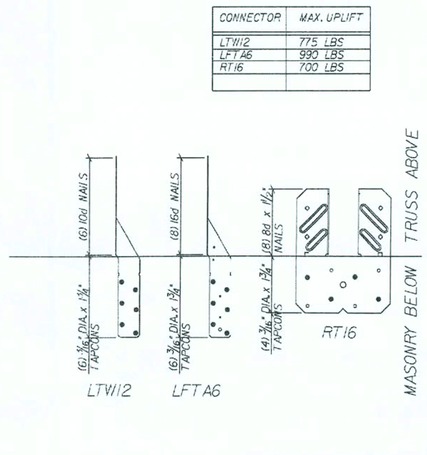
USP HARDWARE - 160%			REVISED 05-10-06
PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
HTA 20 ANCHOR	USP	(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)3/4"WASH 3½" EMBED. -ALL GRDR.-(8) 10d	9790
HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)3/4"WASH 3½" 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)3/4" ANCHOR BOLT 3¼" EMBEDDED	4635
MUGT15	USP	(22) 10d (1)5/8" ANCHOR BOLT 3¾" EMBEDDED	4165
NF37 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 (8) 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)3/4" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC3F	USP	TRUSS (8) 10d (4)3/4" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC73	USP	TRUSS (8) 16d (4)3/4" EXP. BOLTS #6170 2¾" EMBEDDED	1150
UGTS63	USP	TRUSS (8) 16d (2)3/4" ANC. BOLTS 2¾" EMBEDDED	6170



TYPICAL BOND BEAM @ CORNER

REVISED 04-22-05 SCALE: ½" = 1'-0"

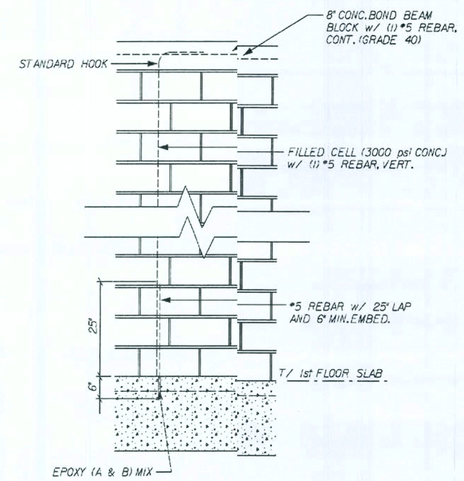
CONNECTOR	MAX. UPLIFT
LTW12	775 LBS
LFTA6	990 LBS
RT16	700 LBS



FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

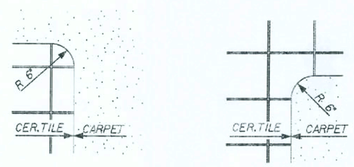
SCALE: N.T.S.



MISSED LOWER TIE DOWN ROD REPAIR

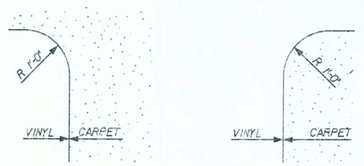
SCALE: ½" = 1'-0"

CERAMIC TILE TO CARPET



OUTSIDE CORNER INSIDE CORNER

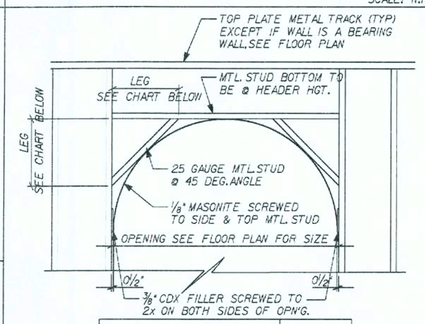
VINYL TO CARPET



OUTSIDE CORNER INSIDE CORNER

FLOOR EDGE CORNER DETAIL

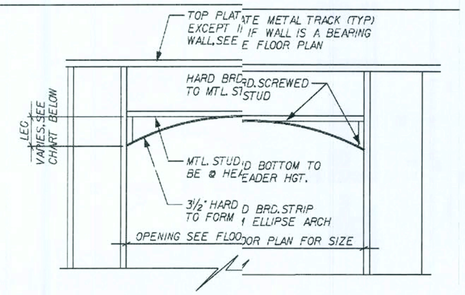
SCALE: ½" = 1'-0"



OPENING	LEGS
2'-1" - 2'-0" ARCH OPENING	7½"
2'-7" - 2'-6" ARCH OPENING	9¼"
2'-9" - 2'-8" ARCH OPENING	9 3/16"
3'-1" - 3'-0" ARCH OPENING	11"
4'-1" - 4'-0" ARCH OPENING	14½"
-	-

INTERIOR CURVED ARCH

REV. 10-06-08 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 :

03-01-09 REV. CODE INFORMATION

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA RESIDENTIAL BUILDING CODE 2007 - RESIDENTIAL

AMERICANA STANDARD DETAILS

GEORGETOWN 4

GARAGE:

DRAWN BY:

RELEASE DATE: 09-08-04

10-16-13

PLOT DATE: 01 APR 2009

rev/houses G:\year\georgetown\details\std details.sdl

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

Tomas Ponce P.E.
License No. 0050068
April 2, 2009

SHEET:

SD1

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

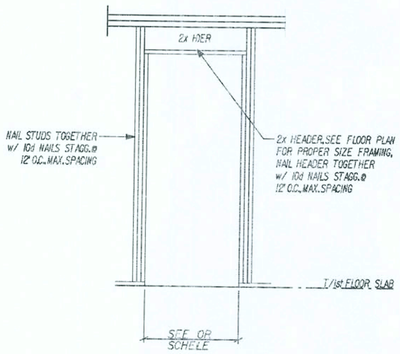
REVISED 07-02-08
REV. DOOR TO O.S.

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD O.S.	25 1/2" x 80 7/8"	26" x 80 1/8"	29" x 82 3/8"
2-8 STANDARD O.S.	33 1/2" x 80 7/8"	34" x 80 1/8"	37" x 82 3/8"
2-10 STANDARD O.S.	35 1/2" x 80 7/8"	36" x 80 1/8"	39" x 82 3/8"
3-0 STANDARD I.S.	37 1/2" x 82"	38" x 82 1/4"	41" x 82 1/8"
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/(12) SIDELIGHT I.S.	64 1/2" x 82"	65" x 82 1/4"	68" x 82 3/8"
5-8 (2)12-10 FRENCH O.S.	70 1/2" x 80 5/8"	71" x 80 1/8"	74" x 82 3/8"

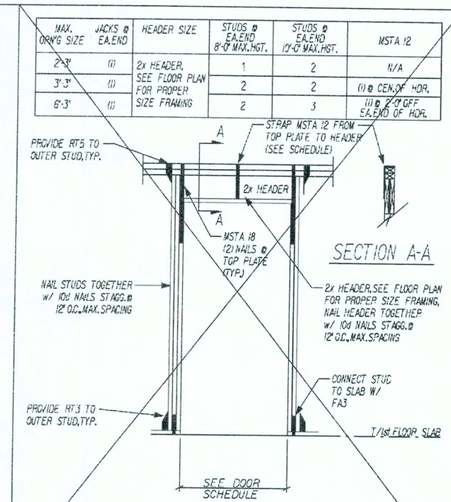
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE 1/4" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE 1/2" FOR WIDTH
** O.S.= OUTSWING
** I.S.= INSWING

MAX. OPNG SIZE	JACKS @ EA.END	HEADER SIZE	STS @ END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING		2
3'-3"	(1)			2
6'-3"	(1)			3

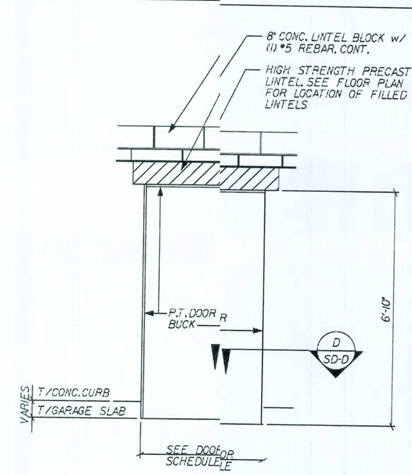


K STD.DOOR - W. FRAME,NO-UPLIFT
SCALE: N.T.S.

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)		2	2	(1) @ CEN.OF HDR.
6'-3"	(1)		2	3	(1) @ 2'-0" OFF EA.END OF HDR.

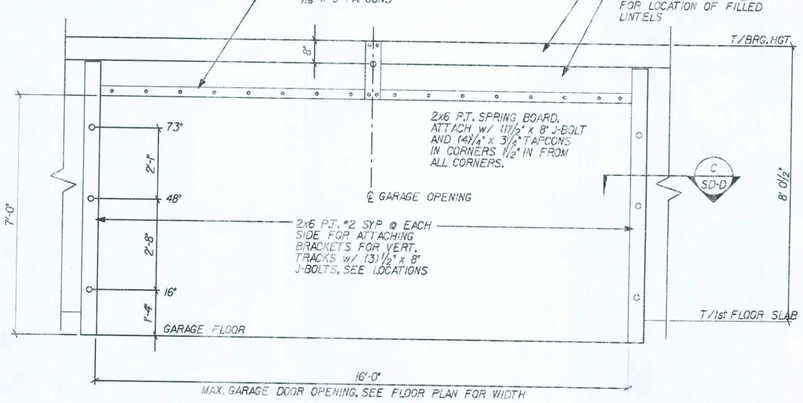


J STD.DOOR - WD FRAME,UPLIFT
NOT USED
SCALE: N.T.S.

