AUSTIN - 4M

FLORIDA DESIGN CRITERIA
REVISED 05-03-07

BUILDING DATA

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

NATIONAL ELECTRICAL CODE 2005

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

CLASSIFICATION : 2

OCCUPANCY: RESIDENTIAL

BUILDING DESIGN: ENCLOSED

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

EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

IMPORTANCE FACTOR: 1.0

NUMBER OF STORIES: ONE STORY

BUILDING MEAN ROOF HEIGHT: 15 FEET, MAX.

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

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

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

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

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

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

INDEX OF DRAWINGS

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

REVISIONS :
11-10-06 RELEASE FOR PRODUCTION
08-14-07 REV. CODE INFORMATION

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

9TM03901 JAX
39-1
9TM

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005 SUPPLEMENT FOR 125 MPH, 3 SEC. GUST, H.I.&.EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

D:\M\houses_05\austin4\25\us4-m-125.000

AMERICANA | COVER SHEET
AUSTIN 4
ELEVATION "M"
GARAGE: RIGHT
125 MPH
DRAWN BY:
RELEASE DATE: 04-04-06

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

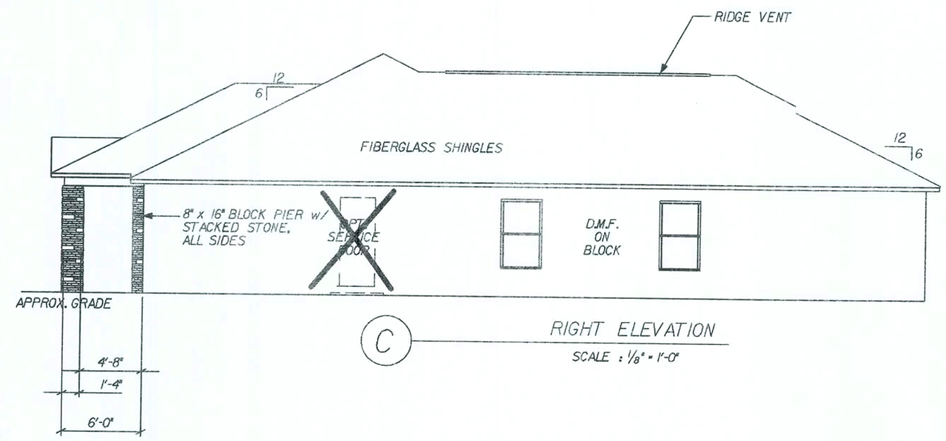
Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

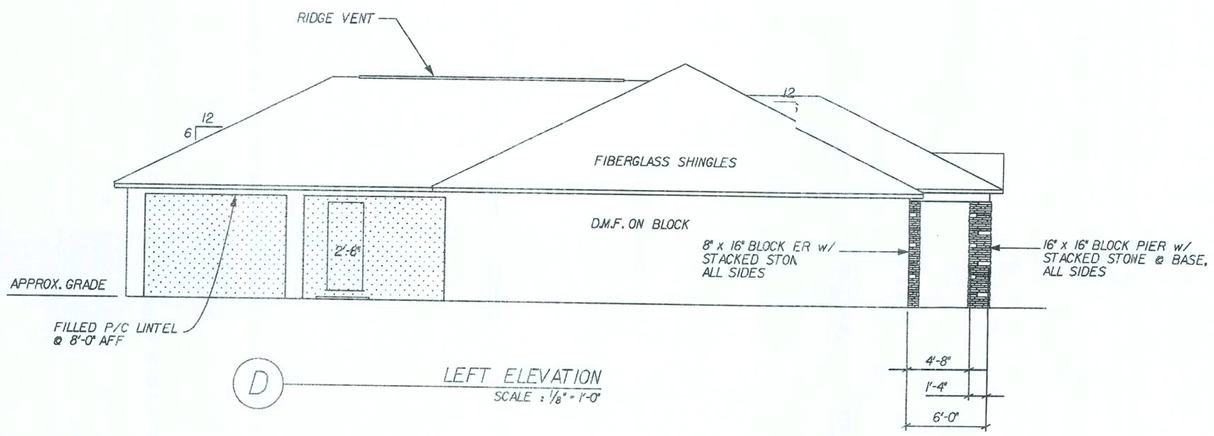
SHEET:
0m

PLOT DATE: 07 APR 2008 10:56:38

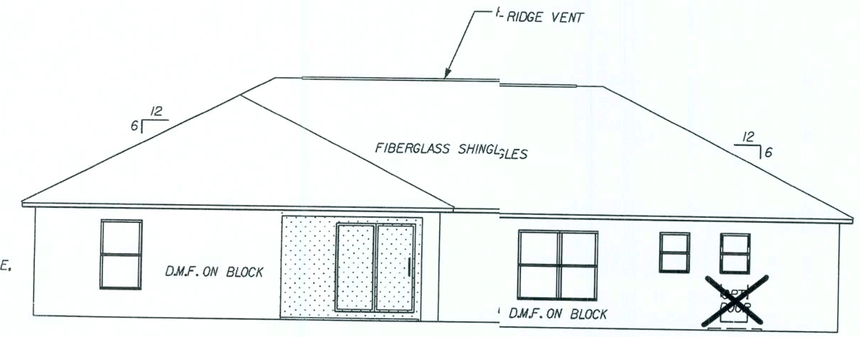
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



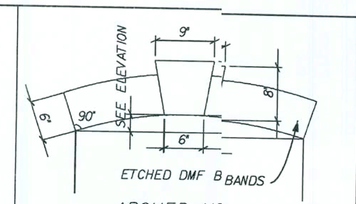
C RIGHT ELEVATION
SCALE : 1/8" = 1'-0"



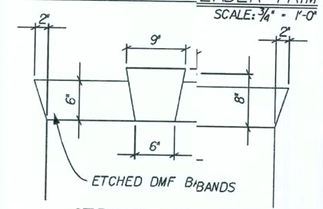
D LEFT ELEVATION
SCALE : 1/8" = 1'-0"



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



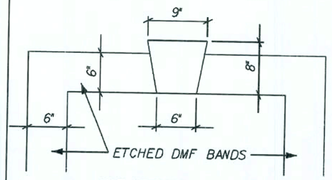
ARCHED HEADER TRIM
SCALE: 3/4" = 1'-0"



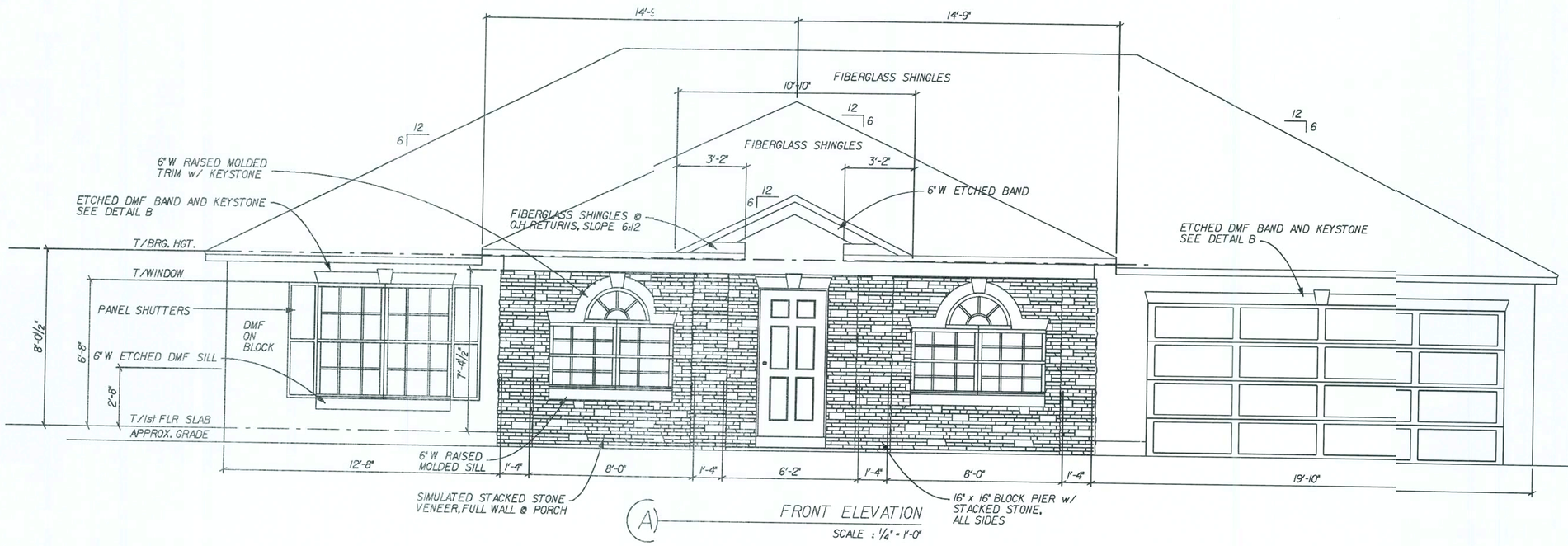
STRAIGHT HEADER TRIM
SCALE: 3/4" = 1'-0"

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"



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

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

REVISED 01-05-06

REVISIONS :
12-14-06 ADD GLASS TO PORCH DOOR
11-01-07 REV. RAISED MOLDED TRIM NOTE

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

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

P:\FNhouses_05\austfl\ms\stc\aus4-m.001

AMERICANA | EXT. ELEVATIONS

AUSTIN 4

ELEVATION "M"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 04-04-06

PLOT DATE: 07 APR 2008 10:56:43

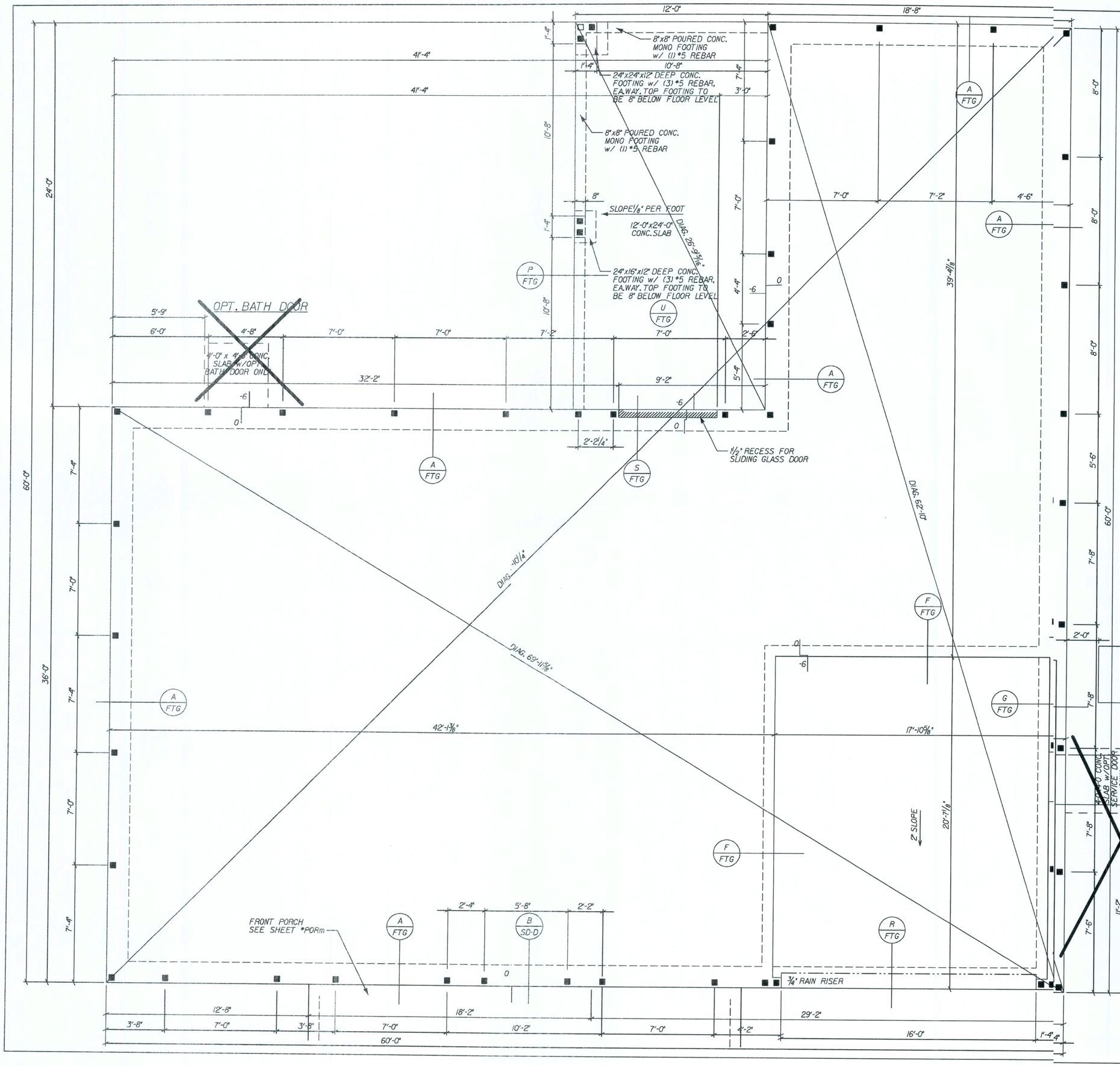
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:
/m

FLORIDA BUILDING CODE 2004 : 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 * FPI FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

REVISIONS :
04-24-06 REVISED NOTE AT GARAGE DOOR
06-20-06 ADDED DOOR PAN DETAIL MARKER
08-14-07 REV. CODE INFORMATION

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

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION 301 OF THE FLORIDA BUILDING CODE 2004 + RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST, HIGH EXPOSURE, IE ENCLOSED BUILDING. ALL CONNECTORS WERE SELECTED CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA FOUNDATION PLAN
AUSTIN 4
ELEVATION "M"
DRAWN BY:
GARAGE: RIGHT
125 MPH
RELEASE DATE: 04-04-06

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

Elmer Bergman, P.E.
License No. 50158
AUG 04 2008

COLUMBIA COUNTY REVIEWED FOR FIELD COPY CODE COMPLIANCE PLANS EXAMINER

SHEET:
2m

PLOT DATE: 07 APR 2008 10:56:51

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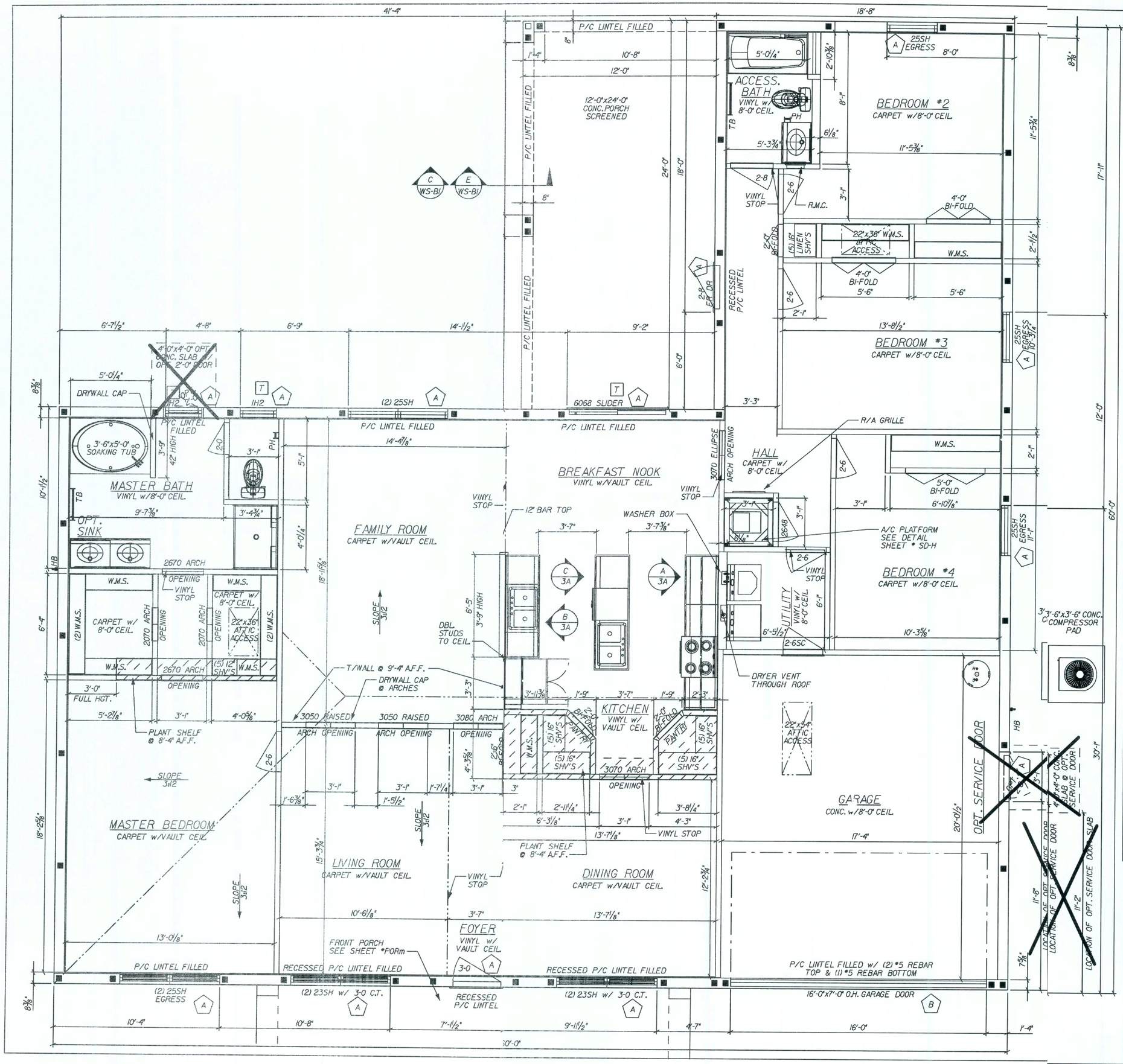
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



GENERAL FIRST FLOOR NOTES:

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

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

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF MASONRY OPENING.

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

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

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

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

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

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

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

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

SEE SHEET # WL1 FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

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

ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR = MIN. 1⅜" THICK SOLID CORE DOOR

SQUARE FOOTAGE:

1st FLOOR LIVING	2236 SQ. FT.
COVERED PORCH	288 SQ.FT.
GARAGE AREA	372 SQ. FT.
COVERED ENTRY	165 SQ. FT.
TOTAL AREA	3061 SQ. FT.

OPENING PRESSURES 125mph:

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

REVISED 09-12-07

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

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

REVISED 10-10-07

REVISIONS:
12-14-06 REV. SERVICE DOOR SWING
08-14-07 REV. CODE INFORMATION

Maronda Homes

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

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. HIGH EXPOSURE. IS ENCLOSED BUILDING. WINDOWS, DOORS AND SHUTTERS CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

p:\7\houses_05\austin4\25\austin4-m-125.003

AMERICANA FIRST FLOOR PLAN

AUSTIN 4

ELEVATION "M"

GARAGE: RIGHT

125 MPH

DRAWN BY:

RELEASE DATE: 04-04-06

10:57:07

PLOT DATE: 07 APR 2008

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

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET: 3m

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL FOUNDATION NOTES:

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

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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 10-10-07

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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.

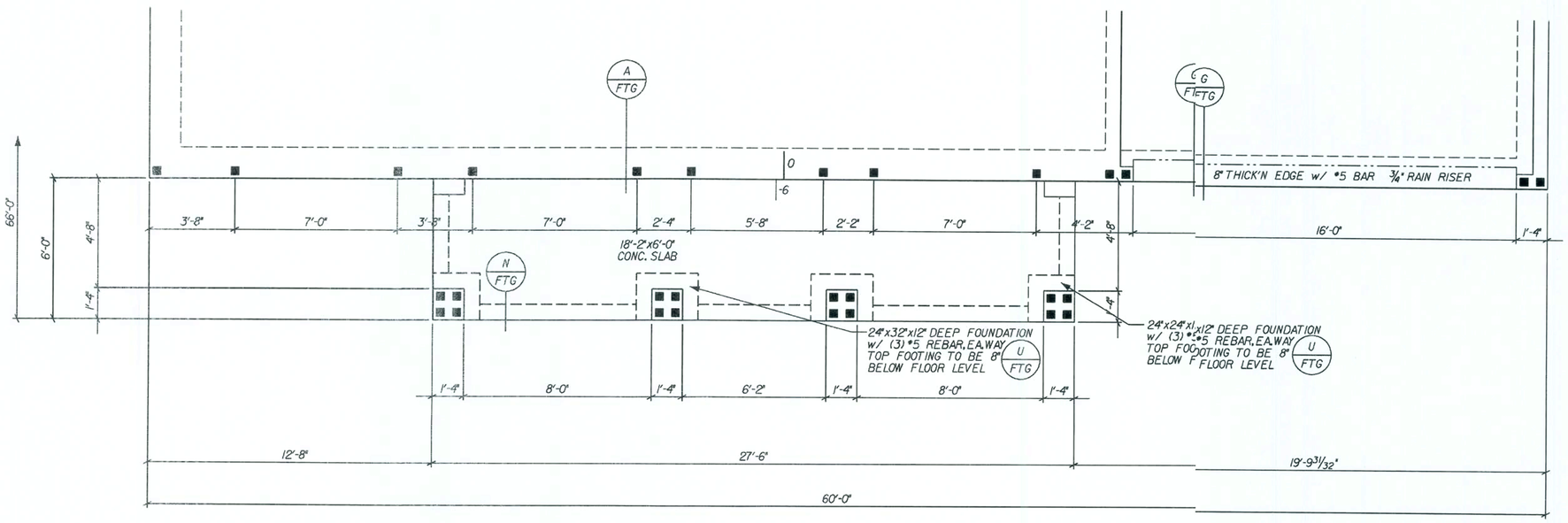
THE A/C DISCONNECT WILL BE LOCATED WITHIN 3 FEET OF THE COMPRESSOR.

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

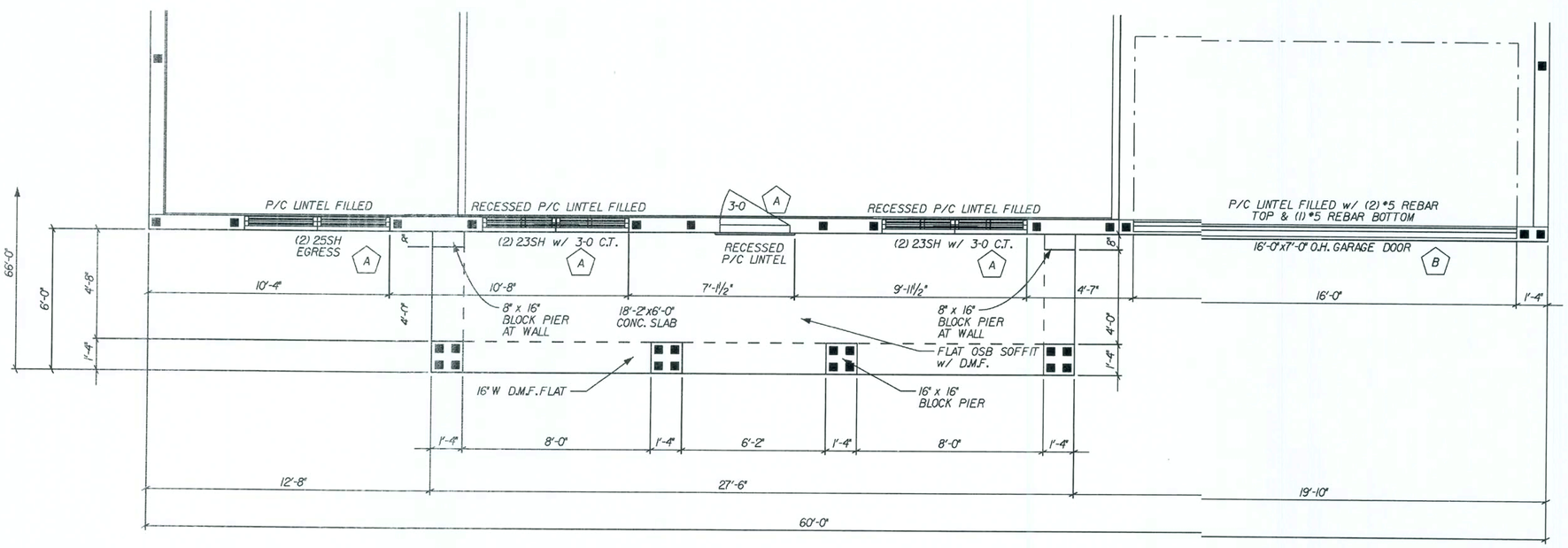
ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR - MIN. 1⅜" THICK SOLID CORE DOOR



FOUNDATION PLAN

SCALE: ¼" = 1'-0"



FLOOR PLAN

SCALE: ¼" = 1'-0"

COLUMBIA COUNTY REVIEWED FOR FIELD COPY CODE COMPLIANCE PLANS EXAMINER

REVISIONS :

08-14-07 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 2004 , RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. EXPOSURE "B" ENCLOSED BUILDING. ALL CONDITIONS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

P:\f:\houses_05\austin4\25\aus4-mpor

AMERICANA | FRNT.PORCH DETAILS

AUSTIN 4

ELEVATION "M"

GARAGE: RIGHT

125 MPH

DRAWN BY:

RELEASE DATE: 04-04-06

10:57:28

PLOT DATE: 07 APR 2008

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

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:

PORm

FLORIDA BUILDING CODE 2004 : 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 EVERY HOLE

WINDOW NOTES

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

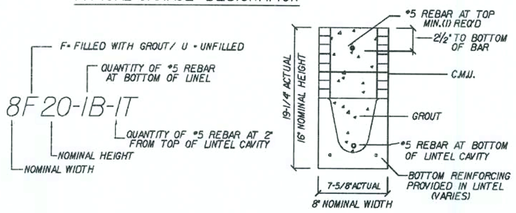
ATTENTION

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

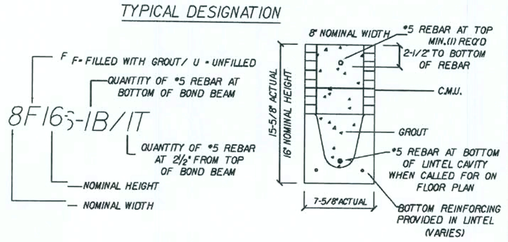
MATRIALS

1. f'c priast lintels = 3500 psi.
2. f'c pritressed lintels = 6000 psi.
3. f'c grit = 3000 psi w/ maximum 3/8" aggegate.
4. Concre masonry units (CMU) per ASTM C90 w/minimum net area comprsive strength = 1900 psi.
5. Rebar rovided In precast lintel per ASTM 615 GR60. Field rebar per ASTM 615 GR40 or GR60.
6. Prestressing strand per ASTM A416 grade 70 low relaxation.
7. 7/32 tire per ASTM A510.
8. Mortar er ASTM C270 type M or S.

TYPICAL GARAGE DESIGNATION



TYPICAL DESIGNATION



REVISED 12/29/04

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 1/4	8		6080	75 1/2 X 97 1/4	8	

SERIES (MO)437 - (FO)438 OPENINGS

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

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

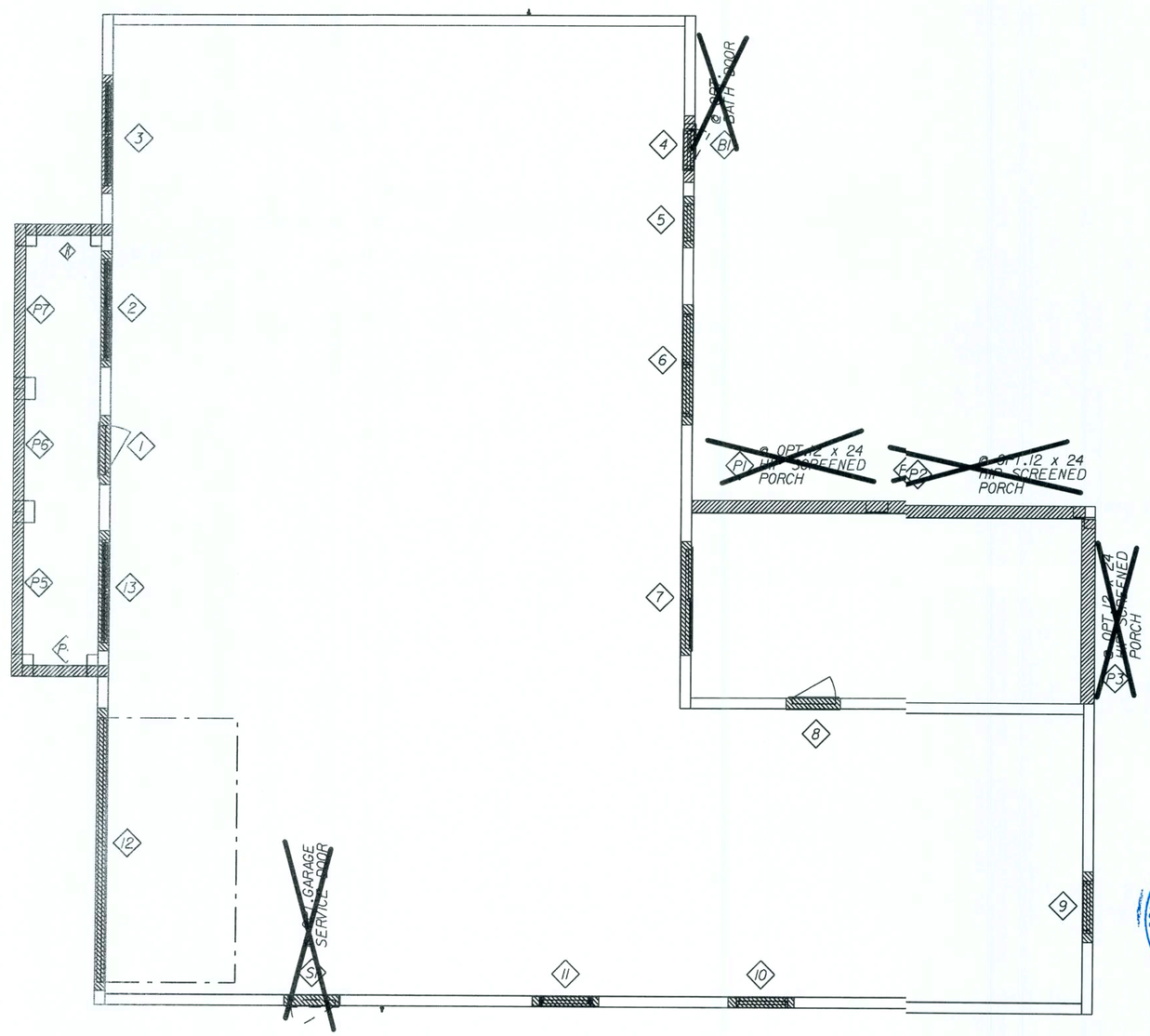
SIZE	SINGLE M.O.	FAST.	
(2) 23 w/ 3'-0" CT	74 3/4 X 59 3/8	2,5,7	

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
1	4'-6"	8RU14-0B/IT	617	566	1494	2525	RECESSED
2	7'-6"	8RF14-0B/IT	617	566	2459	1462	RECESSED
3	7'-6"	8F16-0B/IT	1005	577	2632	1634	
4	4'-6"	8F16-0B/IT	617	566	2931	2724	-
5	4'-6"	8U16-0B/IT	617	566	1559	2724	-
6	7'-6"	8F16-0B/IT	617	566	2632	1634	-
7	7'-6"	8F16-0B/IT	617	566	2632	1634	-
8	4'-6"	8RU14-0B/IT	685	167	1494	2525	RECESSED
9	4'-6"	8U16-0B/IT	209	283	1559	2724	-
10	4'-6"	8U16-0B/IT	288	378	1559	2724	-
11	4'-6"	8U16-0B/IT	209	283	1559	2724	-
12	17'-4"	8F20-1B/2T	620	580	1326	732	GARAGE DOOR
13	7'-6"	8RF14-0B/IT	617	566	2459	1462	RECESSED
S1	4'-6"	8U16-0B/IT	209	283	1599	2724	@ OPT. GARAGE SERVICE DR.
B1	4'-6"	8RU14-0B/IT	617	566	1494	2525	@ OPT. BATH DOOR
P1	12'-0"	8F8-0B/IT	168	261	540	470	@ OPT. PORCH
P2	12'-0"	8F8-0B/IT	168	261	540	470	@ OPT. PORCH
P3	12'-0"	8F8-0B/IT	105	283	540	470	@ OPT. PORCH
P4	6'-0"	8F8-0B/IT			540	470	@ FRT. PORCH
P5	10'-0"	8F8-0B/IT			540	470	@ FRT. PORCH
P6	7'-6"	8F8-0B/IT			540	470	@ FRT. PORCH
P7	10'-0"	8F8-0B/IT			540	470	@ FRT. PORCH
P8	6'-0"	8F8-0B/IT			540	470	@ FRT. PORCH

THE SPECIFIED LINTELS ON SHEET WLI 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 WLI LINTEL SCHEDULE.

