SUNBURY - V

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: TWO STORY

BUILDING MEAN ROOF HEIGHT: 25 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

SHEET NO.	TITLE
ARCH -	ARCHITECTURALS
0	COVER SHEET
1	EXTERIOR ELEVATIONS
2	FOUNDATION PLAN
3	FIRST FLOOR PLAN
WL1	WINDOW & LINTEL SCHEDULE
3A	INTERIOR ELEVATIONS AND DETAILS
CSU	BUILDING SECTION [AS REQ'D]
4	SECOND FLOOR PLAN
RSI	ROOF SHEATHING
MIPS -	FLOOR TRUSS PANELS
FT2	SECOND FLOOR FRAMING
MIPS -	WALL PANELS
WP2	WALL PANELS
WP2J	WALL PANELS [AS REQ'D]
WP3	WALL PANELS [AS REQ'D]
MIPS -	ROOF TRUSS ENGINEERING
TRI	ROOF TRUSS INFO
MECH -	ELECTRICAL
EL1	ELECTRICAL FIRST FLOOR
ELA	ELECTRICAL DETAILS / LOAD CALCS
EL2	ELECTRICAL SECOND FLOOR
MECH -	HVAC
HVA	HVAC REGISTER LAYOUT
ISO-H	HVAC ISOMETRIC
MECH -	PLUMBING
FP1	PLUMBING UNDERGROUND PLAN
ISO-P	DWV PLUMBING ISOMETRIC
ISO-W	CPVC WATER ISOMETRIC
ARCH -	STANDARD DETAILS
FTG	STANDARD DETAILS - FOOTINGS
WS-#'s	STANDARD DETAILS - WALL SECTION
SD1	STANDARD DETAILS
SDD	STANDARD DETAILS - DOORS
SDW	STANDARD DETAILS - WINDOWS
SDH	STANDARD DETAILS - HEATING
STR	STAIR DETAILS

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

WOOD TRUSS

REVISIONS :

08-14-07 REV. CODE INFORMATION

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN COMPLIANCE AND MEETS THE REQUIREMENTS OF SECTION R301.2.1 OF THE FLORIDA BUILDING CODE 2004 ; RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. AUST. HALEXPOSURE B, ENCLOSED BUILDING. ALL CONNECTIONS ARE DESIGNED AND SPECIFIED TO WITHSTAND ALL APPLICABLE LOADS.

9TM01601 JAX
9TM
16-1

AMERICANA

COVER SHEET

SUNBURY

ELEVATION "V"

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 03-20-06 125 MPH

PLOT DATE: 22 FEB 2008 13:19:05

P:\Houses_05\sunbury\V25\sum-125.000

CC

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

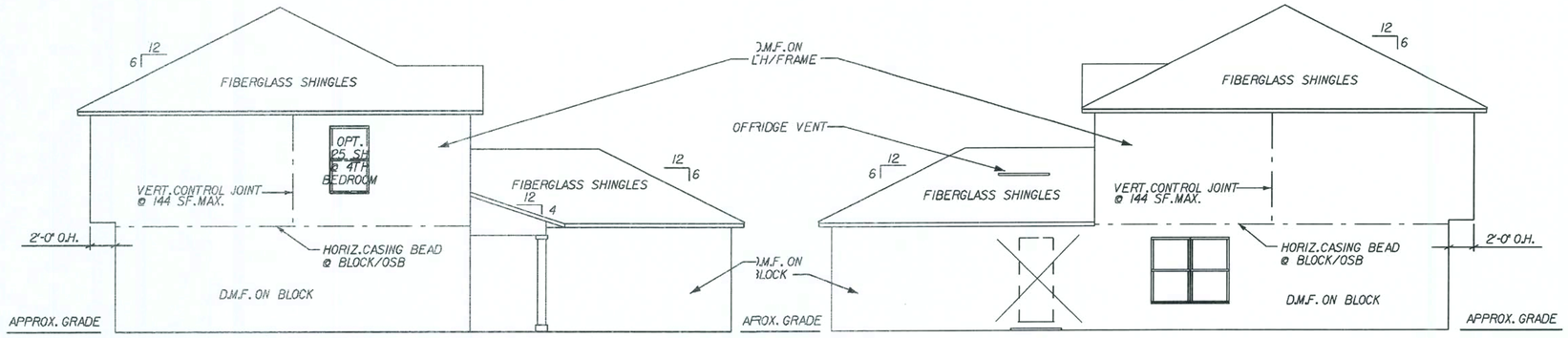
Elmer Bergman, P.E.
License No. 50158

JULY 24 2008

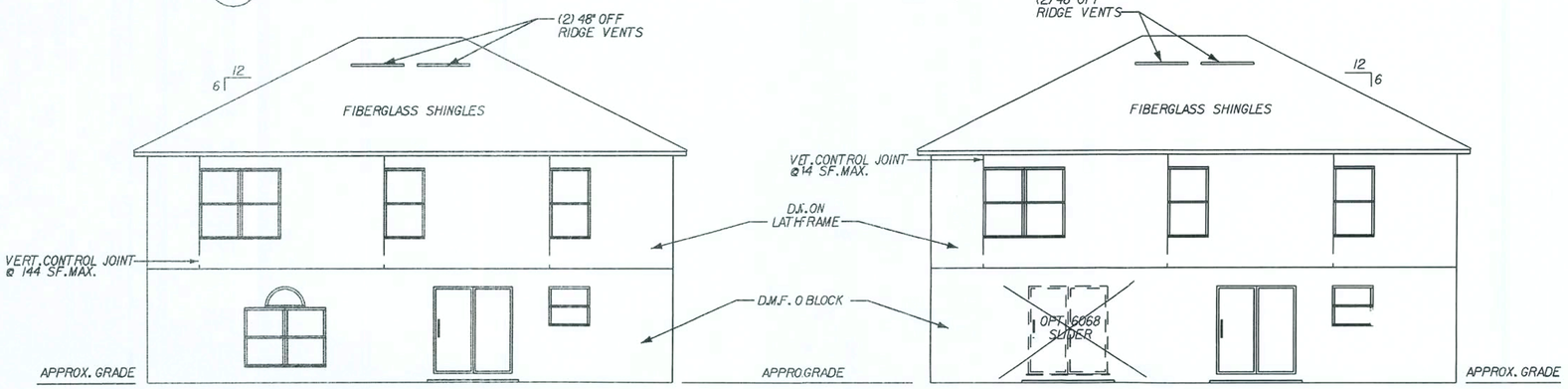
SHEET:

0v

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

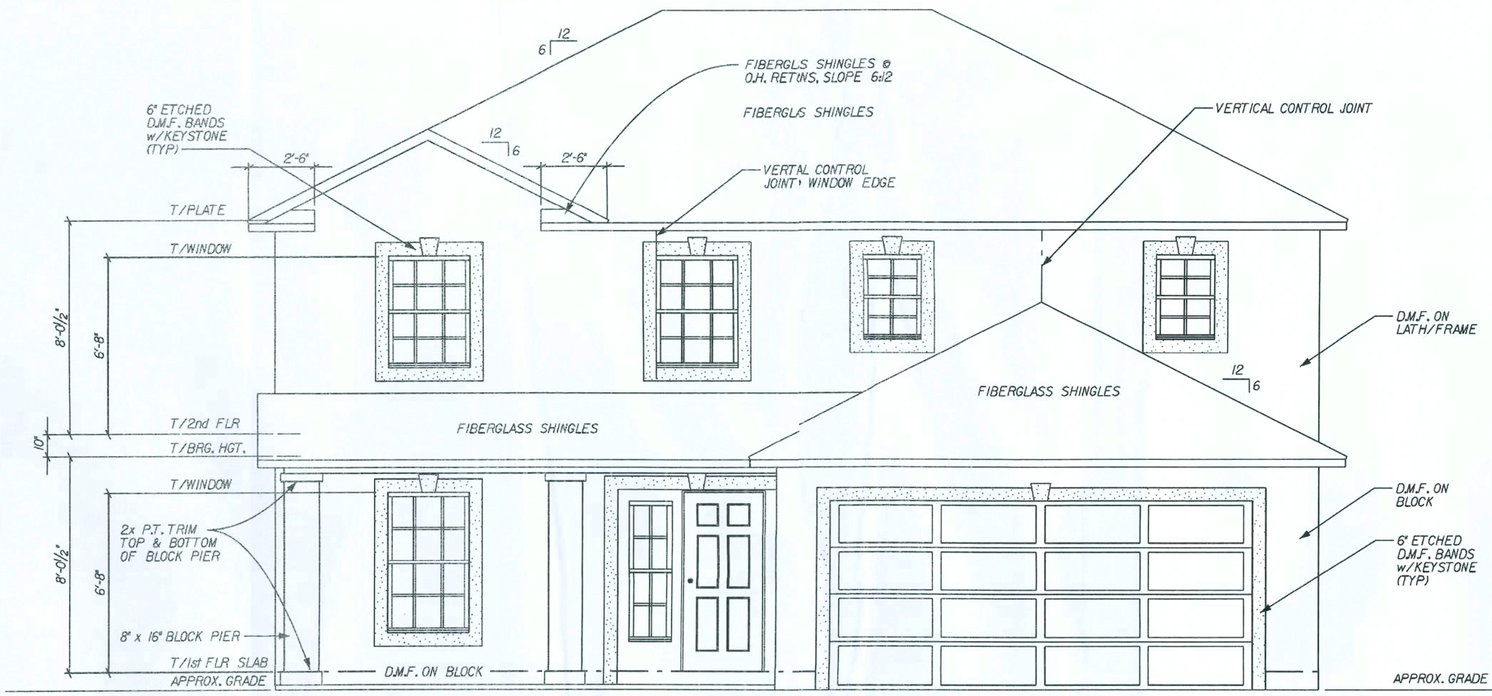


D LEFT ELEVATION
SCALE : 1/8" = 1'-0"



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

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

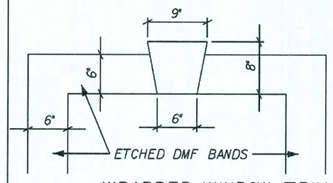


OPT. REAR ELEVATION
SCALE : 1/8" = 1'-0"

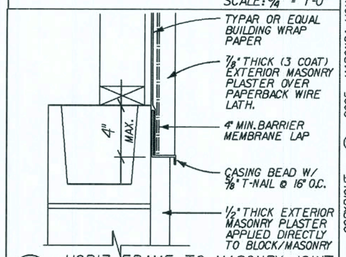
A FRONT ELEVATION
SCALE : 1/4" = 1'-0"

GENERAL ELEVATION NOTES:

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



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



1 HORIZ. FRAME TO MASONRY JOINT
REVISED 12-11-06 SCALE: N.T.S.

REVISIONS : REVISED 01-05-06
08-01-06 REV. STUCCO DETAIL
09-22-06 REV. PORCH SLOPE/FNT. WINDOW
09-21-07 DEL VINYL SIDING

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

D:\N\houses...05\sunbury\sfd\sunv001

AMERICANA | EXT. ELEVATION

SUNBURY-NEWBERRY

ELEVATION "V"

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 03-20-06

PLOT DATE: 22 FEB 2008 13:9:05

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JULY 24 2008

SHEET: IV

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.

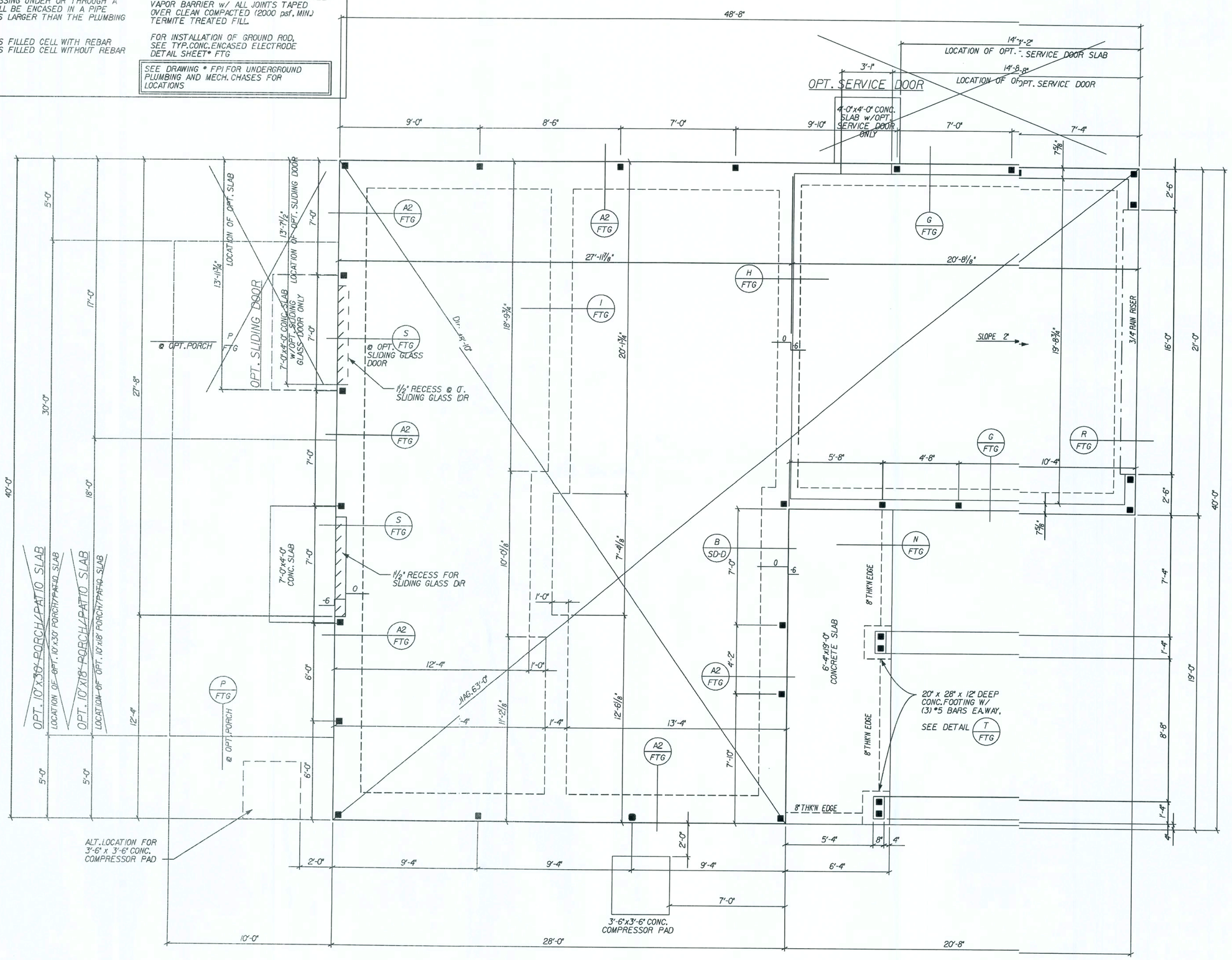
■ - INDICATES FILLED CELL WITH REBAR
□ - INDICATES FILLED CELL WITHOUT REBAR

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 UNTEL STEEL. PROVIDE INSPECTION HOLE AT BOTTOM OF GROUTED CELL STACK.

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

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

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



REVISIONS :

04-24-06	REVISED NOTE AT GARAGE DOOR
05-15-06	REV. NOTE AT PORCH COL.
06-12-06	ADDED DOOR PAN DETAIL MARKER
09-22-06	REV. FRONT PORCH TO 6'-4" DEEP
08-14-07	REV. CODE INFORMATION

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

P:\MYHouses_05\sunbury\125sun-125.002

AMERICANA | FOUNDATION PLAN

SUNBURY

ELEVATION "V"

DRAWN BY: | GARAGE: RIGHT | 125 MPH

RELEASE DATE: 03-20-06

PLOT DATE: 22 FEB 2008 13:59:07

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Elmer Bergman, P.E.
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JULY 24 2008

SHEET: 2V

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 BEINFILLED, U.N.O. FOR FILLED PRECAST LINT.S,USE 3000 psi CONCRETE w/⅜" AGGRIATE.FOR REINFORCED PRECAST LINTELS,IE GRADE 40 REINFORCING STEEL.

PROVIDE SAFETY GLAZING AT: 7. TEMPERED
- ALL WINDOWS OVER BATH TUBS
- ALL WINDOWS WITHIN 24" OF A DOR SWING.
- ALL SLIDING GLASS DOORS.
- ALL FIXED GLASS LITES OVER 9 SQ.FT.
- ALL LITES WITHIN 18" OF THE FLOR AND INDIVIDUAL PANE GREATER HAN 9 SQ.FT.
- ALL SHOWER ENCLOSURES.

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

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

SEE SHEET * WL1 FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

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

ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR - MIN. 1⅜" THICK SOLID CORE DOOR.