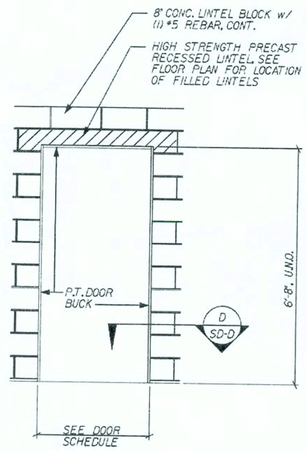


H OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: 3/8" = 1'-0"

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

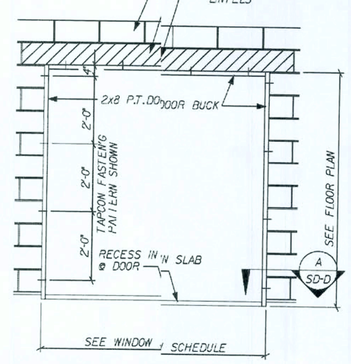


G GARAGE DOOR ELEVATION
REVISED 06-258-08
ADDED NOTE FOR SPRING BOARD
SCALE: 3/8" = 1'-0"

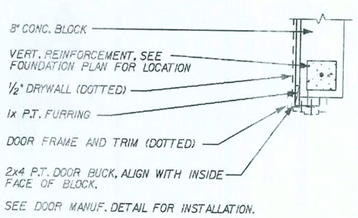


F STANDARD DOOR ELEVATION
SCALE: 3/8" = 1'-0"

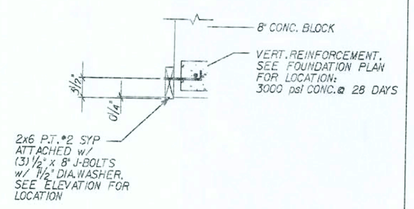
CONTRACTOR NOTE:
FOR INSTALLATION SIZES OF NORANDEX SLIDING DOOR SERIES 500 UP TO 8'-0" x 6'-8" AS PER #96-0131.10 & SERIES 502 UP TO 8'-0" x 8'-0" MAX. (AS PER TEST #96-0608.20)



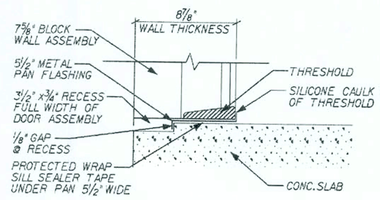
E SLIDING GLASS DOOR ELEVATION
SCALE: 3/8" = 1'-0"



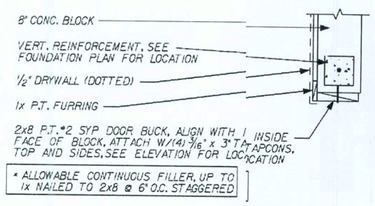
D 2x DOOR BUCK DETAIL
REVISED: 01-15-09
SCALE: 3/4" = 1'-0"



C GARAGE DOR BUCK 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"

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

REVISIONS :
06-20-06 ADDED DOOR PAN DETAIL
03-01-09 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 THE FLORIDA RESIDENTIAL 2007 : RESIDENTIAL

DOORS STANDARD DETAILS

GEORGETOWN 4

GARAGE:
DRAWN BY:
RELEASE DATE: 09-08-04

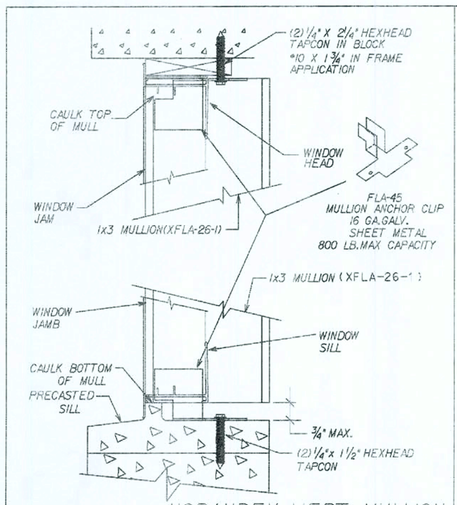
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Tomas Ponce P.E.
License No. 0050068

April 2, 2009

SHEET:
SD-D

PLOT DATE: 01 APR 2009
10-48.13
p:\frames 05\georgetown\details\std doors.dd

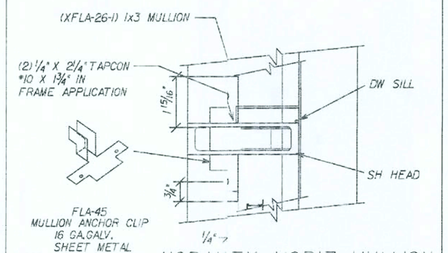


NORANDEX VERT. MULLION CLIP STYLE FLA-45

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

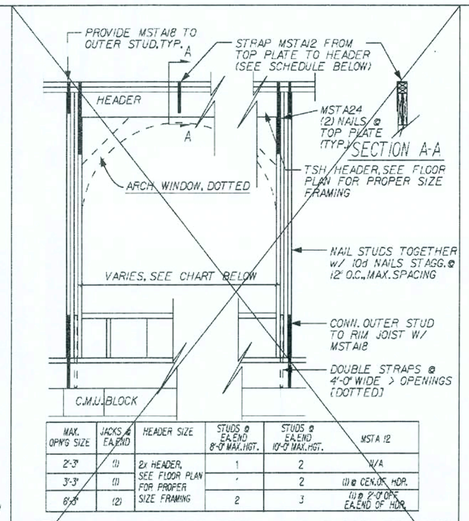
CONTRACTOR NOTE
FOR INSTALLATIONSIZES OF NORANDEX WINDOW SERIES 437/438 UP TO 5 1/8" x 76 3/8" AS PER TEST #90624.20

STANDARD WINDO DETAILS IN BLOCK WALLS UP TO 10 FEET HIGH



NORANDEX HORIZ. MULLION CLIP STYLE FLA-45

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



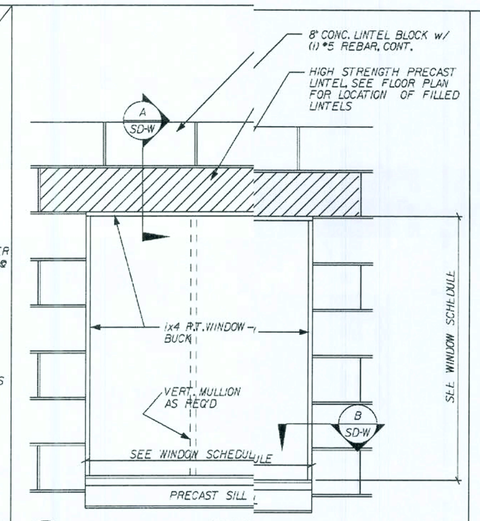
MAX. OPNG SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		"	2	(1) @ CEN.OF HDR.
6'-0"	(2)		2	3	(1) @ 2'-0" OFF EA.END OF HDR.

TYP. HEADER DETAIL-2ND FLOOR FRAMING

REVISED 06-06-07 : REF. WALL PANELS

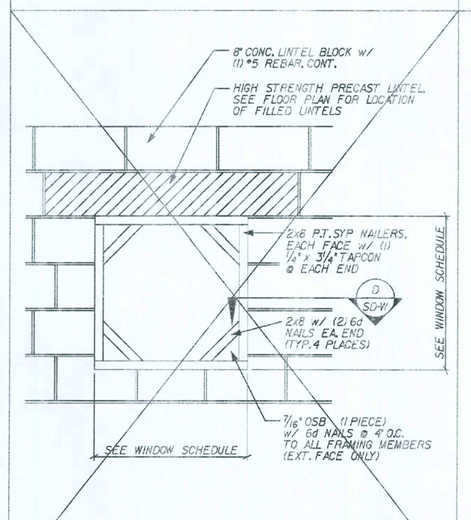
NOT USED

SCALE: N.T.S.