REVISED 04-02-07



COLUMBIA COUNTY BUILDING REVIEWED FOR FIELD COPY CODE COMPLIANCE PLANS EX.

REVISIONS :
04-07-08 REV. LINTEL # 3
08-14-07 REV. CODE INFORMATION

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

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005, BUILDING SUBJECT TO WIND LOADS, 3 SEC. GUST, 140 EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA | WINDOW/LINTEL
AUSTIN 4
ELEVATION "M"
GARAGE: RIGHT
125 MPH
DRAWN BY:
RELEASE DATE: 09-01-04
PLOT DATE: 07 APR 2008 10:57:43
DWG \\Houses_05\austin4\25\aus4-m-125wll

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

Elmer Bergman, P.E.
License No. 50158
AUG 04 2008

SHEET:
WLIm

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

POWER LINTEL – PSbox8 (5-5/8") 6" DEPTH FILLED AND UNFILLED

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)					
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	NO FILL NO REBAR DETAIL "A"	FILLED #5 TOP DETAIL "B"	FILLED #5 T&B DETAIL "C"
M-1	1'-6"	2'-10"	960	7775	7775
M-2	2'-2"	3'-6"	665	5359	5360
* M-3	2'-4"	3'-8"	617	4982	4982
M-4	2'-8"	4'-0"	510	4355	4355
* M-5	2'-10"	4'-2"	508	4095	4095
* M-6	3'-0"	4'-4"	480	3788	3865
M-7	3'-2"	4'-6"	455	3378	3859
* M-8	3'-4"	4'-8"	432	3044	3474
M-9	4'-0"	5'-4"	360	2100	2857
* M-10	4'-4"	6'-8"	333	1632	2770
M-11	4'-6"	5'-10"	320	1650	2373
M-12	5'-2"	6'-6"	275	1240	1789
* M-13	5'-4"	8'-8"	271	1161	1676
M-14	6'-0"	7'-6"	233	897	1242
* M-15	6'-4"	7'-8"	228	810	1176
M-16	7'-0"	8'-4"	206	655	954
M-17	8'-0"	9'-4"	240	491	720
* M-18	8'-4"	9'-8"	231	449	680
M-19	9'-2"	10'-6"	209	393	537
M-20	10'-0"	11'-4"	178	288	444
M-21	11'-2"	12'-6"	126	230	347
M-22	12'-0"	13'-4"	103	193	294
M-23	12'-8"	14'-0"	103	168	252

* DENOTES TYPICAL DOOR SIZE OPENINGS (INCLUDING DOOR JAMB).

POWER LINTEL – PSbox8 (7-5/8") 8" DEPTH FILLED AND UNFILLED

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)					
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	NO FILL NO REBAR DETAIL "D"	FILLED #5 TOP DETAIL "E"	FILLED #5 T&B DETAIL "F"
L-1	1'-6"	2'-10"	933	7229	7229
L-2	2'-2"	3'-6"	646	4986	4986
L-3	2'-8"	4'-0"	524	4040	4040
L-4	3'-2"	4'-6"	442	3392	3392
L-5	4'-0"	5'-4"	350	2673	2673
L-6	4'-6"	5'-10"	311	2369	2369
L-7	5'-2"	6'-6"	271	2056	2056
L-8	6'-2"	7'-6"	227	1574	1713
L-9	7'-0"	8'-4"	200	1170	1502
L-10	8'-0"	9'-4"	240	881	1208
L-11	9'-2"	10'-6"	209	657	904
L-12	10'-0"	11'-4"	192	542	750
L-13	11'-2"	12'-6"	175	423	590
L-14	12'-0"	13'-4"	160	358	503
L-15	12'-8"	14'-0"	152	315	445
L-16	13'-4"	14'-8"	144	279	395
L-17	14'-0"	15'-4"	137	247	353
L-18	16'-0"	17'-4"		175	256
L-19	18'-0"	19'-4"		157	211
L-20	18'-8"	20'-0"		142	192
L-21	20'-8"	22'-0"		104	145
L-22	22'-8"	24'-0"		76	110

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL – PSbox8 (7-5/8") 12" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED #5 TOP DETAIL "G"	FILLED #5 T&B DETAIL "GG"
L-1	1'-6"	2'-10"	9030	9030
L-2	2'-2"	3'-6"	6224	6224
L-3	2'-8"	4'-0"	5041	5041
L-4	3'-2"	4'-6"	4231	4231
L-5	4'-0"	5'-4"	3331	3331
L-6	4'-6"	5'-10"	2951	2951
L-7	5'-2"	6'-6"	2559	2559
L-8	6'-2"	7'-6"	2130	2130
L-9	7'-0"	8'-4"	1866	1866
L-10	8'-0"	9'-4"	1575	1621
L-11	9'-2"	10'-6"	1179	1404
L-12	10'-0"	11'-4"	976	1279
L-13	11'-2"	12'-6"	766	1044
L-14	12'-0"	13'-4"	651	892
L-15	12'-8"	14'-0"	575	792
L-16	13'-4"	14'-8"	511	706
L-17	14'-0"	15'-4"	455	632
L-18	16'-0"	17'-4"	328	463
L-19	18'-0"	19'-4"	286	400
L-20	18'-8"	20'-0"	255	365
L-21	20'-8"	22'-0"	195	281
L-22	22'-8"	24'-0"	147	219

POWER LINTEL – PSbox8 (5-5/8") 14" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "H"	FILLED W/ #5 T&B DETAIL "HH"
M-1	1'-6"	2'-10"	11377	11377
M-2	2'-2"	3'-6"	7845	7845
* M-3	2'-4"	3'-8"	7278	7278
M-4	2'-8"	4'-0"	6355	6355
* M-5	2'-10"	4'-2"	5975	5975
* M-6	3'-0"	4'-4"	5638	5638
M-7	3'-2"	4'-6"	5336	5336
* M-8	3'-4"	4'-8"	5064	5064
M-9	4'-0"	5'-4"	4203	4203
* M-10	4'-4"	6'-8"	4031	4031
M-11	4'-6"	5'-10"	3725	3725
M-12	5'-2"	6'-6"	3231	3231
* M-13	5'-4"	6'-8"	3127	3127
M-14	6'-2"	7'-6"	2691	2691
* M-15	6'-4"	7'-8"	2617	2617
M-16	7'-0"	8'-4"	2358	2358
M-17	8'-0"	9'-4"	2051	2051
* M-18	8'-4"	9'-8"	1965	1965
M-19	9'-2"	10'-6"	1777	1777
M-20	10'-0"	11'-4"	1571	1620
M-21	11'-2"	12'-6"	1240	1413
M-22	12'-0"	13'-4"	1060	1210
M-23	12'-8"	14'-0"	941	1075

* DENOTES TYPICAL DOOR SIZE OPENINGS (INCLUDING DOOR JAMB).

POWER LINTEL – PSbox8 (7-5/8") 16" COPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "I"	FILLED W/ #5&#5 T&B DETAIL "II"
L-1	1'-6"	2'-10"	10831	10831
L-2	2'-2"	3'-6"	7463	7463
L-3	2'-8"	4'-0"	6041	6041
L-4	3'-2"	4'-6"	5069	5069
L-5	4'-0"	5'-4"	3989	3989
L-6	4'-6"	5'-10"	3533	3533
L-7	5'-2"	6'-6"	3062	3062
L-8	6'-2"	7'-6"	2547	2547
L-9	7'-0"	8'-4"	2230	2230
L-10	8'-0"	9'-4"	1936	1936
L-11	9'-2"	10'-6"	1675	1675
L-12	10'-0"	11'-4"	1526	1526
L-13	11'-2"	12'-6"	1354	1354
L-14	12'-0"	13'-4"	1252	1252
L-15	12'-8"	14'-0"	1169	1185
L-16	13'-4"	14'-8"	1044	1115
L-17	14'-0"	15'-4"	936	1022
L-18	16'-0"	17'-4"	686	755
L-19	18'-0"	19'-4"	519	596
L-20	18'-8"	20'-0"	474	536
L-21	20'-8"	22'-0"	365	418
L-22	22'-8"	24'-0"	284	327
L-23	24'-0"	25'-4"	334	384
L-24	26'-0"	27'-4"	267	309
L-25	28'-0"	29'-4"	214	251
L-26	30'-0"	31'-4"	171	203

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL PSbox8 (7-5/8") 20" COPOSITE

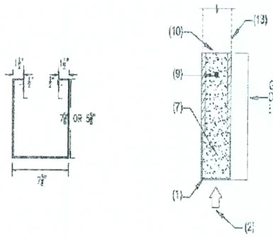
SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBFT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "J"	LED W/ #5 T&B TAIL "JJ"
L-1	1'-6"	2'-10"	12632	12632
L-2	2'-2"	3'-6"	8701	8701
L-3	2'-8"	4'-0"	7042	7042
L-4	3'-2"	4'-6"	5908	5908
L-5	4'-0"	5'-4"	4647	4647
L-6	4'-6"	5'-10"	4114	4114
L-7	5'-2"	6'-6"	3565	3565
L-8	6'-2"	7'-6"	2963	2963
L-9	7'-0"	8'-4"	2593	2593
L-10	8'-0"	9'-4"	2251	2251
L-11	9'-2"	10'-8"	1946	1946
L-12	10'-0"	11'-4"	1772	1772
L-13	11'-2"	12'-6"	1572	1572
L-14	12'-0"	13'-4"	1453	1453
L-15	12'-8"	14'-0"	1360	1360
L-16	13'-4"	14'-8"	1293	1293
L-17	14'-0"	15'-4"	1225	1225
L-18	16'-0"	17'-4"	989	1053
L-19	18'-0"	19'-4"	881	946
L-20	18'-8"	20'-0"	818	865
L-21	20'-8"	22'-0"	641	682
L-22	22'-8"	24'-0"	508	543
L-23	24'-0"	25'-4"	484	525
L-24	26'-0"	27'-4"	381	411
L-25	28'-0"	29'-4"	317	420
L-26	30'-0"	31'-4"	258	345

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL PSbox8 (7-5/8") 24" OMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (S/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "K"	LED W/ #5 T&B TAIL "KK"
L-1	1'-6"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	8748	8748
L-5	4'-0"	5'-4"	5305	5305
L-6	4'-6"	5'-10"	4696	4696
L-7	5'-2"	6'-6"	4068	4068
L-8	6'-2"	7'-6"	3380	3380
L-9	7'-0"	8'-4"	2957	2957
L-10	8'-0"	9'-4"	2566	2566
L-11	9'-2"	10'-6"	2218	2218
L-12	10'-0"	11'-4"	2019	2019
L-13	11'-2"	12'-6"	1790	1790
L-14	12'-0"	13'-4"	1653	1653
L-15	12'-8"	14'-0"	1557	1557
L-16	13'-4"	14'-8"	1471	1471
L-17	14'-0"	15'-4"	1393	1393
L-18	16'-0"	17'-4"	1197	1197
L-19	18'-0"	19'-4"	1201	1336
L-20	18'-8"	20'-0"	1104	1282
L-21	20'-8"	22'-0"	869	1037
L-22	22'-8"	24'-0"	693	832
L-23	24'-0"	25'-4"	625	918
L-24	26'-0"	27'-4"	507	767
L-25	28'-0"	29'-4"	413	622
L-26	30'-0"	31'-4"	337	525

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL RUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM



TYPICAL POWER BOX LINTEL SECTION

POWER LINTEL PSbox8 (7-5/8") 32" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "I"	FILLED W/ #5 T&B DETAIL "LL"
L-1	1'-6"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	--	--
L-5	4'-0"	5'-4"	--	--
L-6	4'-6"	5'-10"	--	--
L-7	5'-2"	6'-6"	5074	5074
L-8	6'-2"	7'-6"	4214	4214
L-9	7'-0"	8'-4"	3685	3685
L-10	8'-0"	9'-4"	3196	3196
L-11	9'-2"	10'-6"	2760	2760
L-12	10'-0"	11'-4"	2511	2511
L-13	11'-2"	12'-6"	2225	2225
L-14	12'-0"	13'-4"	2055	2055
L-15	12'-8"	14'-0"	1934	1934
L-16	13'-4"	14'-8"	1828	1828
L-17	14'-0"	15'-4"	1729	1729
L-18	16'-0"	17'-4"	1484	1484
L-19	18'-0"	19'-4"	1585	1585
L-20	18'-8"	20'-0"	1520	1520
L-21	20'-8"	22'-0"	1287	1350
L-22	22'-8"	24'-0"	1014	1211
L-23	24'-0"	25'-4"	905	1131
L-24	26'-0"	27'-4"	737	1026
L-25	28'-0"	29'-4"	664	926
L-26	30'-0"	31'-4"	497	780
L-27	32'-0"	33'-4"	469	657
L-28	34'-0"	35'-4"	336	556
L-29	36'-0"	37'-4"	275	471

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL PSbox8 (7-5/8") 40" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "N"	FILLED W/ #5 T&B DETAIL "NN"
L-1	1'-6"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	--	--
L-5	4'-0"	5'-4"	--	--
L-6	4'-6"	5'-10"	--	--
L-7	5'-2"	6'-6"	6080	6080
L-8	6'-2"	7'-6"	5048	5048
L-9	7'-0"	8'-4"	4413	4413
L-10	8'-0"	9'-4"	3826	3826
L-11	9'-2"	10'-6"	3303	3303
L-12	10'-0"	11'-4"	3004	3004
L-13	11'-2"	12'-6"	2660	2660
L-14	12'-0"	13'-4"	2456	2456
L-15	12'-8"	14'-0"	2312	2312
L-16	13'-4"	14'-8"	2182	2182
L-17	14'-0"	15'-4"	2064	2064
L-18	16'-0"	17'-4"	1771	1771
L-19	18'-0"	19'-4"	1833	1833
L-20	18'-8"	20'-0"	1758	1758
L-21	20'-8"	22'-0"	1560	1560
L-22	22'-8"	24'-0"	1335	1652
L-23	24'-0"	25'-4"	1185	1364
L-24	26'-0"	27'-4"	988	1181
L-25	28'-0"	29'-4"	755	1077
L-26	30'-0"	31'-4"	656	984
L-27	32'-0"	33'-4"	542	866
L-28	34'-0"	35'-4"	447	734
L-29	36'-0"	37'-4"	388	624
L-30	38'-0"	39'-4"	30	531
L-31	40'-0"	41'-4"	244	451

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

GRAVITY LOADS

NOTES:

1. PRODUCT NAME (PATENT NO. 5387299)

   PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A653 GRADE C (57 - 40 ksi).

   NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY.

   FOR SPANS LESS THAN 10'-0" BOX LINTELS TO BE 16 Ga. FOR SPANS GREATER THAN AND EQUAL TO 10'-0" BOX LINTELS TO BE 14 Ga.

2. BOXES LINTELS AR REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 10'-0" ARE BUILT WITH 1/2" CAMBER.

3. LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MODULUS Fm 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 MEANING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 10'-0" IN SPAN OR GREATER THAN 12" IN DEPTH. ALL OTHER LINTELS REQUIRE A MINIMUM OF 4" BEARING PER THE STANDARD AND FLORIDA BUILDING CODES.

6. Fm = 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 C476-91 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 UNLIFT 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 PRESENTED TO THE BUILDING OFFICIAL.

    A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WILL BE A POLYETHYLENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 1/8" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.

    DECORATIVE CHARTREUSE COATING CANNOT BE APPLIED.

    NOT FOR USE IN THE WIND IN MIAMI-DADE AND BROWARD COUNTIES AT THIS TIME. MIAMI-DADE COMPLIANCE IS BEING SOUGHT.

12. DEFLECTION LIMITS ARE SET TO L/600 FOR ALL LOADS SHOWN ABOVE THE DARKENED SOLID LINE. DEFLECTION LIMITS ARE SET TO L/240 BELOW LOADS AND L/240 (DEAD + LIVE LOAD) FOR ALL LOADS SHOWN BELOW DARKENED SOLID LINE.

13. ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 10/2004 AND CLEARLY INDICATE SUPERIMPOSED LOADS.

14. #3 REINFORCING BARS: GRADE 40 ARE TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DEPTHS 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 #10. 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:
    4138 E. ELWOOD PHOENIX, AZ 85040
    PH# 602-437-1160 FAX# 602-437-5409
    PH# 904-261-4896 FAX# 904-419-0481 (KEVIN)

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

    - BOCA BTD-10 1989
    - STANDARD BUILDING CODE - 1994
    - FLORIDA BUILDING CODE - 2001 W/ 2003 REVISIONS
    - AISI LIGHT GAGE COLD FORMED DESIGN - 1996
    - ACI 530-92/ASCE 5-92/TMS 402-92

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

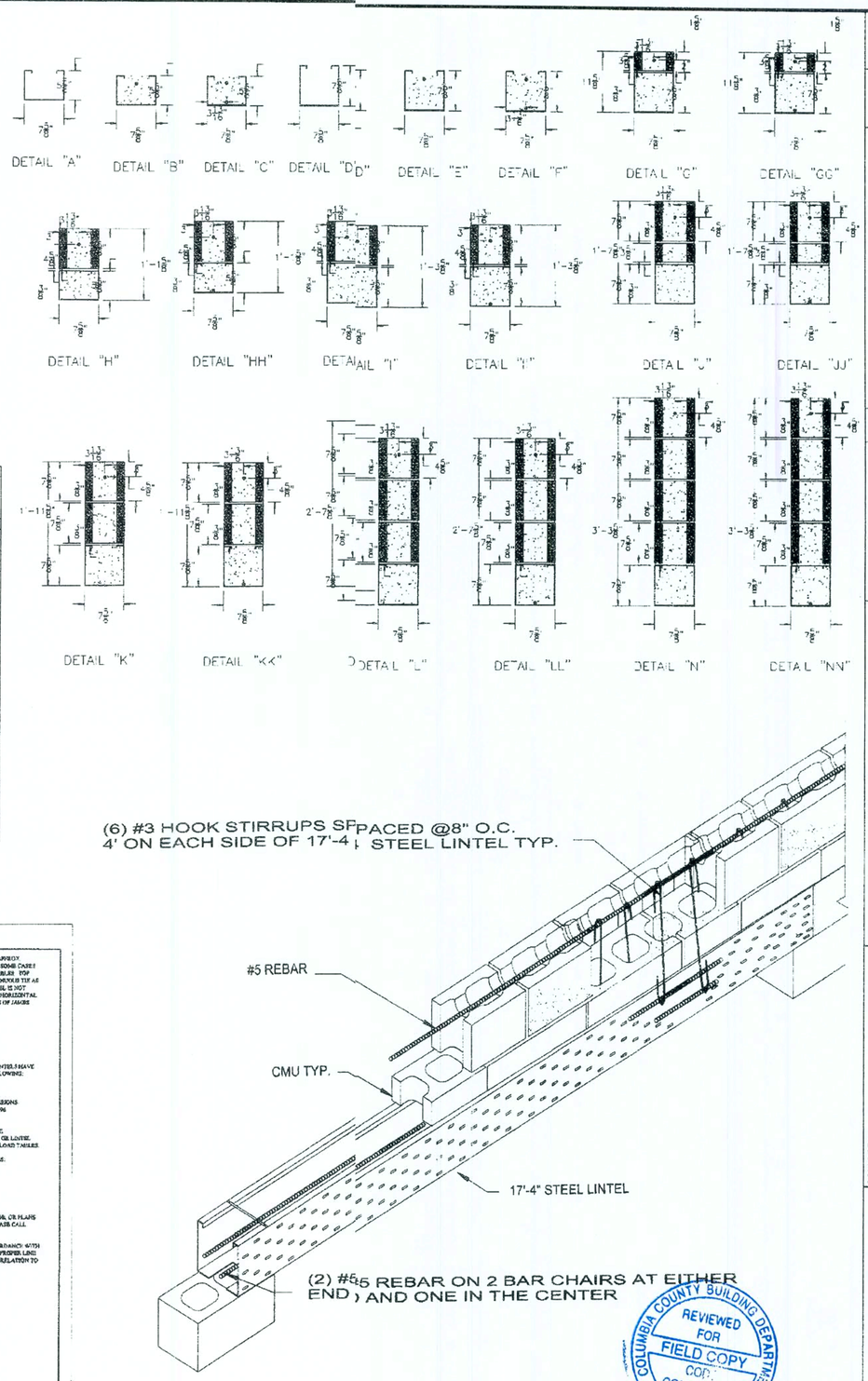
    STRUCTURAL ENGINEER FOR POWERS LINTELS IS:

    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE: (480) 946-2010
    FAX: (480) 945-3699

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

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

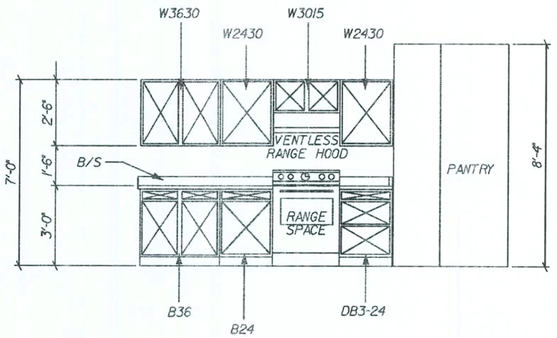
PSbox8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .059 INCHES THICK
14 GAGE IS .072 INCHES THICK



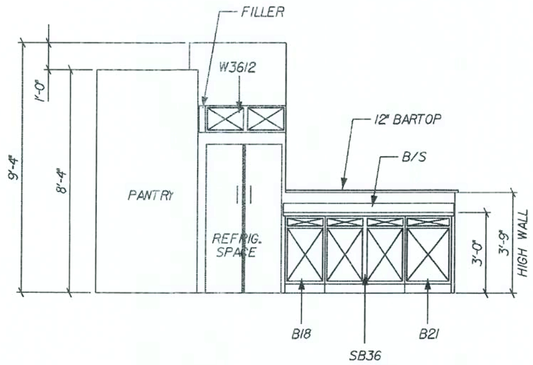
S.E. CONSULTANTS, Inc.
Structural Engineering Consultants
5800 East Thomas Road, Suite 104
Scottsdale, AZ 85251
(602)437-1160
Fax (602)437-5409

DETAILER			
DATE NOV 2004			
GRADE			
DESCRIPTION	BY	REVISION	DATE
JOB NAME			
JOB NO. 0121-11			
ADDRESS	ARCHITECT		
CONTRACTOR	ENGINEER		
DWG NO.			

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



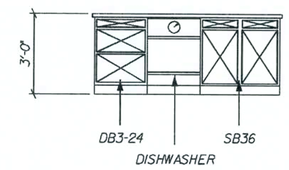
A KITCHEN ELEVATION



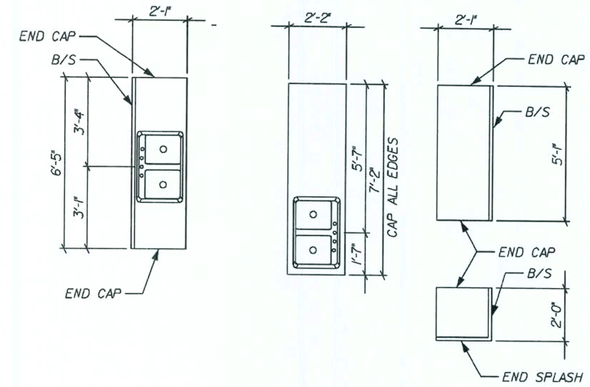
B KITCHEN ELEVATION

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

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

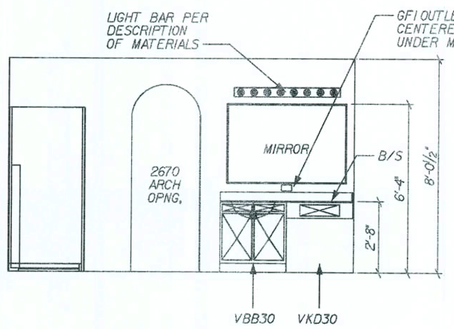


C KITCHEN ELEVATION

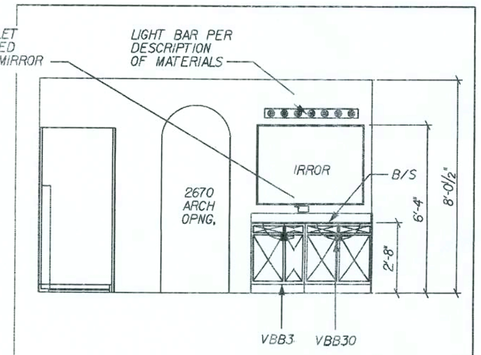


KITCHEN COUNTER TOP PLAN

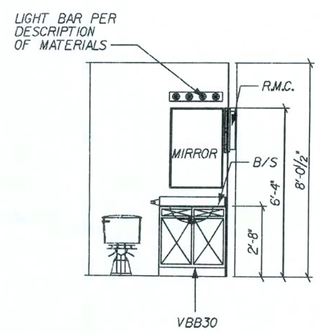
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



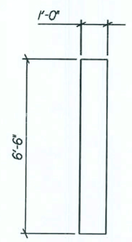
D STANDARD MASTER BATH VANITY



D OPTIONAL DBL. SIK - MASTER BATH VAITY

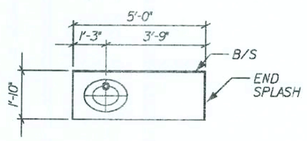


E HALL BATH VANITY

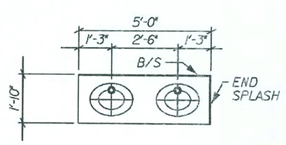


KITCHEN BAR TOP PLAN

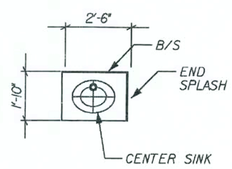
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