REVISED 10-10-07

SQUARE FOOTAGE:

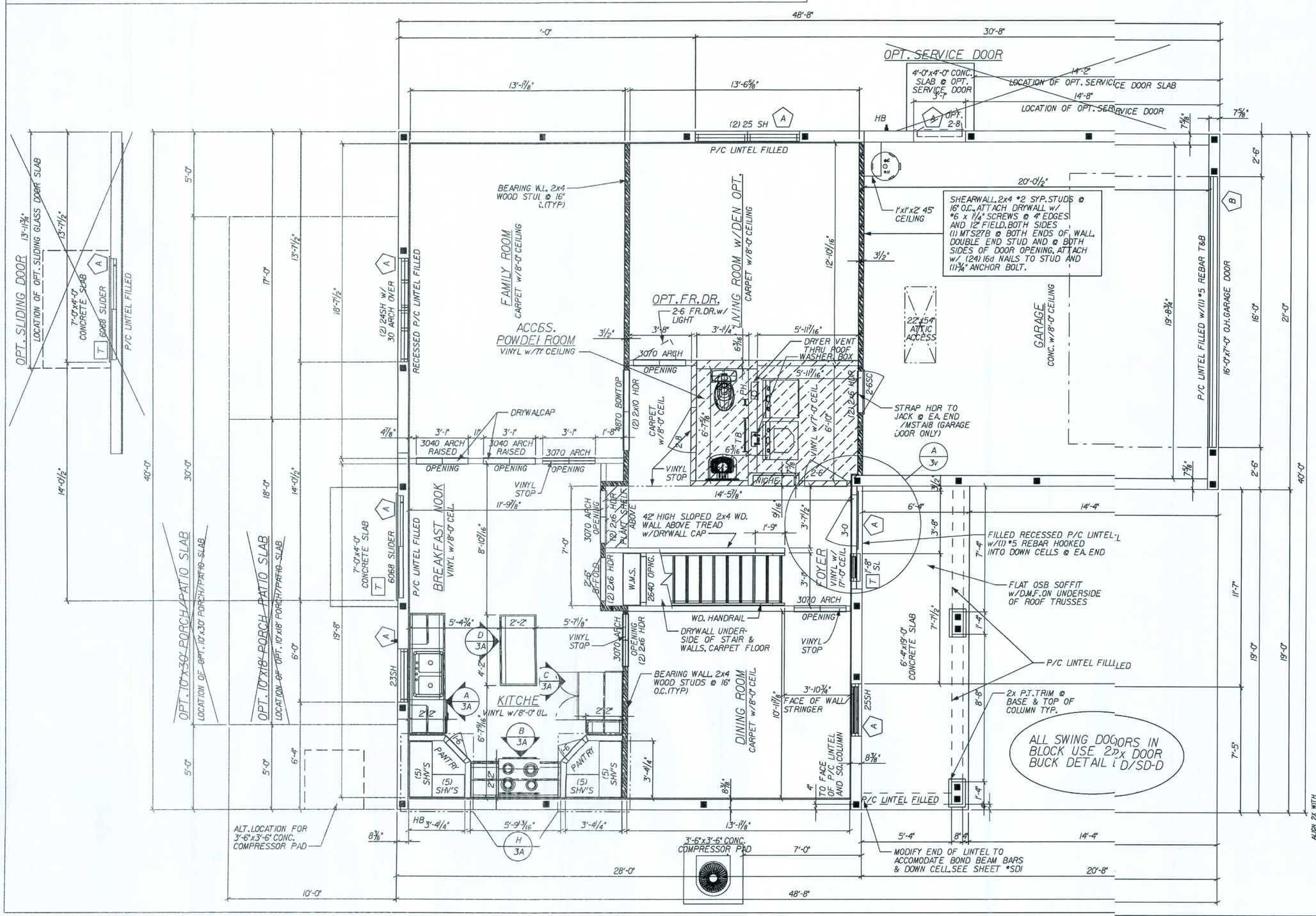
1st FLOOR LIVING	1120 SQ. FT.
2nd FLOOR LIVING	1103 SQ. FT.
TOTAL LIVING	2223 SQ. FT.
GARAGE AREA	434 SQ. FT.
COVERED ENTRY	114 SQ. FT.
TOTAL AREA	2771 SQ. FT.

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

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



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D:\NDOUBS..05\SUNBURY\125\SUN-125.DWG

AMERICANA | FIRST FLOOR PLAN

SUNBURY

ELEVATION "V"

DRAWN BY: | GARAGE: RIGHT | 125 MPH

RELEASE DATE: 03-20-06

PLOT DATE: 22 FEB 2008 13:19:09

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Elmer Bergman, P.E.
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JULY 24 2008

SHEET:
3V

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 EVERYHOLE

WINDOW NOTES

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

ATTENTION

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

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

SERIES 500/502 SGD DOOR OPENINGS

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

SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.	DOUBLE M.O.	FAST.	SIZE	SINGLE F.O.	FAST.	DOUBLE F.O.	FAST.
					IH3	26 X 37 1/8	7		
23	37 3/4 X 38 3/8	2,5			24/5	36 1/2 X 55 3/4	7		
25	37 3/4 X 63	2,5	74 3/4 X 63	2,5	25	36 1/2 X 62 1/2	7	73 1/4 X 62 3/8	7

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

SIZE	SINGLE M.O.	FAST.
(2) 24 w/ 3'-0" CT	74 3/4 X 71 5/8	2,5,7

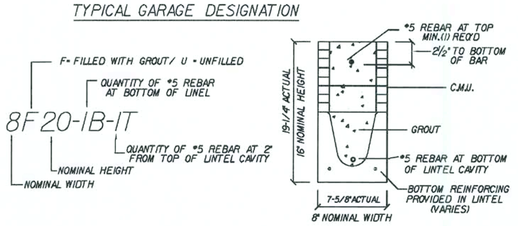
SPECIALTY WINDOWS - SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE F.O.	FAST.
1-8 SL	19 3/8 X 59 3/8	7

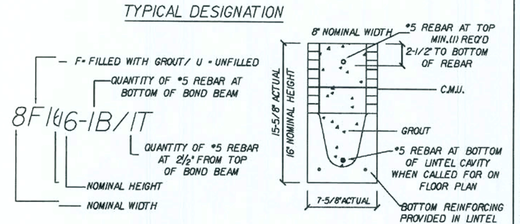
MATERIALS

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

TYPICAL GARAGE DESIGNATION



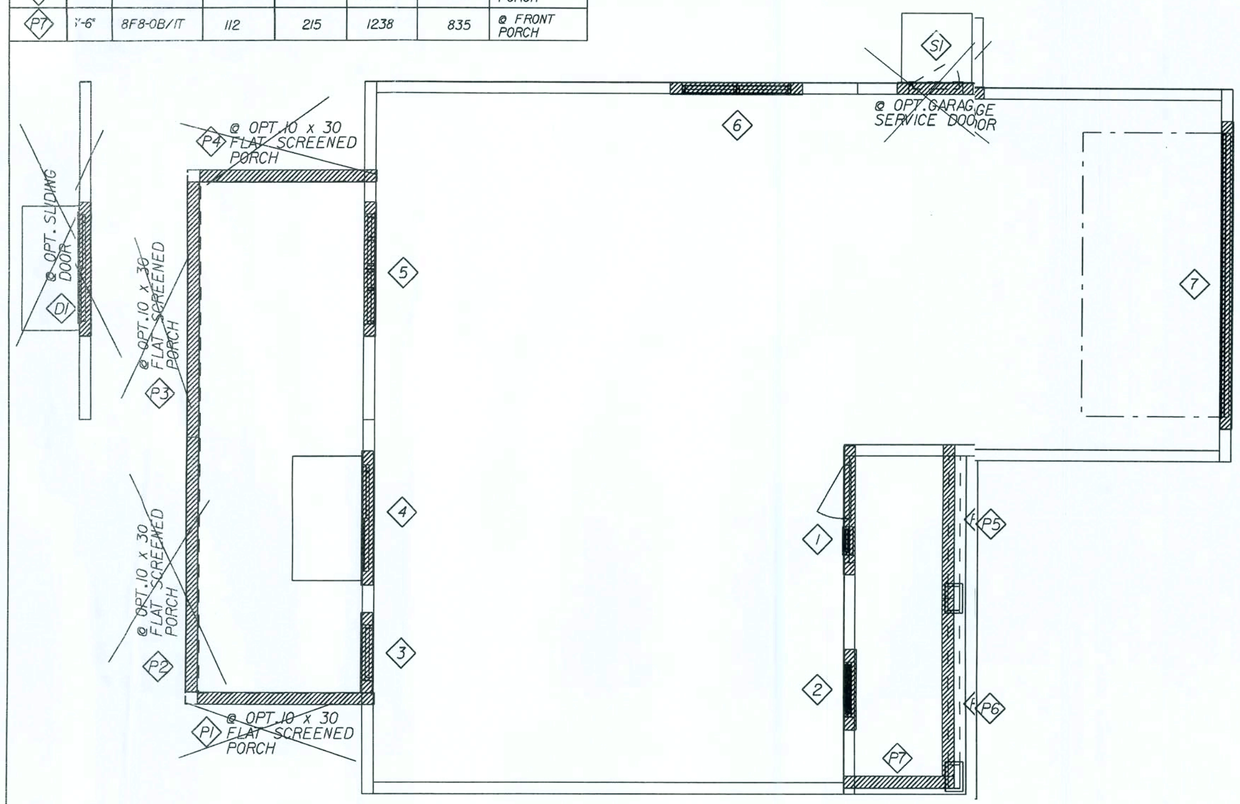
TYPICAL DESIGNATION



REVISED 12/29/04

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
1	7'-6"	8RF14-OB/IT	138	219	2459	1962	RECESSED
2	4'-6"	8U16-OB/IT	92	166	1599	2724	-
3	4'-6"	8U16-OB/IT	92	166	1599	2724	-
4	7'-6"	8F16-OB/IT	138	219	2632	1634	-
5	7'-6"	8RF14-OB/IT	138	219	2459	1962	RECESSED
6	7'-6"	8F16-OB/IT	138	219	2632	1634	-
7	7'-4"	8F20-IB/IT	138	219	1326	732	GARAGE DOOR
D1	7'-6"	8F16-OB/IT	138	214	2632	1634	@ OPT. SLIDING DOOR
S1	8'-6"	8U16-OB/IT	138	219	1599	2724	@ OPT. GARAGE SERVICE DR.
P1	0'-6"	8F8-OB/IT	33	220	1247	914	@ OPT. PORCH
P2	4'-8"	8F8-OB/IT	330	220	458	239	@ OPT. PORCH
P3	4'-8"	8F8-OB/IT	330	220	458	239	@ OPT. PORCH
P4	0'-6"	8F8-OB/IT	33	220	643	530	@ OPT. PORCH
P5	8'-8"	8F8-OB/IT	112	215	752	591	@ FRONT PORCH
P6	0'-6"	8F8-OB/IT	112	215	643	530	@ FRONT PORCH
P7	8'-6"	8F8-OB/IT	112	215	1238	835	@ FRONT PORCH



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

REVISED 04-02-07

REVISIONS :

08-14-07 REV. CODE INFORMATION

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION 1609 OF THE FLORIDA BUILDING CODE: 2004 RESIDENTIAL AND 2005 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. HAL EXPOSURE B ENCLOSED BUILDING. TO BE CONSTRUCTED TO COMPLY WITH ALL APPLICABLE CODES.

P:\MYHOUSES_05\SUNBURY\ELEV\SUN-125.WL1

AMERICANA | WINDOW/LINTEL

SUNBURY

ELEVATION "V"

DRAWN BY: | GARAGE: RIGHT | 125 MPH

RELEASE DATE: 03-20-06

PLOT DATE: 22 FEB 2008 13:39:10

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

Elmer Bergman, P.E.
License No. 50158

JULY 24 2008

SHEET:
WL1V

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	5386	5386
* M-3	2'-4"	3'-8"	617	4982	4982
M-4	2'-8"	4'-0"	540	4353	4353
* M-5	2'-10"	4'-2"	508	4095	4095
* M-6	3'-0"	4'-4"	480	3868	3865
M-7	3'-2"	4'-6"	455	3378	3658
* M-8	3'-4"	4'-8"	432	3044	3474
M-9	4'-0"	5'-2"	360	2100	2857
* M-10	4'-4"	5'-8"	333	1630	2770
M-11	4'-6"	5'-10"	320	1650	2373
M-12	5'-2"	6'-6"	276	1240	1788
* M-13	5'-4"	6'-8"	271	1161	1678
M-14	6'-0"	7'-6"	233	867	1242
* M-15	6'-4"	7'-8"	228	810	1175
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	363	537
M-20	10'-0"	11'-4"	178	268	444
M-21	11'-2"	12'-8"	128	210	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"	633	7229	7229
L-2	2'-2"	3'-6"	546	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	1594	1713
L-9	7'-0"	8'-4"	200	1170	1502
L-10	8'-0"	9'-4"	240	881	1206
L-11	9'-2"	10'-6"	200	657	904
L-12	10'-0"	11'-4"	192	542	750
L-13	11'-2"	12'-8"	172	423	590
L-14	12'-0"	13'-4"	160	356	503
L-15	12'-8"	14'-0"	152	315	445
L-16	13'-4"	14'-8"	144	279	396
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
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"	1868	1868
L-10	8'-0"	9'-4"	1976	1821
L-11	9'-2"	10'-6"	1404	1404
L-12	10'-0"	11'-4"	978	1279
L-13	11'-2"	12'-8"	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"	260	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	5054
M-9	4'-0"	5'-4"	4203	4203
* M-10	4'-4"	5'-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'-8"	1240	1413
M-22	12'-0"	13'-4"	1060	1218
M-23	12'-8"	14'-0"	941	1078

* 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&6 DET. "II"
L-1	1'-6"	2'-10"	10831	831
L-2	2'-2"	3'-6"	7463	463
L-3	2'-8"	4'-0"	6041	041
L-4	3'-2"	4'-6"	5099	099
L-5	4'-0"	5'-4"	3989	989
L-6	4'-6"	5'-10"	3533	533
L-7	5'-2"	6'-6"	3062	062
L-8	6'-2"	7'-6"	2547	547
L-9	7'-0"	8'-4"	2230	230
L-10	8'-0"	9'-4"	1936	936
L-11	9'-2"	10'-6"	1675	675
L-12	10'-0"	11'-4"	1526	526
L-13	11'-2"	12'-8"	1354	354
L-14	12'-0"	13'-4"	1262	262
L-15	12'-8"	14'-0"	1168	180
L-16	13'-4"	14'-8"	1044	115
L-17	14'-0"	15'-4"	936	022
L-18	16'-0"	17'-4"	689	755
L-19	18'-0"	19'-4"	516	386
L-20	18'-8"	19'-4"	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" COMPOSITE

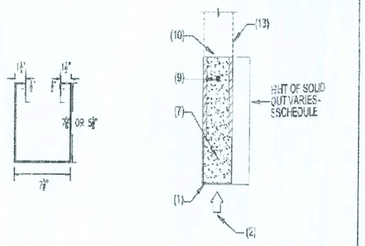
SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBFT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "J"	FED W/ T&B DAIL "JJ"
L-1	1'-6"	2'-10"	12632	2632
L-2	2'-2"	3'-6"	8701	8701
L-3	2'-8"	4'-0"	7042	7042
L-4	3'-2"	4'-6"	5908	5908
L-5	4'-0"	5'-4"	4647	4647
L-6	4'-6"	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"	2583	2583
L-10	8'-0"	9'-4"	2251	2251
L-11	9'-2"	10'-6"	1946	1946
L-12	10'-0"	11'-4"	1772	1772
L-13	11'-2"	12'-8"	1572	1572
L-14	12'-0"	13'-4"	1453	1453
L-15	12'-8"	14'-0"	1369	1369
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"	861	946
L-20	18'-8"	20'-0"	818	866
L-21	20'-8"	22'-0"	641	682
L-22	22'-8"	24'-0"	506	543
L-23	24'-0"	25'-4"	484	825
L-24	26'-0"	27'-4"	361	811
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 REQ'RE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

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

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBFT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "K"	LED W/ S T&B TAIL "KK"
L-1	1'-8"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	6746	6746
L-5	1'-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	2857
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"	790	1795
L-14	12'-0"	13'-4"	653	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	1283
L-21	20'-8"	22'-0"	869	1037
L-22	22'-8"	24'-0"	693	833
L-23	24'-0"	25'-4"	625	918
L-24	26'-0"	27'-4"	507	757
L-25	28'-0"	29'-4"	413	623
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	2053
L-15	12'-8"	14'-0"	1934	1934
L-16	13'-4"	14'-8"	1826	1826
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"	1257	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"	604	929
L-26	30'-0"	31'-4"	497	780
L-27	32'-0"	33'-4"	409	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 PSooxB (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-12	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"	833	1833
L-20	18'-8"	20'-0"	758	1758
L-21	20'-8"	22'-0"	560	1560
L-22	22'-8"	24'-0"	335	1652
L-23	24'-0"	25'-4"	185	1304
L-24	26'-0"	27'-4"	966	1181
L-25	28'-0"	29'-4"	765	1077
L-26	30'-0"	31'-4"	656	966
L-27	32'-0"	33'-4"	542	866
L-28	34'-0"	35'-4"	447	734
L-29	36'-0"	37'-4"	368	624
L-30	38'-0"	39'-4"	301	531
L-31	40'-0"	41'-4"	244	451

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

GRAVITY LOADS

NOTES:

1. PRODUCT NAME PATENT NO. 5367298

   PERFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WEB PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A653 GRADS C (FY = 40 ksi)

   NOTE: INFORMATIONS DO NOT EXPECT STRUCTURAL CAPACITY

   FOR SPANS LESS THAN 15'-6" BOX LINTELS TO BE 18 GA. FOR SPANS GREATER THAN AND EQUAL TO 15'-6" BOX LINTELS TO BE 16 GA

2. WHERE LINTELS AR REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT ALL LINTELS GREATER THAN 16'-0" ARE BUILT WITH 1/2" CAMBER.