WINDOW-STANDARD-BLK

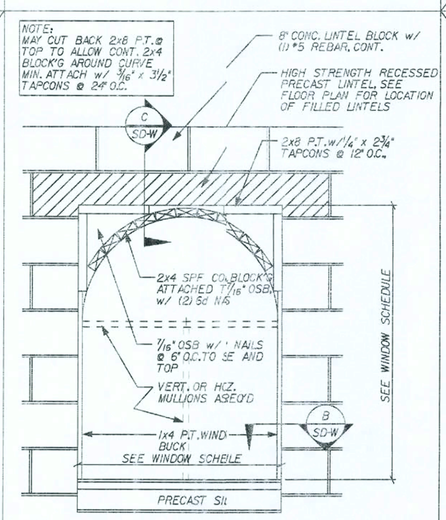
SCALE: 3/4" = 1'-0"



WINDOW-OCTAGON-BLK

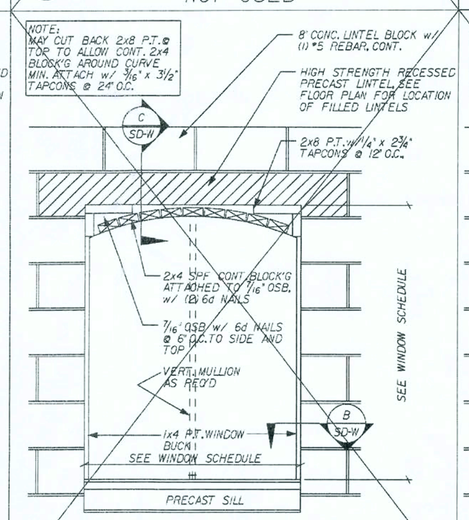
NOT USED

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



WINDOW-12 ROUND TOP-BLK

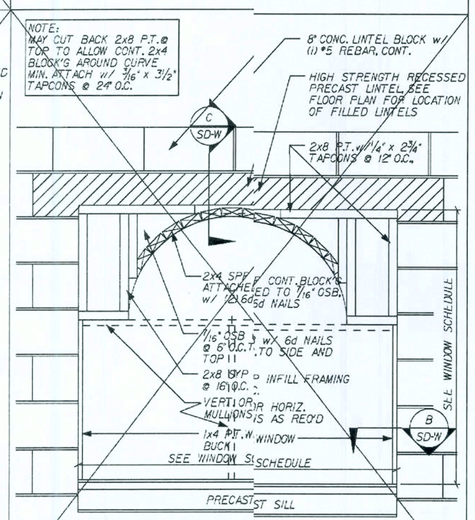
SCALE: 3/4" = 1'-0"



WINDOW-EYEBROW-BLK

NOT USED

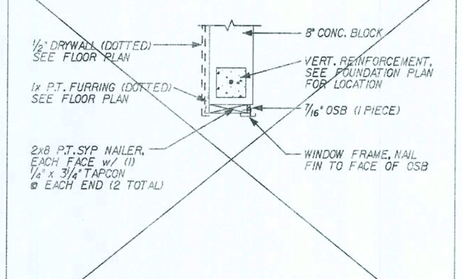
SCALE: 3/4" = 1'-0"



WINDOW-COMBINATION-BLK

NOT USED

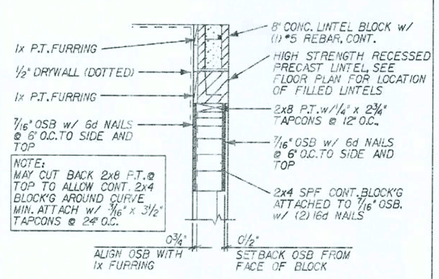
SCALE: 3/4" = 1'-0"



WINDOW JAMB-OCTAGON-BLK

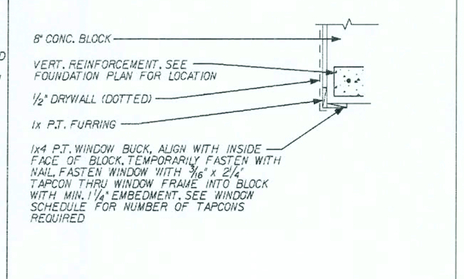
NOT USED

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



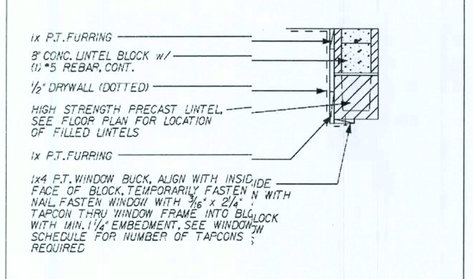
WINDOW HEADARCH WINDOW-BLK

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



WINDOW JAMB-STANDARD-BLK

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



WINDOW HEAD-STANDARD-BLK

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

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

THIS DRAWING WAS PRINTED BY USING THE TAMERAN vivcad SOFTWARE AND HAS BEEN REVIEWED BY SE, DS, ST, MF, JG, TP, EB, DR, TY AND TT.

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIRE. MENTS OF THE FLORIDA BUILDING CODE 2007 : RESIDENTIAL

REVISIONS :

03-01-09 REV. CODE INFORMATION

P:\Windows C:\program files\mrd\data\sfd windows.sdw

WINDOWS STANDARD DETAILS

GEORGETOWN 4

DRAWN BY:

GARAGE:

RELEASE DATE: 09-08-04

10:48:34

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

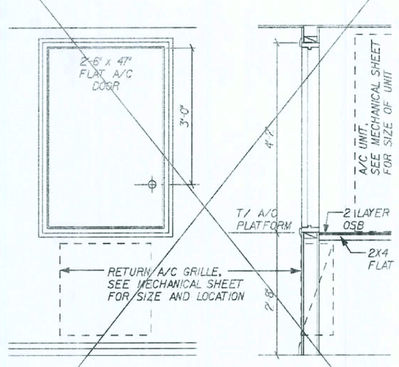
Tomas Ponce P.E.
License No. 0050068

April 2, 2009

SHEET:

SD-W

PLOT DATE: 01 APR 2009

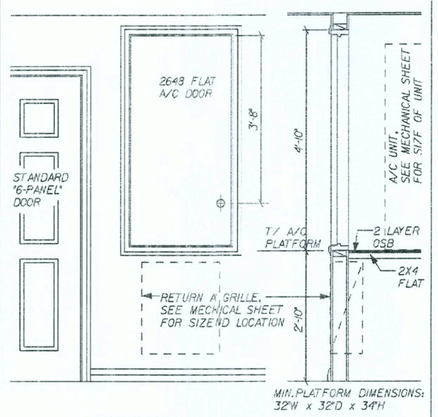


ELEVATION SECTION

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

NOT USED

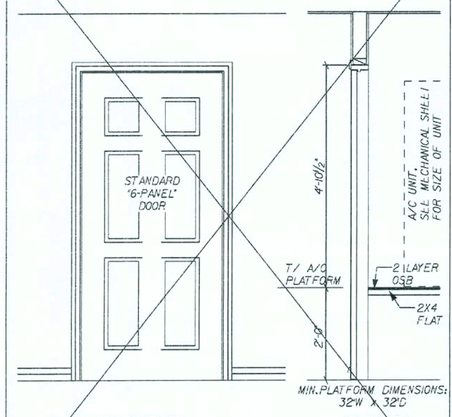
SCALE: 1/2" = 1'-0"



ELEVATION SECTION

ENCLOED A/C PLATFORM

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

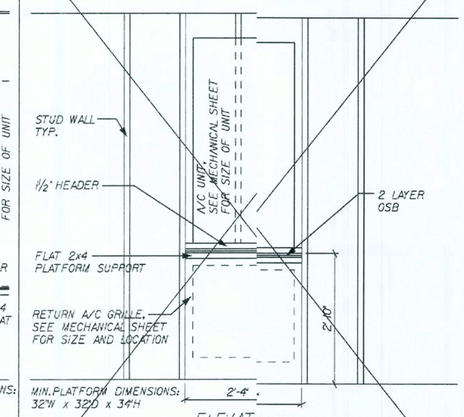


ELEVATION SECTION

FULL DOOR ENCLOSED A/C PLATFORM

NOT USED

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

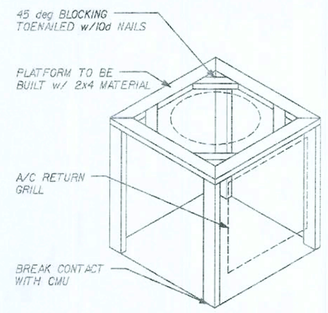


ELEVATION

OPEEN A/C PLATFORM

NOT USED

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



A/C PLATFORM FRAMING

REVISED 01-24-05

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

THIS DRAWING WAS PRINTED BY USING THE TIMERAN vivcad SOFTWARE AND HAS BEEN REVIEWED BY SE, DS, ST, MF, JG, TP, EB, DR, TY AND TT.

REVISIONS :

10 25 06 REV. A/C SPACE IN GARAGE

03-01-09 REV. CODE INFORMATION

Maronda Homes

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN
ACCORDANCE WITH THE REQUIRE-
MENTS OF THE FLORIDA BUILDING CODE
2007 : RESIDENTIAL

STANDARD PLATFORM DETAILS

GEORGETOWN A

AIR-LIFT DETAILS

GARAGE:

DRAWN BY:

RELEASE DATE: 09-08-04

10:48:35

PLOT DATE: 01 APR 2009

jaVNbuuss O:\year getown\details\std heating.sdh

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

Tomas Ponce P.E.
License No. 0050068

April 2, 2009

SHEET:

SD-H

FLORIDA BUILDING CODE 2007 : RESIDENTIAL

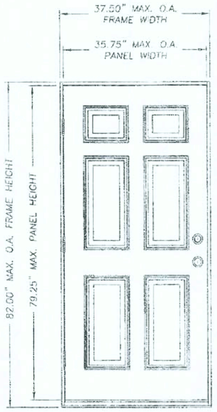
NAN YA PLASTICS CORP.
PLASTPRO INC.
9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039
PH: 800-779-0561 FAX: 973-758-4001

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.