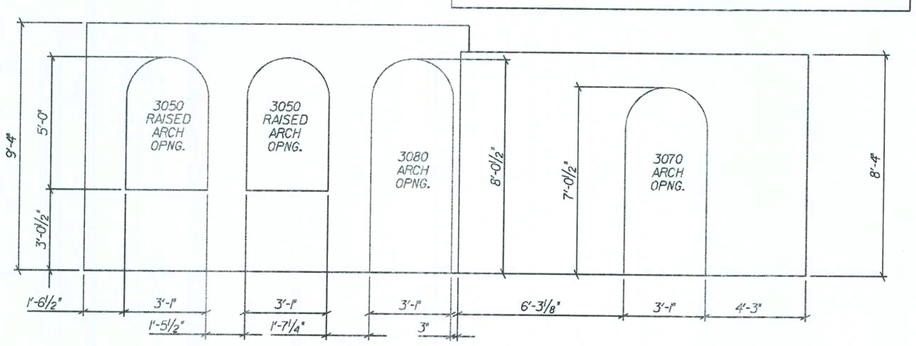
STANDARD LAV. TOP MASTER BATH VANITY



OPT. DBL. SINK LAV. OP MASTER BATH VANY



STANDARD LAV. TOP HALL BATH VANITY



F LIVING/DINING ROOM ARCH ELEVATION

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

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND 2003, 2006 SUPPLEMENT

P:\1\houses_05\austin4\std\aus4d3a

AMERICANA INT. ELEVATIONS

AUSTIN 4

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 10-18-04

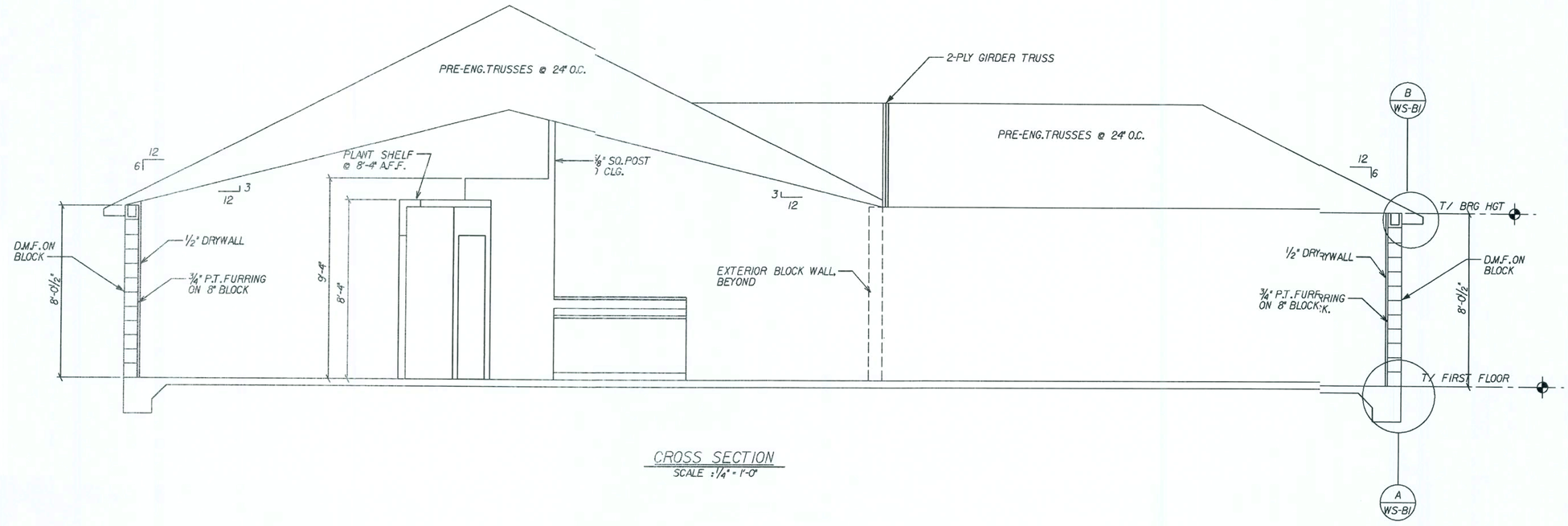
10:58:01

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET:
3A

PLOT DATE: 07 APR 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



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

REVISIONS :

COPYRIGHT © 2005 MARONDA HOMES

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

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

AMERICANA | BLD. CROSS SECTION

AUSTIN 4

ALL ELEVATIONS

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 10-18-04

p:\f\houses_05\austin4\austin4csu

10:58:15

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

Elmer Bergman, P.E.
License No. 50158

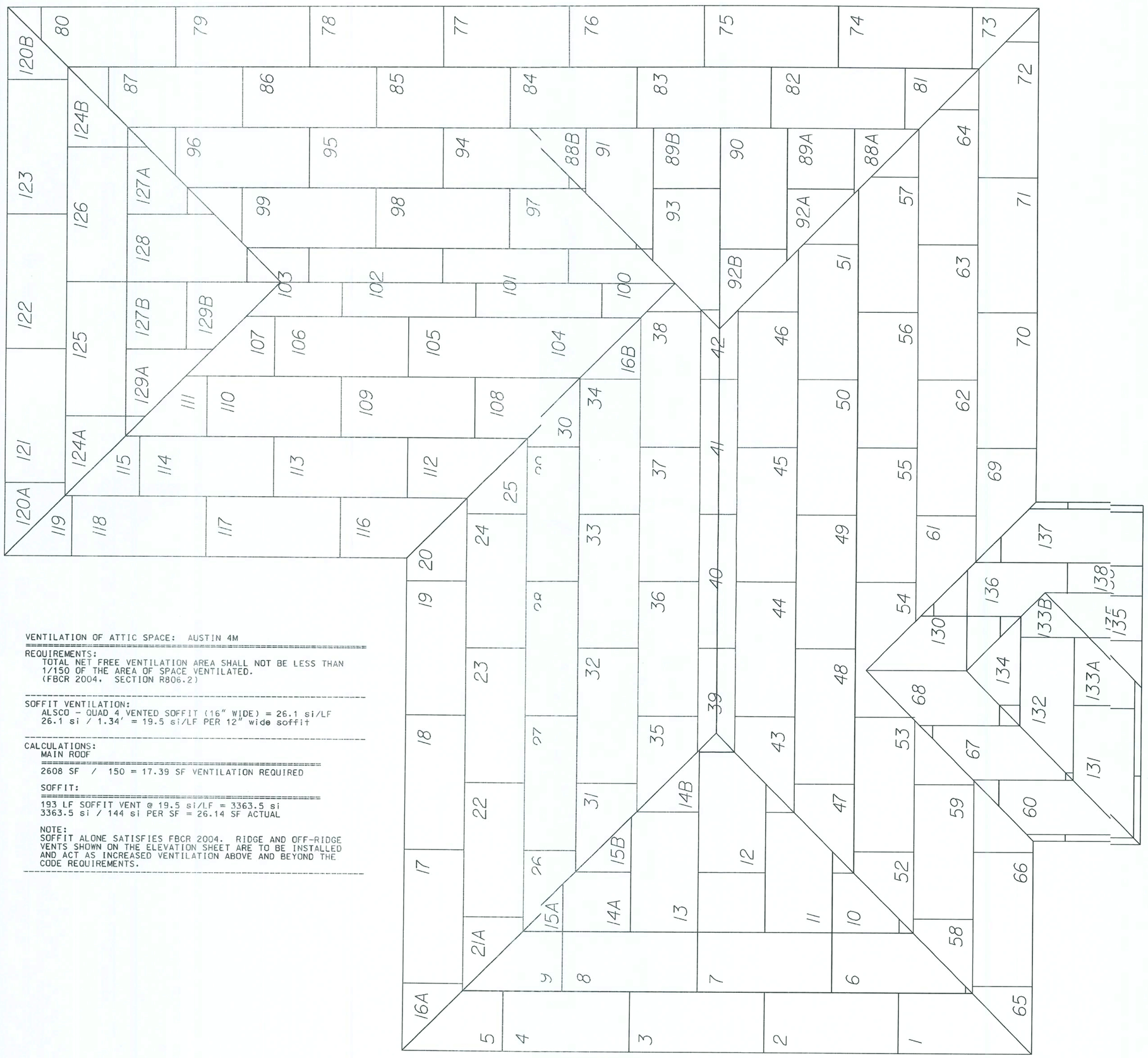
AUG 04 2008

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

SHEET:
CSU

PLOT DATE: 07 APR 2008

FLORIDA BUILDING CODE 2004 : 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.

TOTAL ROOF SHEATHING:

138 SHEETS

VENTILATION OF ATTIC SPACE: AUSTIN 4M

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

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

CALCULATIONS:
MAIN ROOF
2608 SF / 150 = 17.39 SF VENTILATION REQUIRED

SOFFIT:
193 LF SOFFIT VENT @ 19.5 si/LF = 3363.5 si
3363.5 si / 144 si PER SF = 26.14 SF ACTUAL

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

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

REVISED 05-07-07

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

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

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

p:\houses_05\austin4\st\aus4-mr.st

AMERICANA | OSB LAYOUT

AUSTIN- 4

ELEVATION "M"

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 10-18-04

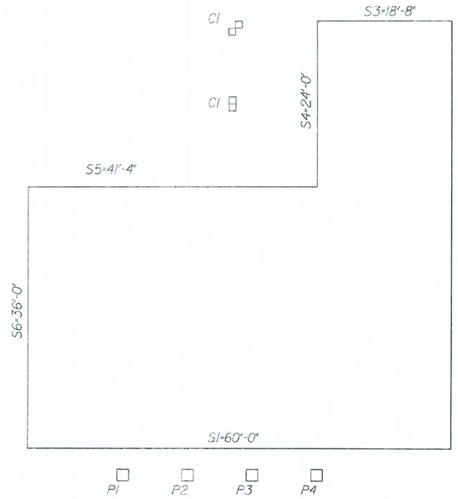
10:58:26

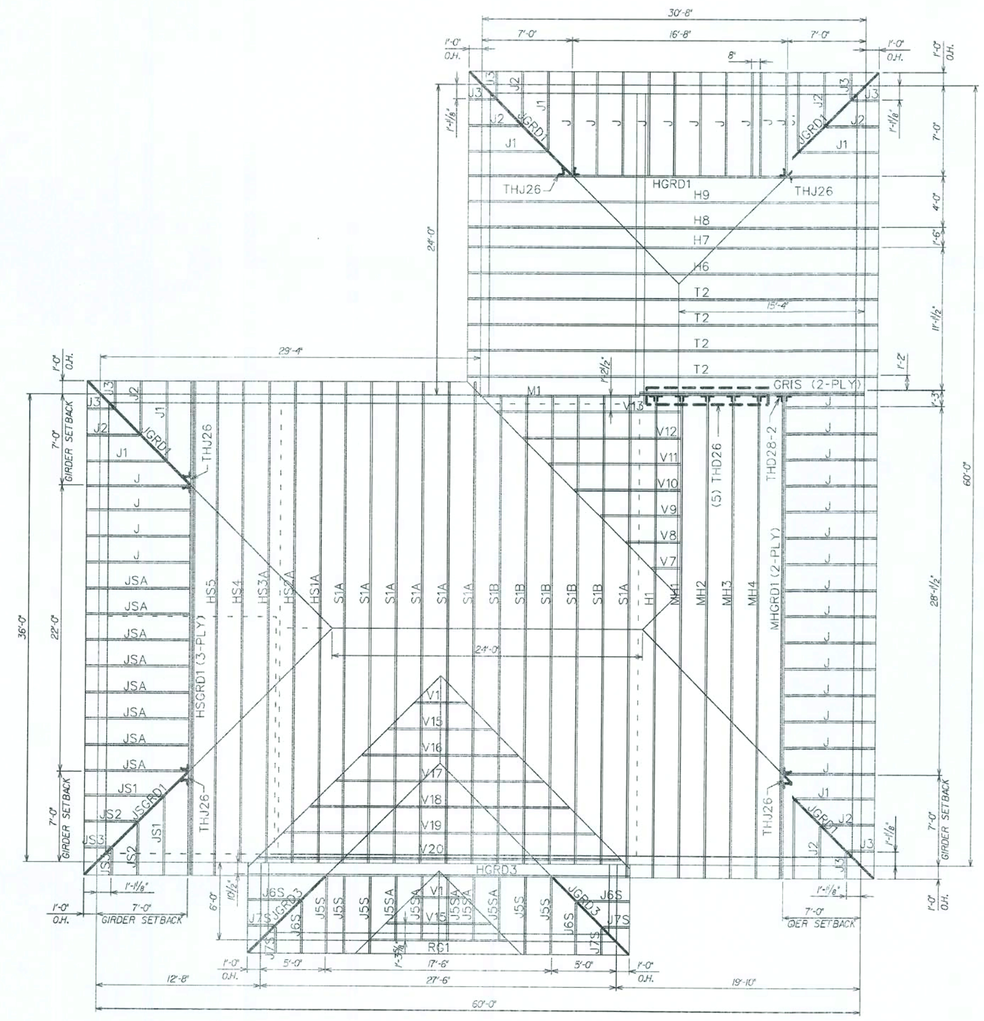
PLOT DATE: 07 APR 2008

SHEET:

RSIm

FLORIDA BUILDING CODE 2004 : RESIDENTIAL





STRUCTURAL WALL SCHEDULE

WALL ID	STUD		OVERTURN ANCHOR - APPLIED AT CORNERS & BOTH SIDES OF OPENINGS			WALL TO SLAB		TOP OF STUD TO PLATE		SHEARWALL SHEATHING	
	SIZE & GRADE	SPACING	PRODUCT CODE	BOLT TO SLAB SIZE	SPECIAL NOTES	PRODUCT CODE	SPACING	PRODUCT CODE	SPACING	TYPE	NAIL SIZE &SPACING
S1-S6	8" CMU	-	-	-	-	-	-	-	-	-	-
P1-P4	8" CMU	-	-	-	16"x16" PIER	-	-	-	-	-	-

TP1-02 TRUSS HARDWARE SCHEDULE

160%

TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LEFT	UPLIFT MID	UPLIFT RIGHT	LEFT STRAP TYPE	LEFT STRAP MAX. UPLIFT	FASTENERS	MID STRAP TYPE	MID STRAP MAX. UPLIFT	FASTENERS	RIGHT STRAP TYPE	RIGHT STRAP MAX. UPLIFT	FASTENERS
S1A	SCISSOR	7	368		286	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
S1B	SCISSOR	5	368		286	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
H1	MONO HIP	1	379		284	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
MH1	MONO HIP	1	329		362	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
MH2	MONO HIP	1	318		365	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
MH3	MONO HIP	1	305		368	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
MH4	MONO HIP	1	296		370	TA 18	1205	(8)10d X 1½	—	—	—	THD26	2170	HEADER (18) 16d TRUSS (12) 10d X 1½
* MHGRD1	MONO HIP 2-PLY GRDR	1	1885		1881	(2)TA18	2410	(8)10d X 1½	—	—	—	THD28-2	2485	HEADER (28) 16d TRUSS (16) 10d X 1½
HS1A	HIP SCISSOR	1	280		362	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS2A	HIP SCISSOR	1	267		348	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS3A	HIP SCISSOR	1	251		333	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
HS4	HIP SCISSOR	1	315		315	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
* HS5	HIP SCISSOR	1	295		295	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
* HSGRD1	3-PLY GRDR	1	1665		1691	(2)TA18	2410	(8)10d X 1½	—	—	—	(2)TA18	2410	(8)10d X 1½
GRD2S	3-PLY GRDR	1	2367		3261	(2)TA18	2410	(8)10d X 1½	—	—	—	MUGT15	4165	(24) 16d (1)⅝" ANCHOR BOLT, 3¼" EMBEDDED
T2	COMMON	4	302	556	212	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½
H6	HIP	1	310	535	224	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½
H7	HIP	1	323	508	211	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½
H8	HIP	1	321	471	209	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½
H9	HIP	1	331	499	202	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½
HGRD1	1 PLY HIP GIRDER	1	444	2380	672	TA 18	1205	(8)10d X 1½	(2)TA 18	2410	(8)10d X 1½	TA 18	1205	(8)10d X 1½
HGRD3	1 PLY HIP GIRDER	1	1071		1091	TA 18	1205	(8)10d X 1½	—	—	—	TA 18	1205	(8)10d X 1½
JGRD1	KING JACK	4	247		307	TA 18	1205	(8)10d X 1½	—	—	—	THJ26 [2]	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½
JSGRD1	KING JACK	1	260		305	TA 18	1205	(8)10d X 1½	—	—	—	THJ26 [2]	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½
JGRD3	KING JACK	2	170		164	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J	END JACK	29	120		34	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		3 / 2
JSA	END JACK	8	118		99	TA 18	1205	(8)10d X 1½	—	—	—	THJ26 [2]	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½
J1	CORNER JACK	8	114		91	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
JS1	CORNER JACK	2	111		93	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J2	CORNER JACK	8	113		37	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
JS2	CORNER JACK	2	110		40	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J3	CORNER JACK	8	116		11	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
JS3	CORNER JACK	2	108		11	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J6S	CORNER JACK	4	113		37	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J7S	CORNER JACK	4	116		11	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J5S	END JACK	5	114		91	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		2 / 2
J5SA	END JACK	5	20		104	TA 18	1205	(8)10d X 1½	—	—	—	16d NAILS		4 / 2
M1	MONO	1	140	61	117	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	16d NAILS		2 / 2
RG1	GABLE	1	23	112	21	TA 18	1205	(8)10d X 1½	TA 18	1205	(8)10d X 1½	16d NAILS		2 / 2
V	VALLEY SET		LTW12 @ 48" o.c.				670	(12) 10d						

TRUSS HARDWARE SCHEDULE

ALL HARDWARE MANUFACTURED BY USP XXXX 1

ALL HARDWARE MANUFACTURED BY SIMPSON XXXX 2

ALL HARDWARE MANUFACTURED BY CLEVELAND XXXX

* (2)TA18'S,(1) EACH FACE OF GIRDER @ BLOCK WALL

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

GENERAL TRUSS NOTES:

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

REVISED 1/18/08

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

08-14-07 REV. CODE INFORMATION

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIRE-MENTS OF THE STATE OF FLORIDA BUILDING CODE, 2004 - RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST, INLAND EXPOSURE, B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

p:\f1houses_05\austin4\125\nfltek_1t1\aus4-m125.t1

INFO SHEET

AMERICANA

AUSTIN 4

ELEVATION "M"

GARAGE: RIGHT

125 MPH

DRAWN BY:

RELEASE DATE: 04-04-06

10:54:15

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

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:

TRlm

PLOT DATE: 25 FEB 2008

elecitem REPORT

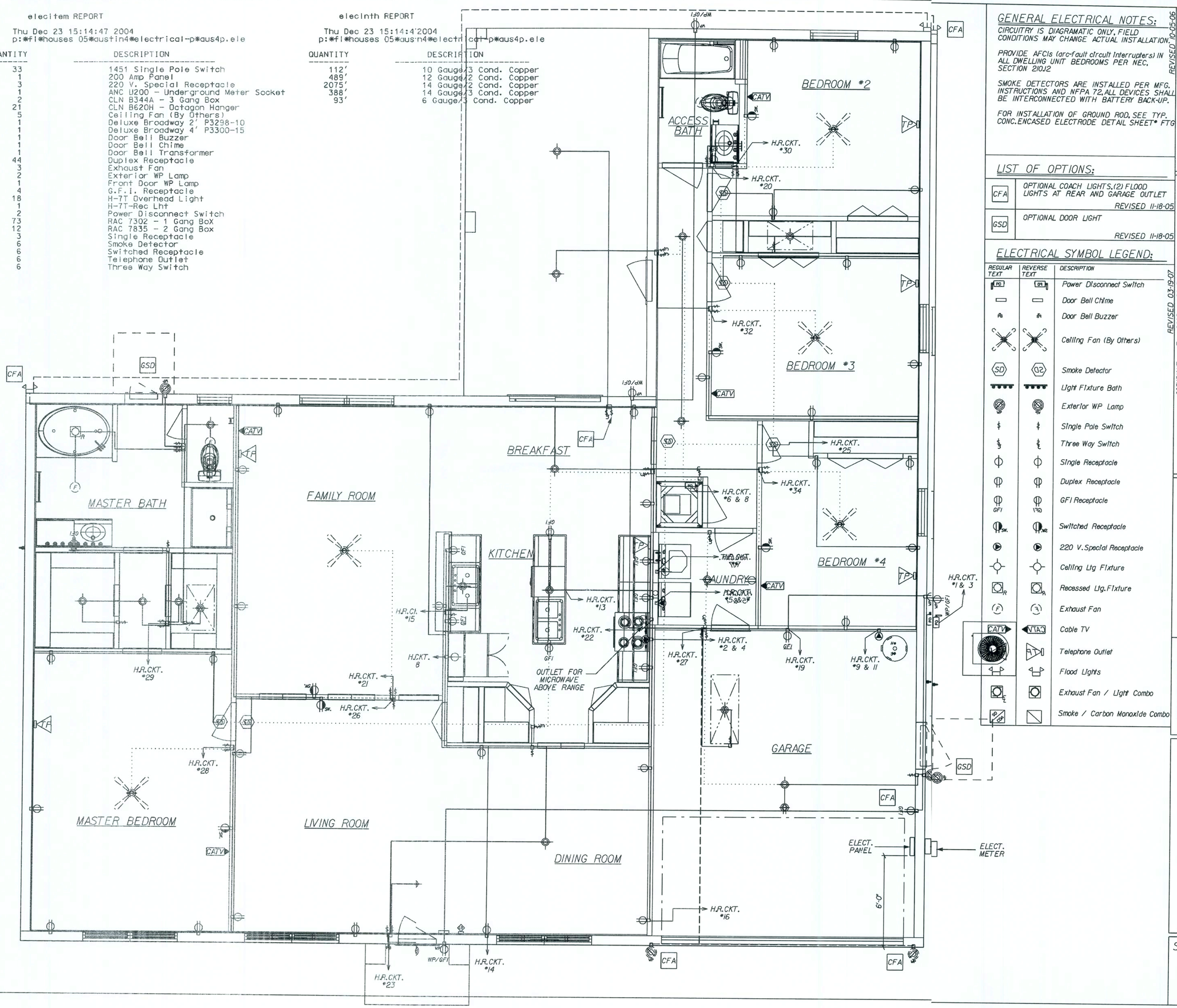
Thu Dec 23 15:14:47 2004
p:*fl*houses 05*austin4*electrical-p*aus4p.ele

QUANTITY	DESCRIPTION
33	1451 Single Pole Switch
1	200 Amp Panel
3	220 V. Special Receptacle
1	ANC U200 - Underground Meter Socket
2	CLN B344A - 3 Gang Box
21	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
1	Door Bell Transformer
44	Duplex Receptacle
3	Exhaust Fan
2	Exterior WP Lamp
1	Front Door WP Lamp
4	G.F.I. Receptacle
18	H-7T Overhead Light
1	H-7T-Rec Lht
2	Power Disconnect Switch
73	RAC 7302 - 1 Gang BoX
12	RAC 7835 - 2 Gang Box
3	Single Receptacle
6	Smoke Detector
6	Switched Receptacle
6	Telephone Outlet
6	Three Way Switch

elecinth REPORT

Thu Dec 23 15:14:4'2004
p:*fl*houses 05*aus:n4*electr l cal-p*aus4p.ele

QUANTITY	DESCRIPTION
112'	10 Gauge/3 Cond. Copper
489'	12 Gauge/2 Cond. Copper
2075'	14 Gauge/2 Cond. Copper
388'	14 Gauge/3 Cond. Copper
93'	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 210J2

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
DB	DB	Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW.	SW.	Switched Receptacle
		220 V.Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg.Fixture
F	F	Exhaust Fan
CATV	CATV	Cable TV
TP	TP	Telephone Outlet
		Flood Lights
F L		Exhaust Fan / Light Combo
SD CM		Smoke / Carbon Monoxide Combo

REVISIONS :
02-03-06 REVISED MASTER BATH LIGHT

REVISED 03-19-07

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

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

AMERICANA

ELECTRICAL

AUSTIN 4

ELEVATION 'P' & "R"

DRAWN BY:
GARAGE: RIGHT
RELEASE DATE: 12/28/04

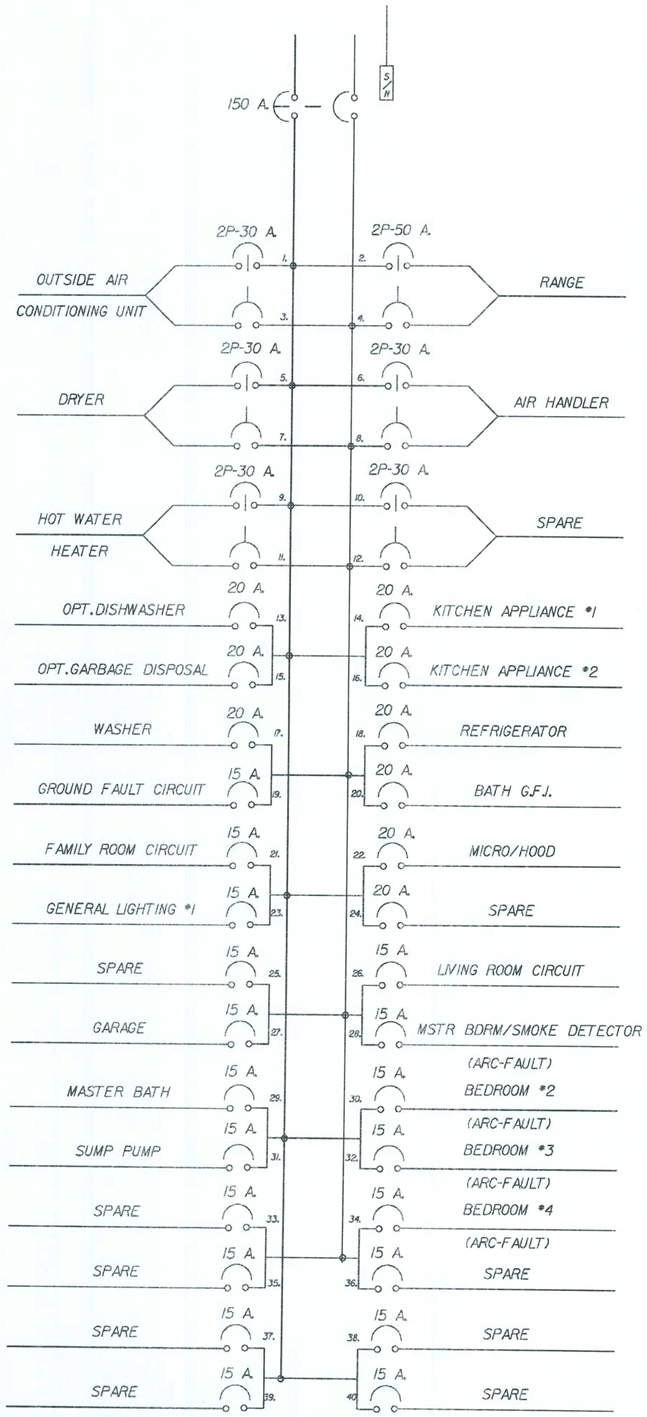
COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET:
E1

PLOT DATE: 13 JUN 2008 11:26:23

p:\f houses_05\austin4\electrical-p\aus4.pdl

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



MAIN BREAKER LOAD CENTER

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

ELECTRICAL LOAD CALCULATIONS

09/21/05

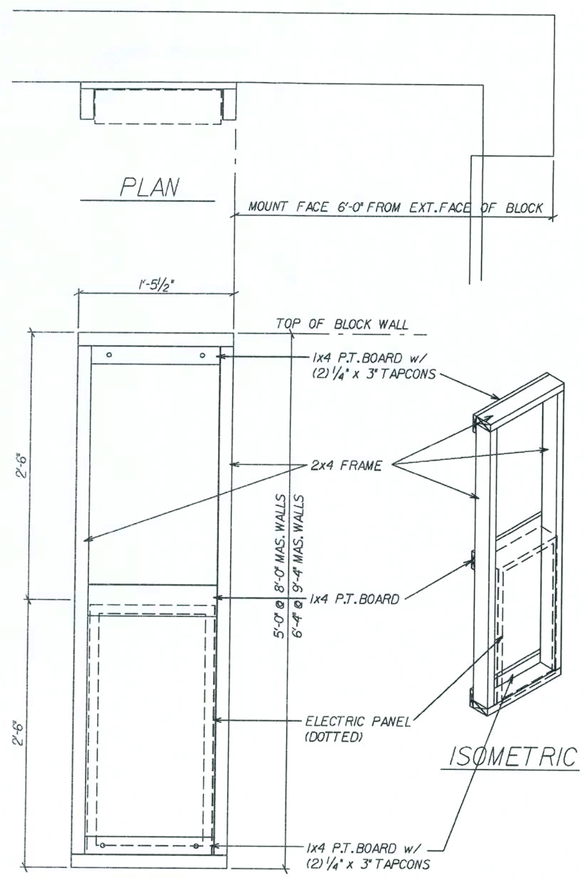
MODEL: AUSTIN 4

		VOLT/AMPS
LARGEST LOAD:HEAT PUMPW/SUPPLEMENTAL HEAT		**13700**
SQUARE FEET LIVING AREA	**2236** @ 3 VOLT/AMPS	6708
SMALL APPLIANCE CIRCUITS		3000
LAUNDRY CIRCUIT		1500
OVEN		11700
WATER HEATER		4500
DISHWASHER		1500
DRYER		5000
DISPOSAL		500
TOTAL LOAD		**34408**

FIRST 10KVA @100%	10000
REMAINDER @40%	9763.2
LARGEST LOAD	13700

TOTAL LOAD **33463** V.A./240 VOLTS= **139** AMPS

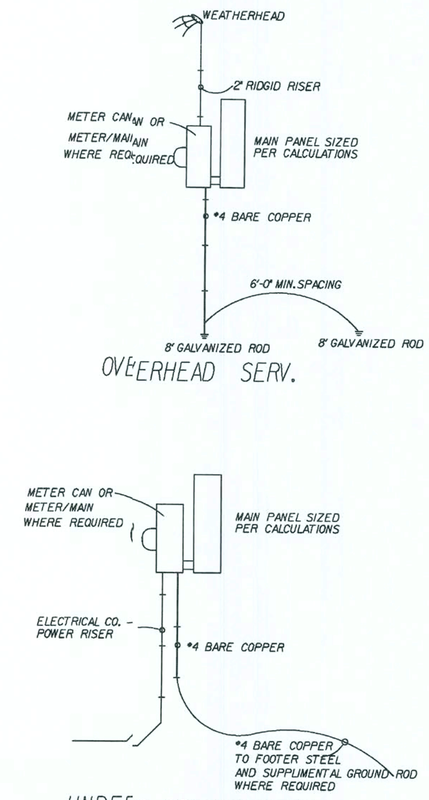
SERVICE SIZE: 150 AMPS



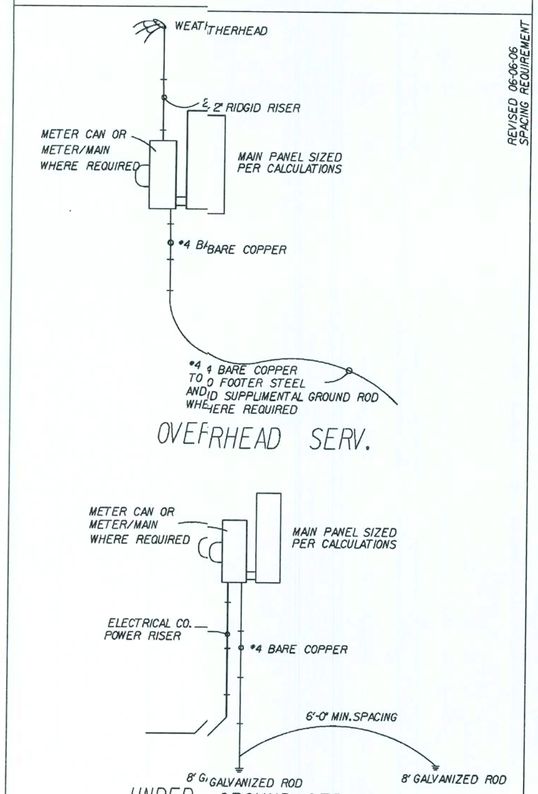
ELECTRIC PANEL FRAME

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

SCALE: 1" = 1'-0"