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

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

5. DESIGN BEARING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 15'-6" 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. f'm = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.

7. GROUT = 3,000 psi SLUMP RANGE: 8" TO 11" ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-91 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 UPLIFT RESISTANCE AT LINTELS.

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

11. LIMITATIONS

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

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

    A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WOULD BE A POLYSTYRENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 3/4" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.

    DECORATIVE GRAVITATIONUS COATING CANNOT BE APPLIED

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

12. DEFLECTION LIMITS ARE SET TO LIMS FOR ALL LOADS SHOWN ABOVE THE DARKENED SOLID LINE. DEFLECTION LIMITS ARE SET TO L/360 (LIVE LOAD) 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 3/5/2001 AND CLEARLY INDICATE SUPERIMPOSED LOADS

14. #3 REINFORCING BAR(S) 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. FOR HORIZONTAL REINFORCEMENT IT IS AS A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST ENDS OF JAMBS

15. MANUFACTURER

    POWERS STEEL
    4119 E. ELWOOD PHOENIX, AZ 85040
    PHX 602-437-1160 FAX# 602-437-5409
    PHX 800-231-4606 FAX# 800-419-6481 (KEVIN)

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

    * SBCCI STD-10 1999
    * STANDARD BUILDING CODE - 1999
    * FLORIDA BUILDING CODE - 2001 W/ 2002 REVISIONS
    * AISI LIGHT GAGE COLD FORMED DESIGN - 1996
    * ACI 530-02/ASCE 5-02/TMS 402-02

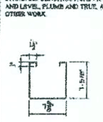
    TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

    STRUCTURAL ENGINEER FOR THESE LINTELS IS:

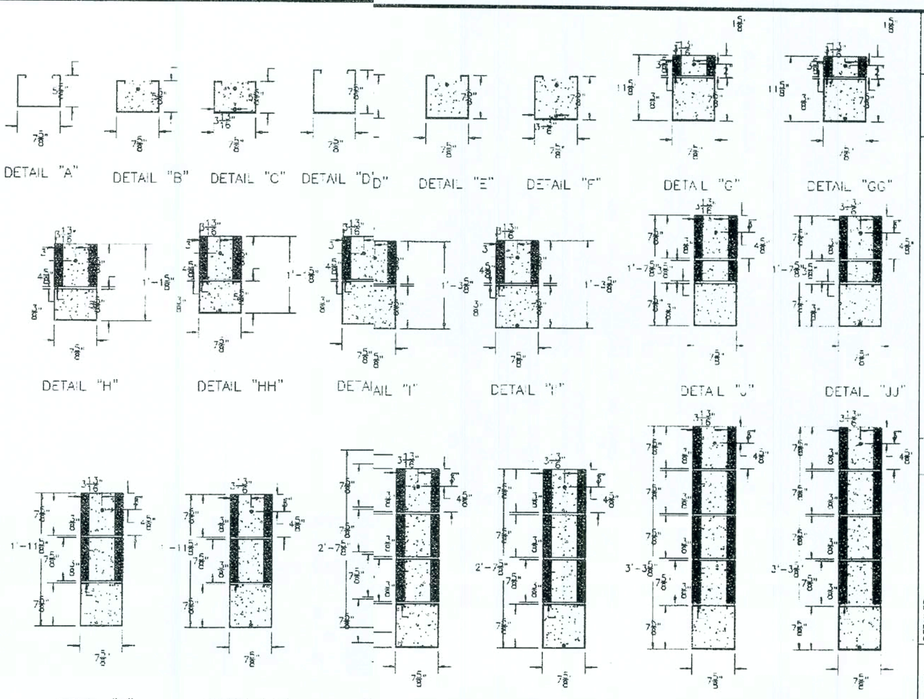
    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE No. (480) 946-5015
    FAX (480) 946-5909

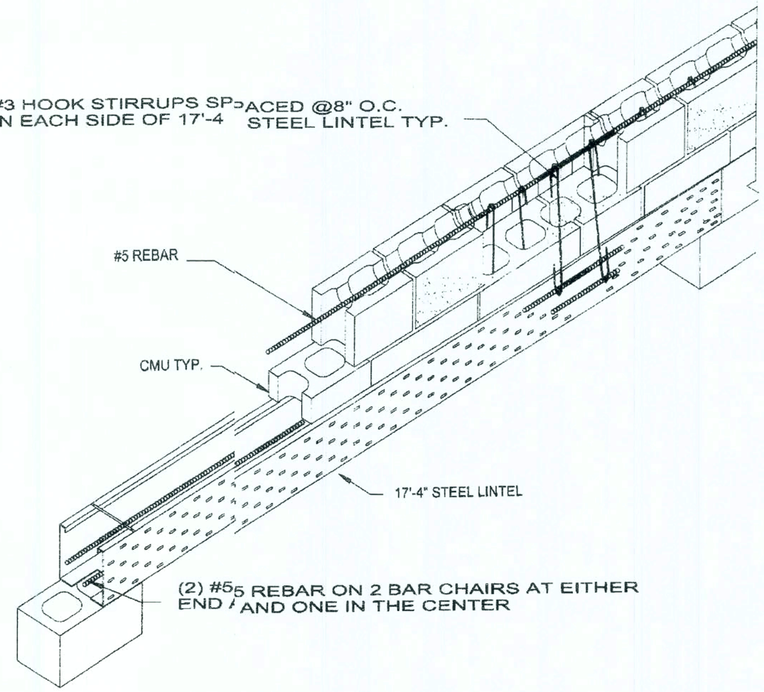
    IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.

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



PSbox8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .059 INCHES THICK.
18 GAGE IS .042 INCHES THICK





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5800 East Thomas Road, Suite 104
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Fax (602)437-5409

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

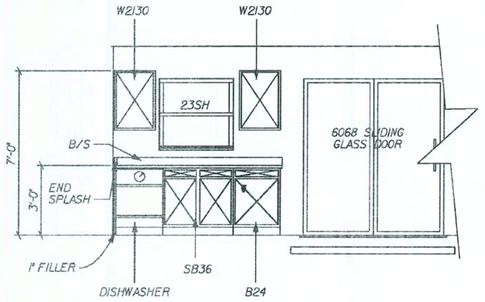
DESCRIPTION | DATE | BY | NO | REVISION

DETAILER
DATE NOV 2004
GRADE

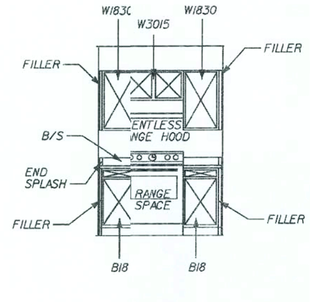
JOB NAME
JOB NO 0121-01
ADDRESS
CONTRACTOR

ARCHITECT
ENG MECH

DRWG NO.



A KITCHEN ELEVATION



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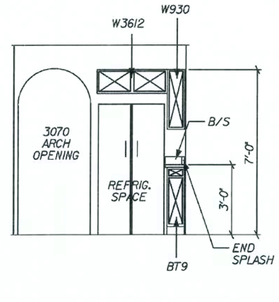
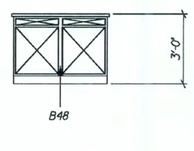


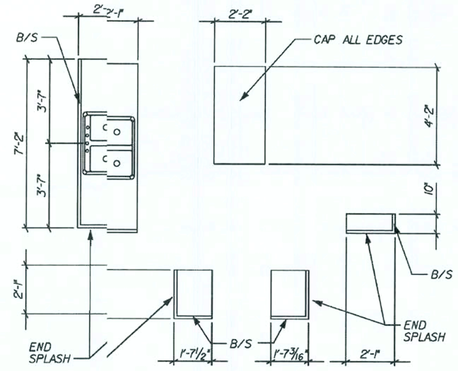
C KITCHEN ELEVATION

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

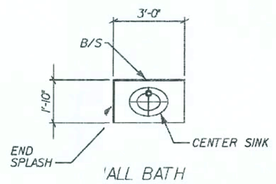


D KITCHEN ELEVATION

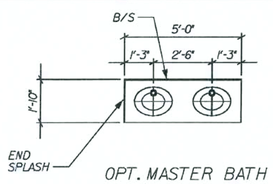


KITCHEN COUNTER TOP PLAN

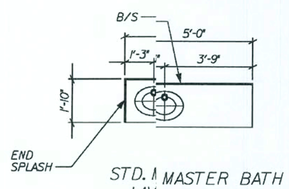
FOR COUNTEH TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



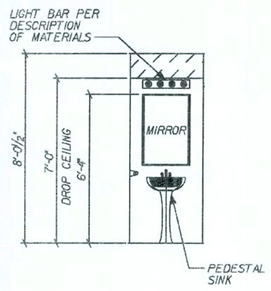
'ALL BATH LAV. TOP PLAN



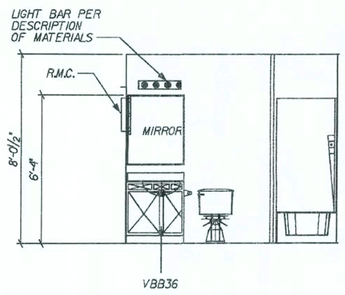
OPT. MASTER BATH LAV. TOP PLAN



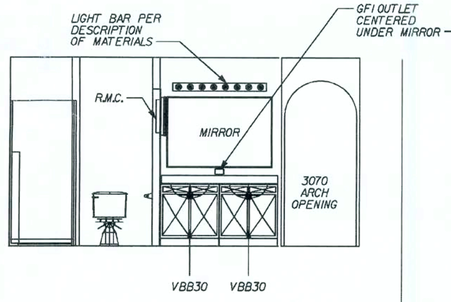
STD. MASTER BATH LAV. TOP PLAN



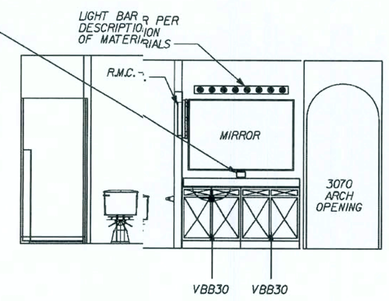
ACCESS POWDER ROOM ELEVATION



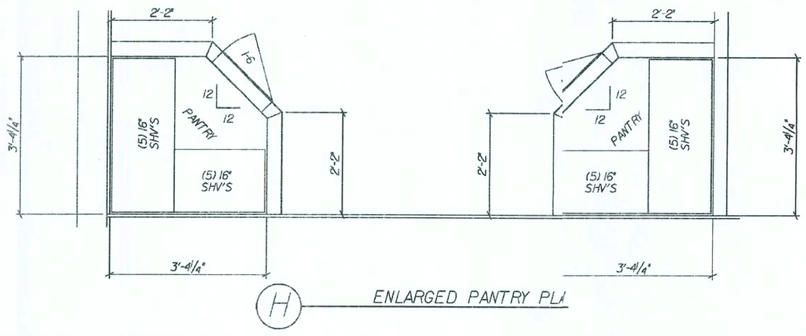
HALL BATH ELEVATION



OPTIONAL MASTER BATH ELEVATION



STANDARD MASTER BATH ELEVATION



ENLARGED PANTRY PLAN

REVISIONS :

09-12-06 REV. KITCHEN CABINETS/FILLERS

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Maronda Homes

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FLORIDA4
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIRE-MENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL WIND2005, 2006 SUP-PLEMENT

P:\V1\houses_05\sunbury\sf0\sun03a

AMERICANA | INTERIOR ELEVATIONS

SUNBURY-NEWBERRY

DRAWN BY: | GARAGE: RIGHT

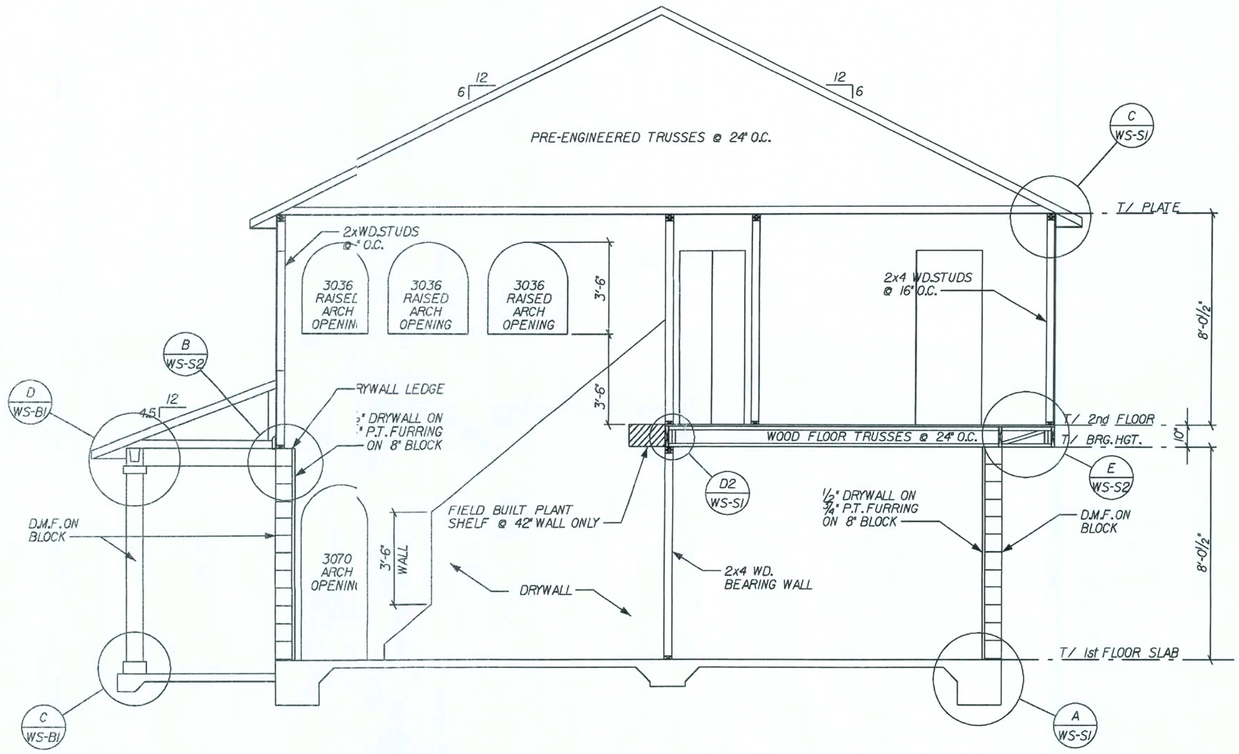
RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 13:59:10

SHEET: 3A

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

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



A CROSS SECTION

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REVISIONS :

02-15-06	REV. WOOD TRUSS FLOOR FRAMG
08-24-07	REV. OPNG SIZE 3038 -> 3036

AMERICANA | BLD. CROSS SECTION

SUNBURY

ELEVATION "V"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 03-20-06

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

Elmer Bergman, P.E.
License No. 50158

JULY 24 2008

SHEET: CSU

PLOT DATE: 22 FEB 2008 13:59:11

P:\FNhouses_05\sunbury\std\sunv.csu

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL SECOND FLOOR NOTES:

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

EXTERIOR WALLS TO BE 4" THICK, CONSISTING OF 2x4 #2 S.Y.P. STUDS w/ 7/16" OSB SHEATHING, TYPICAL, U.N.O.

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF ROUGH OPENING

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

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 IF LARGER THAN 9 SQ.FT.
ALL SHOWER ENCLOSURES.