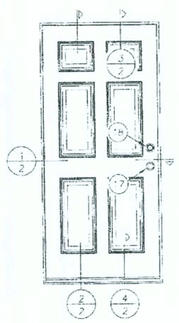
TABLE OF CONTENTS

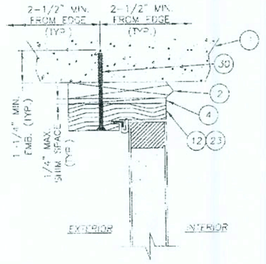


X

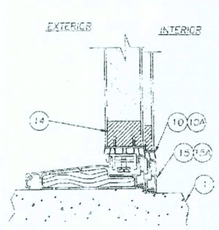
SINGLE OPAQUE DOOR

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

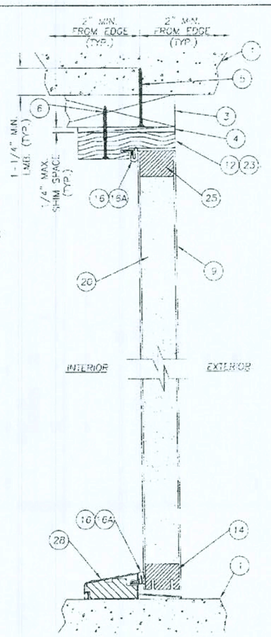




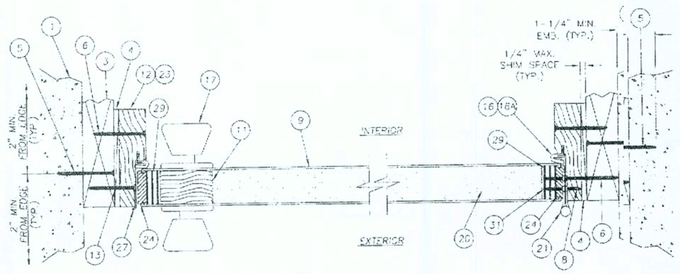
3/2 VERTICAL CROSS SECTION SHOWN W/1X SUB-BUCK SUBSTITUTING CONCRETE SCREWS FOR SCREWS PER SECTION 1714.0.4.2 OF THE FLORIDA BUILDING CODE.



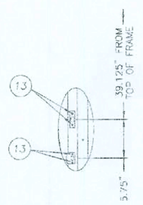
4/2 VERTICAL CROSS SECTION INSWING CONFIGURATION



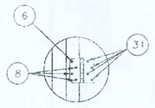
2/2 VERTICAL CROSS SECTION OUTSWING CONFIGURATION



1/2 HORIZONTAL CROSS SECTION OUTSWING CONFIGURATION

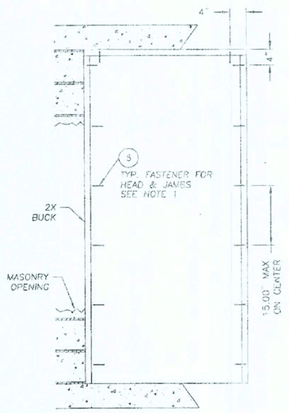


STRIKE PLATE DETAIL

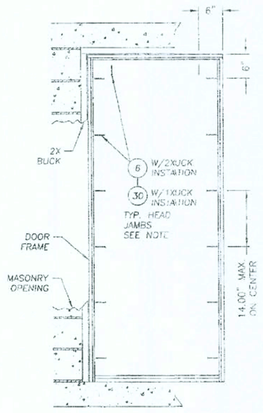


HINGE DETAIL

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



BUCK ANCHORING

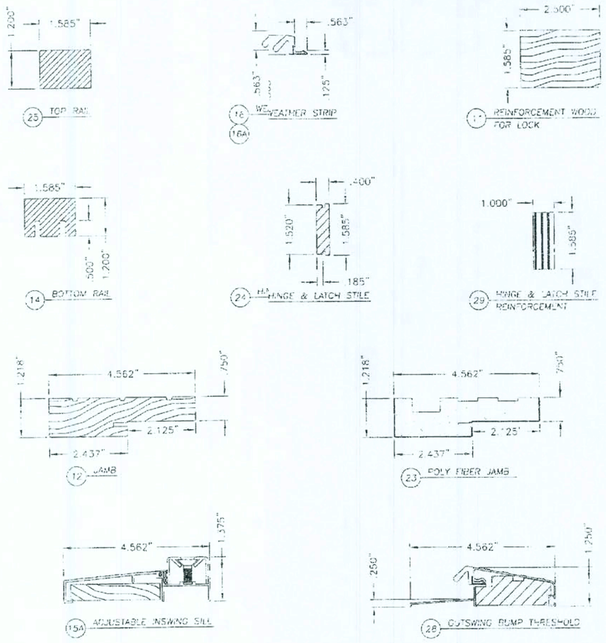


FRAME ANCHING

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 #1628 BY HOLM IND.	VINYL
11	REINFORCEMENT WOOD FOR LOCKS	WOOD
12	FINGER JOINTED PINE JAMB	WOOD
13	#8 x 2-1/4" FPH 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 2 WEATHER STRIPPING BY ENDURA	FOAM
16A	COMPRESSION WEATHER STRIP D-ON #92 BY SCHEEDEL	FOAM
17	KWIKSET KEYED ENTRY GRADE 2	STEEL
18	KWIKSET DEADBOLT GRADE 2	STEEL
19	NOT USED	-
20	POLYURETHANE FOAM BY MANYA	FOAM
21	4" x 4" BUTT HINGE	STEEL
22	#8 x 2" FPH WOOD SCREW	STEEL
23	POLY FIBER JAMB	CONC / 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	AL
30	1/4" x 3-1/4" TAPCON	STEEL
31	#8 x 1" PFH WOOD SCREW	STEEL



Florida Product Approval #6184.1

REVISIONS :

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

PRODUCT APPROVAL INFORMATION SHEET FOR FLORIDA

Project Name:_____ **Permit #**_____

Project Address:_____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and product approval number(s) for the building components listed below as applicable to the building construction project for the permit number listed above. You should contact your product supplier if you do not know the product approval number for any of the applicable listed products. Information regarding statewide product approval may be obtained at: www.floridabuilding.org. REVISED 2-18-2009

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State 2007#	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc. / Nanya Plastics Corp.	Fiberglass Dr Single	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads for Building and Other Structures.	FL 6184.1	+65 / -70
		Fiberglass Dr w/ Sidelite		FL 6184.3	+50 / -50
		Fiberglass Dr w/ Dbl Sidelites		FL 6184.5	+50 / -50
		Fiberglass Dr Single Glazed		FL 6729.1	+50 / -50
2. Sliding	Simonton Windows Florida Extruders	Sliding Glass Doors	500 72X80 SGD-R45 Milestone 1000 SGD	FL 5979.1 FL 8409.2	+50 / -50 +45 / -45
3. Sectional					
4. Roll up	Wayne Dalton Corp.	Garage Doors 130 10' - 16' 9100 / 5120 8' – 9' Garage Doors 140 10' - 16' 9100 / 5120 8' - 9'	As indicated in evaluation report and installation drawings. Not to be used in HVHZ.	FL 9174.3 FL 9174.1 FL 9174.6 FL 9174.5	+25.9 /-28.8 +26.9 /-30.8 +39.2 /-43.7 +43.2 /-49.6
B. WINDOWS					
1. Single hung	Florida Extruders	Milestone Series 1000	53" x 84" Max Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 9262.2	+45 / -45
2. Horizontal slider	Florida Extruders	Milestone Series 1000	74"x72" XO/OX Max Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 9236.1	+45 / -45
5. Fixed	Florida Extruders	Milestone Series 1000	73"x37" Max Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 9242.2	+45 / -45
Category/Subcategory	**Manufacturer**	**Product Description**	**Limitation of Use**	**State 2007#**	**Design Pressures**
7. Pass-through					
8. Projected					
9. Mullion	Florida Extruders	Milestone Tube Mull	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads for Building and Other Structures.	FL 3136-R3	60 PSF
10. Wind breaker					
11. Dual action					
12. Other					
C. PANEL WALL					
1. Siding					
2. Soffit	Alsco Metal Corp	Quad 4 Aluminum Soffit Systems	For use as soffit only. Not for use in HVHZ.	FL 4459-R1	62.0 PSF
D. ROOFING PRODUCTS					
1. Asphalt shingles	Owens Corning	Asphalt Shingle	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade Must be followed.	FL 10674-R1	N/A
	Certain Teed Corp.	Asphalt Shingle		FL 5444-R1	N/A
2. Underlayments					
3. Roofing fasteners					
4. Nonstructural metal roof					
5. Built-up roofing					
6. Modified bitumen	Polyglass USA	Two layer torch down	The max design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC chapter 16.	FL 1654-R4	+N/A /- 622.5
7. Single ply roofing					