REVISED 06-06-06
SPACING REQUIREMENT



REVISED 06-06-06
SPACING REQUIREMENT

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

REVISIONS :
05-23-06 REV. WASHER FROM 15A TO 20A
05-24-06 ADD NOTE FOR LOCK-DOG
12-13-06 EUM. SMOKE DETECT. HOME RUN.
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM
03-10-08 REV. DW & GD BKR. TO 20 AMP.- KW

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

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D:\houses_05\austin4\electrical\aus4.elc

AMERICANA | ELECTRICAL DETAILS

AUSTIN-4

GARAGE:

DRAWN BY:

RELEASE DATE: 09-11-03

11:26:24

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET:
ELIA

PLOT DATE: 13 JUN 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

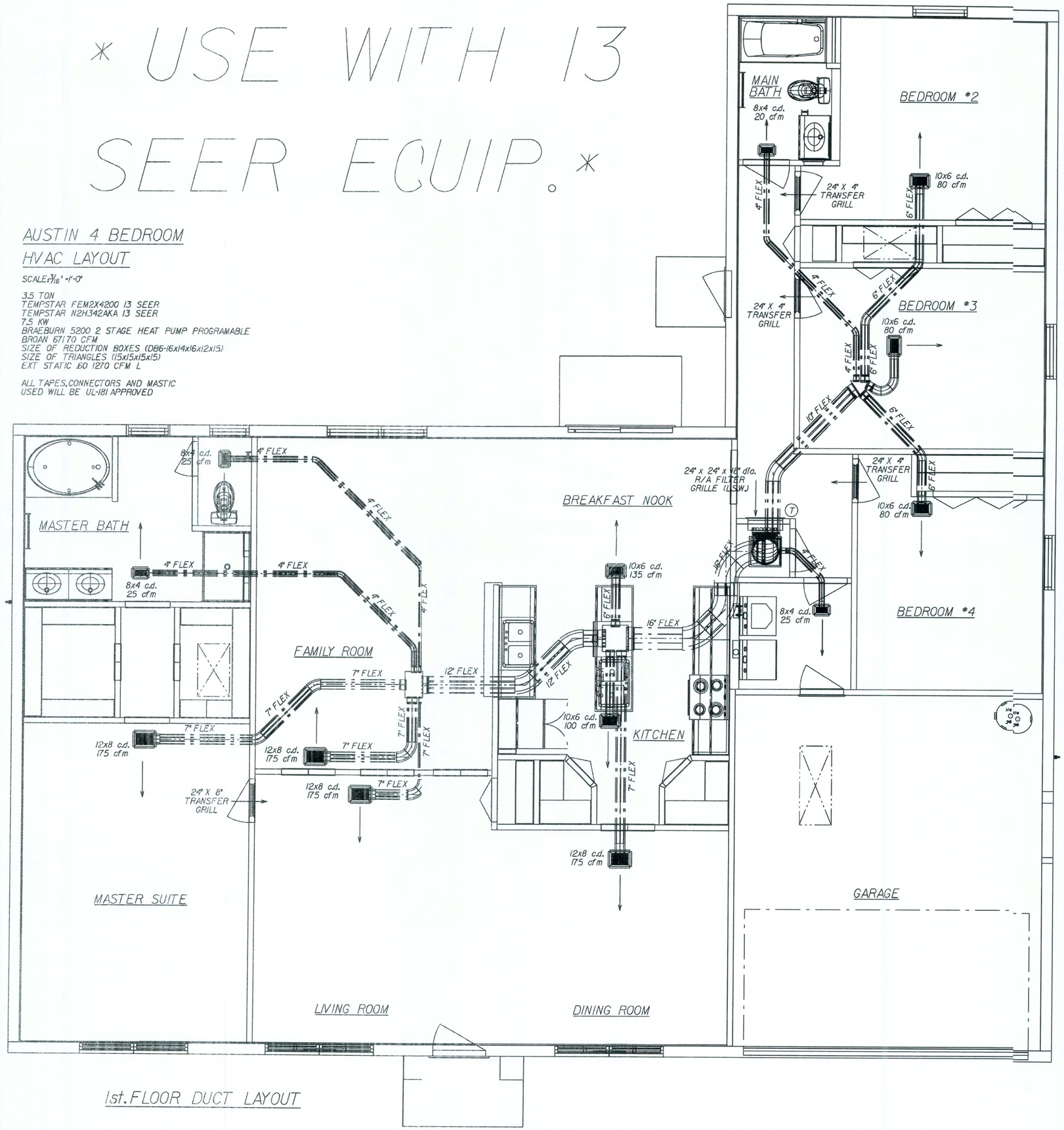
* USE WITH 13 SEER EQUIP. *

AUSTIN 4 BEDROOM
HVAC LAYOUT

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

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

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



1st. FLOOR DUCT LAYOUT

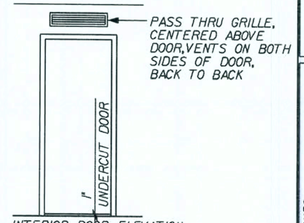
GENERAL MECHANICAL NOTES:

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

SEE ELECTRIC PLANS FOR EXHAUST FAN LOCATIONS IN BATH AREAS.

SEE FLOOR PLAN FOR CLOTHES DRYER VENT LOCATION.

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



INTERIOR DOOR ELEVATION

REVISIONS :
1) REV. TRANSF. GRILLE/FLEX. DUCT (8/25/05)
11-01-05 REMOVED ENG'S NOTE
10/31/06 13 SEER UPDATE PER DWGS. TJM

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

FLORIDA:
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AMERICANA | REGESTER LAYOUT

AUSTIN - 4

4 BEDROOM

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 10-18-04 TOM MARTINEZ

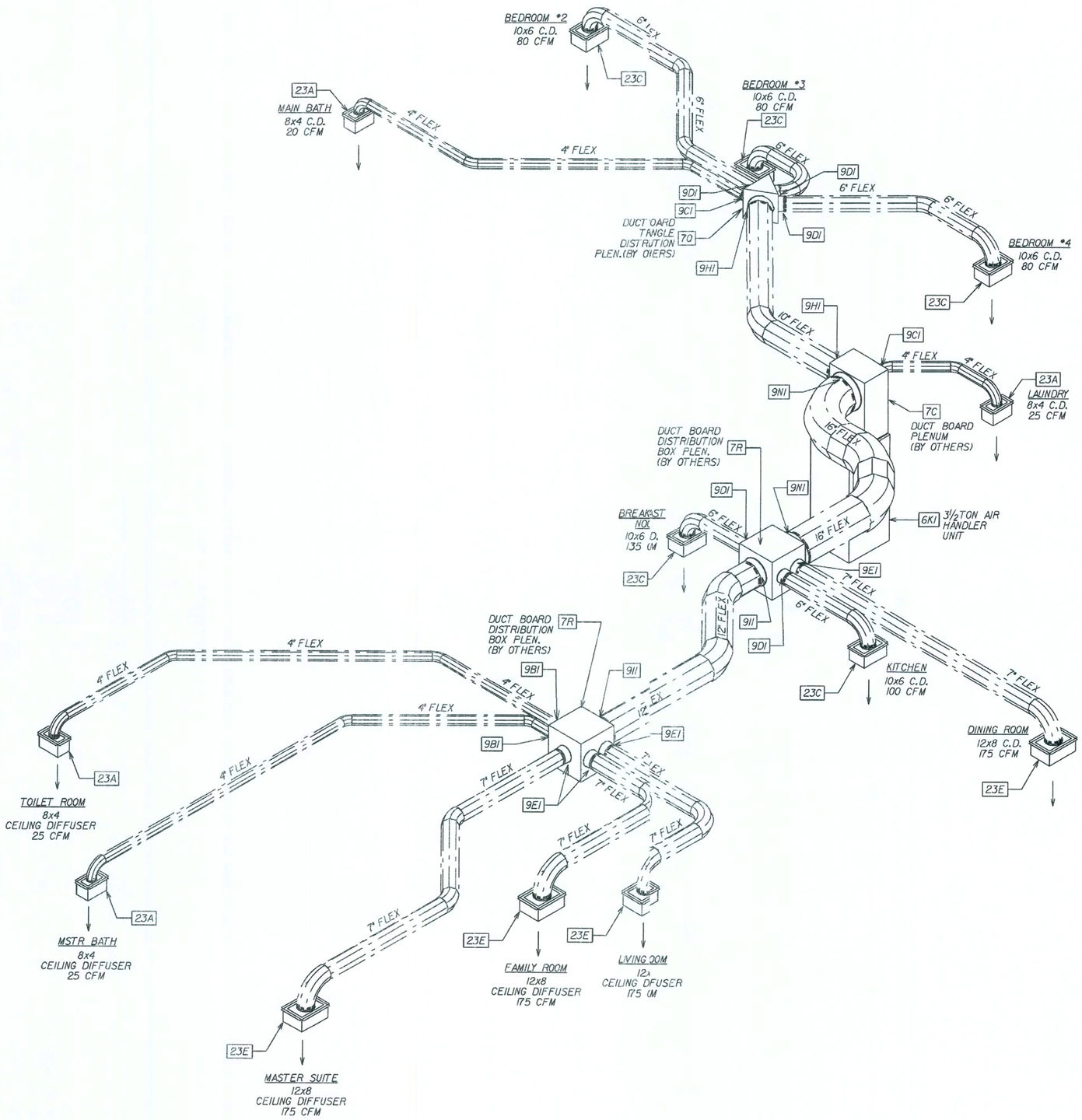
PLOT DATE: 04 DEC 2007 09:14:53

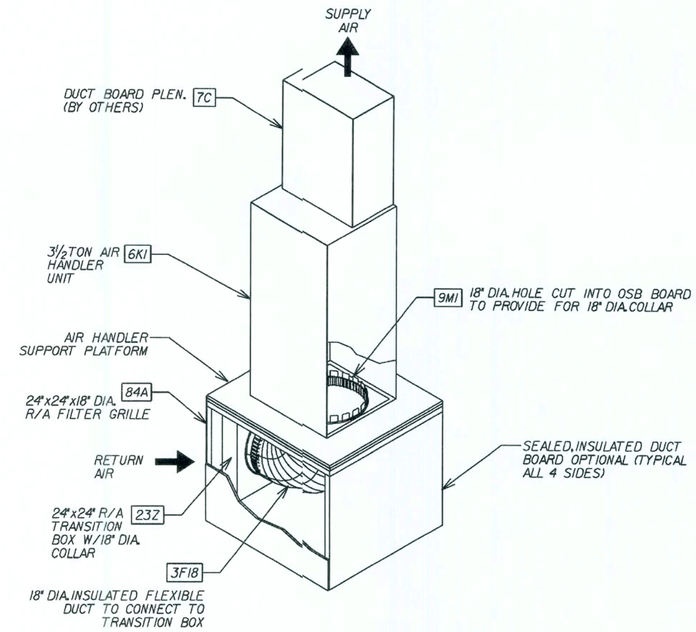
P:\Houses_05\austin4hvac\austin4hj3.hvg

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET:
HVA

FLORIDA BUILDING CODE 2004 : RESIDENTIAL





RETURN-AIR ISOMETRIC

hvacitem REPORT

Tue Oct 31 11:41:52 2006
p:*fl*houses 05*austin4*hvac*austin4h.htg

QUANTITY	DESCRIPTION		
4	23A	150045.00035	8x4 CEILING BOOT W/4" DIA. COLLAR
5	23C	150045.00036	10x6 CEILING BOOT W/6" DIA. COLLAR
4	23E	150045.00038	12x8 CEILING BOOT W/7" DIA. COLLAR
1	23Z	150045.00046	24x24 R/A TRANSITION BOOT W/18" COLLAR
10'	3F10	150040.00097	10" FOIL FLEX R6
11'	3F12	150040.00098	12" FOIL FLEX R6
8'	3F16	150040.00108	16" FOIL FLEX R6
3'	3F18	150040.00138	18" FOIL FLEX R6
65'	3F4	150040.00091	4" FOIL FLEX R6
33'	3F6	150040.00093	6" FOIL FLEX R6
45'	3F7	150040.00094	7" FOIL FLEX R6
1	6K1	150005.00044	FEM2X4200A 13 SEER 3.5 TON AHU
1	6Q1	150010.00104	N2H342AKA 13 SEER 3.5 TON CONDENSER
1	7C	150005.00110	19x13x30"H BOX PLENUM
1	7Q	150040.00118	DUCT PLENUM TRIANGLE
2	7R	150040.00111	18" SQUARE DUCT PLENUM
3	81A	150055.00041	24x4 TRANSFER GRILLE
3	81B	150045.00052	24x4 TRANSFER GRILLE FRAME
1	81C	150055.00078	24x8 TRANSFER GRILLE
1	81D	150045.00078	24x8 TRANSFER GRILLE FRAME
1	84A	150055.00032	24x24 RETURN AIR FILTER GRILLE
4	9B1	150040.00075	4" K-COLLAR/ROTH (4KC/413)
5	9D1	150040.00077	6" K-COLLAR/ROTH (6KC/413)
4	9E1	150040.00078	7" K-COLLAR/ROTH (7KC/413)
2	9H1	150040.00081	10" K-COLLAR/ROTH (10KC/413)
2	9I1	150040.00082	12" K-COLLAR/ROTH (12KC/413)
1	9M1	150040.01137	18" K-COLLAR/ROTH (18KC/413)
2	9N1	150040.00084	16" K-COLLAR/ROTH (16KC/413)

AUSTIN 4 BEDROOM HVAC LAYOUT

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

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

* USE WITH 13 SEER EQUIP. *

REVISIONS :
1) REV.FLEX.DUCT & B/M (8/26/05) T.T.
10/31/06 13 SEER UPDATE PER DWGS.TJM

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

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

AMERICANA | H.V.A.C. ISO

AUSTIN - 4

4 BEDROOM

GARAGE: RIGHT

DRAWN BY: TOM MARTINEZ

RELEASE DATE: 10-18-04

D:\f1\houses_05\austin4\hvac\austin4h3.iso

09:14:53

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET:
ISO-H

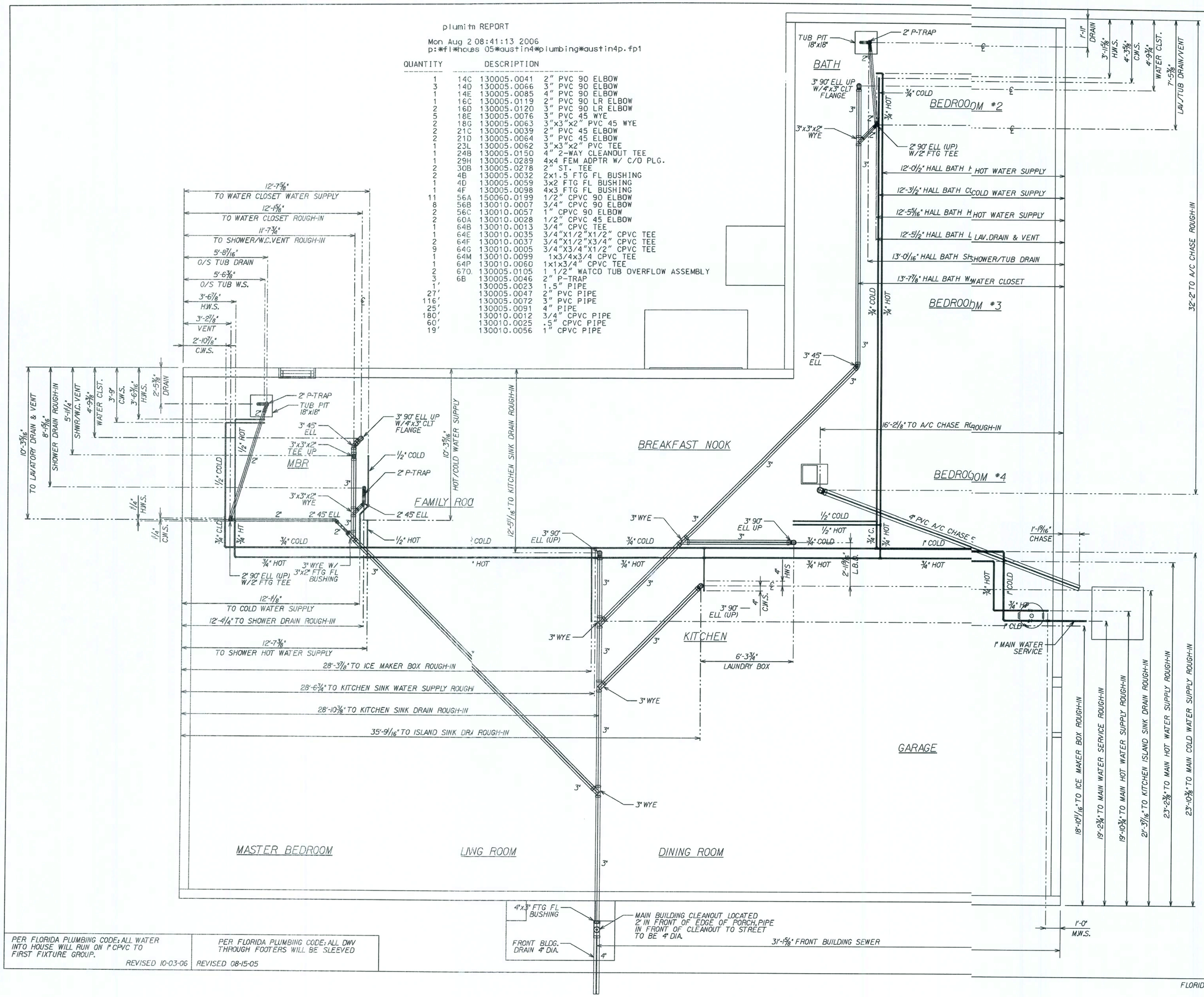
PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 :RESIDENTIAL

plumitm REPORT

Mon Aug 2 08:41:13 2006
p:*fl*houses 05*austin4*plumbing*austin4p.fp1

QUANTITY		DESCRIPTION	
1	14C	130005.0041	2" PVC 90 ELBOW
3	14D	130005.0066	3" PVC 90 ELBOW
1	14E	130005.0085	4" PVC 90 ELBOW
1	16C	130005.0119	2" PVC 90 LR 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	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	30B	130005.0278	2" ST. TEE
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
11	56A	150060.0199	1/2" CPVC 90 ELBOW
8	56B	130010.0007	3/4" CPVC 90 ELBOW
2	56C	130010.0057	1" CPVC 90 ELBOW
2	60A	130010.0028	1/2" CPVC 45 ELBOW
1	64B	130010.0013	3/4" 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
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	670.	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
3	6B	130005.0046	2" P-TRAP
1'		130005.0023	1.5" PIPE
27'		130005.0047	2" PVC PIPE
116'		130005.0072	3" PVC PIPE
25'		130005.0091	4" PIPE
180'		130010.0012	3/4" CPVC PIPE
60'		130010.0025	.5" CPVC PIPE
19'		130010.0056	1" CPVC PIPE



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

PER FLORIDA PLUMBING CODE: ALL DWV THROUGH FOOTERS WILL BE SLEEVED
REVISED 08-15-05

REVISIONS :

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

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AMERICANA UNDERGROUND PLBG.

AUSTIN - 4

4 BEDROOM

GARAGE: RIGHT

DRAWN BY: TOM MARTINEZ

RELEASE DATE: 10-18-04

p:\fl\houses_05\austin4\plumbing\austin4p.fpl

09:15:40

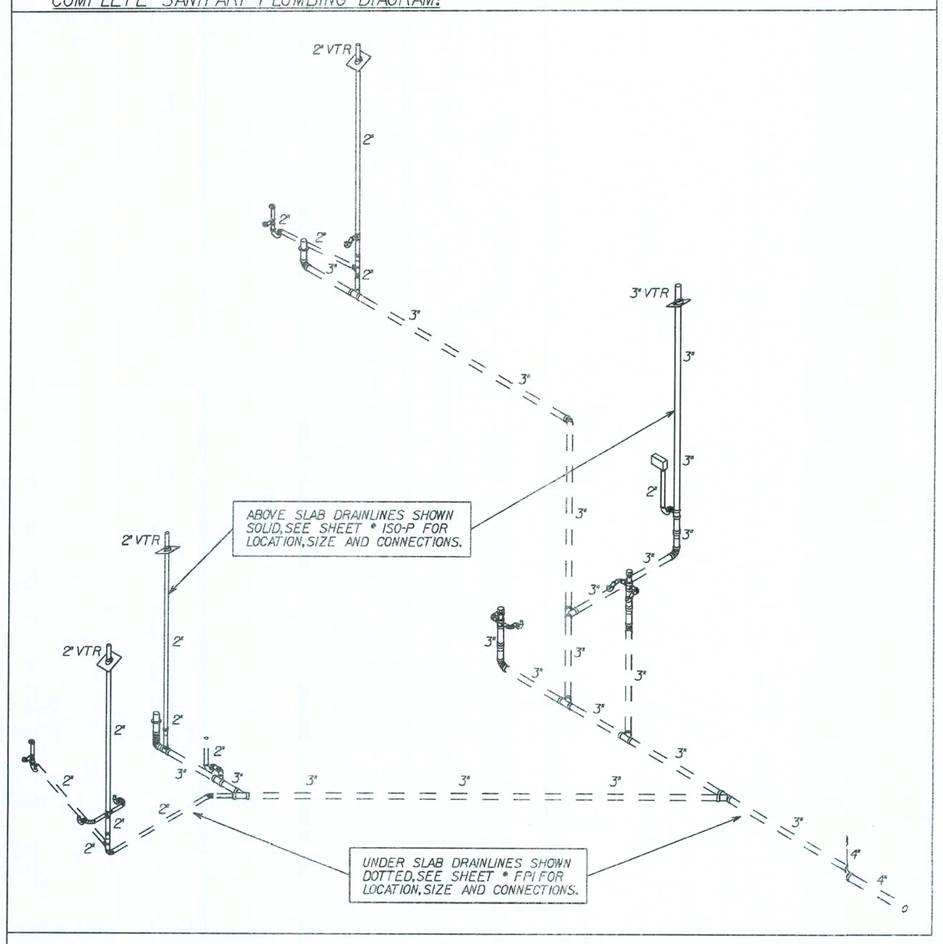
COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

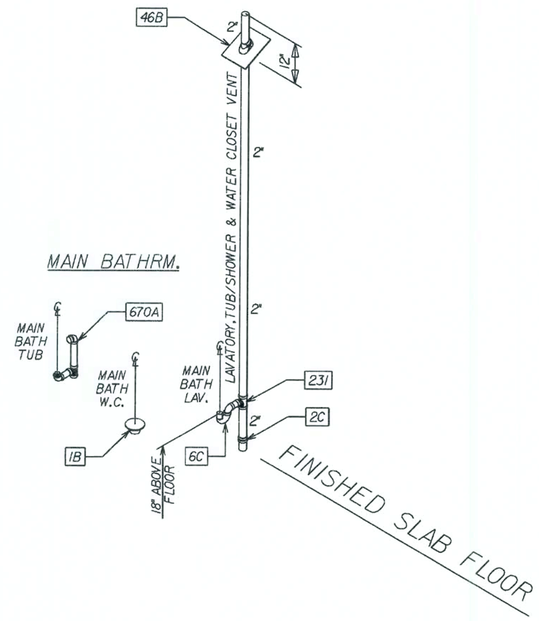
SHEET:
FPI

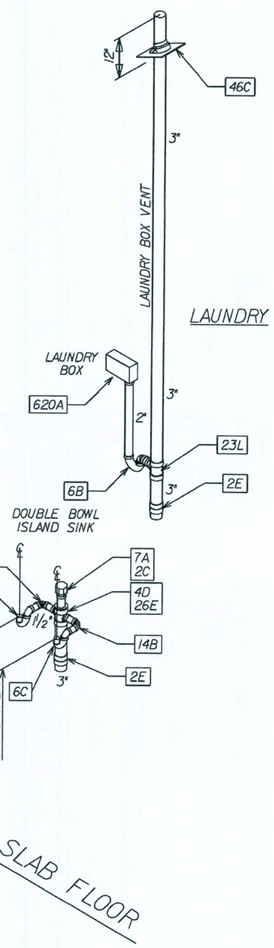
PLOT DATE: 04 DEC 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

COMPLETE SANITARY PLUMBING DIAGRAM:







plumitem REPORT

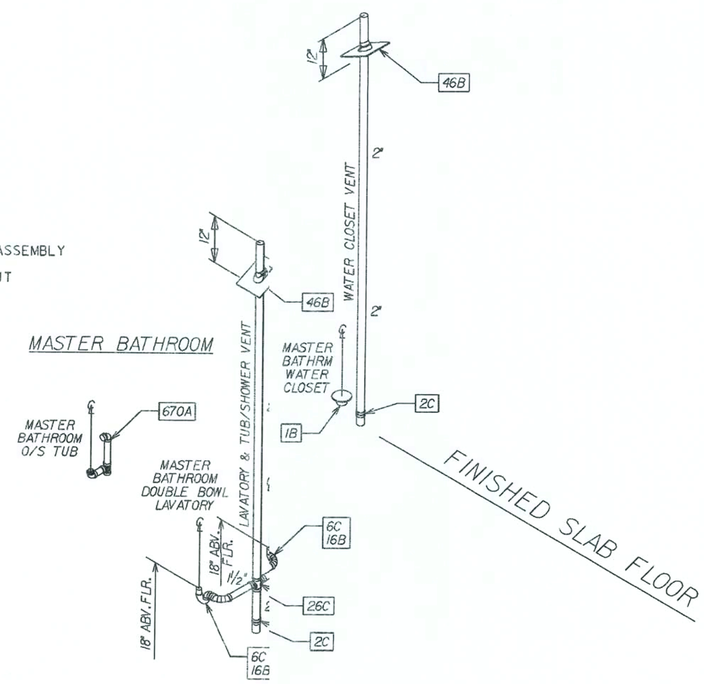
Mon Aug 28 09:50:15 2006
p:*fl*houses 05*austin4*plumbing*austin4p.plm

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

Pluminth REPORT

Mon Aug 28 09:50:15 2006
p:*fl*houses 05*austin4*plumbing*austin4p.plm

QUANTITY	DESCRIPTION	
5'	130005.0023	1.5" PIPE
41'	130005.0047	2" PVC PIPE
19'	130005.0072	3" PVC PIPE



REVISIONS :
08/28/06 REVD.KITCHEN SINK ASSEM.- T.JM

Maronda Homes

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

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p:\fl\houses_05\austin4\plumbing\austin4p1.iso

AMERICANA D.W.V. PLUMBING ISO

AUSTIN - 4

4 BEDROOM

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

09:15:41

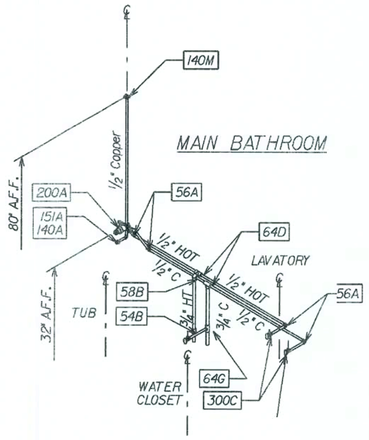
COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET:

ISO-P

PLOT DATE: 04 DEC 2007

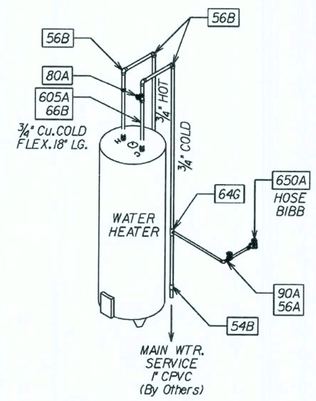
FLORIDA BUILDING CODE 2004 : RESIDENTIAL

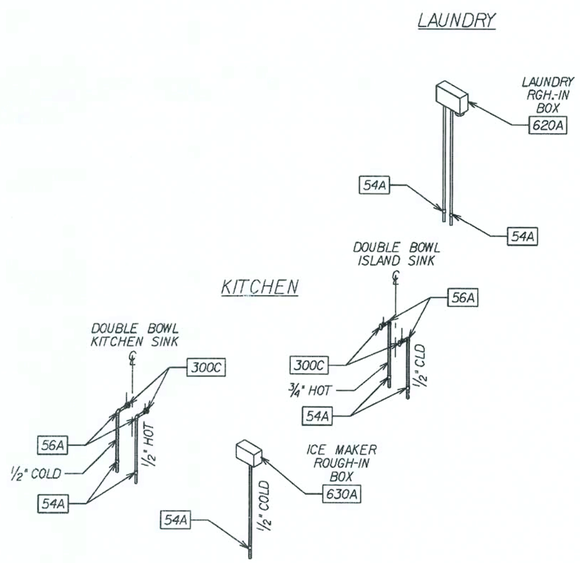


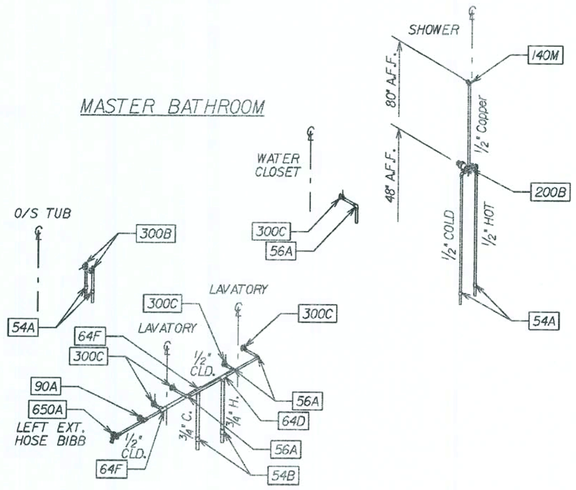
plumitem REPORT

Thu Aug 12 10:48:36 2004
p:*fl*houses 05*austin4*plumbing*austin4p.plm

QUANTITY	DESCRIPTION
1	140A 90 ELL Cu 1/2"
2	140M 90 ELL Cu 1/2 Drop
1	151A Adapter Male Cu 1/2"
1	200A Tub Diverter
1	200B Shower Diverter
2	300B Straight Valve 1/2" x 3/8"
12	300C Angle Valve 1/2" x 3/8"
11	54A CP COUPLING .5
5	54B CPVC COUPLING .75
13	56A CPVC ELBO .5
4	56B CPVC ELBO .75
4	58A CPVC ELBO STREET .5
1	58B CPVC ELBO STREET .75
2	605A Corr Gas App Conn
1	620A Laundry Box Left
1	630A Ice Maker Box
1	640B Water Heater - OH
3	64D CPVC TEE .5x.5x.75
2	64F CPVC TEE .75x.5x.75
2	64G CPVC TEE .75x.75x.5
2	650A Hose Bib
2	66B CPVC MALE ADAPTER BRS THR .75
1	80A CPVC SHUTOFF VALVE .75
2	90A Shut-Off Valve
52'	.5" CPVC PIPE
26'	.75" CPVC PIPE
7'	1/2" Cu Pipe







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

REVISIONS :

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

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

AMERICANA WATER LINES ISO.