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

ALL BEDROOM WINDOWS ARE CONSIDERED EGRESS UNLESS OTHERWISE NOTED

SEE SHEET * WL FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

OPENING PRESSURES 125mph:

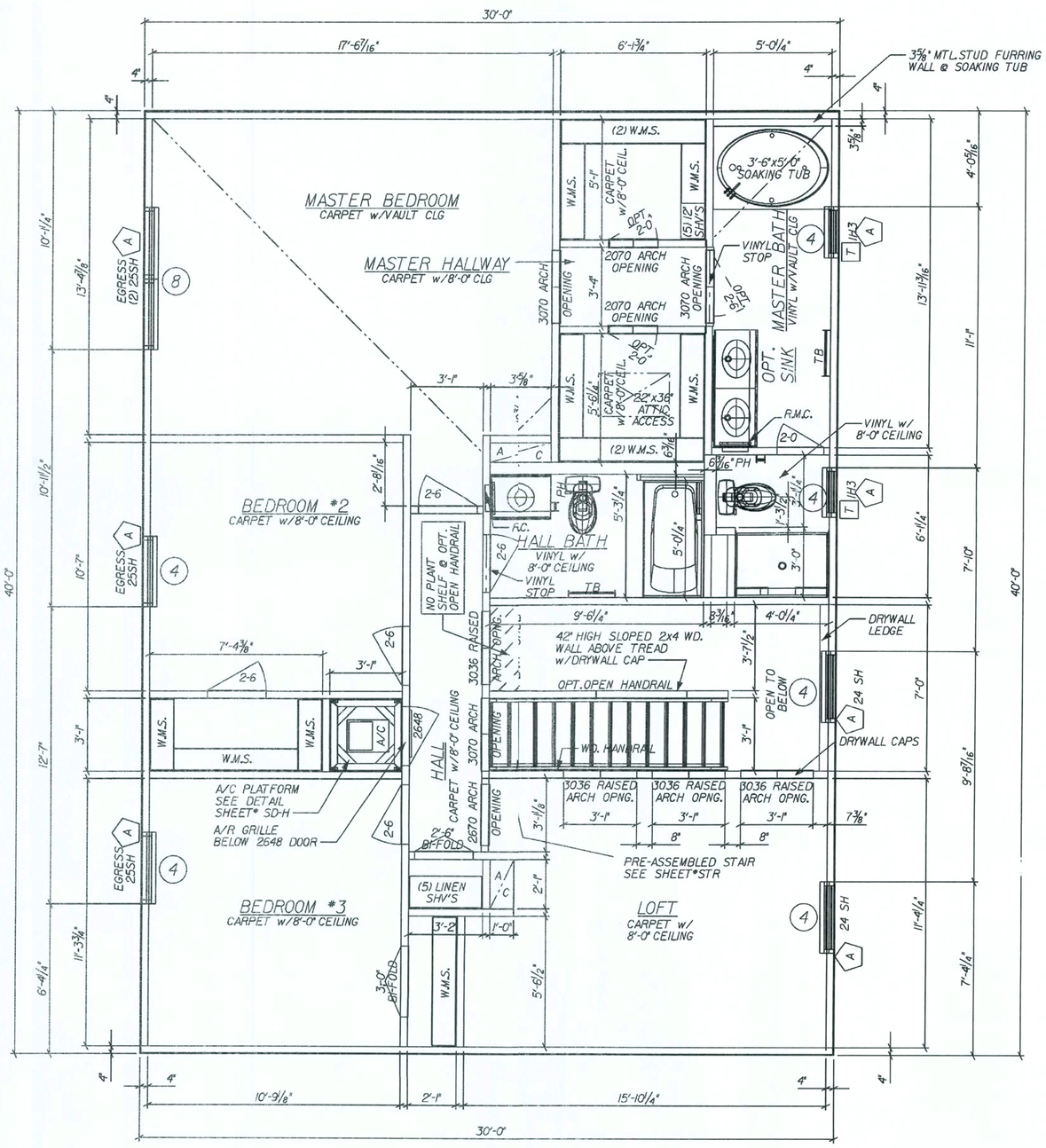
A	B	E
+28.1 / -30.5	+23.7 / -25	+24.2 / -27.1
C	**D**	
+28.1 / -37.6	+24.9 / -27	

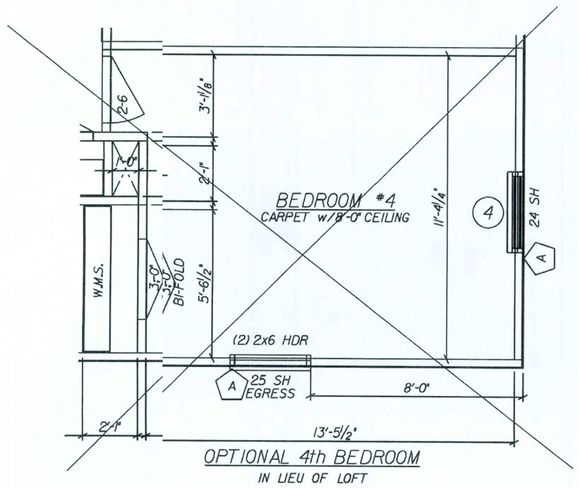
REVISED 09-12-07

TSH WINDOW HEADERS

(4)	3½" x 4⅜" TSH
(8)	3½" x 8⅝" TSH

REVISED 05-23-07





OPTIONAL 4th BEDROOM
IN LIEU OF LOFT

REVISIONS :	
05-16-06	REV. HEADER SIZES
05-17-06	REV. M.B. CLOSETS
09-22-06	REV. FRONT WINDOWS @ PORCH
03-07-07	REV. HEADERS TO TSH
05-23-07	REV. HEADER
08-24-07	REV. OPNG SIZE 3038 -> 3036
08-14-07	REV. CODE INFORMATION

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(4071) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION 301.3 OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005 GUST, NON-EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS ARE RATED AT 1.5 TIMES REQUIRED TO WITHSTAND ALL APPLICABLE LOADS.

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08-14-07 REV. CODE INFORMATION

AMERICANA | SECOND FLOOR PLAN

SUNBURY

ELEVATION "V"

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 03-20-06 | 125 MPH

PLOT DATE: 22 FEB 2008 | 13:19:12

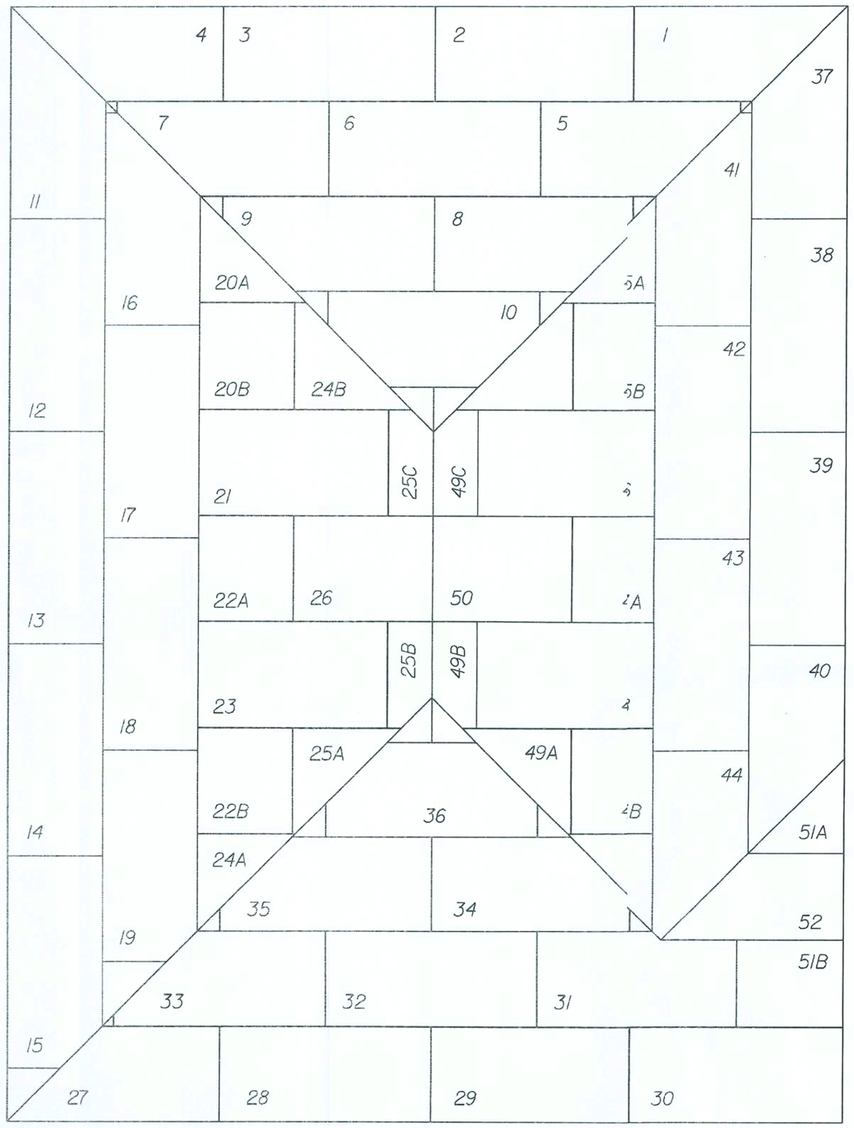
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

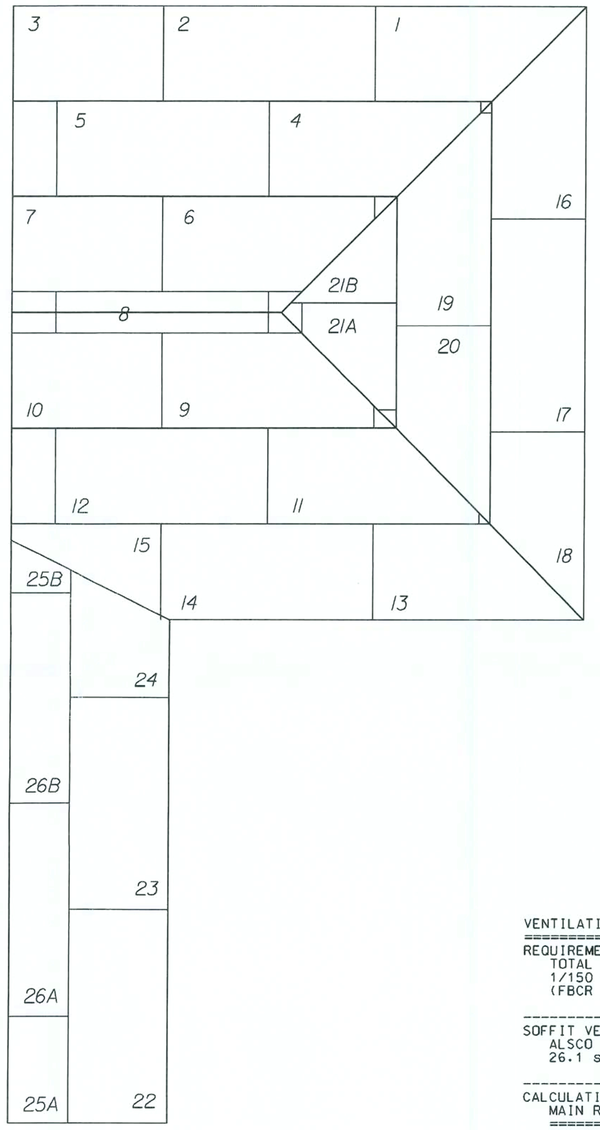
Elmer Bergman, P.E.
License No. 50158

JULY 24 2008

SHEET:
4V

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:

52 [MAIN] + 26 [GARAGE] = 78

VENTILATION OF ATTIC SPACE: SUNBURY 3V

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
1200 SF / 150 = 8.0 SF VENTILATION REQUIRED

SOFFIT: 128 L.F. SOFFIT VENT
128 LF @ 19.5 si/LF = 2496.0 si
2496.0 si / 144 si PER SF = 17.33 SF ACTUAL

GARAGE ROOF
434 SF / 150 = 2.89 SF VENTILATION REQUIRED

SOFFIT: 58 L.F. SOFFIT VENT
58 LF @ 19.5 si/LF = 1131.0 si
1131.0 si / 144 si PER SF = 7.85 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.

REVISIONS :
06-13-06 REV. ATTIC VENTILATION CALCS.
REVISED 05-07-07

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FLORIDA:
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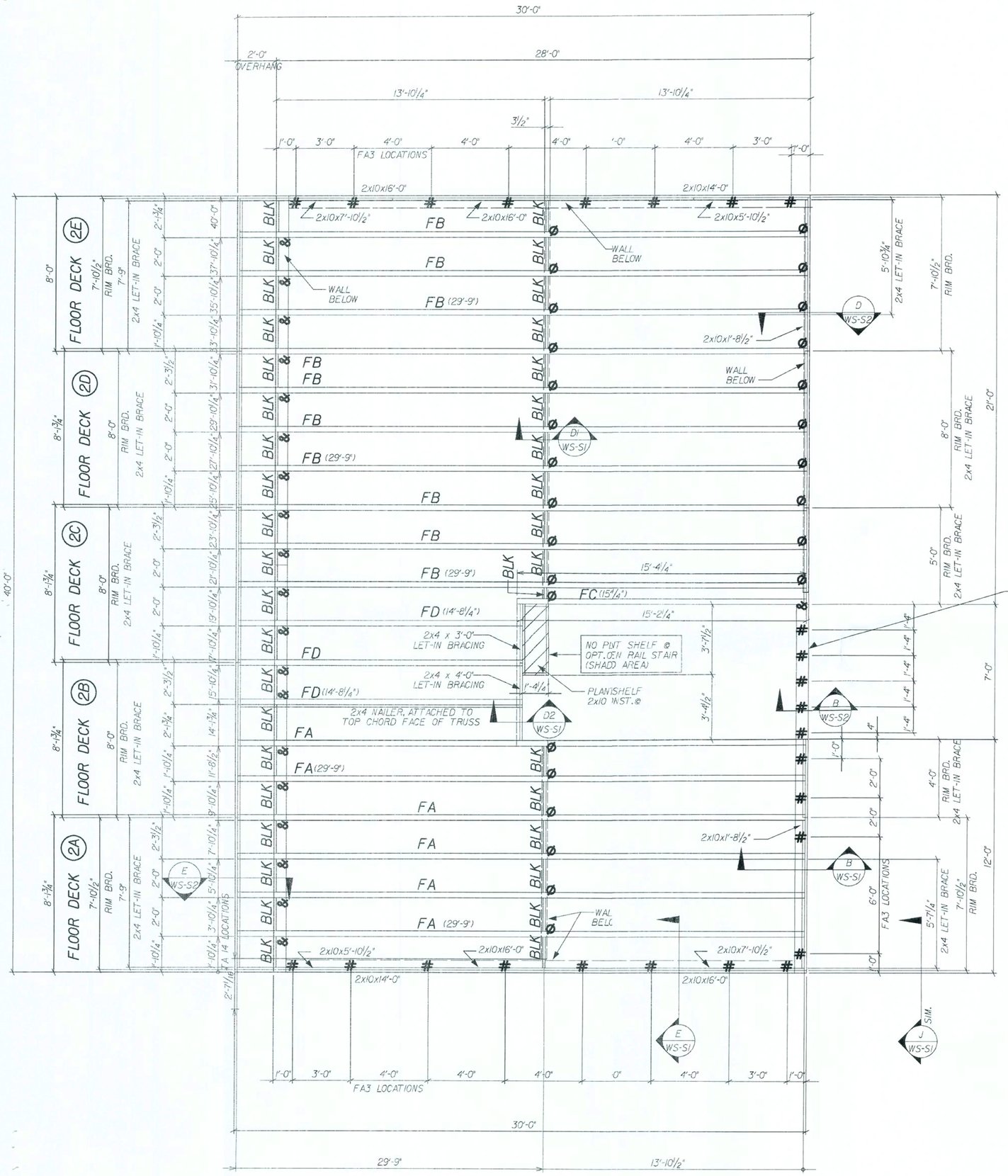
P:\TNhouses_05\sunbury\sfd\sunrs1

AMERICANA | ROOF LAYOUT
SUNBURY
ELEVATION "V"
DRAWN BY: GARAGE: RIGHT
RELEASE DATE: 03-20-06
PLOT DATE: 22 FEB 2008 13:19:13

SHEET: RS/V



ERECTION/INSTALLATION NOTES

WARNING!:

THE ERECTION/INSTALLATION CONTRACTOR SHOULD PROVIDE ADEQUATE RIGGING (CRANE, TAGLINES, SPREADER BARS) FOR SUFFICIENT CONTROL DURING LIFTING AND PLACEMENT TO ASSURE SAFETY TO PERSONNEL AND TO PREVENT DAMAGE TO FLOOR DECK PANELS AND PROPERTY.