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State 2007#	Design Pressures
8. Roofing tiles					
9. Roofing insulation					
11. Wood shingles/shakes					
12. Roofing slate					
13. Liquid applied roofing					
14. Cement-adhesive coats					
15. Roof tile adhesive					
16. Spray applied polyurethane roof					
17. Roof vents	Owens Corning Lamanco	Ridge Vent Off Ridge Vent	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade Must be followed.	FL 10758 FL 3792-R3	N/A N/A
E. SHUTTERS					
1. Storm Panels	ASI Building Products	.018" Galvanized Steel Storm Panels	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 or Basic Wind Speed > 140.	FL 7989-R2	+70 / -70
	Atrium Shutters, Inc.	24 GA Galv. Steel Panel		FL 5547	N/A
	Alufab Hurricane Shutters inc.	24 & 22 GA Steel Panel		FL 4804	N/A
	KD Manufacturing	KD STORM PANEL		FL 2773	N/A
F. STRUCTURAL COMPONENTS					
Wood connector/anchor	United Steel Products	Anchors, Hangers Etc. Structural Components Wood Connectors	Subject to limitation and installation instructions as specified in NOA 05-0105.05.	565-R3,567-R3, 568-R2,569-R3, 570-R2,571-R2, 574-R2,576-R3, 578-R2,815-R1, 816-R1,817-R1, 819-R1,820-R2, 821-R1,822-R1, 859-R4,1247 R1,2633-R2, 4928-R1, 5631-R1, 9855-R1 10739,11664, 11748, 11838, 11920	
Category/Subcategory	**Manufacturer**	**Product Description**	**Limitation of Use**	**State 2007#**	**Design Pressures**
2. Truss plates	Mitek Industries Inc.	Truss Connectors	No Limitation of Use.	FL 2197 R1	N/A
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 8/8)	Lintels shall not exceed the allowable design span. 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-R1	N/A
G. SKYLIGHTS					
1. Skylight					
2. Other					
H. NEW EXTERIOR ENVELOPE PRODUCTS					
1.					
2.					

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 responsibility 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 a 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. ENG'RS NOTE
02-23-2009 UPDATED FOR 2007 CODES

Maronda Homes
COPYRIGHT © 2005 MARONDA HOMES
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

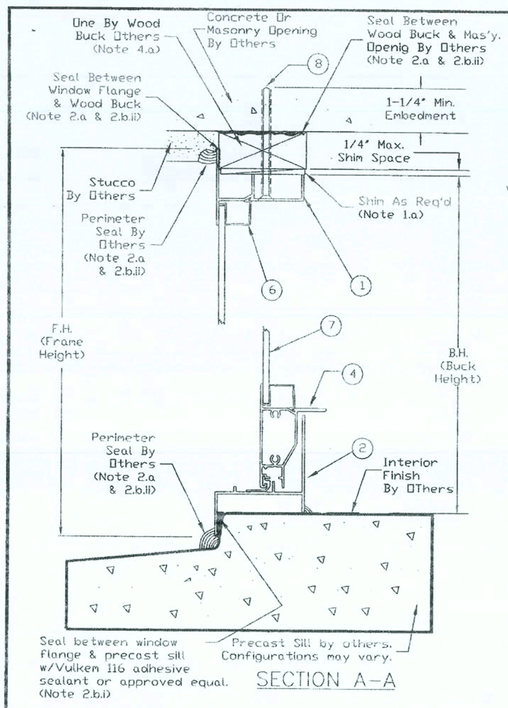
FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2007 , RESIDENTIAL.
ALL CONNECTORS HAVE BEEN CHECKED FOR UPLIFT AND LATERAL CABLE LOADS.
EXPOSURE B, ENCLOSED BUILDING.

PRODUCT APPROVAL

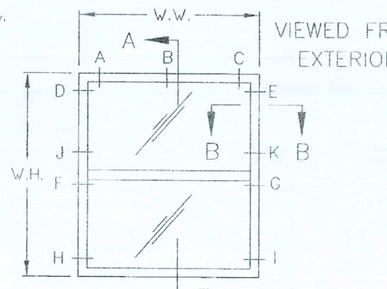
GARAGE:
DRAWN BY:
RELEASE DATE: MARCH 1, 2009

SHEET:

pxf\prod_approval.dgn
14:47:49

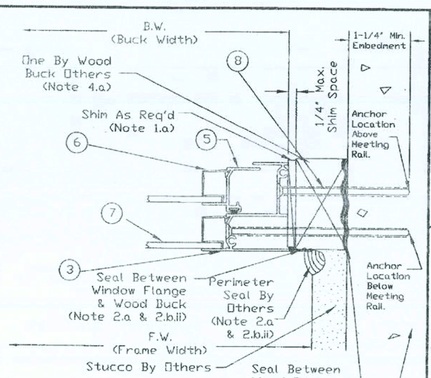


SECTION A-A

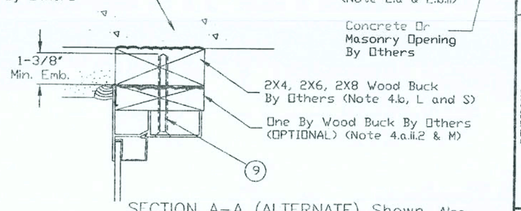


VIEWED FROM EXTERIOR

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, 1500 & 2000 Non-Impact Resistant Aluminum Flange Frame Single Hung Window. Also applicable to Milestone Series 1500 and 2000 Single Hung Non-Impact Resistant Aluminum Flange Frame 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/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 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 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.

Robert J. Amoruso, P.E.
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ROBERT J. AMORUSO LICENSE No. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/6/07

Drawing No. FLEX21110
Sheet 1 of 2

Florida Extruders Int'l., Inc.
2540 Jewett 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 FLEX0015
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

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 Sil.

(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.

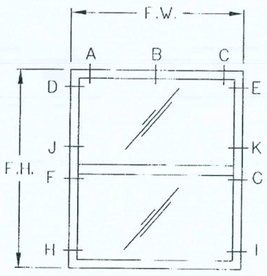
#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK (SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

(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 Sil.

(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 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.

Drawing No. FLEX21110
Sheet 2 of 2

Florida Extruders Int'l., Inc.
2540 Jewett 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 FLEX0015
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

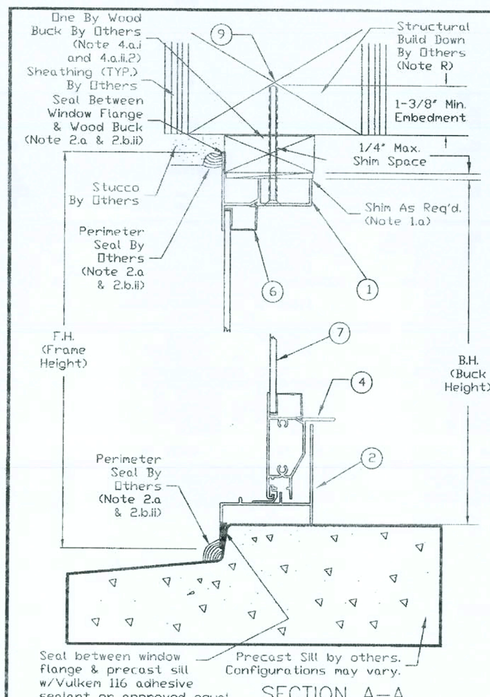
Florida Product Approval # FL9262.2 SINGLE HUNG

SHEET: WIN6

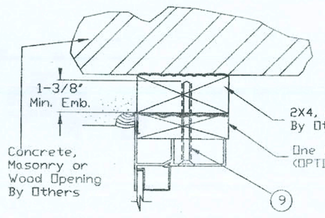
FLORIDA EXTRUDERS
WINDOWS IN BLOCK
1 of 6
RELEASE DATE: 09/03/08

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

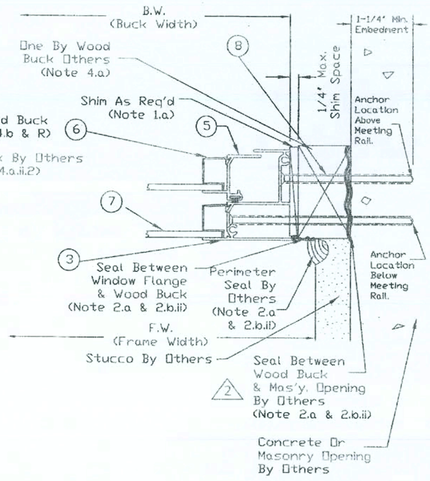
REVISIONS :
2-16-09 Updated to Code.



SECTION A–A



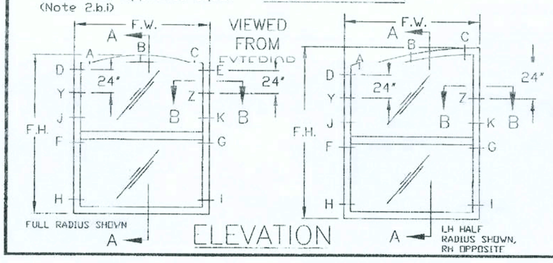
SECTION A–A (ALTERNATE) Shown. Also applicable to Section B–B for installation with two by with or w/o one by wood bucks.