AUSTIN - 4

4 BEDROOM

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 10-18-04

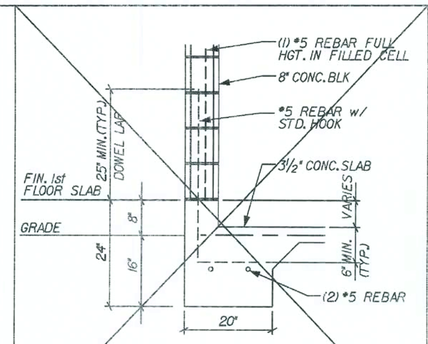
PLOT DATE: 04 DEC 2007 09:54:41

p:\fl\houses_05\austin4\plumbing\austin4w.iso

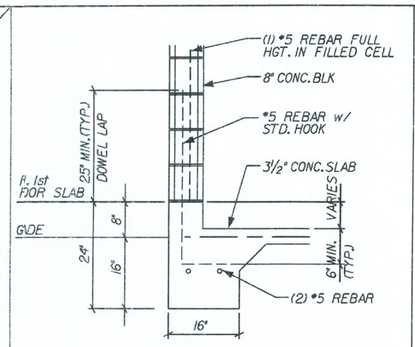
COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

SHEET:
ISO-W

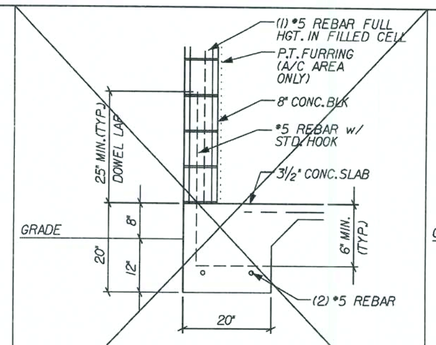
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



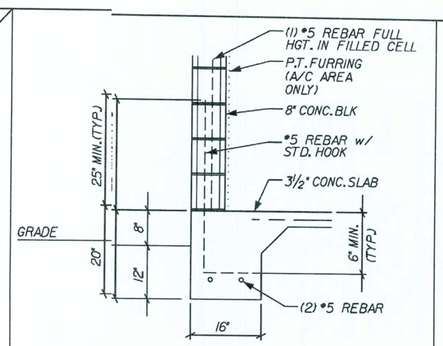
G2 GARAGE 2-STORY
REVISED 11-07-06 DELETED STONE LEDGE
SCALE: ½" = 1'-0"



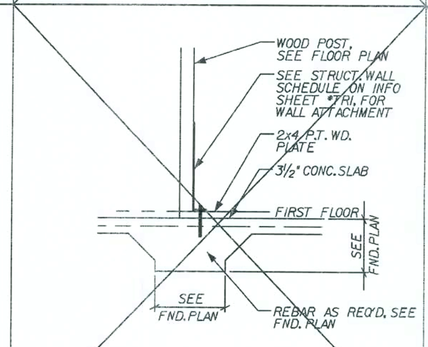
G GARAGE 1-STORY
REVISED 11-07-06 DELETED STONE LEDGE
SCALE: ½" = 1'-0"



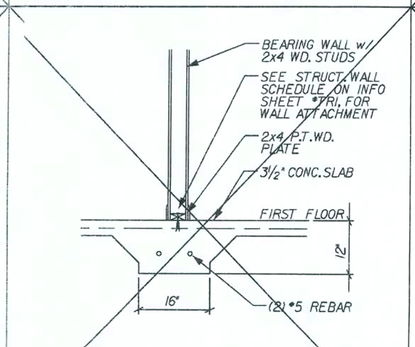
A2 TYPICAL 2-STORY
REVISED 11-07-06 DELETED STONE LEDGE
SCALE: ½" = 1'-0"



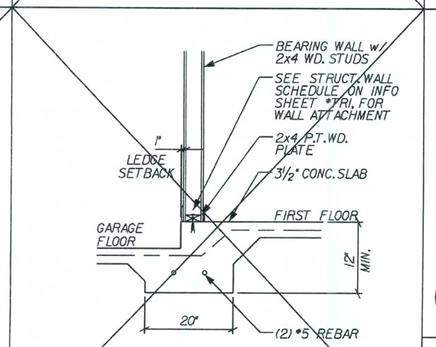
A TYPICAL 1-STORY
REVISED 11-07-06 DELETED STONE LEDGE
SCALE: ½" = 1'-0"



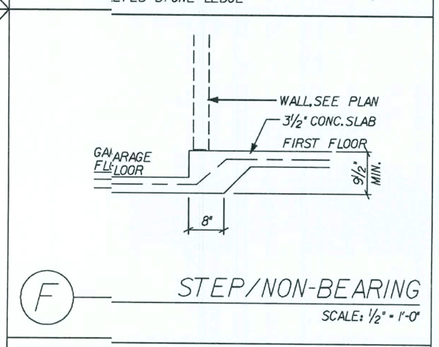
J INTERIOR BEARING POST
NOT USED
SCALE: ½" = 1'-0"



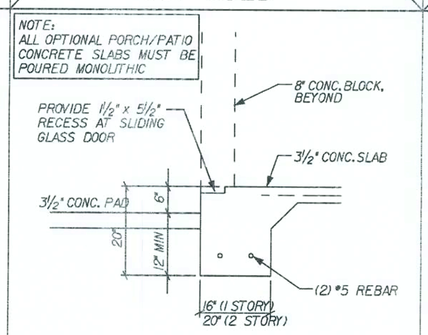
I INTERIOR BEARING
NOT USED
SCALE: ½" = 1'-0"



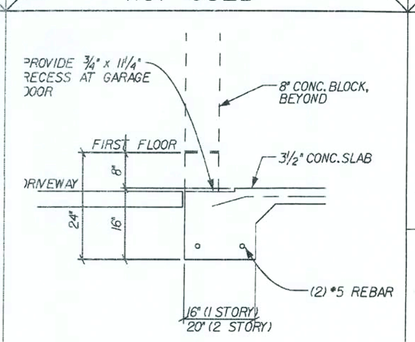
H STEP/BEARING
REVISED 01-31-05
NOT USED
SCALE: ½" = 1'-0"



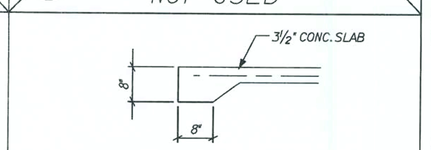
F STEP/NON-BEARING
SCALE: ½" = 1'-0"



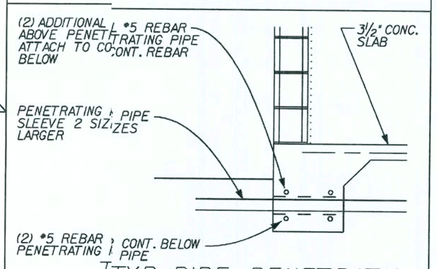
S RECESS @ SLIDER
REVISED 05-06-05
SCALE: ½" = 1'-0"



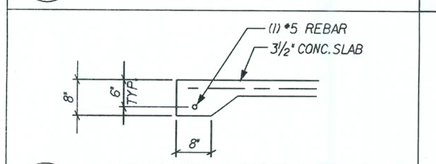
R THICK'N EDGE/GARAGE
REVISED 04-23-06
SCALE: ½" = 1'-0"



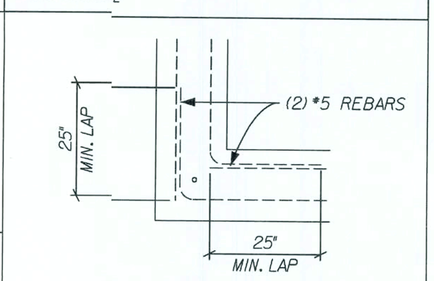
N THICK'N EDGE
SCALE: ½" = 1'-0"



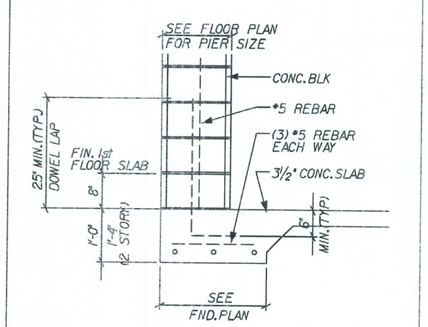
TYP. PIPE PENETRATION
REVISED 06-01-06 ADDED DETAIL
SCALE: ½" = 1'-0"



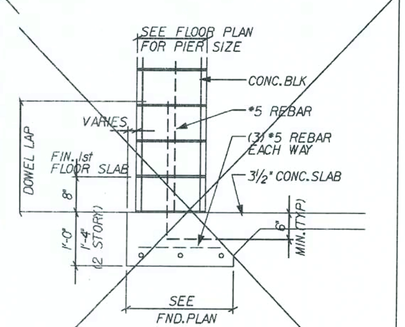
P THICK'N EDGE/BEARING
SCALE: ½" = 1'-0"



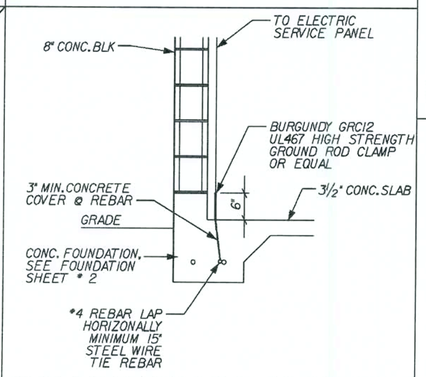
TYP. FTNG @ CORNERS
04-07-08 ONE CORNER DTL
SCALE: ½" = 1'-0"



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



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



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

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

REVISIONS :

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

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

AUSTIN 4

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

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

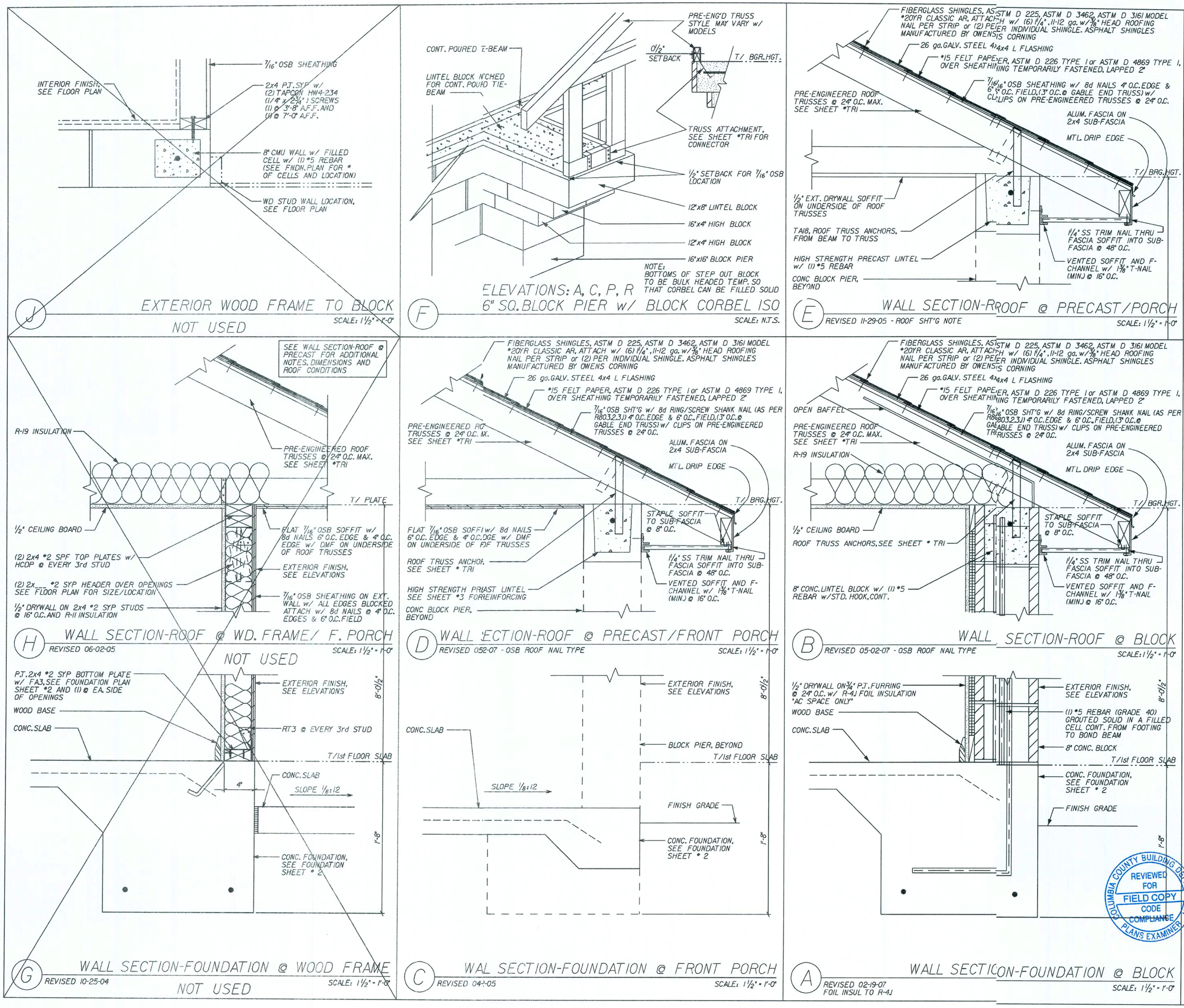
Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:
FTG

p:\1\houses..05\austin4\details\aus4-std.ftg
PLOT DATE: 04 DEC 2007 09:12:58

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



REVISIONS :

09-21-06 DETAIL F: ADDED ELEV. CALL-OUT

Maronda Homes

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

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

d:\f\houses_05\austin4\details\std_ws-bl.dwg

ONE STORY | WALL SECTIONS

AUSTIN 4

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

PLOT DATE: 04 DEC 2007 09:12:59

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

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

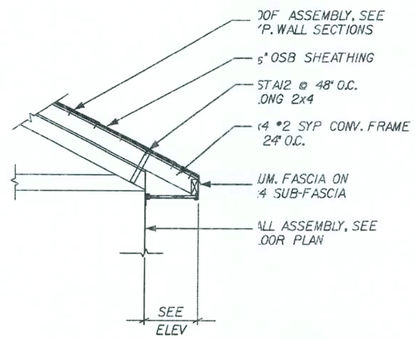
SHEET:

WS-B1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

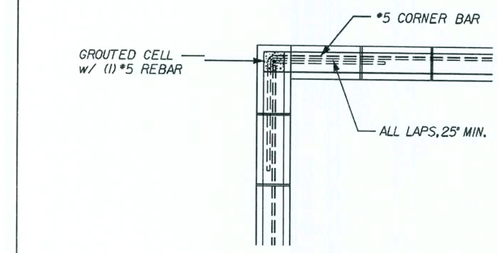
USP HARDWARE - 160% REVISED 05-10-06

PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
HTW24	USP	(20) 10d	1325
HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" " EMBED. -ALL GRDR.-(8) 10d	9790
HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9860
JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
KST227 STRP ANC.	USP	(34) 16d	4750
LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1½"	1250
LSTA36	USP	(22) 10d X 1½"	1640
LTW12	USP	(12) 10d	670
LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3¼" EMBED. (10) 10d X 1½"STRAP	1890
LBP12 BEARING PLT	USP	½" J-BOLT	2515
LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
MSTAI2	USP	(10) 10d	1015
MSTAI8	USP	(14) 10d	1420
MSTA24	USP	(18) 10d	1640
MSTA30	USP	(22) 10d	2065
MTW12	USP	(14) 10d	1030
MTW18	USP	(14) 10d	1030
MTS27B STRP ANC	USP	(24) 16d (1)¾" ANCHOR BOLT 3¼" EMBEDDED	4635
MUGT15	USP	(22) 10d (1)⅝" ANCHOR BOLT 3¾" EMBEDDED	4165
NP37 3⅛X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1½"	
PA 28	USP	(15) 16d	3360
RT-16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
RT-16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1160
RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
SKH 26 L\R	USP	HEADER (6) 16d JACK (6) 10d X 1½"	1085
SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
TA12 TA 12/METAL	USP	(5) #10 SCREWS (9) #10 SCREWS	825 910
TA 14	USP	(7) 10d x 1½"	920
TA 18	USP	(8) 10d x 1½"	1205
(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
TA 24	USP	(8) 10d x 1½"	1205
(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THJ 26 2	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"	1010
USC63	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC3F	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC73	USP	TRUSS (8) 16d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
UGTS63	USP	TRUSS (8) 16d (2)¾" ANC. BOLTS 2¾" EMBEDDED	6170



CONV. FRAMED HIP ROOF

SCALE: ½" = 1'-0"

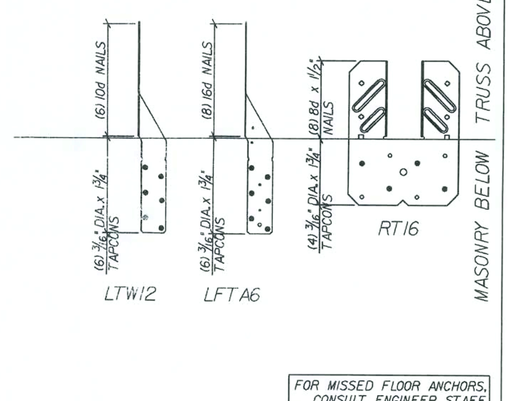


TYPICAL BOND BEAM @ CORNER

REVISED 04-22-05

SCALE: ½" = 1'-0"

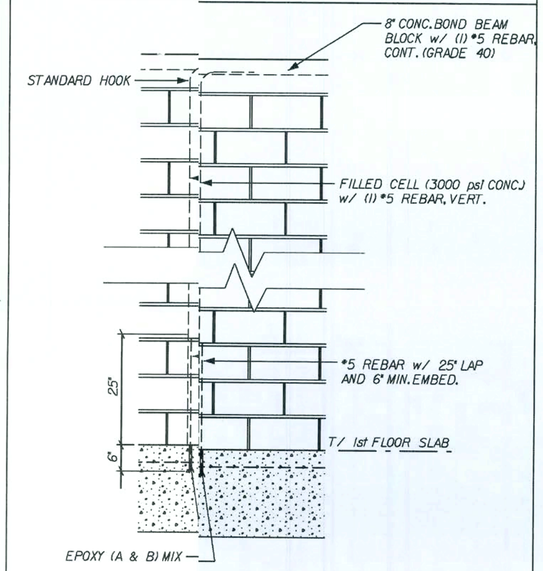
CONNECTOR	MAX. UPLIFT
LTW12	775 LBS
LFTA6	990 LBS
RT16	700 LBS



FOR MISSED FLOOR ANCHORS. CONSULT ENGINEER STAFF

ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

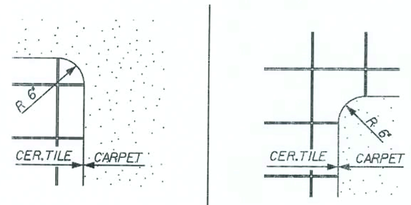
SCALE: N.T.S.



MISSED DOWN ROD REPAIR

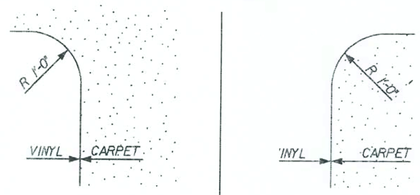
SCALE: ½" = 1'-0"

CERAMIC TILE TO CARPET



OUTSIDE CORNER INSIDE CORNER

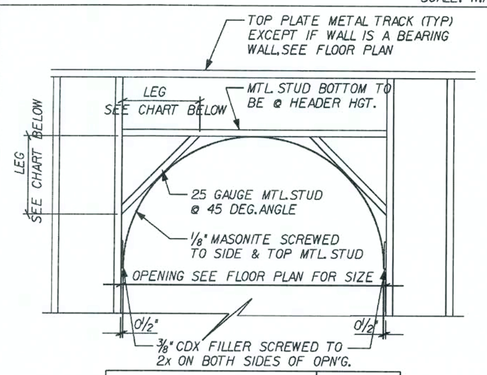
VINYL TO CARPT



OUTSIDE CORNER ISIDE CORNER

FLOOR EDGE ORNER DETAIL

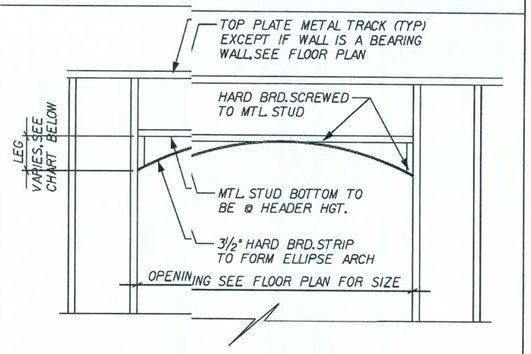
SCALE: ½" = 1'-0"



OPENING	LEGS
2'-1" = 2'-0" ARCH OPENING	7½"
2'-7" = 2'-6" ARCH OPENING	8⅞"
2'-9" = 2'-8" ARCH OPENING	9⅞"
3'-1" = 3'-0" ARCH OPENING	10⅝"
4'-1" = 4'-0" ARCH OPENING	15"
-	-

INTERIOR CURVED ARCH

SCALE: ½" = 1'-0"



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

INTERIOR ELLIPSE ARCH

SCALE: ½" = 1'-0"

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

REVISIONS :

03-22-06 ADDED CONV. ROOF DETAIL

Maronda Homes

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE BOOK 1 RESIDENTIAL AND 2005, 2006 SUPPLEMENT

STANDARD DETAILS

AUSTIN 4

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

PLOT DATE: 04 DEC 2007 09:12:59

p:\houses_05\austin4\details\std_details.sdi

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

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:

SD1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

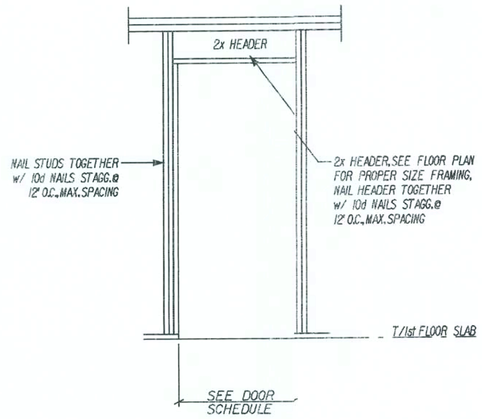
REVISED 02-15-07
83¾" -> 82 7/16"

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD I.S.	25½" x 80 5/16"	26" x 80⅛"	29" x 82 3/16"
2-8 STANDARD I.S.	33½" x 80 5/16"	34" x 80⅛"	37" x 82 3/16"
2-10 STANDARD I.S.	35½" x 80 5/16"	36" x 80⅛"	39" x 82 3/16"
3-0 STANDARD I.S.	37½" x 82"	38" x 82¼"	41" x 82 3/16"
3-0 w/SIDELIGHT I.S.	51⅛" x 82"	51 5/16" x 82¼"	54 5/16" x 82 3/16"
3-0 w/(2) SIDELIGHT I.S.	64½" x 82"	65" x 82¼"	68" x 82 3/16"
5-8 (2)2-10 FRENCH I.S.	70½" x 80 5/16"	71" x 80⅛"	74" x 82 3/16"

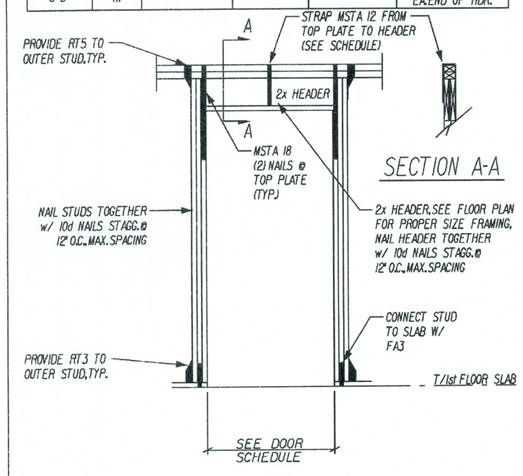
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE +¼" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE +½" FOR WIDTH
** O.S. = OUTSWING
** I.S. = INSWING

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

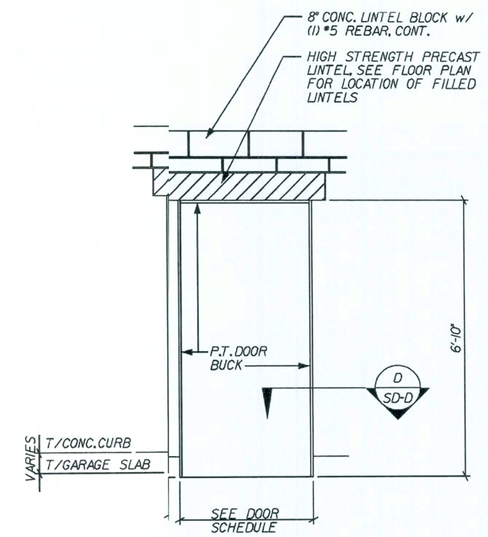


K STD.DOOR - WD FRAME, NO-UPLIFT
SCALE: N.T.S.

MAX. 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.

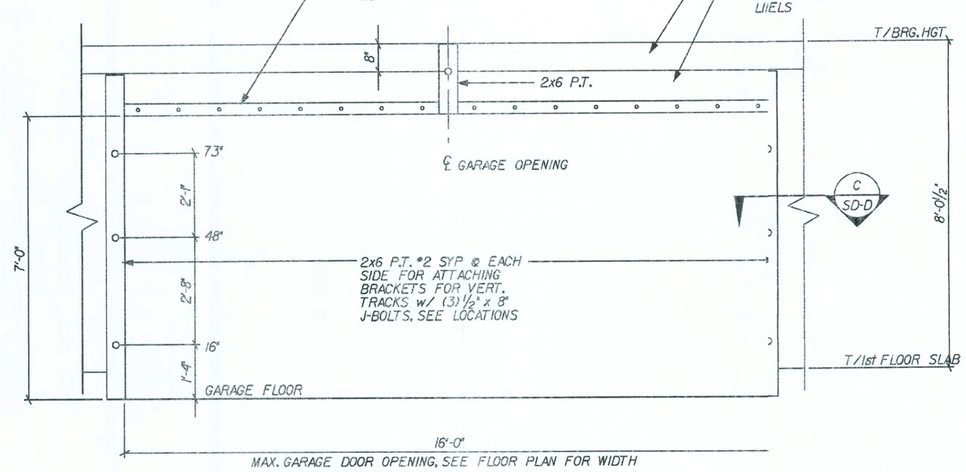


J STD.DOOR - WD FRAME, UPLIFT
SCALE: N.T.S.