NOTE:

ALL FLOOR DECK PANELS UP TO 30'0": KEEP LINE ANGLE AT CRANING POINTS AT 60° OR LESS.

ALL FLOOR DECK PANELS 30'0" TO 60'0": ATTACH FLOOR DECK PANEL TO SPREADER BAR WITH LINES THAT SLOPE INWARD OR "TOE-IN". LINES THAT "TOE-OUT" COULD CAUSE FLOOR DECK PANEL TO BUCKLE.

FLOOR FRAMING NOTES:

9¼" DEEP WOOD FLOOR TRUSSES @ 24" O.C., U.N.O.

2x10 WOOD RIM BOARD

DESIGN LOADS:
- TC LIVE LOAD = 40 psf
- TC DEAD LOAD = 10 psf
- BC DEAD LOAD = 5 psf
- TOTAL LOAD = 55 psf

DEFLECTION:
- LL = L/360
- TL = L/240

ROOF LOADS ASSUMED TO BE BEARING ON PERIMETER WALLS ONLY.

FLOOR SHEATHING:
¾" T&G WOOD DECKING GLUED & NAILED w/ 7d x 2¼" SCREW SHANK NAIL @ 4" O.C. EDGES AND 8" O.C. FIELD (TYP.) or 16ga. x 1¾" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD. SEE SHEET * FDO. GLUE MUST BE INCLUDED IN THE GROOVE OF EACH PANEL AND BTWN SHEATHING AND TRUSSES.

FLOOR CONNECTORS:

\# FA3, RIM BOARD CONNECTION DETAIL * B/WS-S1 & LADDER TRUSS CONNECTION DETAIL * E/WS-S1

Ø TYPICAL ATTACHMENT TO BEARING WALL w/ (2) 10d NAILS, TOE-NAILED. SEE DETAIL D/WS-S1

BLK SOLID WOOD FIRE BLOCKING SEE DETAIL F/WS-S1.

* LPTA, SEE DETAIL SHEET B/WS-S2

& TAI4, SEE DETAIL SHEET E/WS-S2

REVISED 05-02-07 NAIL SPACING

FLOOR FRAMING:

ITEM	DESCRIPTION
RIM BRD.	2 x 10
FA - FD	9¼" WOOD TRUSS

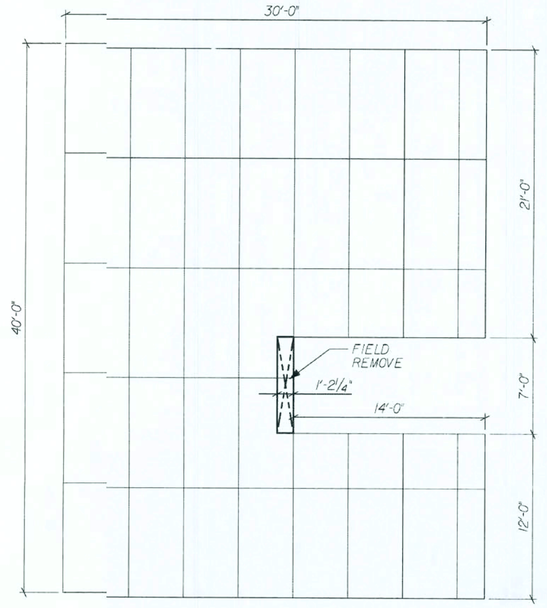
FA3 @ STAIRWAY

ELEVATION G, I, J, L, M, R, T, V ONLY

ATTACH WALL TO BLOCK w/ FA3 @ 16" O.C..

ELEVATION H, S ONLY

INSTALL NO FA3



38 SHEETS - 4x8 SHEATHING

SECOND FLOOR SHEATHING LAYOUT

REVISIONS :	
09-28-06	ADDED RUNNING DIM'S FOR TAI4
02/16/07	CHANGE LPTA'S TO FA3
04-24-07	REMOVED GABLE TRUSS
12-12-07	ADDED FE TRUSSES
12-12-07	ADDED 2x10 FOR ROOF LOAD
3-10-08	REMOVED CRANING BLOCKS
4-30-08	REMOVED FE TRUSSES (T.J.M.)
08-14-07	REV. CODE INFORMATION

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

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AMERICANA — FRAMING PLAN

SUNBURY

2nd FLOOR FRAMING PLAN

DRAWN BY: J. PITCOCK | GARAGE: RIGHT | 125 MPH

RELEASE DATE: 02/15/07

07.456.35

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

Elmer Bergman, P.E.
License No. 50158

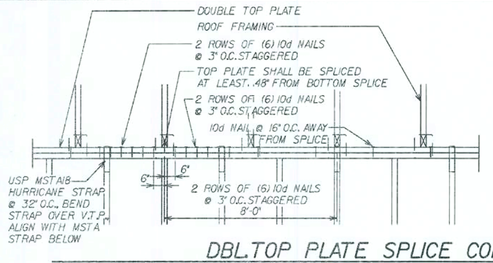
JUL 24 2008

PLOT DATE: 30 APR 2008

SHEET: FT2

g:\misc\houses\fsunbury\hordev\fjh\sun125f12

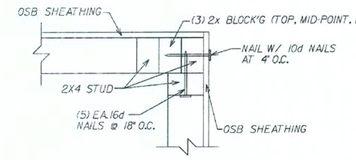
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



DBL.TOP PLATE SPLICE CONN.

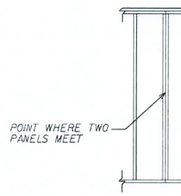
REVISED 02-15-07 : MST/A18 STRAP

SCALE: N.T.S.



B TOP CORNER DETAIL

SCALE: N.T.S.



NOTES:
16d NAILS FASTENED @ 12" O.C. BOTH SIDES

THERE CAN EXIST UP TO A 1/2" WIDE GAP BETWEEN STUDS, WHICH CAN BE SHIMMED IN THE FIELD.

A WALL JOINT DETAIL

SCALE: N.T.S.

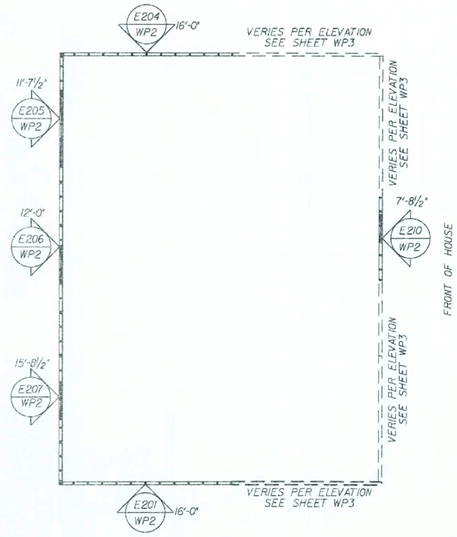
WP WALL STRAP KEY

(UNDER SHEATHING)

- (S1) - RSPT4

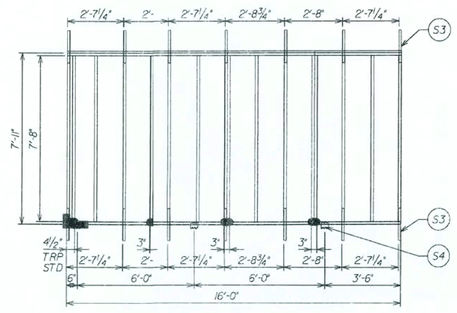
(ON TOP OF SHEATHING)

- (S2) - MSTA12 (BENT)
- (S3) - MSTA18
- (S4) - MP6F
- (S5) - MSTA30
- (S6) - MSTA24

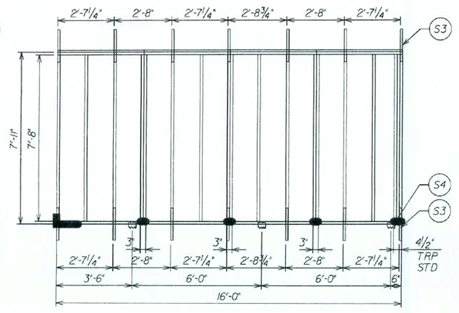


SECOND FLOOR WALL PANEL LAYOUT

ALL ELEVATIONS



PANEL E201



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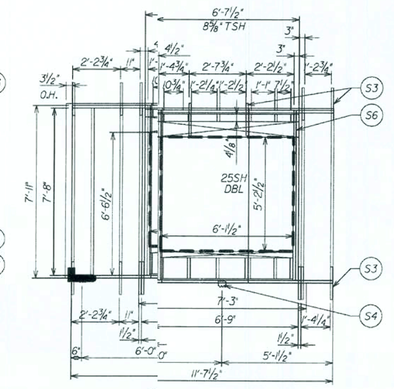

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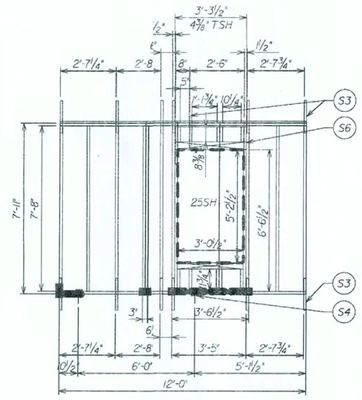
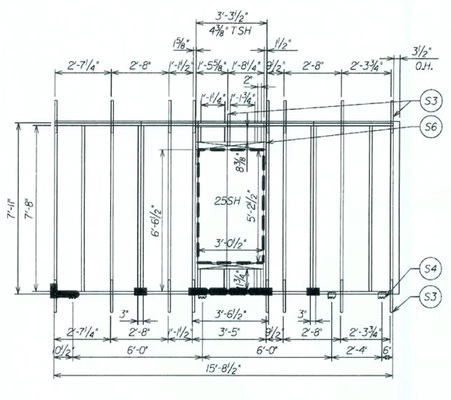
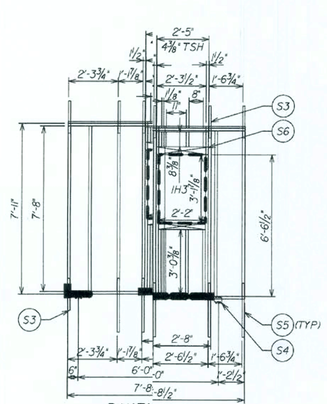


PIEL E206



PANEL E207



PANEL E210

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REVISIONS :

Maronda Homes

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

05

G:\MH\Houses\Sunbury\Border\right\sunbury-4bwp2

AMERICANA | WALL PANEL LAYOUT

SUNBURY

ALL ELEVATIONS

DRAWN BY: J.LEHNER | GARAGE: RIGHT

RELEASE DATE: 6/28/2007

09-5923

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

Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

WP2

PLOT DATE: 30 AUG 2007

WALL STRAP KEY

(UNDER SHEATHING)

(S1) - RSPT4

(ON TOP OF SHEATHING)

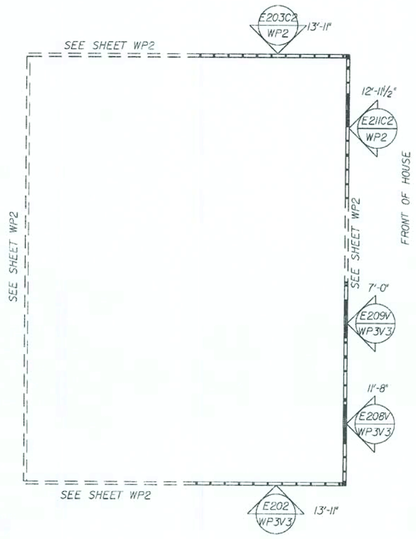
(S2) - MSTA12 (BENT)

(S3) - MSTA18

(S4) - MP6F

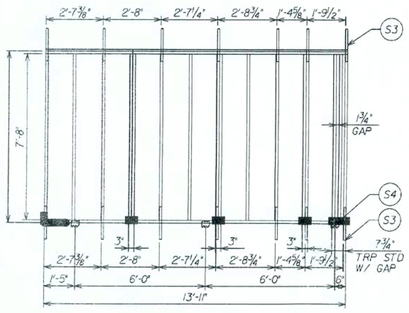
(S5) - MSTA30

(S6) - MSTA24



SECOND FLOOR WALL PANEL LAYOUT

ELEVATION "V" 3 BEDROOM



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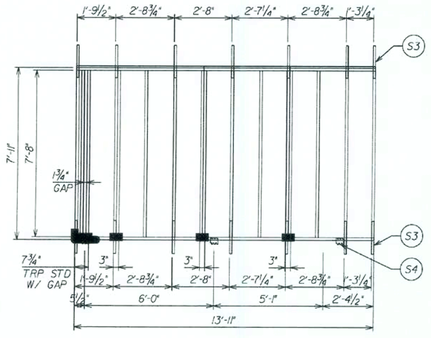

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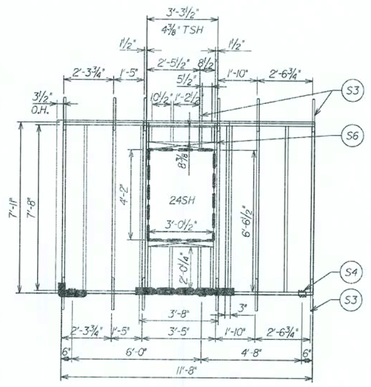

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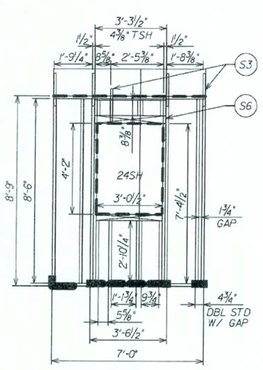

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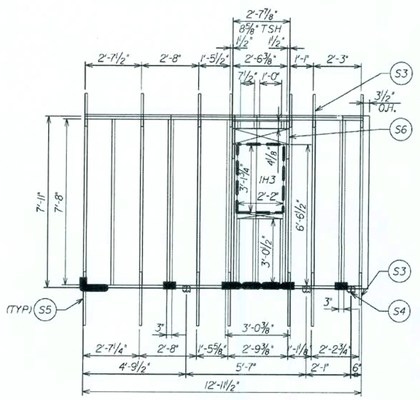

PANEL E211C2

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

REVISIONS :

AMERICANA | WALL PANEL LAYOUT

SUNBURY

ELEVATION "V" 3 BEDROOM

DRAWN BY: E.JONES | GARAGE: RIGHT

RELEASE DATE: 01/23/07

105

g:\mfg\Houses\V\Sunbury\Border\V1gif\w_Standard3

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Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

WP3

PLOT DATE: 30 AUG 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL TRUSS NOTES:

PROVIDE TRUSS BRACING PER TRUSS ENGINEERING AND TPIHIB-91

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

USP HARDWARE - 160%

MARK	PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
N	16d NAILS - (2) TOP CHORD NAILS / (2) BOTTOM CHORD NAILS			
1	HUS 26	USP	(14) 16d HEADER (6) 16d TRUSS	1925
2	HUS 28	USP	(22) 16d HEADER (8) 16d TRUSS	2570
3	JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
4	MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
5	MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
6	SKH 26 LVR	USP	HEADER (6) 16d JACK (6) 10d X 1½"	1085
7	SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
8	SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
9	SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
10	THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
11	THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
12	THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
13	THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
14	THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
15	THJ 26	CLEVELAND	H(P(T)10d-HEADER(16)16d JACK (5) 10d x1½"	1010
16	(2) MTW 12	USP	(14) 10d (14) 10d x 1-1/2	2060
17	(2) MUGT15	USP	THREADED ROD (1) 5/8 GIRDER (22) 10d X 1½"	8330
18	(2) RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	2320
19	(2) MSTA24	USP	(18) 10d (18) 10d	3280
20	(2) RT16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	2060
21	C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
22	FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
23	HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
24	HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
25	HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
26	HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
27	HTW24	USP	(20) 10d	1325
28	HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)3½"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9790
29	HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)3½"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9860
30	KST227 STRP ANC.	USP	(34) 16d	4750
31	LFTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1½"	1250
32	LSTA36	USP	(22) 10d X 1½"	1640
33	LTWI2	USP	(12) 10d	670
34	LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3½" EMBED. (10) 10d X 1½"STRAP	1890
35	LBP12 BEARING PLT	USP	½" J-BOLT	2515
36	LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
37	MSTAI2	USP	(10) 10d	1015
38	MSTAI8	USP	(14) 10d	1420
39	MSTA24	USP	(18) 10d	1640
40	MSTA30	USP	(22) 10d	2065
41	MTWI2	USP	(14) 10d	1030
42	MTWI8	USP	(14) 10d	1030
43	MTS27B STRP ANC	USP	(24) 16d (1)¾" ANCHOR BOLT 3¼" EMBEDDED	4635
44	MUGT15	USP	(22) 10d (1)⅝" ANCHOR BOLT 3¾" EMBEDDED	4165
45	NP37 3½X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.-(6) 10d X 1½"	
46	PA 28	USP	(15) 16d	3360
47	RT16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
48	RT16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
49	RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1160
50	RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
51	RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
52	TA 12	USP	(5) 10d x 1½"	790
53	TA 14	USP	(7) 10d x 1½"	1110
54	TA 18	USP	(8) 10d x 1½"	1205
55	(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
56	TA 24	USP	(8) 10d x 1½"	1205
57	(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
58	USC63	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	11150
59	USC3F	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	11150
60	USC73	USP	TRUSS (8) 16d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	11150
61	UGTS63	USP	TRUSS (8) 16d (2)¾" ANC. BOLTS 2¾" EMBEDDED	6170
62	(2) HTW24	USP	(20) 10d (20) 10d	2650