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 work 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
(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/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

LICENSE No. 49752 STATE OF FLORIDA — ROBERT J. AMORUSO — REGISTERED PROFESSIONAL ENGINEER
3/6/07

Drawing No. FLEX22110
Sheet 1 of 2

Florida Extruders Int'l., Inc.
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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 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 FLEX0040
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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www.floridaextruders.com
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 FLEX0040
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

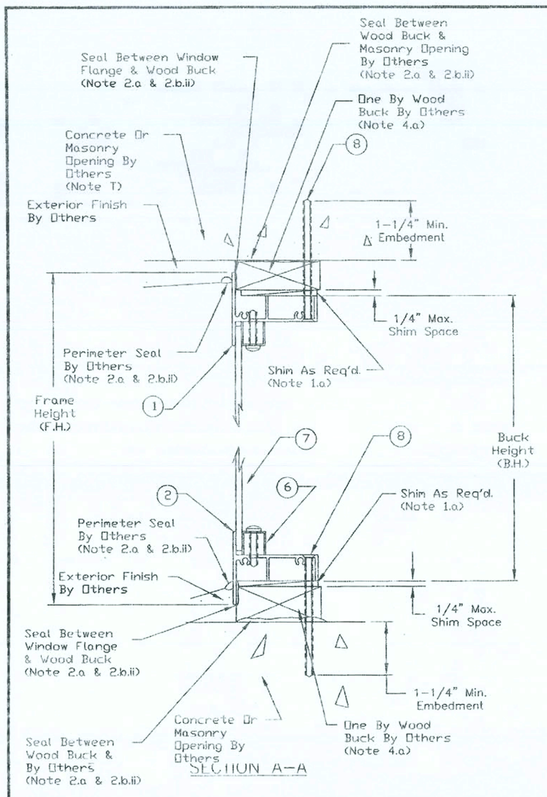
Florida Product Approval # FL9262.2 SINGLE HUNG

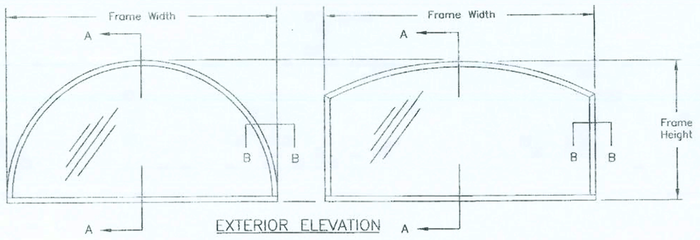
SHEET: WIN6

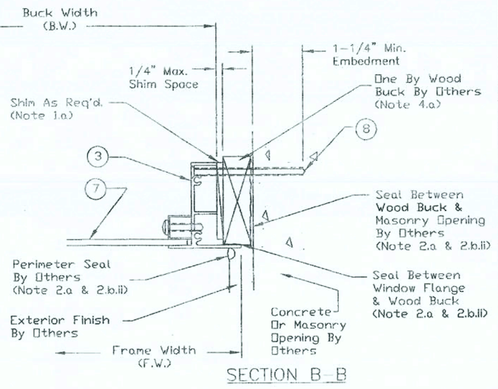
FLORIDA EXTRUDERS
WINDOWS IN BLOCK
2 of 6
RELEASE DATE: 09/03/08

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

REVISIONS :
2-16-09 Updated to Code.







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 must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding 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
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 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.

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.

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www.floridaextruders.com
Florida COA No. 9235

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	12/7/05	RJA	Supersedes FLEX0035
1	11/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised edge distance tolerance

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

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

ROBERT JAMES AMORUSO 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 buck 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.
- Corner distance measured from tip of frame. 2

(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.
- Corner distance measured from tip of frame. 2

(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.

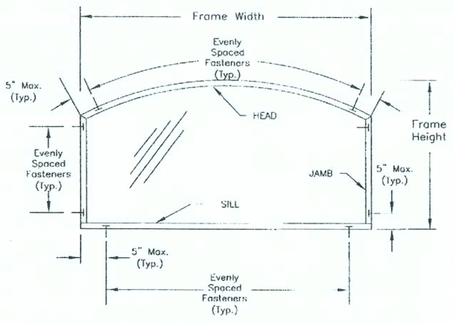
DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(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 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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Florida COA No. 9235

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	12/7/05	RJA	Supersedes FLEX0035
1	11/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised edge distance tolerance

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

Drawing No. FLEX28110
Sheet 2 of 2

Florida Product Approval # FL9242.2

FIXED

SHEET: WINb

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
3 of 6
RELEASE DATE: 09/03/08

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

REVISIONS :
2-16-09 Updated to Code.

FASTENER QUANTITIES TABLE (See Elevation View which depicts for illustrative purposes only maximum number of fasteners in Head & Jambs

Series 1000 Horizontal Slider OX - OX Configuration

Size Code	Frame (1) Width	Frame (1) Height	Fastener Quantities (2) Head	Fastener Quantities (2) Jambs
1H2	26 1/2	26	4	2
1H3	26 1/2	38 3/8	4	2
1H4	26 1/2	50 5/8	4	3
1H4S	26 1/2	56 1/4	4	4
1H5	26 1/2	63	4	4
1H6	26 1/2	72	4	4
3H2	30 1/2	26	4	2
3H3	30 1/2	38 3/8	4	2
3H4	30 1/2	50 5/8	4	3
3H4S	30 1/2	56 1/4	4	4
3H5	30 1/2	63	4	4
3H6	30 1/2	72	4	4
22	37	26	4	2
23	37	38 3/8	4	2
24	37	50 5/8	4	3
24S	37	56 1/4	4	4
25	37	63	4	4
26	37	72	4	4
482	48	26	4	2
483	48	38 3/8	4	2
484	48	50 5/8	4	3
484S	48	56 1/4	4	4
485	48	63	4	4
486	48	72	4	4
32	53 1/8	26	4	2
33	53 1/8	38 3/8	4	2
34	53 1/8	50 5/8	4	3
34S	53 1/8	56 1/4	4	4
35	53 1/8	63	4	4
36	53 1/8	72	4	4

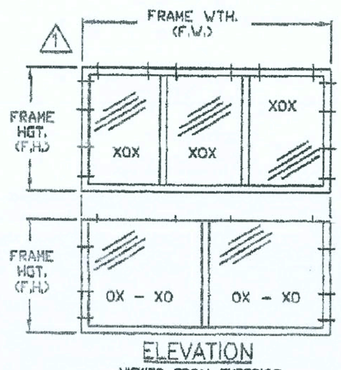
Series 1000 Horizontal Slider OX - OX Configuration

Size Code	Frame (1) Width	Frame (1) Height	Fastener Quantities (2) Head	Fastener Quantities (2) Jambs
D22	74	26	4	2
D23	74	38 3/8	4	2
D24	74	50 5/8	4	3
D24S	74	56 1/4	4	4
D25	74	63	4	4
D26	74	72	4	4
2020	24	24	4	2
2030	24	36	4	2
2040	24	48	4	3
2048	24	54	4	4
2050	24	60	4	4
2060	24	72	4	4
3020	36	24	4	2
3030	36	36	4	2
3040	36	48	4	3
3048	36	54	4	4
3050	36	60	4	4
3060	36	72	4	4
4020	48	24	4	2
4030	48	36	4	2
4040	48	48	4	3
4048	48	54	4	4
4050	48	60	4	4
4060	48	72	4	4
4820	54	24	4	2
4830	54	36	4	2
4840	54	48	4	3
4848	54	54	4	4
4850	54	60	4	4
4860	54	72	4	4
5020	60	24	4	2
5030	60	36	4	2
5040	60	48	4	3
5048	60	54	4	4
5050	60	60	4	4
5060	60	72	4	4
5520	66	24	4	2
5530	66	36	4	2
5540	66	48	4	3
5548	66	54	4	4
5550	66	60	4	4
5560	66	72	4	4
6020	72	24	4	2
6030	72	36	4	2
6040	72	48	4	3
6048	72	54	4	4
6060	72	72	4	4

Series 1000 Horizontal Slider XOX Configuration

Size Code	Frame (1) Width	Frame (1) Height	Fastener Quantities (2) Head	Fastener Quantities (2) Jambs
D22	74	26	6	2
D23	74	38 3/8	6	2
D24	74	50 5/8	6	3
D25	74	63	6	4
D26	74	72	6	4
D32	106 1/4	26	6	2
D33	106 1/4	38 3/8	6	2
D34	106 1/4	50 5/8	6	3
D35	106 1/4	63	6	4
D36	106 1/4	72	6	4
T22	111	26	6	2
T23	111	38 3/8	6	2
T24	111	50 5/8	6	3
M2	120	26	6	2
M3	120	38 3/8	6	2
M4	120	50 5/8	6	3
6020	72	24	8	2
6030	72	36	8	2
6040	72	48	8	3
6050	72	60	8	4
6060	72	72	8	4
7020	84	24	8	2
7030	84	36	8	2
7040	84	48	8	3
7050	84	60	8	4
7060	84	72	8	4
8020	96	24	8	2
8030	96	36	8	2
8040	96	48	8	3
8050	96	60	8	4
8060	96	72	8	4
9020	108	24	8	2
9030	108	36	8	2
9040	108	48	8	3
9050	108	60	8	4
9060	108	72	8	4
10020	120	24	8	2
10030	120	36	8	2
10040	120	48	8	3

Fastener Quantities Table Notes:
1) Buck Width and Height = Frame Width or Height − 1".
2) Only the required number of holes at the correct locations will be present in the frame based on the



ELEVATION
VIEWED FROM EXTERIOR

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(P) If exact window size is not listed in fastener installation chart, use fastener quantity listed for next larger size.
(Q) Installations depicted in these instructions acceptable for design pressures to 60 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 60 PSF 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.