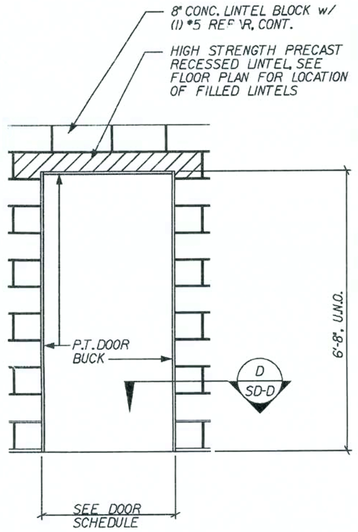


H OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: 3/8" = 1'-0"

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

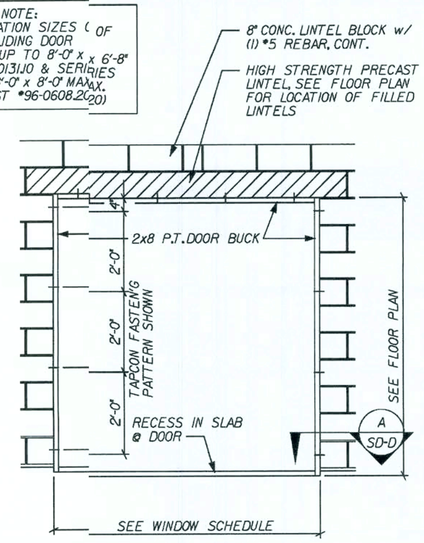


G GARAGE DOR ELEVATION
SCALE: 3/8" = 1'-0"

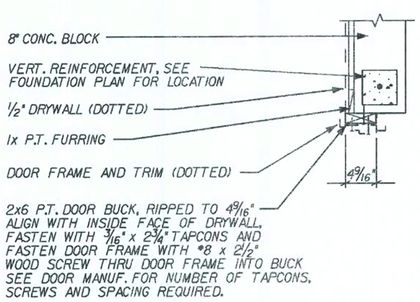


F STANDARD DOOR ELEVATION
SCALE: 3/8" = 1'-0"

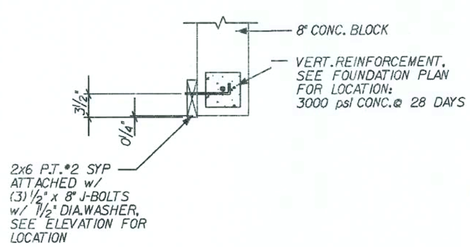
CONTRACTOR NOTE:
FOR INSTALLATION SIZES OF NORANDEX SLIDING DOOR SERIES 500 UP TO 8'-0" x 6'-8" AS PER #96-0131J0 & SERIES 502 UP TO 8'-0" x 8'-0" MAX. (AS PER TEST #96-0608.2G20)



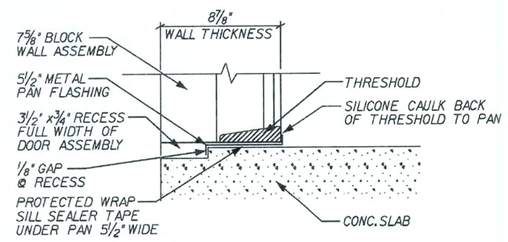
E SLIDING GLASS DOOR ELEVATION
SCALE: 3/8" = 1'-0"



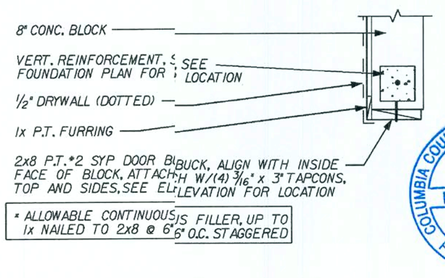
D 2x DOOR BUCK DETAIL
SCALE: ¾" = 1'-0"



C GARAGE DOR BUCK DETAIL
SCALE: ¾" = 1'-0"



B DOOR PAN FLASHING
REVISED 06-08-06
NEW DETAIL
SCALE: ¾" = 1'-0"



A SLIDING GLASS DOOR BUCK DETAIL
REVISED 10-21-04
SCALE: ¾" = 1'-0"

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

REVISIONS :
06-20-06 ADDED DOOR PAN DETAIL

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

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

DOORS | STANDARD DETAILS
AUSTIN 4
GARAGE:
DRAWN BY:
RELEASE DATE: 10-18-04

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

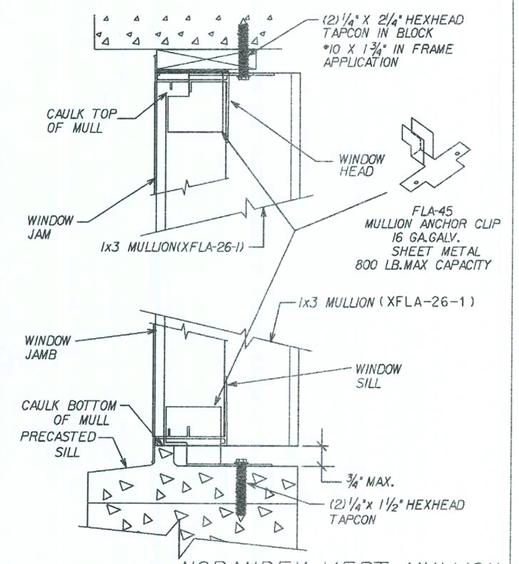
Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:
SD-D

PLOT DATE: 04 DEC 2007
09:3300
p:\Houses_05\austin4\details\std_doors.sdd

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

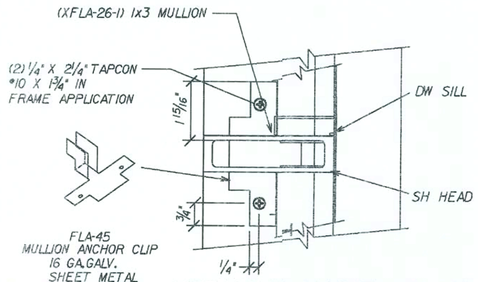


NORANDEX VERT. MULLION CLIP STYLE FLA-45

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

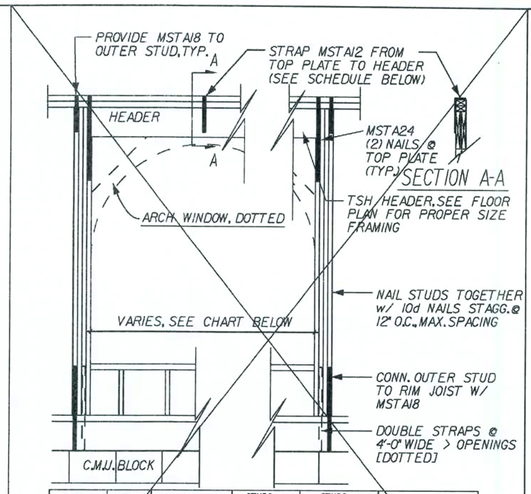
CONTRACTOR NOTE:
FOR INSTALLATION SIES OF NORANDEX WINDOW SRIES 437/438 UP TO 53 1/8 x 76 3/8" AS PER TEST #96-024.20

STANDARD WINDOW ETAILS IN BLOCK WALLS UP TO 10 FEET HIGH



NORANDE' HORIZ. MULLION CLIP STYLE FLA-45

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



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

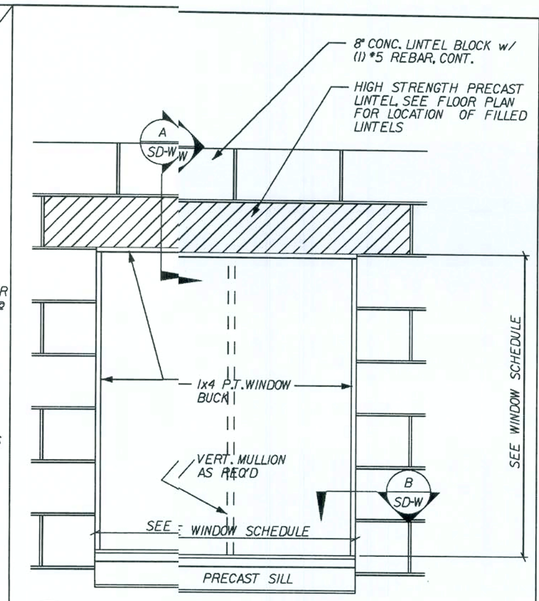
TYP. HEADER DETAIL-2ND FLOOR FRAMING

K

REVISED 06-06-07 : PER WALL PANELS

NOT USED

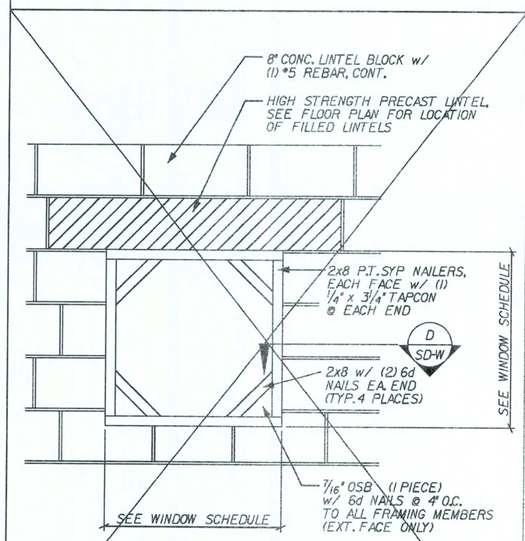
SCALE: N.T.S.



WINDOW-STANDARD-BLK

J

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

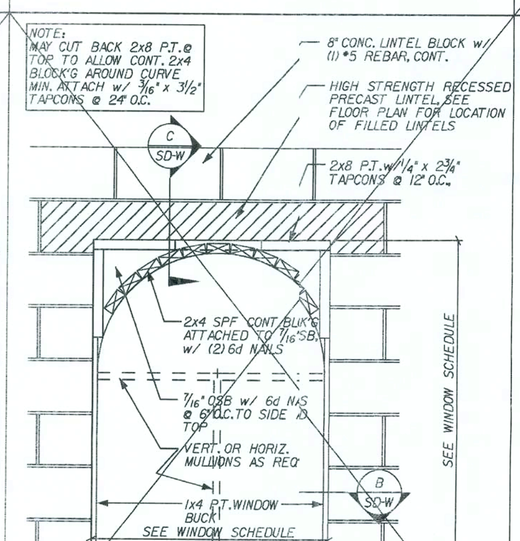


WINDOW-OCTAGON-BLK

H

NOT USED

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

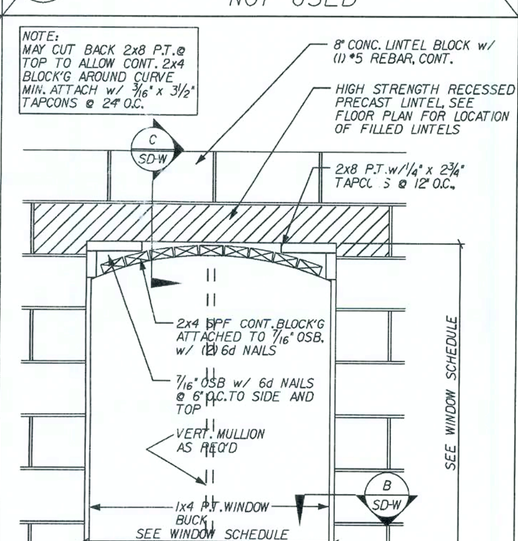


WINDOW-1/2ROUND TOP-BLK

G

NOT USED

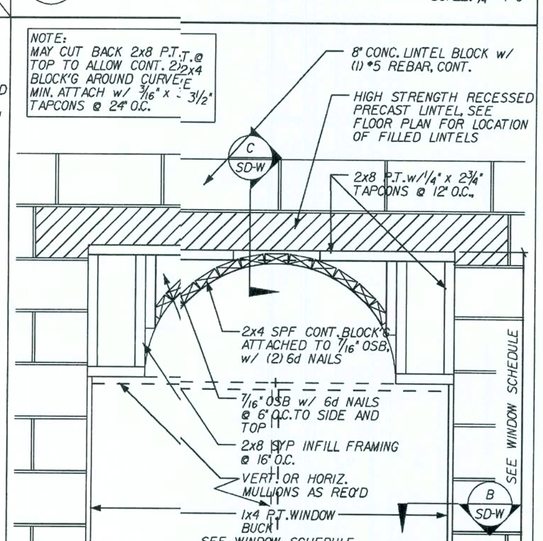
SCALE: 3/4" = 1'-0"



WINDOW-EYEBROW-BLK

F

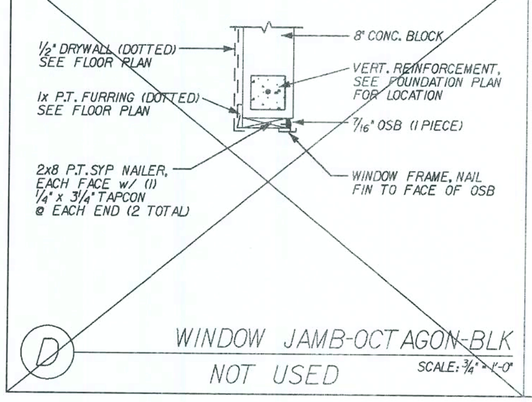
SCALE: 3/4" = 1'-0"



WINDOW-COMBINATION-BLK

E

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

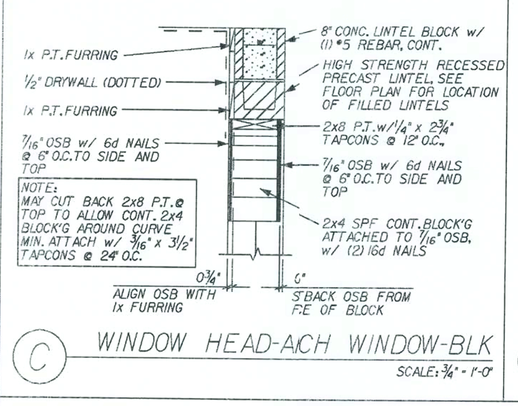


WINDOW JAMB-OCTAGON-BLK

D

NOT USED

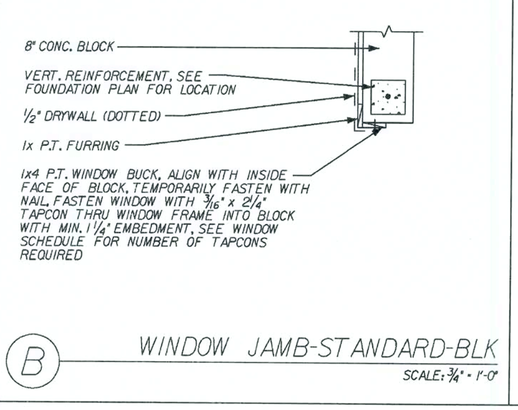
SCALE: 3/4" = 1'-0"



WINDOW HEAD-ACH WINDOW-BLK

C

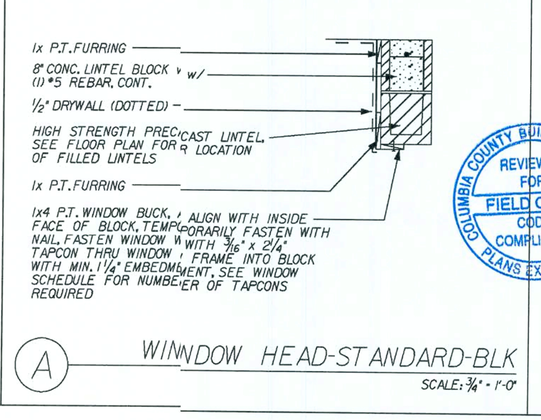
SCALE: 3/4" = 1'-0"



WINDOW JAMB-STANDARD-BLK

B

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



WINDOW HEAD-STANDARD-BLK

A

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

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

REVISIONS :

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

FLORIDA: THIS STRUCTURE WAS DESIGNED IN TWO-FAMILY RESIDENCE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

WINDOWS | STANDARD DETAILS

AUSTIN 4

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

PLOT DATE: 04 DEC 2007 09.13.02

/x/houses_05\austin4\details\std_windows.sdw

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

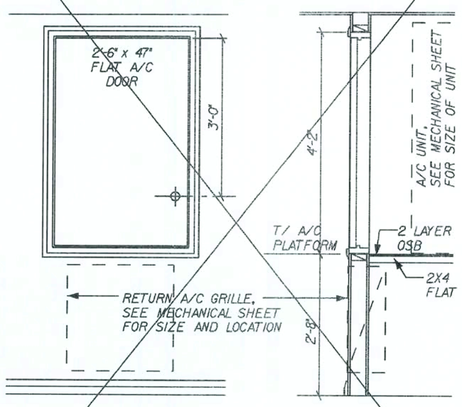
Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

SHEET:

SD-W

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

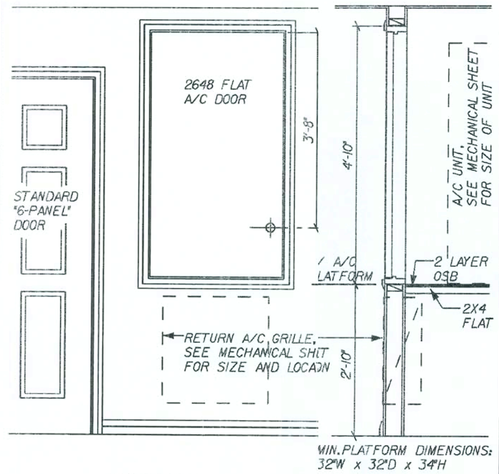


ELEVATION SECTION

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

NOT USED

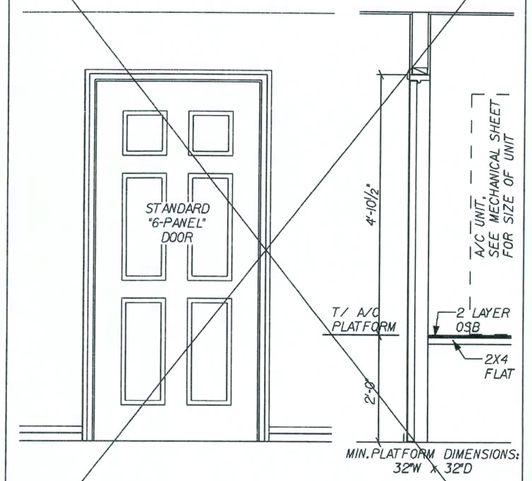
SCALE: 1/2" = 1'-0"



ELEVATION SECTION

ENCLOSED A/C PLATFORM

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

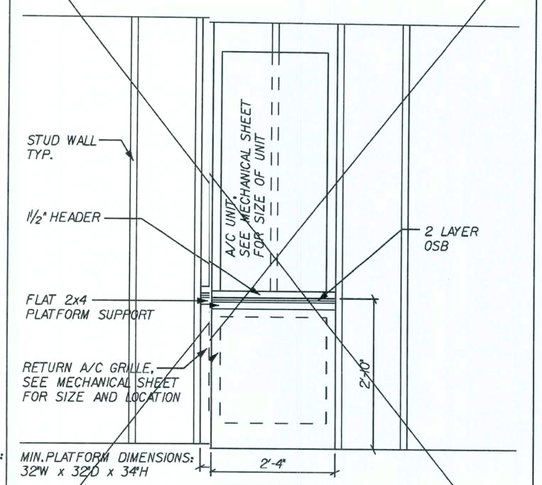


ELEVATION SECTION

FULL DOOR ENCLOSED A/C PLATFORM

NOT USED

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

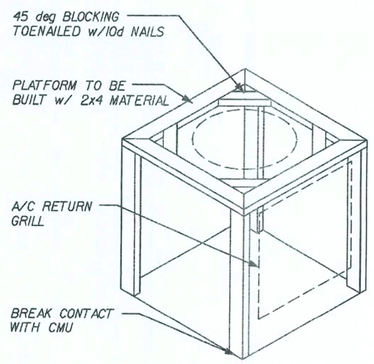


ELEVATION

OPEN A/C PLATFORM

NNOT USED

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



A/C PLATFORM FRAMING

REVISED 01-24-05

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

REVISIONS :

Maronda Homes

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

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

p:\1houses_05\austin4\details\std_heating.sdh

PLATFORM | STANDARD DETAILS

AUSTIN 4

GARAGE:

DRAWN BY:

RELEASE DATE: 10-18-04

09-13-02

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

Elmer Bergman, P.E.
License No. 50158

AUG 04 2008

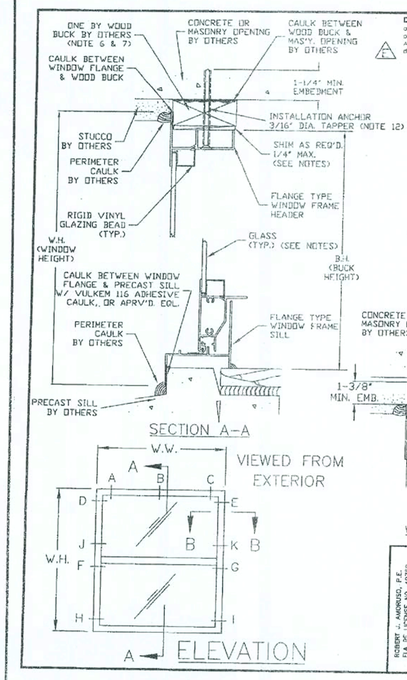
COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

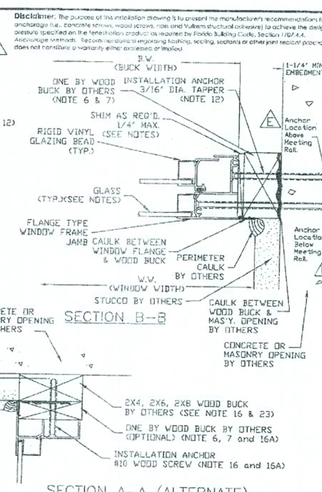
SHEET:

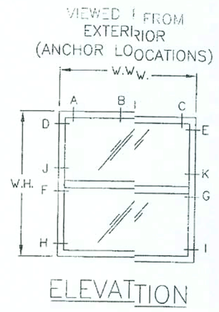
SD-H

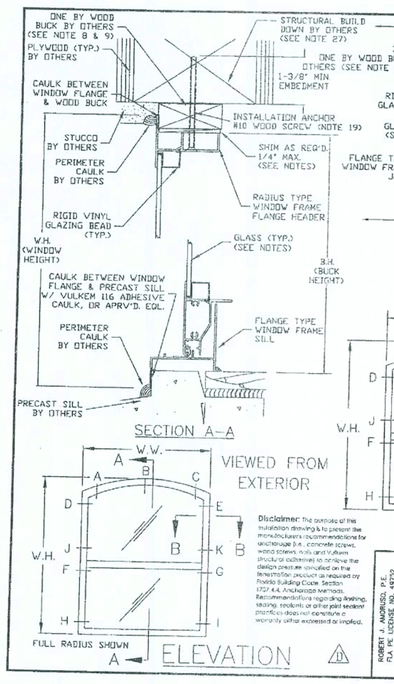
PLOT DATE: 04 DEC 2007

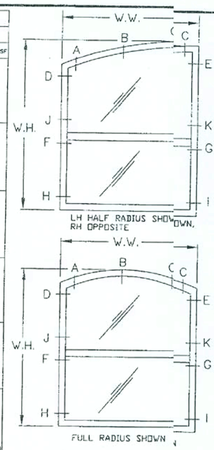
FLORIDA BUILDING CODE 2004 : RESIDENTIAL











Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, nails and Vulkem structural adhesive) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4. Anchorage Methods. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

IMPORTANT FORMATION & GENERAL NOTES

These notes are pided to ensure proper installation of Florida Extruders Milestone products and must followed fully.

GENERAL INSTALIION INSTRUCTIONS

1) SHIM AS REQ'DF EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIMACK TO BE 1/4".
2) USE SILICONIZACRYLIC CAULK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTHED TO THE SUBSTRATE WITH VULKEM 116 ADHESIVE CAULK OR APPROVED EQUALPPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL AT FRAME L MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATIO.
3) USE SILICONIZACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGED TO SEAL HEADS OF INSTALLATION FASTENERS.
4) FLORIDA EXTRURS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FRIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOW FRAMIATERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSTALLON INSTRUCTIONS

GENERAL:

6) NAIL ATTACHME OF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTEUSE A HARDENED "T-NAIL" WITH A 0.097" DIAMETER AND 1 3/8" LENGTH (5/8" EMBMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 1/2" LENGT/4" EMBEDMENT) OR EQUIVALENT. FOR ALTERNATE SECTION A-A/B-B, USE A 0.1 DIAMETER COMMON WIRE NAIL WITH A 3/4" EMBEDMENT OR EQUIVALENT FOR NING NON-STRUCTURAL ONE BY BUCK INTO A TWO BY STRUCTURAL BUCK
7) APPLIES TO ALL N-STRUCTURAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIO NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREATER THAN 1" NOMIMAL (3/4" TCK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUFFENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 6.
8) ALL INSTALLATIANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAV CORROSION RESISTANT COATING APPLIED SUITABLE FOR THE ENVIRONMENT ANDR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RBMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVIVE TREATMENT PROCESS USED.
9) ALL FIELD SUPPLI HOLES IN THE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
10) WOOD SCREWS ALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
11) IF WOOD TENDO SPLIT, PRE-BORE HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOL #10 WOOD SCREW - 9/64" DIA. PILOT HOLE (NATIONAL DESIGN SPECIFICATI FOR WOOD CONSTRUCTION).

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

ROBERT J. AMORUSO, P.E.
FLA PE LICENSE NO. 49752
JUL 29 2004

REV	DESCRIPTION	DATE	INI
D	REVISED ANCHOR LOCATION IN JAMB OF SIZE 37. NO CHANGE IN QUANTITY.	4/23/04	RJA
E	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA

FLOIDA EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITLE: INALLATION DETAIL
SGL. HU FLANGE WINDOWS - SERIES 1000, 1500 & 2000
DRAWN EBB
APPROVED BY: RJA
DATE: 7/9/04
SCALE: NTS
DWG.: FLEX0016, SHT 1 OF 2

CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD		LOCATIONS IN JAMB	
		30PSF TO 40PSF	41PSF TO 70PSF	30PSF TO 40PSF	41PSF TO 70PSF
12	18 1/8 X 25	B	B	F,G	F,G
13	18 1/8 X 37 3/8	B	B	F,G	F,G
14	18 1/8 X 49 5/8	B	B	F,G	F,G
145	18 1/8 X 55 1/4	B	B	F,G	F,G
15	18 1/8 X 62	B	B	F,G	F,G
16	18 1/8 X 71	B	B	F,G	F,G,H,I
17	18 1/8 X 83	B	B	F,G	F,G,J,K
1H2	25 1/2 X 25	B	B	F,G	F,G
1H3	25 1/2 X 37 3/8	B	B	F,G	F,G
1H4	25 1/2 X 49 5/8	B	B	F,G	F,G,H,I
1H45	25 1/2 X 55 1/4	B	B	F,G	F,G,H,I
1H5	25 1/2 X 62	B	B	F,G	F,G,H,I
1H6	25 1/2 X 71	B	B	F,G	F,G,H,I
1H7	25 1/2 X 83	B	B	F,G,J,K	F,G,J,K
30 1/2 X 26	29 1/2 X 25	B	B	F,G	F,G
30 1/2 X 38 3/8	29 1/2 X 37 3/8	B	B	F,G	F,G
30 1/2 X 50 5/8	29 1/2 X 49 5/8	B	B	F,G	F,G,H,I
30 1/2 X 56 1/4	29 1/2 X 55 1/4	B	B	F,G	F,G,H,I
30 1/2 X 63	29 1/2 X 62	B	B	F,G	F,G,H,I
30 1/2 X 72	29 1/2 X 71	B	B	F,G,H,I	F,G,H,I
30 1/2 X 84	29 1/2 X 83	B	B	F,G,J,K	F,G,J,K
22	36 x 25	B	B	F,G	F,G
23	36 x 37 3/8	B	B	F,G	F,G
24	36 x 49 5/8	B	B	F,G	F,G,H,I
245	36 x 55 1/4	B	B	F,G	F,G,H,I
25	36 x 62	B	B	F,G,H,I	F,G,H,I
26	36 x 71	B	B	F,G,H,I	D,E,F,G,H,I
27	36 x 83	B	B	F,G,J,K	F,G,H,I,J,K
42 x 26	41 x 25	B	B	F,G	F,G
42 x 38 3/8	41 x 37 3/8	B	B	F,G	F,G,H,I
42 x 50 5/8	41 x 49 5/8	B	B	F,G	F,G,H,I
42 x 56 1/4	41 x 55 1/4	B	B	F,G,H,I	F,G,H,I
42 x 63	41 x 62	B	B	F,G,H,I	D,E,F,G,H,I
42 x 72	41 x 71	B	B	F,G,H,I	D,E,F,G,H,I
42 x 84	41 x 83	B	B	F,G,J,K	F,G,H,I,J,K
48 x 26	47 x 25	B	A,C	F,G	F,G
48 x 38 3/8	47 x 37 3/8	B	A,C	F,G	F,G,H,I
48 x 50 5/8	47 x 49 5/8	B	A,C	F,G	F,G,H,I
48 x 56 1/4	47 x 55 1/4	B	A,C	F,G,H,I	F,G,H,I
48 x 63	47 x 62	B	A,C	F,G,H,I	D,E,F,G,H,I
48 x 72	47 x 71	B	A,C	F,G,H,I	D,E,F,G,H,I
48 x 84	47 x 83	B	A,C	F,G,J,K	D,E,F,G,H,I,J,K
32	52 1/8 X 25	B	A,C	F,G	F,G
33	52 1/8 X 37 3/8	B	A,C	F,G	F,G,H,I
34	52 1/8 X 49 5/8	B	A,C	F,G,H,I	F,G,H,I
345	52 1/8 X 55 1/4	B	A,C	F,G,H,I	D,E,F,G,H,I
35	52 1/8 X 62	B	A,C	F,G,H,I	D,E,F,G,H,I
36	52 1/8 X 71	B	A,C	F,G,H,I	D,E,F,G,H,I
* 37	52 1/8 X 83	B	A,C	F,G,J,K	D,E,F,G,H,I,J,K

TAPPER LOCATION CHART

* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES.

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

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

12) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A NON-STRUCTURAL ONE BY WOOD BUCK (NOTE 7), USE A 3/16" DIA. TAPPER CONCRETE SCREW OF SUFFICIENT LTH. TO ACHIEVE MIN. EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE.
13) SEE THIS SHEET FOR TAPPER INSTALLATION ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE TAPPER LOCATION CHART INDICATE WHERE TAPPER CONCRETE SCREWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY.
14) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (by ELCO TEXTRON INC.) OR TITEN (by SIMPSON STRONG-TIE) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW SIZES (1) 18 1/8 x 62 AND (2) 30 1/2 x 84:
   a) LIMIT TO 65 PSF, OR
   b) INSTALL ONE ADDITIONAL FASTENER IN EACH JAMB OVER CHART REQUIREMENTS AT LOCATIONS H AND I.
15) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR TAPPER CONCRETE SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

#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):

16) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTUAL TWO BY WOOD BUCK, USE #10 WOOD SCREWS (ANSI B18.6.1) OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK.
   16A) IF A TWO BY & ONE BY WOOD BUCK ARE USED (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 6 & 7.
17) #10 WOOD SCREWS SHALL BE INSTALLED AT ALL FACTORY APPLIED INSTALLATION FASTENER HOLE LOCATIONS.
18) WOOD SCREWS SHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

19) IF EXACT WINDOW SIZE IS NOT LISTED IN TAPPER ANCHOR CHART FOR NON-STRUCTURAL BUCK INSTALLATION, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
20) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR THE WINDOW SIZES SHOWN IN THE CHART. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
21) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
22) COMPLIES WITH FBC, CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS, 1707.4.4.2 FOR MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATES AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
23) 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 FBC, SECTION 1707.4.4.2 AND THE ENGINEER OF RECORD'S DETAILS.