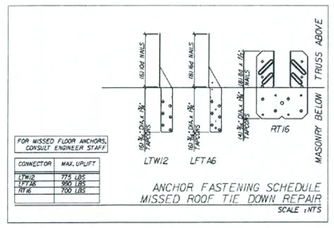
TRUSS HARDWARE SHEDULE

TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LE	UPLIFT MID	UPLIFT RIGHT	STRAP LEFT	STRAP MID	STRAP RIGHT
HI	HIP	1	3		300	47		47
HIA	HIP	1	2		237	54		54
H2S	HIP	1	2		285	47		47
H3S	HIP	1	1		267	47		47
HGRDS	1-PLY HIP GIRDER	1	12		1245	20		20
HGRDB6	1-PLY HIP GIRDER	1	8		876	54		54
HSI	HIP SCISSOR	1	2		296	47		47
HS2	HIP SCISSOR	1	2		281	47		47
HS3	HIP SCISSOR	1	2		263	47		47
HSGRD	2-PLY HIP GIRDER	1	12		1259	18		18
JI	END JACK	14	1		100	50		3
JIB6	END JACK	14	1		97	54		3
JIS	END JACK	1	1		22	33		N
J2	CORNER JACK	7	1		95	50		N
J2B6	CORNER JACK	7	1		91	54		N
J2S	CORNER JACK	1	1		62	50		N
J3	CORNER JACK	7	1		44	50		N
J3B6	CORNER JACK	7	1		37	54		N
J3S	CORNER JACK	1	2		160	50		N
J4	CORNER JACK	7	1		7	50		N
J4B6	CORNER JACK	7	1		11	54		N
JGRD	KING JACK	4	12		237	24		15
JGRDB6	KING JACK	4	12		218	24		15
JSI	END JACK	9	10		102	50		3
JS2	CORNER JACK	4	5		98	50		N
JS3	CORNER JACK	4	5		48	50		N
JS4	CORNER JACK	4	5		7	50		N
JSGRD	KING JACK	2	12		248	24		15
M4	MONO TRUSS	10	2		159	33		50
RG2	GABLE	1	12		165	50		50
TI	COMMON	6	31		309	47		47
TIA	COMMON	4	21		247	54		54
TIAS	COMMON	3	21		164	54		54
V2-V2B	VALLEY TRUSS	←			33	→		
V4	VALLEY TRUSS	←			33	→		

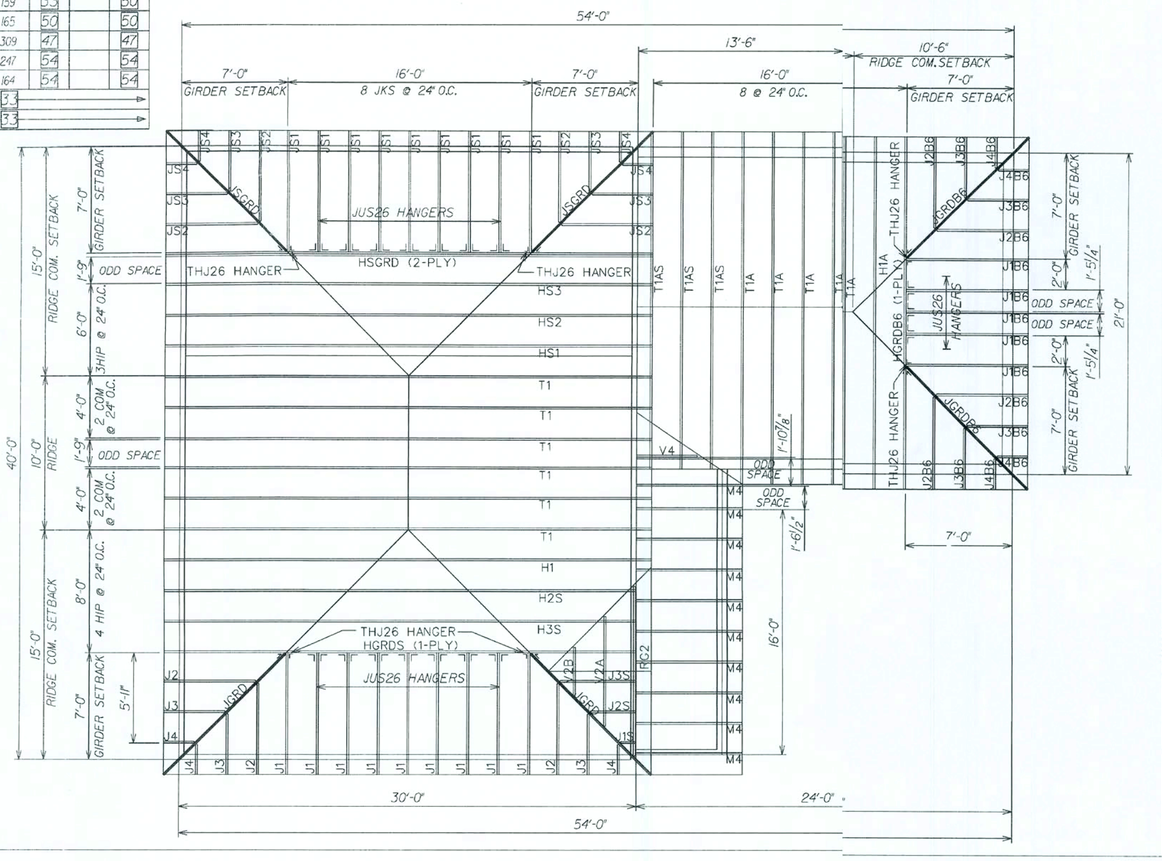
GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 125 mph WINDLOAD. ALL PRESSURES WERE CALCULATED USING COMPONENTS AND CLADDING
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-B1

REVISED 1-18-08



ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR
SCALE: NTS



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REVISIONS :
10-01-05 FBC 2004 : RESIDENTIAL

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

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

AMERICANA | INFO SHEET
SUNBURY
ELEVATION "V" | 125 MPH
DRAWN BY: K WARD | GARAGE: RIGHT
RELEASE DATE: 12/20/07
DATA\houses_05\sunbury\V25\mfbk_1r\sunv125r1.r1

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

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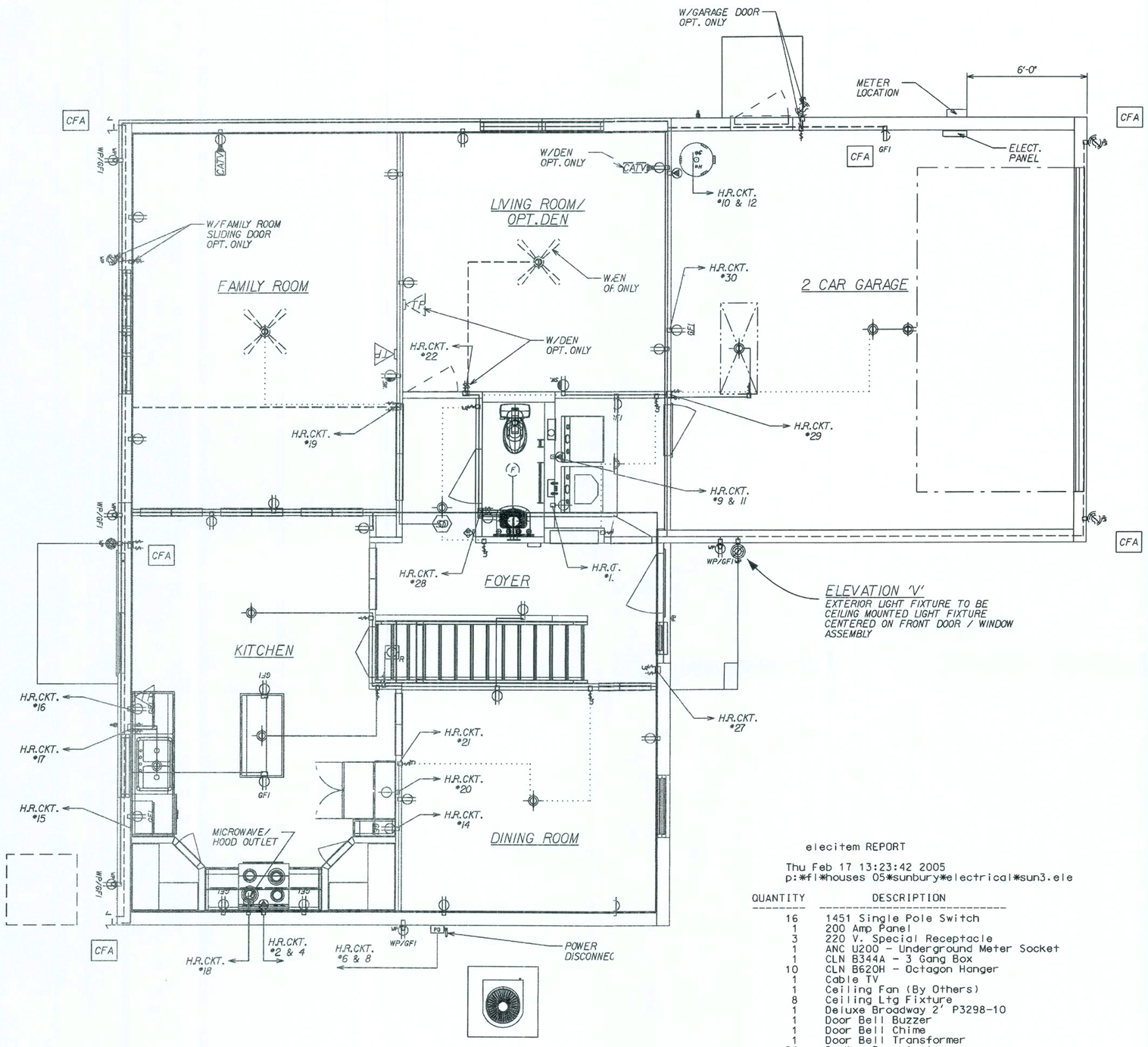
License No. 50158
JUL 24 2008

SHEET:
TRI V

18 JAN 2008 13:47:11

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



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	15A	GFI Receptacle
SW.	SW2	Switched Receptacle
		220 V. Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg. Fixture
F	F	Exhaust Fan
CATV	VIA3	Cable TV
TEL	TEL	Telephone Outlet
		Flood Lights
F L	L	Exhaust Fan / Light Combo
S CO		Smoke / Carbon Monoxide Combo

REVISED 03-19-07

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elecitem REPORT

Thu Feb 17 13:23:42 2005
p:*fl*houses 05*sunbury*electrical*sun3.ele

QUANTITY	DESCRIPTION
16	1451 Single Pole Switch
1	200 Amp Panel
3	220 V. Special Receptacle
1	ANC U200 - Underground Meter Socket
1	CLN B344A - 3 Gang Box
10	CLN B620H - Octagon Hanger
1	Cable TV
1	Ceiling Fan (By Others)
8	Ceiling Ltg Fixture
1	Deluxe Broadway 2' P3298-10
1	Door Bell Buzzer
1	Door Bell Chime
1	Door Bell Transformer
24	Duplex Receptacle
1	Exhaust Fan
1	Front Door WP Lamp
4	G.F.I. Receptacle
1	H-7T-Rec Lht
5	MMWPRC MULTI-MAC MM400C-B WEATHER PROOF RECEPTICAL COVER
1	Power Disconnect Switch
52	RAC 7302 - 1 Gang BoX
5	RAC 7835 - 2 Gang Box
1	Rear Door WP Lamp
3	Single Receptacle
1	Smoke Detector
2	Switched Receptacle
2	Telephone Outlet
7	Three Way Switch

elecinth REPORT

Thu Feb 17 13:23:42 2005
p:*fl*houses 05*sunbury*electrical*sun3.ele

QUANTITY	DESCRIPTION
142'	10 Gauge/3 Cond. Copper
487'	12 Gauge/2 Cond. Copper
1276'	14 Gauge/2 Cond. Copper
200'	14 Gauge/3 Cond. Copper
135'	6 Gauge/3 Cond. Copper

REVISIONS :
12-19-06 ELIM. SMOKE DETECT. HOME RUN.
1-29-07 MOVE PWR.D.S.TO A/C UNIT & GFI
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM

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FLORIDA
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AMERICANA | 1st. FLR. ELECTRICAL

SUNBURY-NEWBERRY

3 BEDROOM | GARAGE: RIGHT

DRAWN BY: | RELEASE DATE: / /

SHEET: ELI

P:\FN\houses_05\sunbury\electrical\sunell

PLOT DATE: 13 JUN 2008 14:08:46

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

ELECTRICAL LOAD CALCULATIONS

11/28/06

MODEL: SUNBURY / NEWBERRY

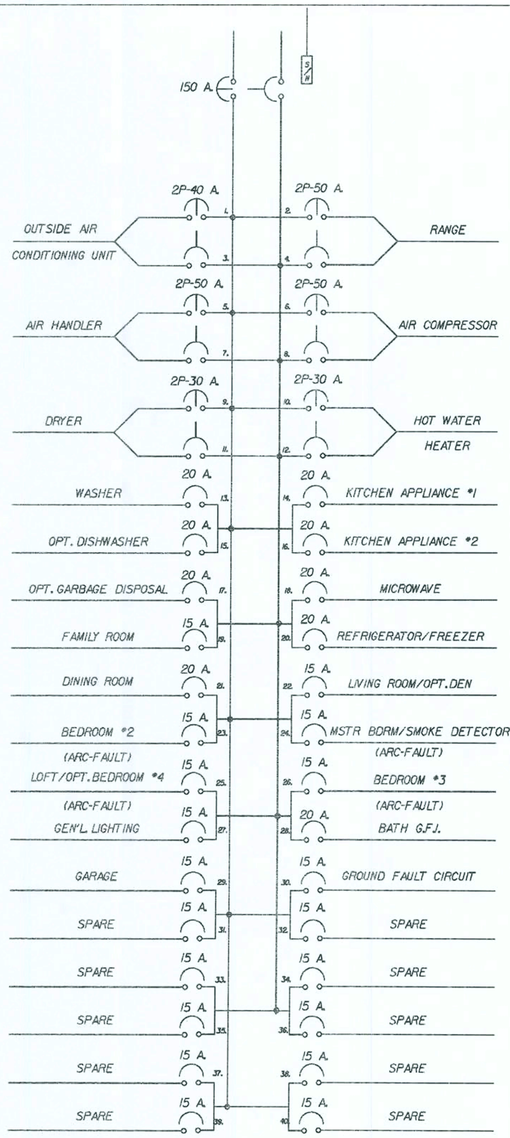
	VOLT/AMPS
LARGEST LOAD:HEAT PUMPW/SUPPLEMENTAL HEAT	**10270**
SQUARE FEET LIVING AREA 2223 @ 3 VOLT/AMPS	6669
SMALL APPLIANCE CIRCUITS	3000
LAUNDRY CIRCUIT	1500
OVEN	11700
WATER HEATER	4500
DISHWASHER	1500
DRYER	5000
DISPOSAL	500
TOTAL LOAD	**34369**