Drawing No. FLEX25110
Sheet 2 of 2

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407-323-3300 - 407-322-3907 (fax)
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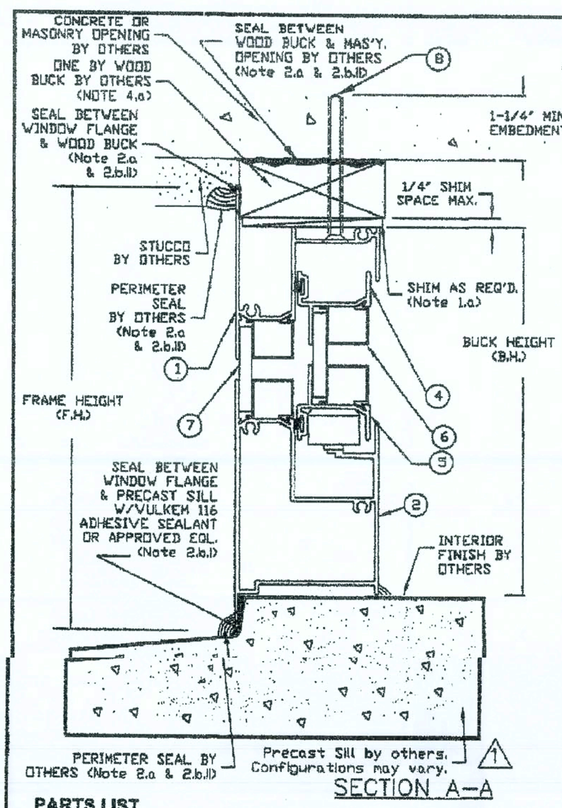
Florida COA No. 9235

TITLE
Milestone Series 1000
Non-Impact Resistant Aluminum Flange Frame Horizontal Sliding Window
Installation Drawing for Masonry Substrate with Concrete Screws

No.	Date	By	Description
0	12/27/07	RJA	Supersedes FLEX0020
1	11/14/08	RJA	Supersedes FLEX0022 Revised Anchorage

Date: 11/14/08
Scale: NTS
Drawn By: RJA
Checked By: JH

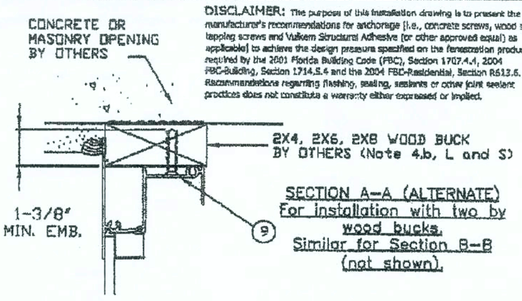


SECTION A–A

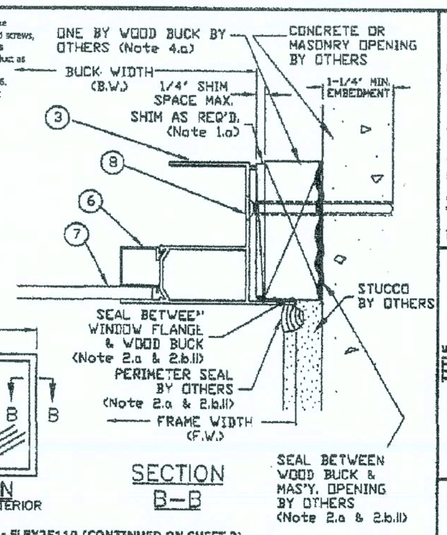
PARTS LIST

1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Head - Sash
5 Sill - 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 (L) on this drawing and Note 8 on Drawing FLEX20100.

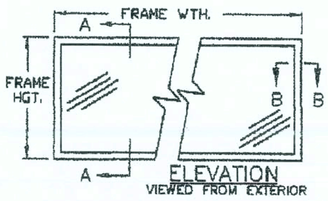
DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, tapping screws and Vulkem Structural Adhesive (or other approved equal) as applicable) to achieve the design pressure specified on the fenestration 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.



SECTION A–A (ALTERNATE)
For installation with two by wood bucks.
Similar for Section B–B (not shown).



SECTION B–B



ELEVATION
VIEWED FROM EXTERIOR

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.
(A) Milestone Series 1000 Horizontal Sliding Aluminum Window in XO, OX and XOX configurations is shown.
(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 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 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.

FASTENER INSTALLATION INSTRUCTIONS - FLEX25110 (CONTINUED ON SHEET 2)

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 concrete. See "Parts List" on 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 for the full length of the Sill meeting the requirements of Note 2.b.i on FLEX20100.

(J) See fastener quantity table on sheet 2 for concrete screw quantities and additional installation requirements.
(K) Horizontal Sliding XO-OX and XOX configurations are fabricated with the required number of holes for installations. All factory applied installation fastener holes in the head and jambs will be filled with concrete screws in accordance with note (I) above.

#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK (See Section A-A, Alternate on Sheet 1. 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 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 for the full length of the Sill meeting the requirements of Note 2.b.i on FLEX20100.

(M) See fastener quantity table this sheet for wood screw quantities and additional installation requirements.
(N) Horizontal Sliding XO-OX and XOX configurations are fabricated with the required number of holes for installations. All factory applied installation fastener holes in the head and jambs will be filled with #10 wood screws in accordance with note (L) above.
(O) Wood screws shall not be used to fasten assembly into the end grain of wood.

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Drawing No. FLEX25110
Sheet 1 of 2

Florida Product Approval # FL9236.1

HORIZONTAL

WIN6

SHEET:

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
4 of 6
RELEASE DATE: 09/03/08