REV
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FLORIDA EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE OF AUTHORIZATION NO 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITLE: INSTALLATION DETAIL
SGL. HUNG FLANGE WINDOWS - SERIES 1000, 1500 & 2000
DRAWN BY: RJA
APPROVED BY: RJA
DATE: 7/29/04
SCALE: NTS
DWG.: FLEX0016, SHT 2 OF 2

Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, nails and Vulkem structural adhesive) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4. Anchorage Methods. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

IMPORTANT INFORMATN & GENERAL NOTES

These notes are provided to ensure prr installation of Florida Extruders Milestone products and must be followed fully.

GENERAL INSTALLATION INSTRUCTIO

1) SHIM AS REQ'D. AT EACH INSTALLAN ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4".
2) USE SILICONIZED ACRYLIC CAULK BND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTACHED TO THE SUBSTRATE WITH VULKEM 116 AISIVE CAULK OR APPROVED EQUAL. APPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAT FRAME SILL MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.
3) USE SILICONIZED ACRYLIC CAULK FPERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGE AND TO SEAL HEADS OF INSTALLATION FASTENERS.
4) FLORIDA EXTRUDERS 1000 SERIES SLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SLE HUNGS.
5) WINDOW FRAME MATERIAL: ALUMII ALLOY 6063.
6) BUILD DOWN AROUND CURVED PORN OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFICIENT STRENGTH TOEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER FBC, SECTION 1707.4.4.
7) WINDOW UNIT CAN BE MULLED TO HER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REQUIREMTS.

ANCHOR INSTALLATION INSTRUCTION!

GENERAL:

8) NAIL ATTACHMENT OF NON-STRUCTIL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER. USE A HARDENED "T-NAIL" WITH A 0.097" DIATER AND 1 3/8" LENGTH (5/8" EMBEDMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 ' LENGTH (3/4" EMBEDMENT) OR EQUIVALENT FOR THE JAMBS. USE A 0.113" DIAMETER COMMON WIRE NAIL TH A 3/4" EMBEDMENT OR EQUIVALENT FOR THE HEAD.
9) APPLIES TO ALL NON-STRUCTURAL BKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GRER THAN 1" NOMIMAL (3/4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUCIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 8.
10) ALL INSTALLATION ANCHORS MUST MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING APPLIED SUITABLBR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVATIVEATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHORS COMPALE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
11) ALL FIELD SUPPLIED HOLES IN THE ME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
12) WOOD SCREWS SHALL MEET ANSI B.1 DIMENSIONAL REQUIREMENTS.
13) IF WOOD TENDS TO SPLIT, PRE-BOHOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOLE & #10 WOOD SCREW - 9/64" DIA. PILOT HOLE TIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION).

3/16" DIA. TAPPER CONCRETE SCREWITH NON-STRUCTURAL ONE BY WOOD BUCK):

15) WHERE WINDOW IS INSTALLED IN MNRY OPENING WITH A NON-STRUCTURAL ONE BY WOOD BUCK (NOTE 7), USE A 3/15" DIA. TAPPER CONCRETE EW OF SUFFICIENT LTH. TO ACHIEVE MIN. EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE.
16) SEE SHEET 2 FOR INSTALLATION ANCR LOCATION CHART. LETTER DESIGNATIONS ON THE LOCATION CHART INDICATE WHERE TAPPER CONCRETE SCVS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY.

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

ROBERT J. AMORUSO, P.E.
FLA PE LICENSE NO. 49752
JUL 29 2004

REV	DESCRIPTION	DATE	INI
C	REVISED NOTES 3, 8, 9 & 10. ADDED NOTE 27. REVISED AND/OR ADDED RELATED REFERENCES AND ILLUSTRATIONS FOR NOTE REVISIONS.	12/19/03	RJA
D	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA

FLORDA EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITLE: INSLLATION DETAIL SINGLE HUNG RADIUS HEAD
FLANGE VRAME BUILD DOWN - SERIES 1000, 1500 & 2000
DRAWN BYBH
APPROVED BY: RJA
DATE: 7/294
SCALE: NTS
DWG.: FLEX0040 SHEET 1 OF 2

CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD (see note 1 below)		LOCATIONS IN JAMB (see notes 2 & 3 below)	
		30PSF TO 40PSF	41PSF TO 70PSF	30PSF TO 40PSF	41PSF TO 70PSF
12	18 1/8 X 27 5/16	A,C	A,C	F,G	F,G
13	18 1/8 X 39 11/16	A,C	A,C	F,G	F,G
14	18 1/8 X 51 15/16	A,C	A,C	F,G	F,G
145	18 1/8 X 57 19/32	A,C	A,C	F,G	F,G (a)
15	18 1/8 X 64 5/16	A,C	A,C	F,G	F,G (a)
16	18 1/8 X 73 5/16	A,C	A,C	F,G (a)	F,G,H,I
1H2	25 1/2 X 28 9/16	A,C	A,C	F,G	F,G
1H3	25 1/2 X 40 15/16	A,C	A,C	F,G	F,G
1H4	25 1/2 X 53 3/16	A,C	A,C	F,G	F,G,H,I
1H45	25 1/2 X 58 13/16	A,C	A,C	F,G	F,G,H,I
1H5	25 1/2 X 65 9/16	A,C	A,C	F,G	F,G,H,I
1H6	25 1/2 X 74 9/16	A,C	A,C	F,G	F,G,H,I
30 1/2 X 30 7/32	29 1/2 X 29 7/32	A,C	A,C	F,G	F,G
30 1/2 X 42 19/32	29 1/2 X 41 19/32	A,C	A,C	F,G	F,G
30 1/2 X 54 27/32	29 1/2 X 53 27/32	A,C	A,C	F,G	F,G,H,I
30 1/2 X 60 15/32	29 1/2 X 59 15/32	A,C	A,C	F,G	F,G,H,I
30 1/2 X 67 7/32	29 1/2 X 66 7/32	A,C	A,C	F,G (a)	F,G,H,I
30 1/2 X 76 7/32	29 1/2 X 75 7/32	A,C	A,C	F,G,H,I	F,G,H,I (b)
22	36 x 30 5/16	A,B,C	A,B,C	F,G	F,G
23	36 x 42 11/16	A,B,C	A,B,C	F,G	F,G (a)
24	36 x 54 15/16	A,B,C	A,B,C	F,G	F,G,H,I
245	36 x 60 9/16	A,B,C	A,B,C	F,G (a)	F,G,H,I
25	36 x 67 5/16	A,B,C	A,B,C	F,G,H,I	F,G,H,I (b)
26	36 x 76 5/16	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
42 x 32 5/32	41 x 31 5/32	A,B,C	A,B,C	F,G	F,G
42 x 44 17/32	41 x 43 17/32	A,B,C	A,B,C	F,G	F,G,H,I
42 x 56 25/32	41 x 55 25/32	A,B,C	A,B,C	F,G	F,G,H,I
42 x 62 3/8	41 x 61 3/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I
42 x 69 5/32	41 x 68 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
42 x 78 5/32	41 x 77 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
48 x 33 5/32	47 x 32 5/32	A,B,C	A,B,C	F,G	F,G
48 x 45 17/32	47 x 44 17/32	A,B,C	A,B,C	F,G	F,G,H,I
48 x 57 25/32	47 x 56 25/32	A,B,C	A,B,C	F,G (a)	F,G,H,I
48 x 63 3/8	47 x 62 3/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I (b)
48 x 70 5/32	47 x 69 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
48 x 79 5/32	47 x 78 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I (c)
32	52 1/8 X 33	A,B,C	A,B,C	F,G	F,G
33	52 1/8 X 45 3/8	A,B,C	A,B,C	F,G	F,G,H,I
34	52 1/8 X 57 5/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I
345	52 1/8 X 63 1/4	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
35	52 1/8 X 70	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
36	52 1/8 X 79	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I (c)

ANCHOR LOCATION CHART (SEE NOTES BELOW)

ANCHOR LOCATION CHART NOTES:

1. Locations in HEAD for #10 Wood Screws into structural "two by" wood buck or "one by" wood buck/structural build-down.
2. Locations in JAMB for 3/16" TAPPER Concrete Screws into non-structural buck & concrete or masonry.
3. Locations in JAMB for #10 Wood Screws into structural "two by" buck. Where indicated by (a), (b) or (c) above, additional #10 Wood Screws shall be added at the following locations.
   (a) One additional anchor required in each jamb at locations "H" and "I".
   (b) One additional anchor required in each jamb at locations "D" and "E".
   (c) One additional anchor required in each jamb at locations "J" and "K".
4. Dimensions given are for half radius head units, full radius will be shorter.

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

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

17) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (by ELCO TEXTRON INC.) OR TITEN (by SIMPSON STRONG-TIE) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW CALL SIZE 15:
   a) LIMIT TO 65 PSF, OR
   b) INSTALL ONE ADDITIONAL FASTENER IN EACH JAMB OVER CHART REQUIREMENTS AT LOCATIONS H AND I.
18) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR TAPPER CONCRETE SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK OR ONE BY WOOD BUCK/STRUCTURAL BUILD-DOWN):

19) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTUAL TWO BY WOOD BUCK OR ONE BY WOOD BUCK/STRUCTURAL BUILD-DOWN, USE #10 WOOD SCREWS (ANSI B18.6.1) OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK OR THE STRUCTURAL BUILD-DOWN FRAMING COMPONENT.
20) SEE SHEET 2 FOR INSTALLATION ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE LOCATION CHART INDICATE WHERE #10 WOOD SCREWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY. ALSO SEE "ANCHOR LOCATION CHART NOTES", NOTE 3, FOR WINDOW SIZES REQUIRING ADDITIONAL ANCHORS AND LOCATIONS.
21) #10 WOOD SCREWS SHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.
22) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR #10 WOOD SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

23) IF EXACT WINDOW SIZE IS NOT LISTED IN ANCHOR LOCATION CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
24) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR THE WINDOW SIZES SHOWN IN THE CHART. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
25) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
26) COMPLIES WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS, 1707.4.4.2 FOR MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATES AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
27) STRUCTURAL BUILD-DOWN AT THE HEAD TO BE DESIGN TO TRANSFER THE LOAD TO THE MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE PER FBC, SECTION 1707.4.4.2 OR TO THE WOOD OR APPROVED FRAMING MEMBERS PER FBC, SECTION 1707.4.4.3AND THE ENGINEER OF RECORD'S DETAILS.

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FLORIDA EXTRUDERS INTERNATIONAL, INC
CERTIFICATE OF AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITLE: INSTALLATION DETAIL SINGLE HUNG RADIUS HEAD
FLANGE W/FRAME BUILD DOWN - SERIES 1000, 1500 & 2000
DRAWN BY: RJA
APPROVED BY: RJA
DATE: 7/29/04
SCALE: NTS
DWG.: FLEX0040 SHEET 2 OF 2

REVISIONS :

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Maronda Homes

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

FLORIDA EXTRUDERS
WINDOWS IN BLOCK

RELEASE DATE:

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

SHEET:
1 of 3

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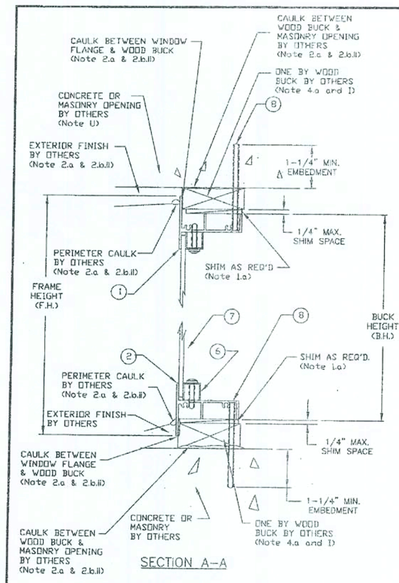
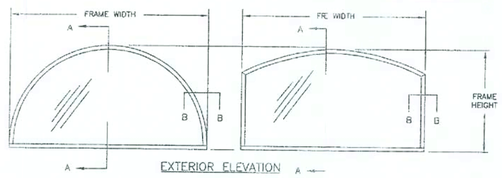
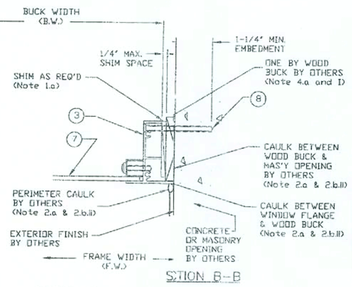


SECTION A–A



EXTERIOR ELEVATION



SECTION B–B

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 1750 and 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 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

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

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

(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and 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
5 Not Used
6 Glazing Bead - Rigid Vinyl
7 Glazing - See Note (B) and (C)
8 3/16" Dia. Flat Head Concrete Sc with minimum working load in shear of 55 lbs at 1 1/4" embedment. See Note (J) on drawing and Note 7 on Drawing FLEX201
9 #10 Wood or Tapping Screw with minimum embedment of 1-3/8" into "Structi Two By Buck or Framing". See Note (L) on drawing and Note 8 on Drawing FLEX201

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3800 - 407-323-3507 (fax)
www.flex-electronics.com
Florida COA No. 9235

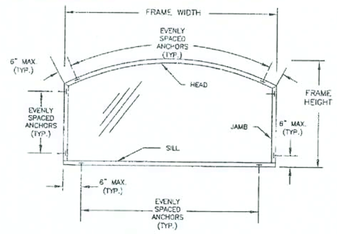
TITLE: Milestone Series 1000, 1750 and 2000 Non Impact Resistant Aluminum Flange Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Header

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0105

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

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

Drawing No. FLEX28110
Sheet 1 of 2



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 24" O.C. SPACING BETWEEN ANCHORS AND SPACED 6" MAXIMUM FROM CORNERS.

– or –

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

USE #10 WOOD SCREWS AT 12" O.C. SPACING BETWEEN FASTENERS AND SPACED 6" MAXIMUM FROM CORNERS. (NOTE: 12" SPACING FOR EXAMPLE EYEBROW APPLICATION. OTHER APPLICATIONS MAY REQUIRE 10" SPACING PER NOTE (P))

FASTENER INSTALLATION INSTRUC UCTIONS - FLEX28110

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

(I) Nail attachment of non-structural on one by buck per Note 4.a.ii.2 Drawing FLEX20100.
(J) Where window is installed in an open 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.
(K) Fastener spacing shall be per Notes (s (O), (Q) and (R) 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):

(L) Where window is installed in an open 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.
(M) Wood screws shall not be used to fa fasten assembly into the end grain of wood.
(N) Fastener spacing shall be per Notes (s (P), (Q) and (R) below.

FASTENER SPACING (See Elevation V n View on this Sheet):

(O) Concrete screw spacing shall be as f s follows:
- 6" maximum from each corner of of head, sill or jambs, and
- evenly spaced between corner an anchors but not exceeding 24" o.c. spacing in head, sill or jambs.

(P) #10 wood screw spacing shall be as s as follows:
- 6" maximum from each corner of of head, sill or jambs, and
- evenly spaced between corner an 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 ; embold
  - o full-circle
  - o half-circle
  - o triangle
  - o trapezoid
  - o oval
- evenly spaced between corner an anchors but not exceeding 10" o.c. spacing in head, sill or jambs for the following configurations:
  - o quarter-circle
  - o quarter-circle arch
  - o half-fan

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

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

DESIGN PRESSURE RATING & FBC CO CODE COMPLIANCE

(S) Installations depicted in these instructi ctions acceptable for design pressures to 70 PSF. Design Pressures (D.P.) are positive and negative. Overall window w assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in a n accordance with Note 13 of FLEX20100.
(T) Production Glazing may differ from tha that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See No Note 12 and 13 on Drawing FLEX 20100 for further details.
(U) Concrete Header at head and/or two b by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the masonr onry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(V) See FLEX20100, Notes 10 to 15 for adc additional FBC Code Compliance.

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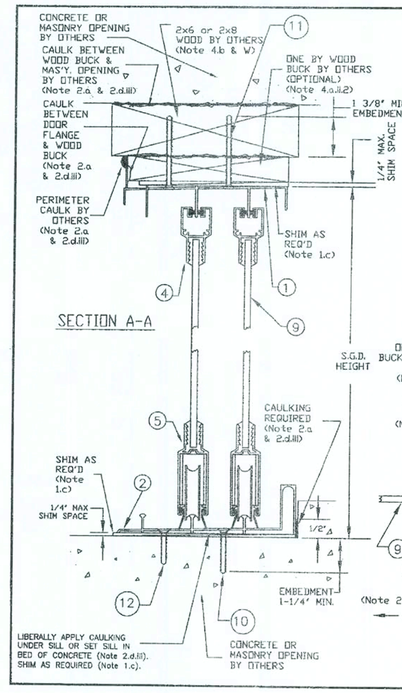
Florida COA No. 9235

TITLE: Milestone Series 1000, 1750 and 2000 Non Impact Resistant Aluminum Flange Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Header

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0105

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

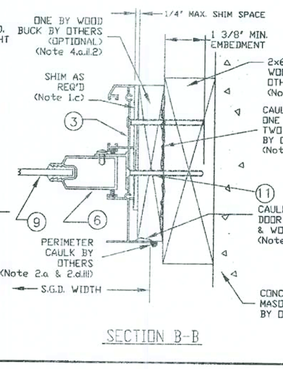
Drawing No. FLEX28110
Sheet 2 of 2



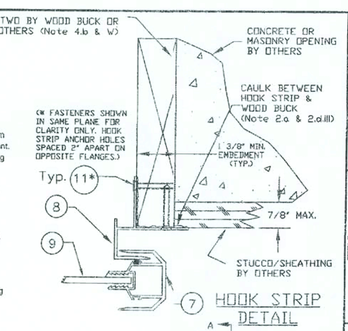
SECTION A–A

PARTS LIST

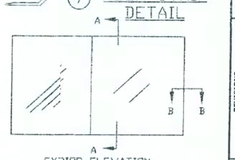
1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Head - Panel
5 Sill - Panel
6 Lock Stile - Panel
7 Interlock - Panel
8 Hook Strip
9 Glazing - See Note (B) and (V)
10 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 255 lbs at 1 1/4" embedment. See Note (K) on this drawing and Note 7 on Drawing FLEX20100.
11 #10 Wood or Tapping Screw with a minimum embedment of 1-3/8" into two by framing. See Note (P) on this drawing and Note 8 on Drawing FLEX20100.
12 #10 Wood or Tapping Screw with Plastic Inserts (Note 8.) on FLEX20100) at a minimum embedment of 1" into the concrete sill. See Note (O) on this drawing and Note 8 on Drawing FLEX20100.
13 #10 Wood or Tapping Screw with a minimum embedment of 7/8" into the "One By Wood Buck". See Note (R) on this drawing and Note 8 on Drawing FLEX20100.



SECTION B–B



HOOK STRIP DETAIL



EXTERIOR ELEVATION
2 REL DOOR SHOWN
(SEE NTES (C), (D) & (E))

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, tapping screws, nails and Vulkem Structural Adhesive (or other approved equal) as applicable) to achieve the design pressures specified on the fenestration product as required by the 2003 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.8. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

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TITLE: Milestone Series 1000, 1750 and 2000 Non Impact Resistant Aluminum Flange Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Header

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0105

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
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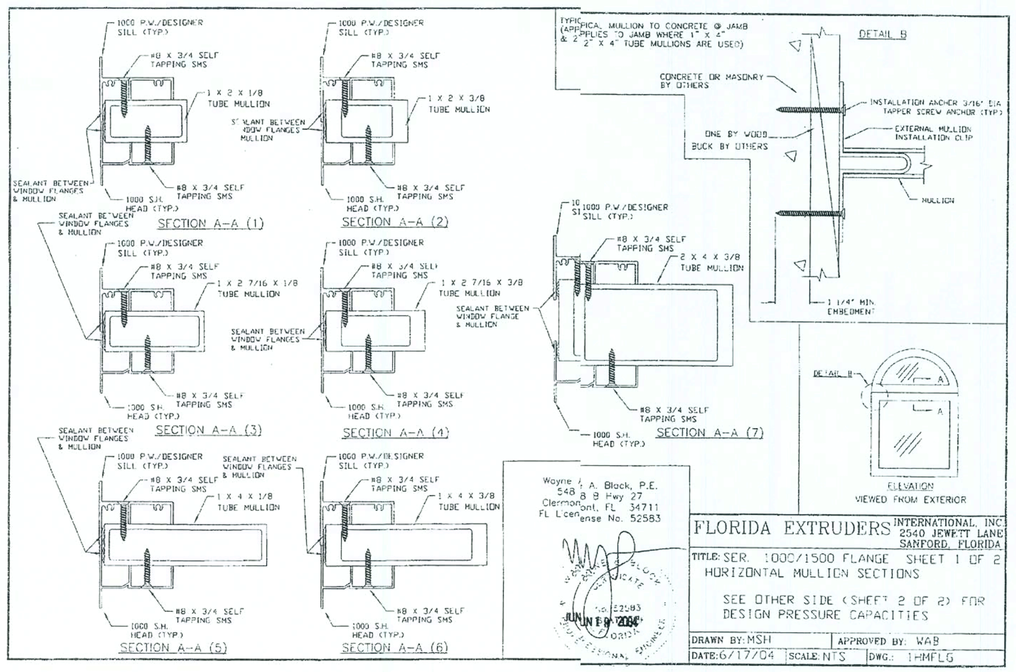
Drawing No. FLEX24112
Sheet 1 of 2



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FLORIDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA

TITLE: SER. 1000/1500 FLANGE SHEET 1 OF 2
HORIZONTAL MULLION SECTIONS

SEE OTHER SIDE (SHEET 2 OF 2) FOR DESIGN PRESSURE CAPACITIES

DRAWN BY: MSH	APPROVED BY: WAB
DATE: 6/17/04	SCALE: NTS	DWG.: 1HMFLG

REVISIONS :

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FLORIDA
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WINDOWS IN BLOCK
RELEASE DATE:

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER
13 MAR 2006

SHEET:
2 of 3

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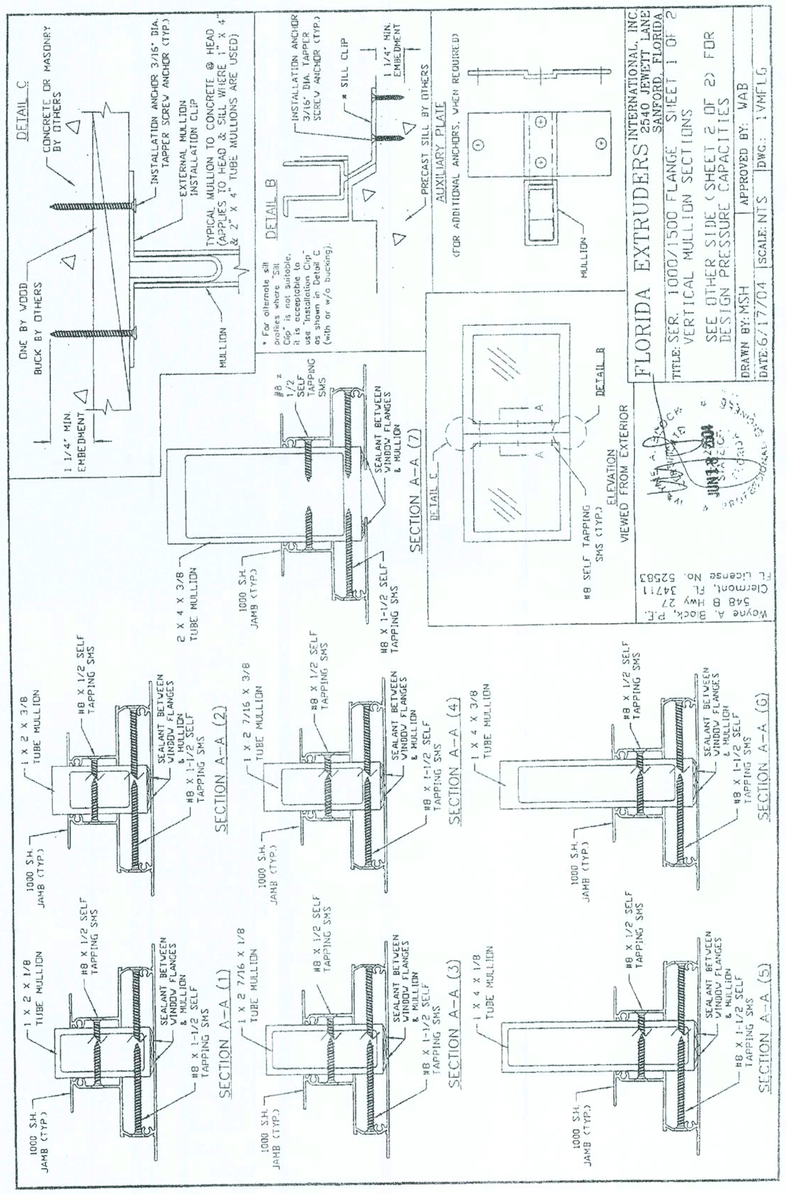

General Notes Drawing for Milestone Series 1000, 1500, 2000 and 3000 Non-Impact Resistant Aluminum Window and Patio Sliding Glass Door Installation Details

These notes are provided to ensure proper installation of Florida Extruders Milestone Non-Impact Resistant Aluminum Fenestration Products and must be followed fully. This General Notes drawing shall be used in tandem with the product specific installation drawing.

A) General Assembly Installation Instructions

1) SHIMMING:

a. FLANGE FRAME WINDOWS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4".
b. FIN FRAME WINDOWS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4". Apply a bead of Vulkem 116 adhesive sealant or approved equal at the fastener location prior to inserting the shim to adhere the shim to the substrate and/or window frame. Full bearing between the shim, substrate and window frame are required.
   i. In the case where the nailing option is employed with finned windows, shims can be limited to the local on spacing where wood screws are required. It is not mandatory that the shim be coincident with the nail.
c. SLIDING GLASS DOORS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4". Load bearing shim at sill must be pressure treated wood or plastic and must be completely encapsulated in sealant or set in wet concrete.

2) SEALING BETWEEN FENESTRATION PRODUCT AND SUBSTRATE & SSD SEAM SEALANT (See Disclaimer Statement above)

a. GENERAL - SEALANT TYPE (not applicable when a specific brand or type is required)
   i. Sealant type shall be chosen based on the sealant manufacturer's recommendation as it relates to materials to be sealed, environmental conditions and intended use.
b. WINDOWS - FLANGE FRAME
   i. Adhesive Seal - REQUIRED
      1. Use Vulkem 116 adhesive sealant or approved equal between window's integral mounting fin and pre-cast concrete sill (or other sill construction) along full length of sill.
      2. Application of Vulkem 116 adhesive sealant or approved equal must comply with sealant manufacturer's recommendations.
   ii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind window flange at head and jambs.
      2. Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.
c. WINDOWS - FIN FRAME
   i. Adhesive Seal - NOT REQUIRED
   ii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind window flange at head, sill and jambs.
      2. Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.
d. SLIDING GLASS DOORS
   i. Adhesive Seal - NOT REQUIRED
   ii. Mechanically Fastened Corners - REQUIRED
      1. Sliding Glass Doors received in "Knocked-Down/ed" condition shall have jamb and sill corners sealed with a small joint seam sealant.
   iii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind door flange at head & jambs and behind hook strip.
      2. Liberally apply sealant under sill or set sill in bed of wet concrete. Seal between back corner of sill riser and concrete. Seal all fastener holes prior to installing fasteners and around head after installation.
      3. Use sealant for perimeter seal around exterior of door and between hook strip & buck for pocket doors and to seal heads of installation fasteners.

3) MATERIALS:

a. Window and sliding glass door frame material is Aluminum Alloy 6063 T6.
b. Concrete Screws shall meet the minimum requirements of Note 7.
c. Wood Screws shall meet the requirements of Note 8.
d. Tapping (i.e., Sheet Metal) Screws when used in lieu of Wood screws shall meet the requirements of Note 8.
e. Nails shall meet the requirements of Note 9.
f. Corrosive Resistance Coatings for installation fasteners shall meet the requirements of Note 5.
g. Concrete block or concrete masonry units (CMU) shall meet the requirements of ASTM C90.
h. Concrete shall meet the minimum requirements of the Florida Building Code (minimum compressive strength of 2500 psi).

4) BUCKING

a. One by (1X) wood bucking
   i. Applies to all non-structural bucks less than 1 1/2" thickness. Not intended to bend to nominal one by wood buck only.
   ii. One by wood bucking shall be secured to the substrate (masonry, concrete or structural wood bucking or framing using fasteners suitable for the application.
      1. If the product specific installation drawing does prescribe fastening requirements for the bucking, they shall be followed.
      2. If the product specific installation drawing does not prescribe fastening requirements for the bucking, fastening must only be sufficient to maintain position of the bucking during window installation.
         a. Installer, builder or design professional of record may specify method to secure one by wood bucking to substrate in order to facilitate window installation.
b. Two by (2x) wood bucking or framing:
   i. Applies to all structural wood bucks and/or framing at the head, jamb or sill equal to and greater than 1 1/2" thickness.
   ii. They shall be securely fastened to transfer the load to the masonry, concrete or other structural substrate per 2001 FBC, Section 1707.4.4, 2004 FBC-Building, Section 1717.5.4 and 2004 FBC-Residential, Section R613.6 and/or the engineer of record's details as applicable.

5) General Fastener Installation Instructions

5) All installation fasteners must be made of corrosion resistant materials or have a corrosion resistant coating applied suitable for the environment and/or framing material. When these fasteners are used in pressure-preservative treated wood, the wood supplier shall be consulted for recommendation of fasteners compatible with the pressure-preservative treatment process used.

6) All field supplied holes in the frame (if required) will be as follows.
a. 5/32" diameter for all #6 wood or tapping screws.
b. 3/16" in diameter for all #10 wood or tapping screws and 3/16" diameter or concrete screws.
c. No. 29 size drill bit for 0.131" shank diameter nails.
d. No. 33 size drill bit for 0.113" shank diameter nails.