FIRST 10KVA @100%	10000
REMAINDER @40%	9747.6
LARGEST LOAD	10270

TOTAL LOAD **30018** V.A./240 VOLTS= **125** AMPS

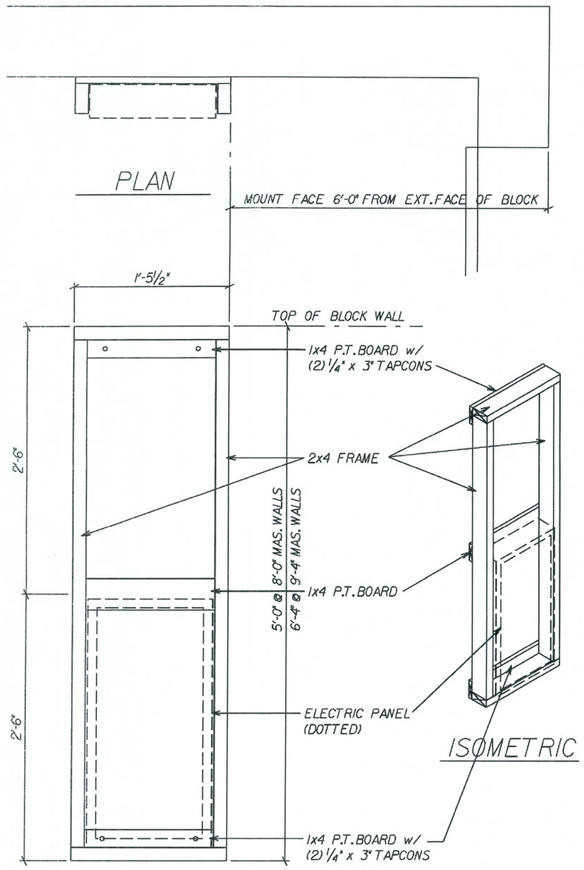
SERVICE SIZE: 150 AMPS

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



MAIN BREAKER LOAD CENTER

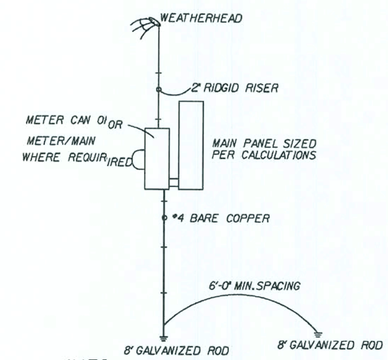
NOTE:
IF LOCAL CODE REQUESTS A LOCK-DOG DEVICE ON BREAKERS FOR APPLIANCES, FIELD WILL SUPPLY TO COMPLY



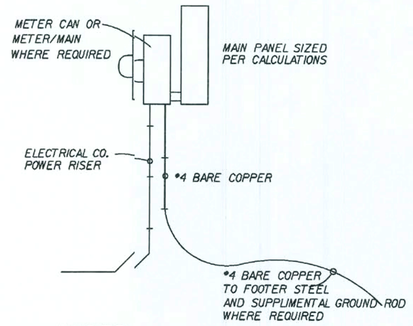
ELECTRIC PANEL FRAME

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

SCALE: 1" = 1'-0"

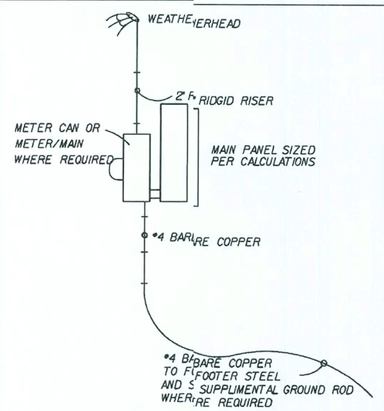


OVERHEAD SERV.

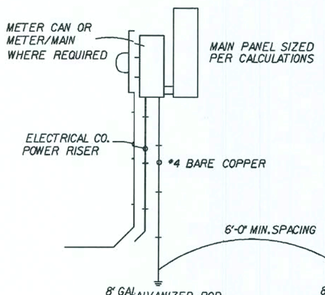


UNDER GROUND SERV.

REVISED 06-06-06
SPACING REQUIREMENT



OVERHEAD SERV.



UNDER GROUND SERV.

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

REVISED 06-06-06
SPACING REQUIREMENT

REVISIONS :
05-23-06 REV. BREAKER LOAD CENTER
05-24-06 ADD NOTE FOR LOCK-DOG
11-28-06 REV. ELECT. LOAD CALC.
12-19-06 ELIM. SMOKE DETECT. HOME RUN.
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM
3-02-07-REV. DINING RM. CKT. FROM 15A. TO 20A.
03-10-08 REV. DW & GD BKR. TO 20 AMP.; KW

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

AMERICANA | ELECTRICAL DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 09-11-03

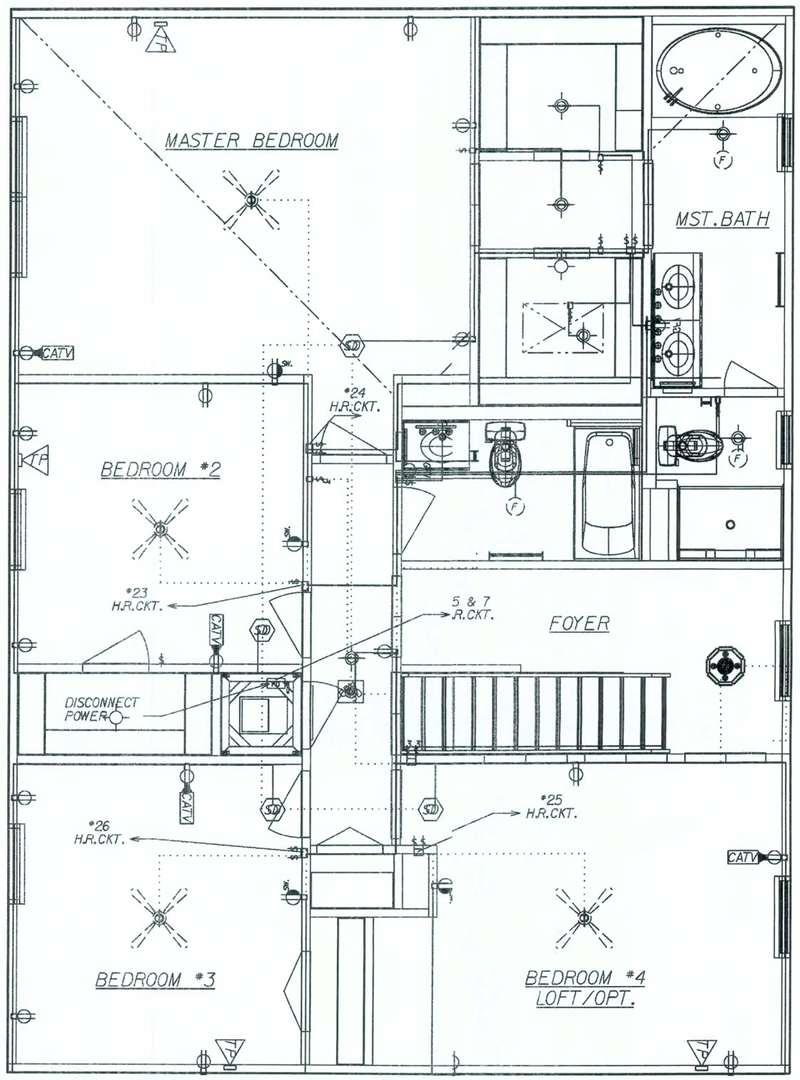
14:08:47

PLOT DATE: 13 JUN 2008

p:\1houses..05\sunbury\electrical\sun.ela

SHEET: ELA

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



elecitem REPORT

Mon Jan 10 11:41:18 2005
p:*fl*houses 05*sunbury*electrical*sun3-r.el2

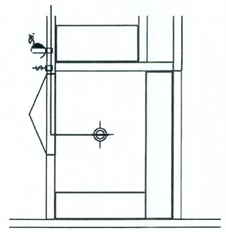
QUANTITY	DESCRIPTION
17	1451 Single Pole Switch
1	CLN B344A - 3 Gang Box
9	CLN B620H - Octagon Hanger
4	Cable TV
4	Ceiling Fan (By Others)
6	Ceiling Ltg Fixture
1	Deluxe Broadway 2' P3298-10
1	Deluxe Broadway 3' P3299-11
21	Duplex Receptacle
3	Exhaust Fan
1	Foyer Chandelier
1	H-7T-Rec Lht
1	Power Disconnect Switch
30	RAC 7302 - 1 Gang BoX
6	RAC 7835 - 2 Gang Box
4	Smoke Detector
4	Switched Receptacle
4	Telephone Outlet
3	Three Way Switch
1	Smoke/Carbon Monoxide Detector

elecinth REPORT

Ion Jan 10 11:41:18 2005
p:*fl*houses 05*sunbury*electrical*sun3-r.el2

QUITITY	DESCRIPTION
71'	10 Gauge/3 Cond. Copper
40'	12 Gauge/2 Cond. Copper
075'	14 Gauge/2 Cond. Copper
306'	14 Gauge/3 Cond. Copper

NEWBERRY - OPTION



ADD ELECTRICAL SUPPLIES ONLY WITH BEDROOM *3 CLOSET.

1	SP1-W	160035.0008	1 GANG SWITCH CVR PLATE
1	7302	160010.0030	1 Gang NAIL ON BOX
1	660-WG	160015.0001	15A 120V SINGLE POLE SWITCH
1	B620H	160010.0027	Octagon Hanger
1	P3605-30SW	160025.0264	6" GLOBE CLOSE TO CEILING LIGHT FIXTURE
50'	14-2W/G-NM	160005.0003	14 Gauge/2 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
PB	PB	Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
S	S	Single Pole Switch
3	3	Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	13Ø	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
E		Exhaust Fan / Light Combo
CO		Smoke / Carbon Monoxide Combo

REVISED 03-19-07

REVISIONS :
02-03-06 REVISED MASTER BATH LIGHT
06-14-06 REV. MASTER BATH CLOSET ELECT.
01-29-07 REV. MSTR. BA. SMOKE DET. LOC. ELECT.
12-17-07 ADD. NEWB. CLOSET OPTION. A. H.

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AMERICANA | 2nd. FLR. ELECTRICAL

SUNBURY-NEWBERRY

3 BEDROOM

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: / /

p:\fl\houses_05\sunbury\electrical\sun3e12

14:08:48

PLOT DATE: 13 JUN 2008

SHEET: EL2

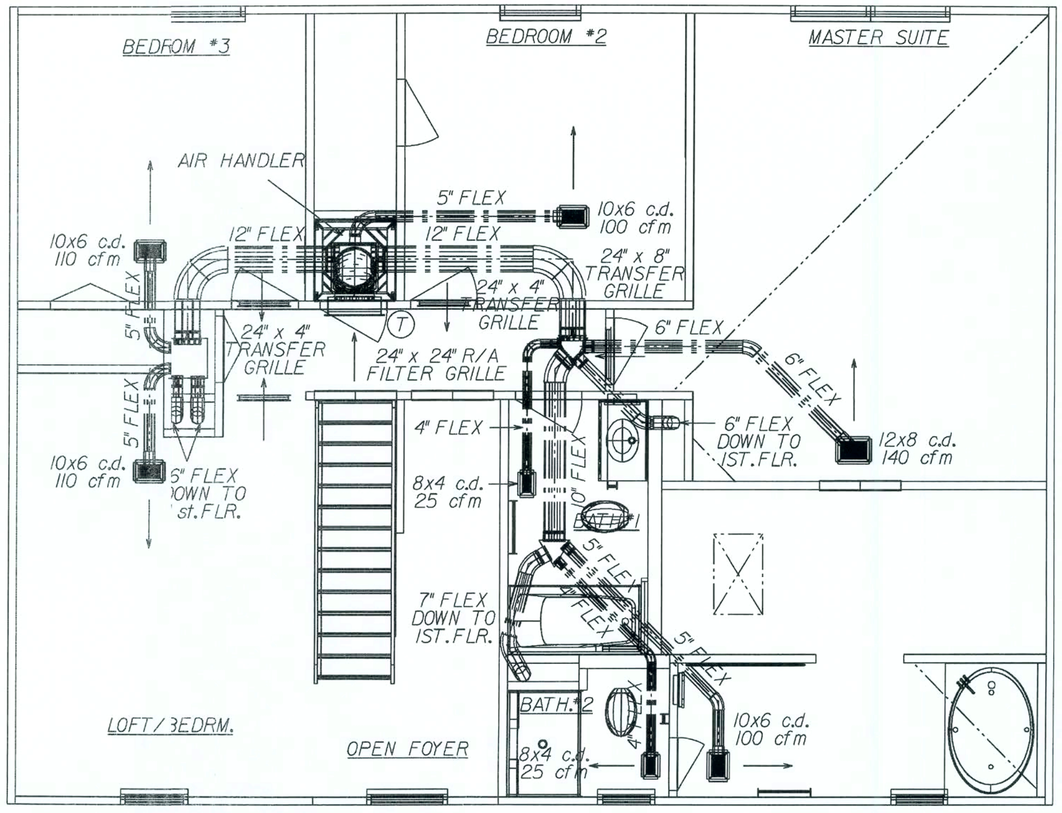
FLORIDA BUILDING CODE 2004 : RESIDENTIAL

MECHANICAL EQUIPMENT :

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 671-70 CFM (2)
SIZES OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT. STATIC .60 - 1240 CFM M

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

* USE WITH 13 SEER EQUIPMENT *



SECOND FLOOR PLAN
SCALE 1/4" = 1' - 0"

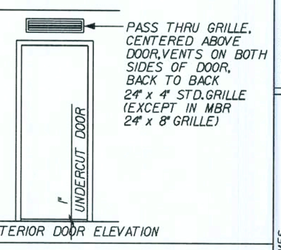
GENERAL MECHANICAL NOTES:

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

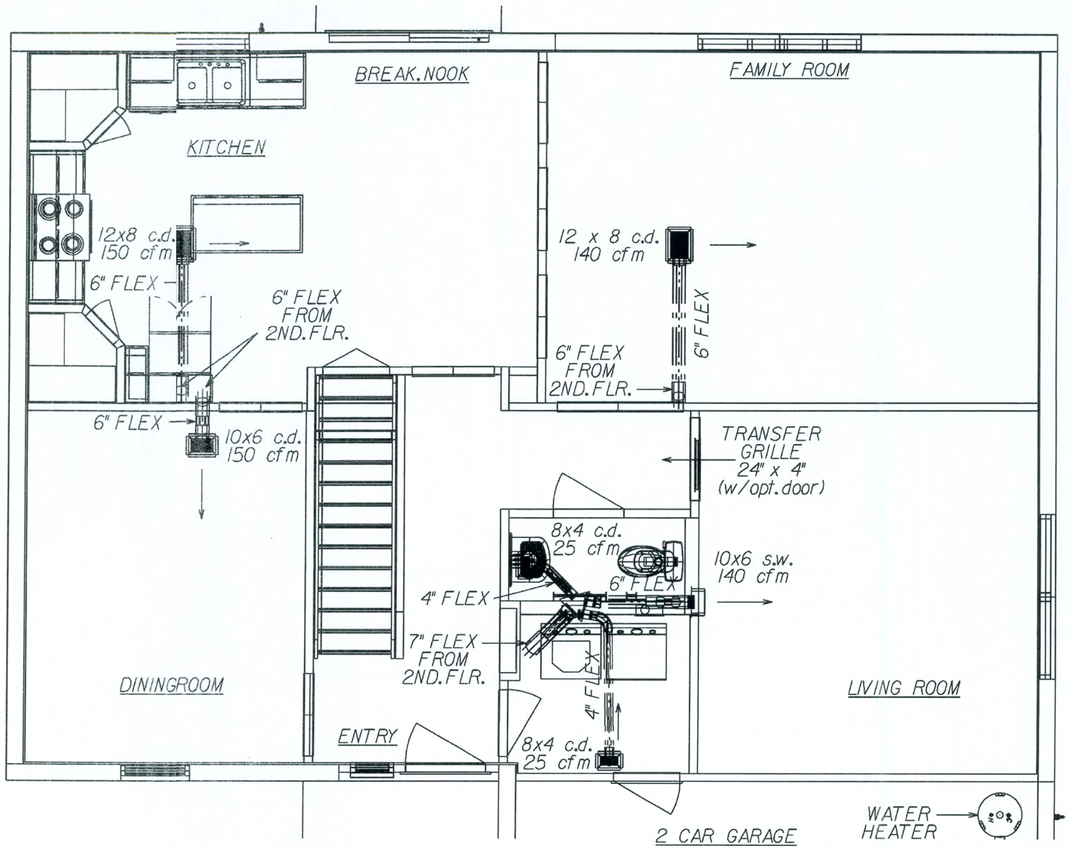
SEE ELECTRIC PLANS FOR EXHAUST FAN LOCATIONS IN BATH AREAS.

SEE FLOOR PLAN FOR CLOTHES DRYER VENT LOCATION.