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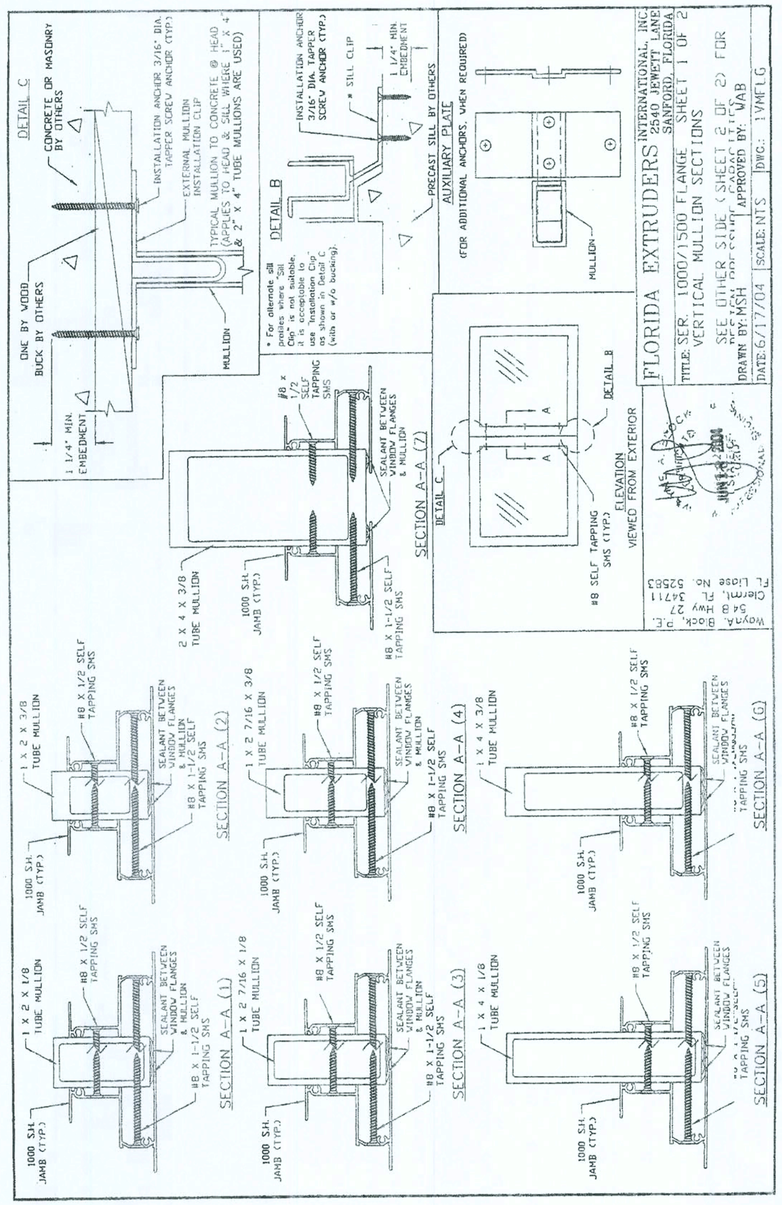
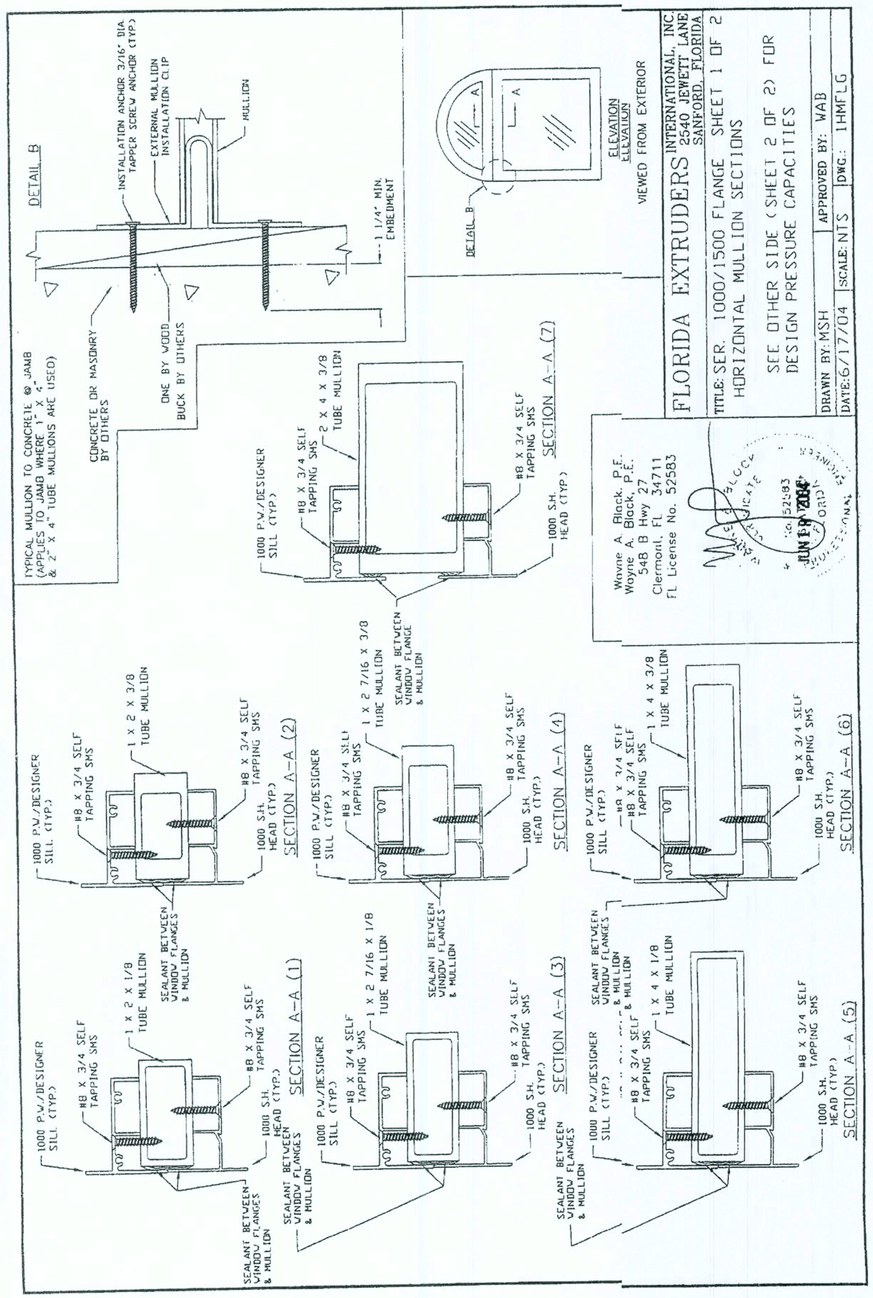
REVISIONS :
2-16-09 Updated to Code.





Florida Product Approval # FL3136-R3

MULLIONS

REVISIONS :

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FLORIDA EXTRUDERS

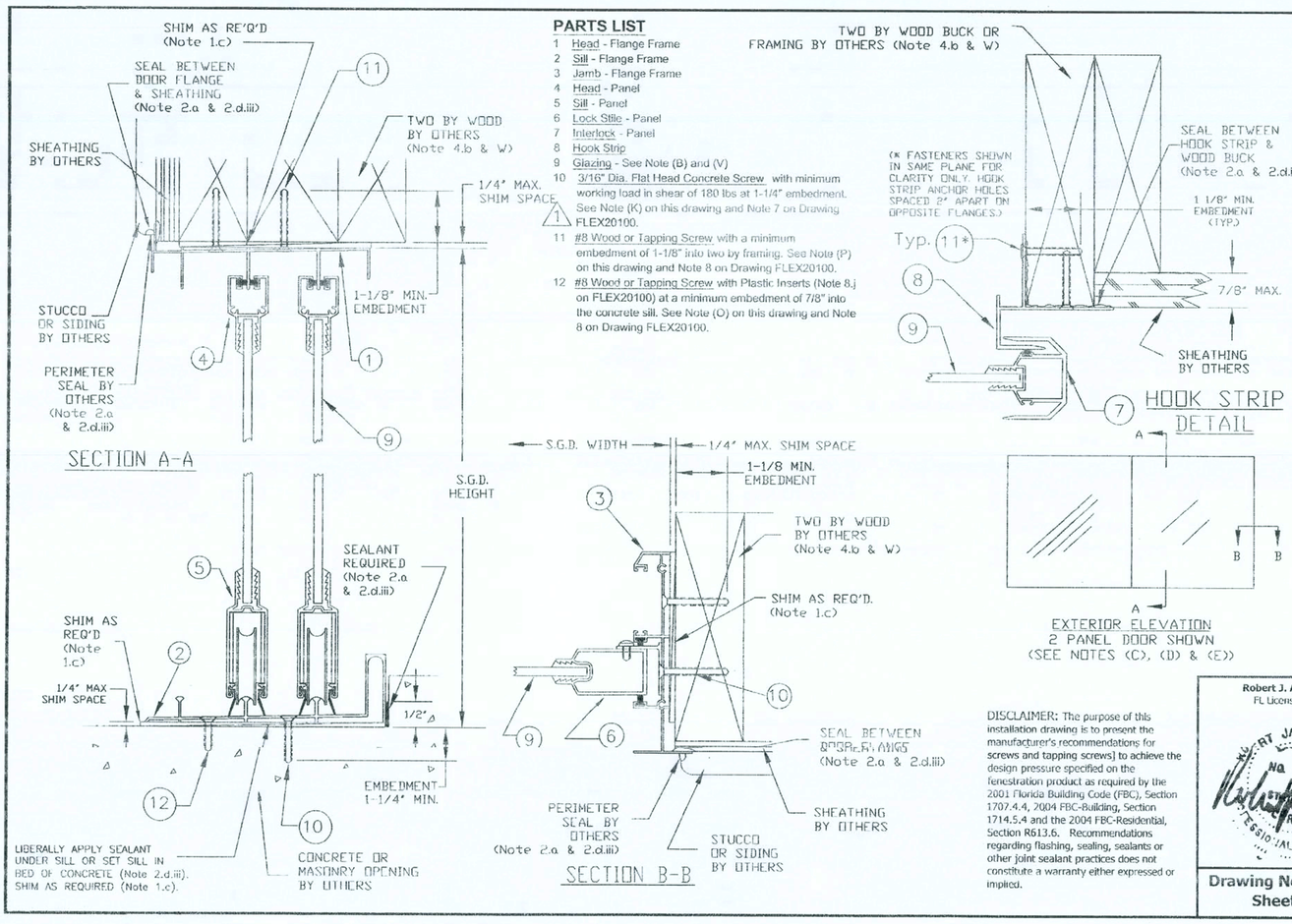
WINDOWS IN BLOCK

5 of 6

RELEASE DATE: 09/03/08

SHEET:

WINb



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 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.

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Drawing No. FLEX24111
Sheet 1 of 2

Florida Extruders Int'l., Inc.
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Florida COA No. 9235

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

No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0227
1	3/02/07	RJA	Revised for new testing.

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

Fastener Installation Chart							
Size Code	Configuration	Size		Required Quantities of Fasteners			
		Width	Height	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 Fastener 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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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

FloridaProduct Approval # FL8409.2

SLIDING GLASS DOORS

SHEET: WINb

FLORIDA EXTRUDERS

WINDOWS IN BLOCK

6 of 6

RELEASE DATE: 09/03/08

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REVISIONS :
2-16-09 Updated to Code.