7) Concrete Screws (For attachment to masonry or concrete substrate.)

a. Shall be "Flat" head unless otherwise indicated.
b. Shall have a minimum nominal diameter of 3/16" unless otherwise noted.
c. Shall have a minimum embedment of 1 3/4" into the concrete, masonry or concrete block or masonry unit (CMU) receiving the point unless otherwise noted.
d. Shall have an allowable working load in shear as noted on the "Parts List" or on the product specific installation drawing.
   i. Working load is defined as the ultimate load determined by test divided by 4 as determined and published by the concrete screw's manufacturer.
   ii. If the allowable shear load exceeds the above minimum, required number of fasteners shown on the installation drawings CANNOT be decreased.
   iii. If the allowable shear load is less than the above minimum, additional engineering analysis meeting the building code and acceptable to the Authority Having Jurisdiction (AHJ) WILL BE required.
e. Concrete screws shall be of sufficient length so that the minimum embedment into the receiving substrate (member receiving the point) is met.
f. Minimum Edge Distance of concrete screw fasteners shall be 2 3/4" from the edge of the substrate for a 3/16" diameter concrete screw.

DISCLAIMER

The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage [i.e., concrete screws, wood screws, tapping screws, nails and Vulkem Structural Adhesive (or other approved equal)] 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.

NOTE ON PE SEALING

Original drawings with two sheets (pages) are reproduced on one sheet front and back. When reproduced this way, they are sealed on the first (front) sheet only. In response to Robert Amoruso's inquiry to the Florida Board of Professional Engineers, the FBPE at their meeting on June 20, 2002 responded that in such circumstances, it is acceptable for the sealing PE to only sign, date and seal the front sheet of the drawing when printed on the front and back. This was documented by letter to Robert Amoruso dated July 31, 2002 from the Office of the Attorney General, State of Florida.

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Florida COA No. 9235

TITLE: General Notes Drawing for Milestone Series 1000, 1500, 2000 & 3000 Non-Impact Resistant Aluminum Windows & Patio Sliding Glass Doors Installation Details

REVISIONS			
No.	Date	By	Description
0	6/6/05	RJA	Original Issue.
1	9/20/05	RJA	Editorial Changes.
2	12/27/05	RJA	Revised Notes 1.k, 4.a.2
3	11/14/06	RJA	Revised Notes 1.k, 4.a.2, 6, 9, 11, 12, 13 & 15.

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

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

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

Drawing No. FLEX20100
Sheet 1 of 2

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 7/3/96	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	26 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	86 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.

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3301 - 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 Sill 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

Drawing No. FLEX22110
Sheet 2 of 2

REVISIONS :

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

FLORIDA EXTRUDERS
WINDOWS IN BLOCK

RELEASE DATE: 31 MAR 2006

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

SHEET: 3 of 3

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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 you product supplier if you do not know the product approval number for any of the applicable list products. Information regarding statewide product approval may be obtained at: www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc.	Fiberglass Doors	Evaluated for use in locatio adhering to the Florida Buing Code and hwere pressure requirements as determined ACSE 7 Minimum Design Lds For Building and Other Strtures.	FL 6729.1 FL 6729.5	+ 50 / -50 + 50 / -50
2. Sliding	Simonton/Norandex Florida Extruders	Sliding Glass Doors	500 72X80 SGD-Ri Milestone 1000 SGD	FL 5979.1 FL 45.1	+ 50 / -50 +45 / -45
3. Sectional					
4. Roll up	Wayne Dalton	Garage Doors 130 16' 9100 / 5120 8' Garage Doors 140 16' 9100 / 5120 8'	As indicated in evalution report and installatior drawings. Not to be used in HVHZ.	FL 5287.1 Fl 5287.3 FL 9174.4 FL 9174.5	+26.9 /-30.8 +25.9 /-28.8 +43.2 /-49.6 +39.2 /-43.7
B. WINDOWS					
1. Single Hung	H-R Windows Danvid Window Co Florida Extruders	300 Fin Single Hung 341 Flange Frame S.H. Milestine 1000 S.H.	40-17 72x74 H-r4.	FL5089.1 FL 2752.1 FL 42.1	+45 / -45 +55 / -55 +45 / -45
2. Horizontal Slider					
3. Casement					
4. Double hung					
5. Fixed	H-R Windows Danvid Window Co Florida Extruders	300Fin Frame Fixed34 Flange Frame Fixed Milestone 1000 Fixed	437.438 111X63 F-C6C3/16 Tempered Glas Flange & Fin	FL 1291.2 FL 2349.1 FL 44.1	+55 / -55 +70 / -70 +45 / -45
6. Awning					
7. Pass-through					
8. Projected					
9. Mullion	H-R Windows Florida Extruders	Mullions Milestone Tube Mull Fin Or Flange	Evaluated for use in locatio adhering to the Florida Buing Code and where pressure requirements as determined ACSE 7 Minimum Design Lds for Building and Other Strures.	FL 5782 FL 3136-R2	+45 / -45
10. Wind breaker					
11. Dual action					
12. Other					
C. PANEL WALL					
1. Siding	Owen Corning	Norandex - Summit Manor Dbl 4.5 Butch Lap Reynolds - Easy Street Dbl 4.5 Dutch Lap	This Evaluation is not f use within the FBC HVI or on Education Facilities Ithin the State of Florida. Vin Siding is limited to Typ V construction, as defined elow. Section 602.5- TYPE V CONSTRUCTION Type V construction is the ty of construction in which th structural elements, exterr walls and interior walls are of ant material permied by this code. Compliance valid only if the subject profile trade nce is current on the VSI Vinyl ding Certification Program.	FL 920.3 FL 920.7	+NA / -152 +NA / -152
2. Soffit	Alsco Metal Corp	16" Vented Soffit Quad 4 Aluminum Soffit	For use as soffit only. it for use in HVHZ	FL 4459.1	46.71 PSF

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State#	Design Pressures
D. ROOFING PRODUCTS					
1. Asphalt shingles	Owens Corning	Asphalt Shingle Ridge Vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed	FL 3663 FL 234	
2. Underlayments					
3. Roofing fasteners					
4. Nonstructural metal roof					
5. Built- up roofing					
6. Modified bitumen	Polyglass	Two layer torch down	The max design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC chapter 16.	FL 1654.8 FL 1654.9	
7. Single ply roofing					
8. Roofing tiles					
9. Roofing insulation					
10. Waterproofing					
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 Stamco Inc. Lamanco	Galvanized metal roof vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 5289.1 FL 8103.1 FL 3792.5	
E. SHUTTERS					
1. Storm Panels	Atrium Shutters, Inc. K&D Manufacturing All American Shutters, Inc.	5L Panel Galv. Stl Storm	This product may only be installed on concrete, hollow concrete block or wood substrates. This product is NOT suitable for installation in the High Velocity Hurricane Zone.	FL 5547.1 FL 2773.1 FL 393.1	50 PSF +47 / -50
F. STRUCTURAL COMPONENTS					
1. Wood connector/anchor	United Steel Products	Anchors, Hangers Etc. Structural Components Wood Connectors	Subject to limitation and Installation Instructions specified in NOA 05-0105.05	FL.R1,565, 569,572, 576,815,816, 817,818,819, 820,821, 822,859, 1247,1777, 2033,2620, 3923,4928, 5631,6223	
2. Truss plates	Mitek Industries Inc	Truss Connectors	No Limitation of Use.	FL 2197 R1	
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					
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 reponsibility to have a legible copy of each manufacturer's printed instructions, along with the list above, on the job site available to the inspector.

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

_____

_____

_____

_____

_____

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

Company Name:_____

Mailing Address:_____

_____

City:_____ State:_____ Zip Code:_____

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

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

REVISIONS :
10-29-07 UPDATE LISTS
01-21-08 UPDATE ROLL UP DOORS

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

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

PRODUCT APPROVAL

GARAGE:

DRAWN BY:

RELEASE DATE:

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR
FIELD COPY
CODE COMPLIANCE
PLANS EXAMINER

SHEET:

PLOT DATE: 21 JAN 2008

08:3:13

pvf\prod_approval.dgn

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

DISTINCTION SERIES
SMC INSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME

GENERAL NOTES

1. THE FOLLOWING PRODUCT HAS BEEN EVALUATED FOR COMPLIANCE WITH THE WIND LOADS SPECIFIED IN SECTION 120 OF THE TEXAS DEPARTMENT OF INSURANCE WINDSTORM RESISTANT CONSTRUCTION GUIDE AND SECTION 103 OF THE TEXAS WINDSTORM INSURANCE ASSOCIATION BUILDING CODE FOR WINDSTORM RESISTANT CONSTRUCTION.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. PRODUCT DOES NOT MEET IMPACT RESISTANCE
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
   - FOR 8' 8" HIGH DOORS: SEE TABLE 1.
   - FOR FRAMES OVER 6' 8" UP TO 8' 0": SEE TABLE 2.

DISTINCTION SMC FIBERGLASS DOOR

DOOR LEAF CONSTRUCTION:

FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.060" THICK FIBERGLASS SKIN.

CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.

CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS. THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN GLUED TO THE WOOD BLOCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.

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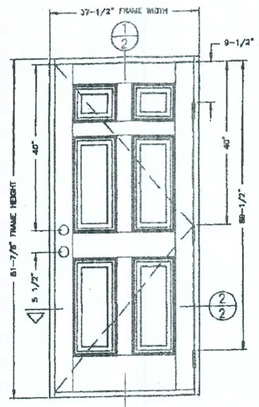
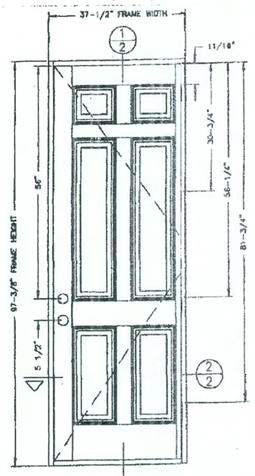


TYPICAL ELEVATION 6'-8" DOOR



TYPICAL ELEVATION 8'-0" OR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	NOT APPROVED	+80 PSF
NEGATIVE	NOT APPROVED	-80 PSF

DESIGN PRESSURE RATING (TABLE #2)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	NOT APPROVED	- PSF
NEGATIVE	NOT APPROVED	- PSF

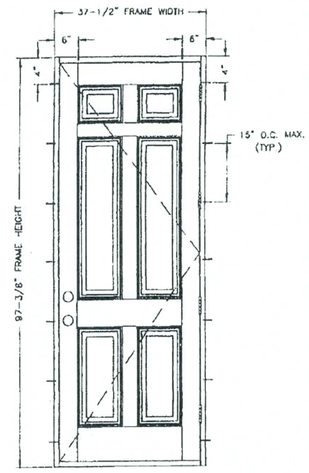
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

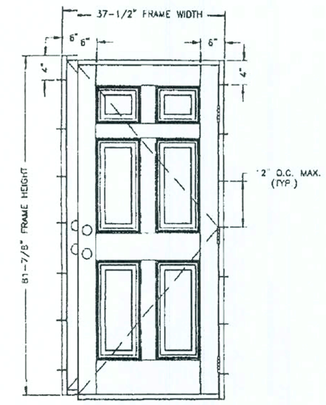
REVISIONS: NO. DATE BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 1 OF 4



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS
1.) INTO 2BY WOOD BUCKS ON WOOD STRUCTURE #8 PFH Wd. Screw, 1" MIN. EMBEDMENT
2.) INTO 1BY WOOD BUCKS OR INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

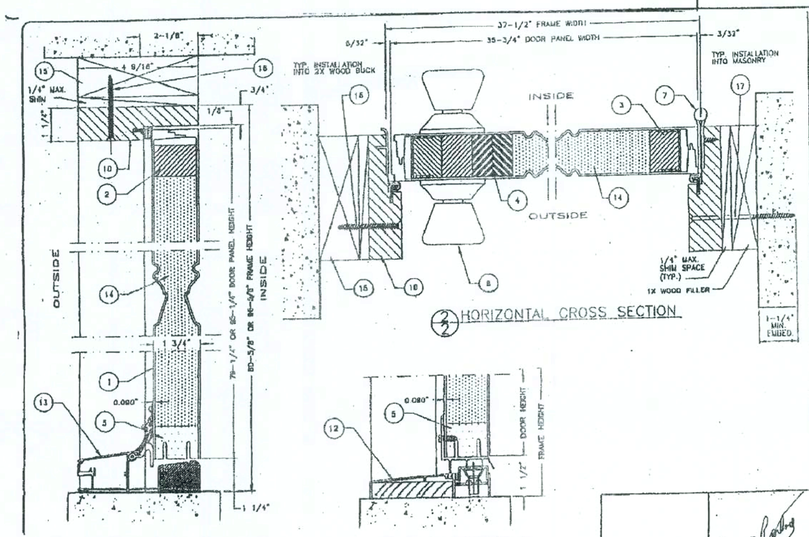
PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: ANCHORING LAYOUT

REVISIONS: NO. DATE BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 3 OF 4

REVISIONS:



1/2 VERTICAL CROSS SECTION

3/2 HORIZONTAL CROSS SECTION

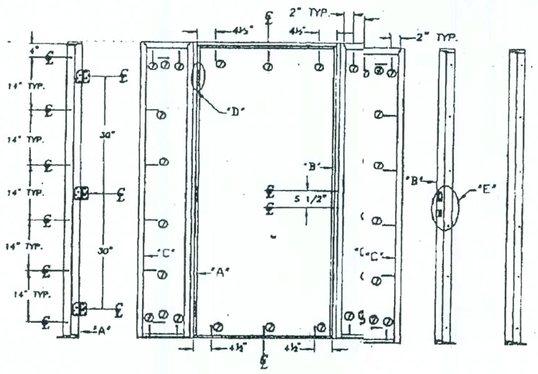
1/2 OPTIONAL THRESHOLD

NOTE:
WHEN REQ. THE USE OF 2X SHALL BE ALLOWED USING (4) EVENLY SPACED 1/4" X 3" TAPCONS IN THE SIDES, AND (2) EVENLY SPACED 1/4" X 3" TAPCONS IN THE HEADER ALL W/ 1 1/4" IMBEDMENT. IF NEEDED A 1X CAN BE NAILED 6" O.C. STAGGERED TO 2X. DOOR IS THEN ATTACHED PER DETAILS ON THIS PAGE.

FINAL ANCHORING OF A WOOD FRAME UP TO 5'4 x 6'8
SINGLE INSWING UNIT W/WO SIDELITES
PRODUCT ACCEPTANCE No.: DSI222

SCREW SCHEDULE

1	#10 X 5/8"	PHILLIPS FLAT HEAD
2	#10 X 1 3/4"	PHILLIPS FLAT HEAD
3	#10 X 2"	PHILLIPS FLAT HEAD
4	#10 X 3"	PHILLIPS FLAT HEAD



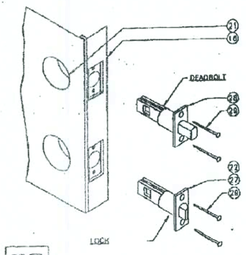
Product Acceptance No: DSI-222

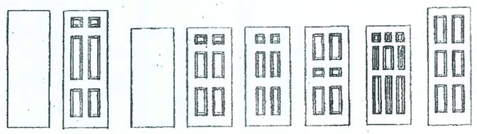
Size: up to 5'4 x 6'8 — Configuration: X, OXO, XO, OX

	Inswing (wood jamb) 2'0	2'4	2'6	2'8	3'0
Single Opaque W/Sidelites	+80 -80	+80 -80	+80 -80	+80 -80	+80 -80
Single Glazed W/Sidelites (Door does not meet Missile Impact)	+75 -80	+64 -77	+60 -71	+60 -60	+60 -60
				+56 -67	+50 -60
				+50 -60	+50 -60

Test # 210-1987, 210-2024 — Mfg. by: Nan Ya Plastics / Plastpro Livingston, NJ 07039

ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (8 PANEL 8'-0")	SKS 82	SMC .060" THK FIBERGLASS
	DOOR SKIN (8 PANEL 6'-8")	SKS 68	SMC .060" THK FIBERGLASS
2	TOP RAIL (6'-8")	WCA 20	WOOD (MAHOGANY)
	TOP RAIL (8'-0")	WCA 30	WOOD (MAHOGANY)
3	HINGE STILE	WCA 30	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
4	LOCK STILE	WCA 30 (TWO PCS.)	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
5	BOTTOM RAIL	WCA 20 (TWO PCS.)	WOOD (MAHOGANY)
		FCS 71	FOAM PVC EXTRUSION
		MAS 01	PVC
6	DOOR BOTTOM (INSWING)	DC 280 (ENDURA)	PVC CO-EXTRUSION
		BENCHMARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC
7	BUTT HINGE	4 X 4	BRASS
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	FINGER JOINTED WHITE PINE
12	THRESHOLD (INSWING)	DOS 830 (OPTIONAL)	SCHEDULE 40 PVC
		DOS 830 (OPTIONAL)	ALUMINUM / WOOD
13	THRESHOLD (INSWING)	DOS 830	SCHEDULE 40 PVC
		DOS 830	ALUMINUM / PVC
14	FOAM CORE		2LB/FT DENSITY FOAM CORE
15	2X		WOOD BLOCK
16	ANCHOR	#8X2-1/2" PFH Wd. Screw	STEEL
17	ANCHOR	3/16" X FH TAPCON	STEEL





DOOR MODELS

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY:

REVISIONS:

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 4 OF 4

REVISIONS:

REVISIONS:

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

EXT. DOOR DETAILS
IN SWING-FIBERGLASS

RELEASE DATE:

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR FIELD COPY CODE COMPLIANCE
PLANS EXAMINER

03 JUN 2003

SHEET:
FD1

DISTINCTION SERIES

SMC OUTSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS NOT REQUIRED
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
   - FOR 6' 8" HIGH DOORS: SEE TABLE 1.
   - FOR FRAMES OVER 6' 8" UP TO 8' 0": SEE TABLE 2.

DISTINCTION SMC FIBERGLASS DOOR

DOOR LEAF CONSTRUCTION:

FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.090" THICK FIBERGLASS SKIN.

CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.

CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS.THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN GLUED TO THE WOOD BLOCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.

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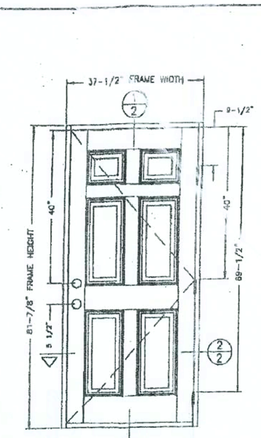
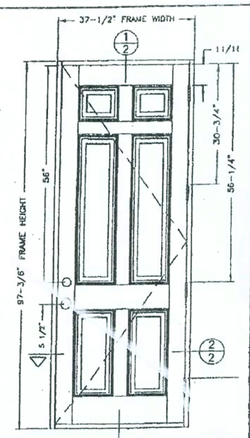
SHEET #	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS
2	CROSS SECTIONS (VERTICAL AND HORIZONTAL)
3	ANCHORING LAYOUT
4	PART LIST



TYPICAL ELEVATION 6'-0" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+80 PSF
NEGATIVE	-60 PSF	-80 PSF

DESIGN PRESSURE RATING (TABLE #2)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+50 PSF	+50 PSF
NEGATIVE	-65 PSF	-55 PSF

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

REVISIONS

RSW CONSULTING (813) 884-3831

DATE: 01/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-02
SHEET 1 OF 4

DISTINCTION SERIES

SMC OUTSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME (STEEL REINFORCED WITH FULL GLASS LITE)

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS ARE REQUIRED
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
   - FOR 6' 8" HIGH DOORS: SEE TABLE 1.
   - FOR FRAMES OVER 6' 8" UP TO 8' 0": SEE TABLE 2.

DOOR LEAF CONSTRUCTION:

1. FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.075 THK. FIBERGLASS SKIN.
2. CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE
3. CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN, GLUED TO THE WOOD BUCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM
4. GLAZING: 5/8" OVERALL THICKNESS INSULATED GLASS PANEL CONSISTING OF: TWO 1/8" TEMPERED LITES AND ONE AIR SPACE
5. REINFORCING: ONE (1) "U" SHAPED STEEL REINFORCING CHANNEL MEASURING 1.591"x0.748"x0.079" THK. WAS LOCATED AT EACH PANEL STILE. (8'-0" DOOR ONLY)

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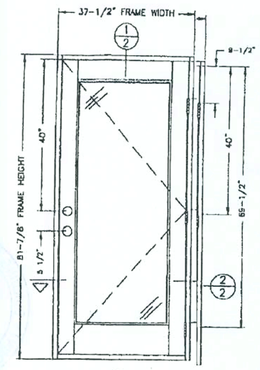
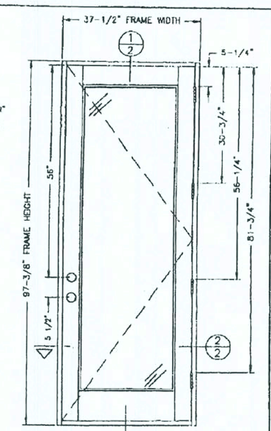
SHEET #	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS
2	CROSS SECTIONS (VERTICAL AND HORIZONTAL)
3	ANCHORING LAYOUT
4	PART LIST



TYPICAL ELEVATION 6'-0" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+60 PSF
NEGATIVE	-60 PSF	-60 PSF

DESIGN PRESSURE RATING (TABLE #2)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+50 PSF	+70 PSF
NEGATIVE	-70 PSF	-70 PSF

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PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

REVISIONS

RSW CONSULTING (813) 884-3831

DATE: 02/09/99
SCALE: 3/4"=12"
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 1 OF 4

REVISIONS :

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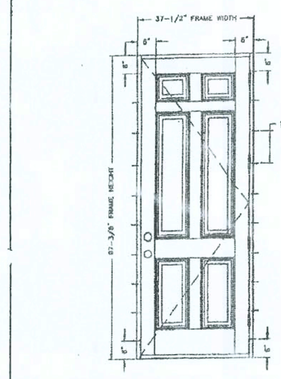
Maronda Homes

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

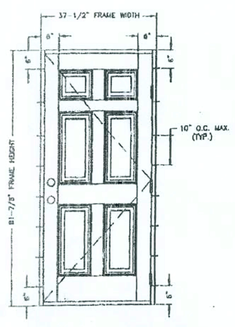
EXT. DOOR DETAILS

OUT SWING-FIBERGLASS

RELEASE DATE:



ANCHOR LAYOUT FOR 6'-0" DOOR



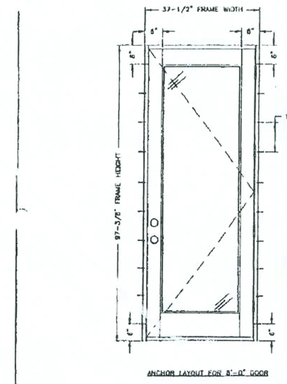
ANCHOR LAYOUT FOR 8'-0" DOOR

TYPICAL ANCHORS
1.) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (8 SHS, 1-1/2" MIN. EMBEDMENT
2.) INTO 1BY WOOD BUCKS OR INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

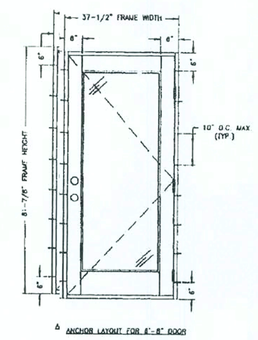
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

RSW CONSULTING (813) 884-3831

DATE: 01/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-0
SHEET 3 OF



ANCHOR LAYOUT FOR 6'-0" DOOR



ANCHOR LAYOUT FOR 8'-0" DOOR

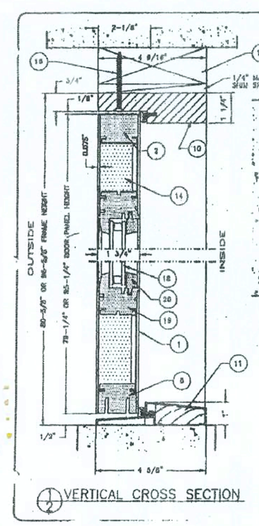
TYPICAL ANCHORS
1.) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (8 SHS, 1-1/2" MIN. EMBEDMENT
2.) THRU 1BY WOOD BUCKS AND INTO MASONRY 3/16" DIA TAPCONS WITH 1-1/4" MIN. EMBEDMENT

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

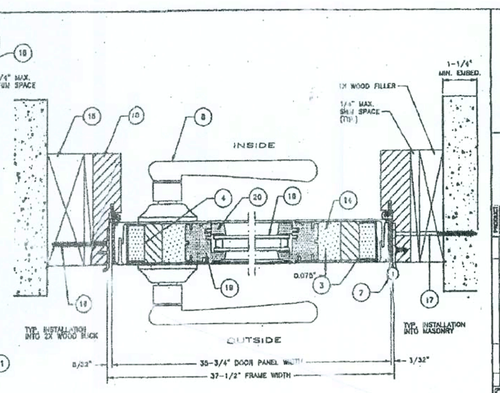
PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: ANCHORING LAYOUT

RSW CONSULTING (813) 884-3831

DATE: 03/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 3 OF 4



VERTICAL CROSS SECTION



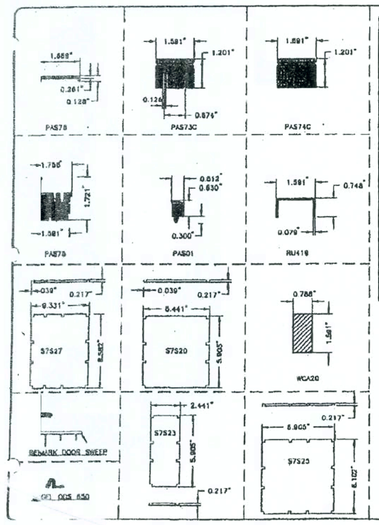
HORIZONTAL CROSS SECTION

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

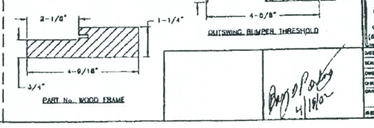
PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: CROSS SECTIONS

RSW CONSULTING (813) 884-3831

DATE: 03/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-03
SHEET 2 OF 4



ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6'-0")	=====	SMC .075" THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	=====	SMC .075" THK FIBERGLASS
2	TOP RAIL	PAS74C TOP RAIL	PVC FOAM
		S1243 ANCHOR (6'-0")	STEEL
		S1930 ANCHOR (8'-0")	STEEL
3	HINGE STILE	PAS75 DOOR EXTENSION	RIGID PVC
		WOOD(TWO PCS)-8' ONLY	WOOD (MAHOGANY)
		WOOD (6'-0" ONLY)	WOOD (MAHOGANY)
		RU 418 (6'-0" ONLY)	STEEL (SS 41)
4	LOCK STILE	PAS78 DOOR EXTENSION	RIGID PVC
		WOOD(TWO PCS)-8' ONLY	WOOD (MAHOGANY)
		WOOD (6'-0" ONLY)	WOOD (MAHOGANY)
		RU 418 (6'-0" ONLY)	STEEL (SS 41)
5	BOTTOM RAIL	S1944 ANCHOR (6'-0")	STEEL
		S1922 ANCHOR (8'-0")	STEEL
		PAS73C BOTTOM RAIL	PVC FOAM
		DK 280 (TWO PCS)	PVC CO-EXTRUSION
6	DOOR BOTTOM (INSWING)	BRUSHWARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC
7	BUTT HINGE	4 X 4	BRASS
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	1-5/16" WOOD FRAME	WOOD
11	THRESHOLD (OUTSWING)	DCS 650 WEATHERSTRIP	SCHLEGEL Q-LON
		OUTSWING BUMPER	ALUMINUM / WOOD
12	FOAM CORE	DCS 650 WEATHERSTRIP	SCHLEGEL Q-LON
13	2X		POLYURETHANE FOAM CORE
14	ANCHOR	6 X 2-1/2" PTH SHS	WOOD BLOCK
15	ANCHOR	3/16" X FH TAPCON	STEEL
16	5/8" INSULATED GLASS CONSISTING OF: (2) LITES OF 1/8" TEMP. GLASS + AIR SPACE		
17	INTERNAL FRAME	PAS01	PVC FOAM
18	GLAZING BEAD	PAS01	PVC FOAM



PART No. WOOD FRAME

OUTSWING BUMPER THRESHOLD

PLASTPRO, INC.
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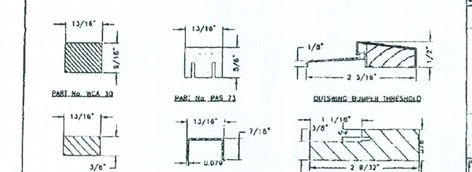
LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: PARTS LIST

RSW CONSULTING (813) 884-3831

DATE: 03/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-06
SHEET 4 OF 4

ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6'-0")	SAG 52	SMC .090" THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	SAG 54	SMC .090" THK FIBERGLASS
2	TOP RAIL	WCA 20	WOOD (MAHOGANY)
	TOP RAIL (8'-0")	WCA 32	WOOD (MAHOGANY)
3	HINGE STILE	WCA 30	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
4	LOCK STILE	WCA 30(TWO PCS)	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
		WCA 20(TWO PCS)	WOOD (MAHOGANY)
5	BOTTOM RAIL	PAS 73	FOAM PVC EXTRUSION
6	BUTT HINGE	MBS 01	PVC
7	LATCH LOCK	4 X 4	BRASS
8	DEAD BOLT	KWIKSET 200 SERIES	
9	DOOR FRAME	KWIKSET 660 SERIES	
10		1-5/16" WOOD FRAME	WOOD
11	THRESHOLD (OUTSWING)	DCS 650 WEATHERSTRIP	SCHLEGEL Q-LON
		OUTSWING BUMPER	ALUMINUM / WOOD
		DCS 650 WEATHERSTRIP	SCHLEGEL Q-LON
12	FOAM CORE		POLYURETHANE FOAM CORE
13	2X		WOOD BLOCK
14	ANCHOR	6 X 2-1/2" PTH SHS	STEEL
15	ANCHOR	3/16" X FH TAPCON	STEEL



PART No. SCHLEGEL DCS 650

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

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PART OR ASSEMBLY: PARTS LIST

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SCALE: N.T.S.
DWG. BY: R.P.P.
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DRAWING NO.: 99-03
SHEET 4 OF 4

COLUMBIA COUNTY BUILDING DEPARTMENT
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03 JUN 2003

SHEET:

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