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



INTERIOR DOOR ELEVATION



FIRST FLOOR PLAN
SCALE 1/4" = 1' - 0"

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :
REV. TRANSFER GRILLE @ M.B.R. 08/05/05
11-01-05 REMOVED ENG'S NOTE
11/28/05 REVISED HEATING SYSTEM T.J.T.
11/2/07 UPDATED TO 13 SEER EQUIP. TJM

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AMERICANA | REGISTER LAYOUT

SUNBURY-NEWBERRY

3 BEDROOM / LOFT

DRAWN BY: GARAGE: RIGHT T.J. TOOMEY

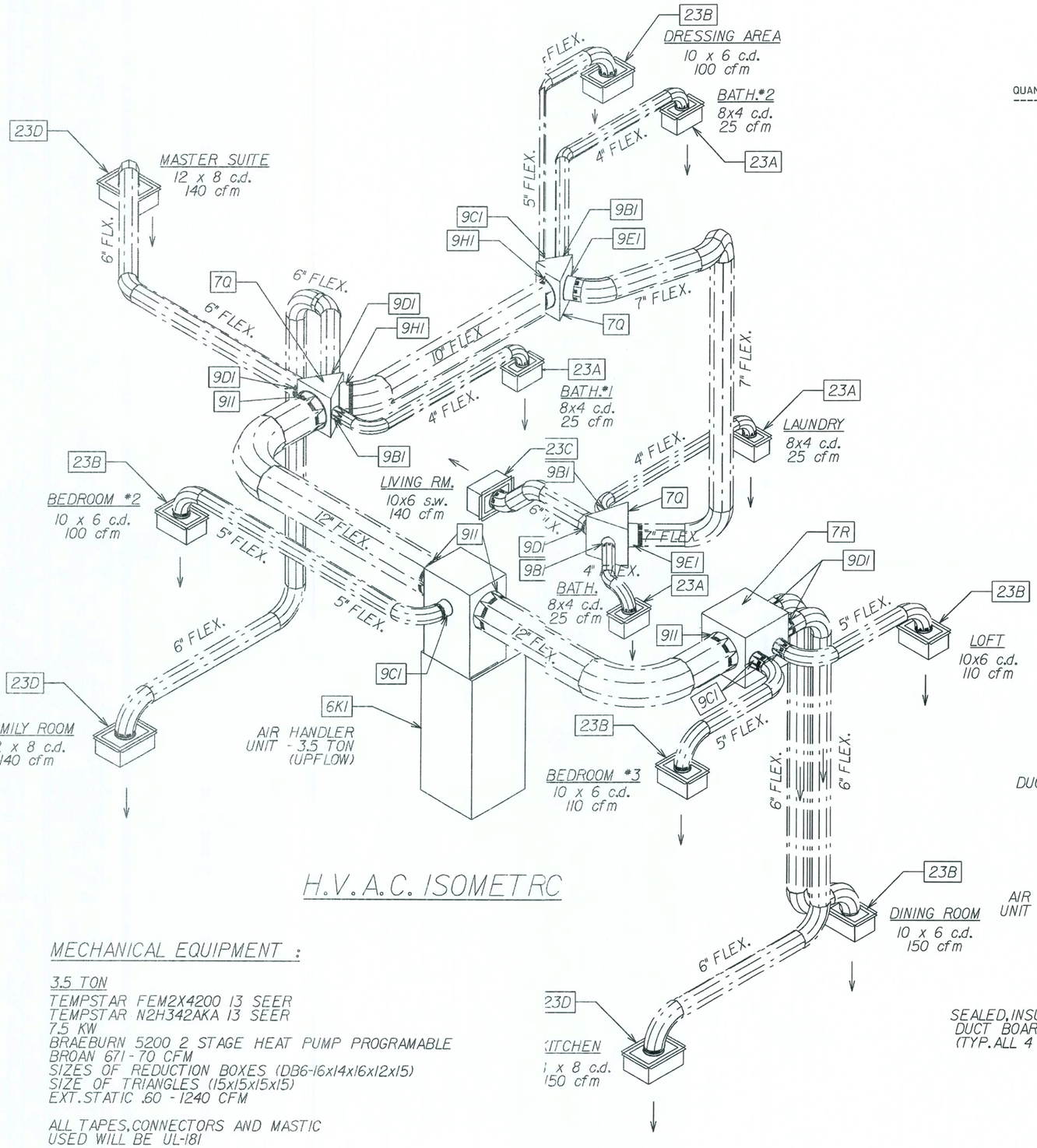
RELEASE DATE: 9/26/01

PLOT DATE: 22 FEB 2008 11:39:31

SHEET: HVA

P:\V1\houses_05\sunbury\hvac\sun13.hvg

* USE WITH 13 SEER EQUIPMENT *



H.V.A.C. ISOMETRC

hvacitem REPORT

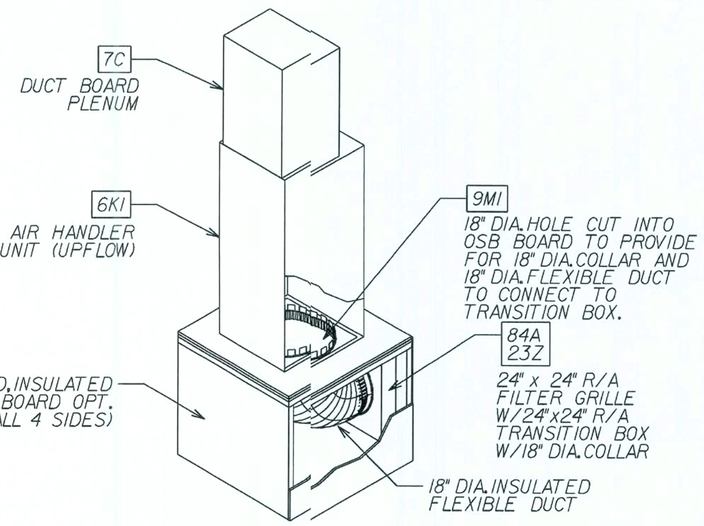
Tue Dec 26 16:45:47 2006
p:*fl*houses 05*sunbury*hvac*.*sunh.htg

QUANTITY			DESCRIPTION
4	23A	150045.0035	8x4 CEILING BOOT W/4" DIA. COLLAR
5	23B	150045.0036	10x6 CEILING BOOT W/5" DIA. COLLAR
1	23C	150045.0036	10x6 CEILING BOOT W/6" DIA. COLLAR
3	23D	150045.0038	12x8 CEILING BOOT W/6" DIA. COLLAR
1	23Z	150045.0046	24x24 R/A TRANSITION BOOT W/18" COLLAR
1'	3F10	150040.0097	10" FOIL FLEX R6
15'	3F12	150040.0098	12" FOIL FLEX R6
3'	3F18	150040.0138	18" FOIL FLEX R6
25'	3F4	150040.0091	4" FOIL FLEX R6
25'	3F5	150040.0092	5" FOIL FLEX R6
65'	3F6	150040.0093	6" FOIL FLEX R6
16'	3F7	150040.0094	7" FOIL FLEX R6
1	6K1	150005.0044	FEM2X4200A 13 SEER 3.5 TON AIR HANDLER UNIT
1	6Q1	150010.0104	N2H342AKA 13 SEER 3.5 TON CONDENSER
1	7C	150005.0110	19x133x30"H BOX PLENUM
3	7Q	150040.0118	DUCT PLENUM TRIANGLE
1	7R	150040.0111	18" SQUARE DUCT PLENUM
4	81A	150055.0041	24x4 TRANSFER GRILLE
4	81B	150045.0052	24x4 TRANSFER GRILLE FRAME
1	81C	150055.0078	24x8 TRANSFER GRILLE
1	81D	150045.0078	24x8 TRANSFER GRILLE FRAME
1	84A	150055.0032	24x24 RETURN AIR FILTER GRILLE
4	9B1	150040.0075	4" K-COLLAR/ROTH (4KC/413)
4	9C1	150040.0076	5" K-COLLAR/ROTH (5KC/413)
5	9D1	150040.0077	6" K-COLLAR/ROTH (6KC/413)
2	9E1	150040.0078	7" K-COLLAR/ROTH (7KC/413)
2	9H1	150040.0081	10" KK-COLLAR/ROTH (10KC/413)
4	9I1	150040.0082	12" KK-COLLAR/ROTH (12KC/413)
1	9M1	150040.0137	18" KK-COLLAR/ROTH (18KC/413)

MECHANICAL EQUIPMENT :

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 671-70 CFM
SIZES OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT.STATIC .60 - 1240 CFM

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



RETURN-AIR ISOMETRIC

REVISIONS :
11/28/05 REVISED HEATING SYSTEM T.J.T.
12/29/06 UPDATED TO 13 SEER TJM

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p:\fl\houses..05\sunbury\hvac\sunh13.iso

HVAC ISO | AMERICANA

SUNBURY-NEWBERRY

3 BEDROOM/LOFT

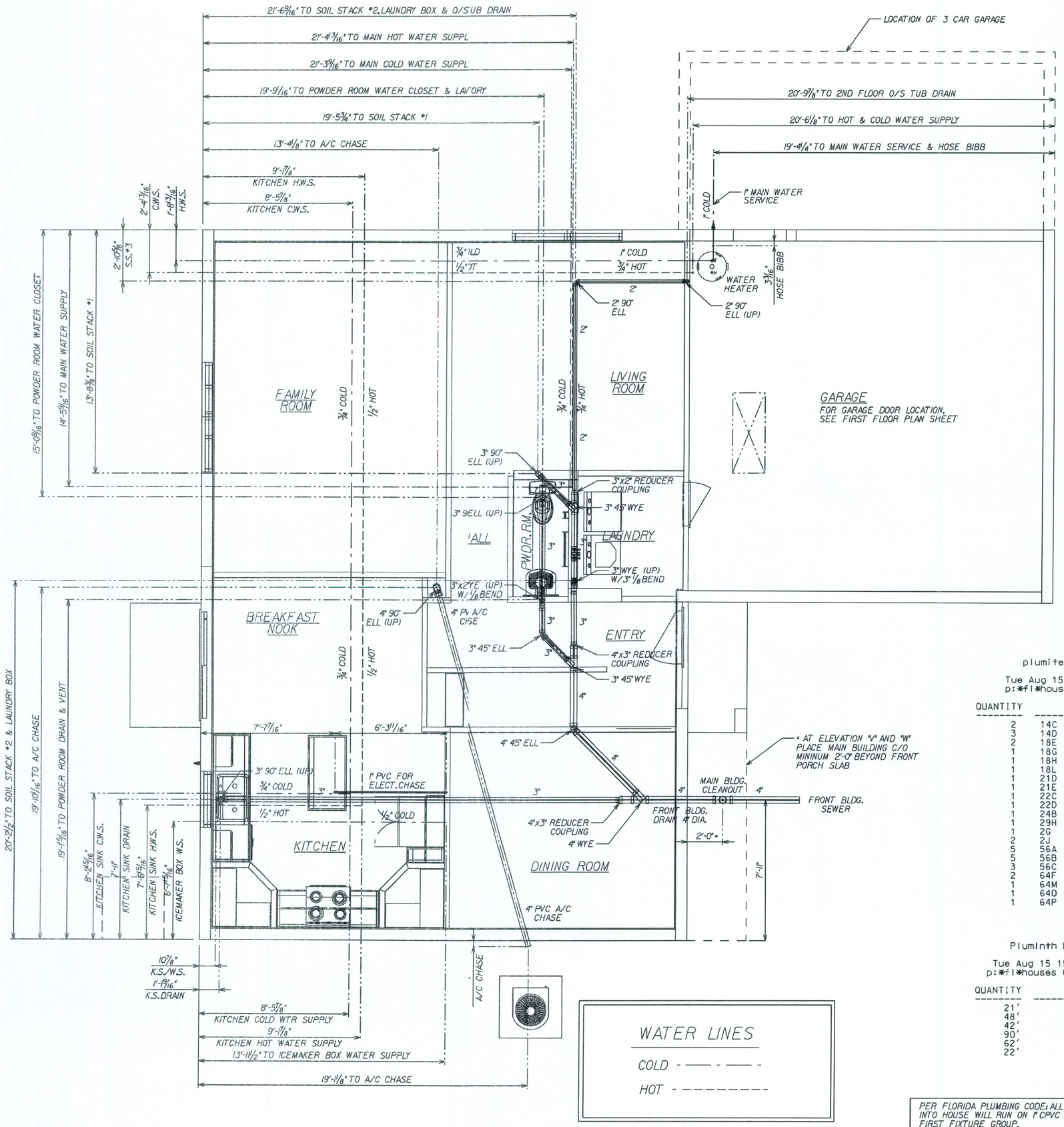
DRAWN BY: T.J.T. | GARAGE: RIGHT

RELEASE DATE: 9/9/99

PLOT DATE: 22 FEB 2008 11:39:32

SHEET: ISO-H

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



plumitem m REPORT

Tue Aug 15 15:17:27 2006
p:*fl*houses 05*sunbury*plumbing*sunbury.fp1

QUANTITY		DESCRIPTION	
2	14C	130005.0041	2" PVC 90 ELBOW
3	14D	130005.0066	3" PVC 90 ELBOW
2	18E	130005.0076	3" PVC 45 WYE
1	18G	130005.0063	3"x3"x2" PVC 45 WYE
1	18H	130005.0097	4" PVC 45 WYE
1	18L	130005.0081	4"x4"x3" PVC 45 WYE
1	21D	130005.0064	3" PVC 45 ELBOW
1	21E	130005.0083	4" PVC 45 ELBOW
1	22C	130005.0040	2" PVC 45 ST. ELBOW
1	22D	130005.0065	3" PVC 45 ST. ELBOW
1	24B	130005.0150	4" 2-WAY CLEANOUT TEE
1	29H	130005.0289	4x4 FEM ADPTR W/ C/O PLG.
1	2G	130005.0061	3x2 PVC REDUCER COUPLING
2	2J	130005.0082	4X3 REDUCER COUPLING
5	56A	150060.0199	1/2" CPVC 90 ELBOW
5	56B	130010.0007	3/4" CPVC 90 ELBOW
3	56C	130010.0057	1" CPVC 90 ELBOW
2	64F	130010.0037	3/4"X1/2"X3/4" CPVC TEE
1	64M	130010.0099	1x3/4x3/4 CPVC TEE
1	64O	130010.0061	1x1x1/2" CPVC TEE
1	64P	130010.0060	1x1x3/4" CPVC TEE

Pluminth R REPORT

Tue Aug 15 15:17:27 2006
p:*fl*houses 05*sunbury*plumbing*sunbury.fp1

QUANTITY		DESCRIPTION	
21'		130005.0047	2" PVC PIPE
48'		130005.0072	3" PVC PIPE
42'		130005.0091	4" PIPE
90'		130010.0012	3/4" CPVC PIPE
62'		130010.0025	.5" CPVC PIPE
22'		130010.0056	1" CPVC PIPE

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

REVISED 10-03-06

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

REVISED 08-15-05

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

06-07-06 ADDED 3CAR GARAGE LOCATION
06/26/06 REVISED AS PER DRAWINGS TJM
08/15/06 REV.CLEANOUT & BOM LIST TJM
09-25-06 ADDED GARAGE DOOR NOTE

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AMERICANA | UNDRGRND.PLMB.

SUNBURY-NEWBERRY

ALL ELEVATIONS

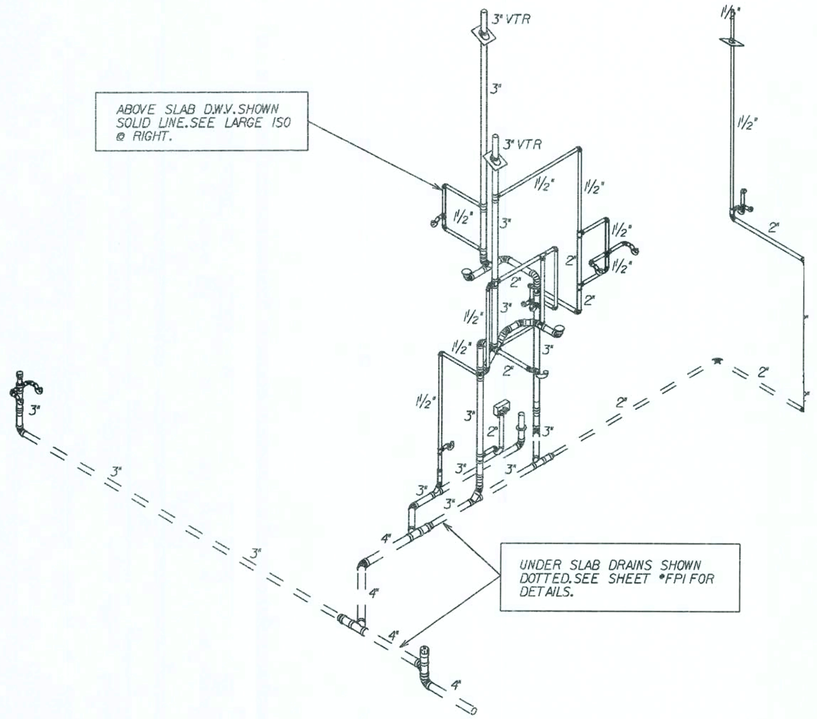
DRAWN BY: | GARAGE: RIGHT | T.J.T.

RELEASE DATE: 09/09/99

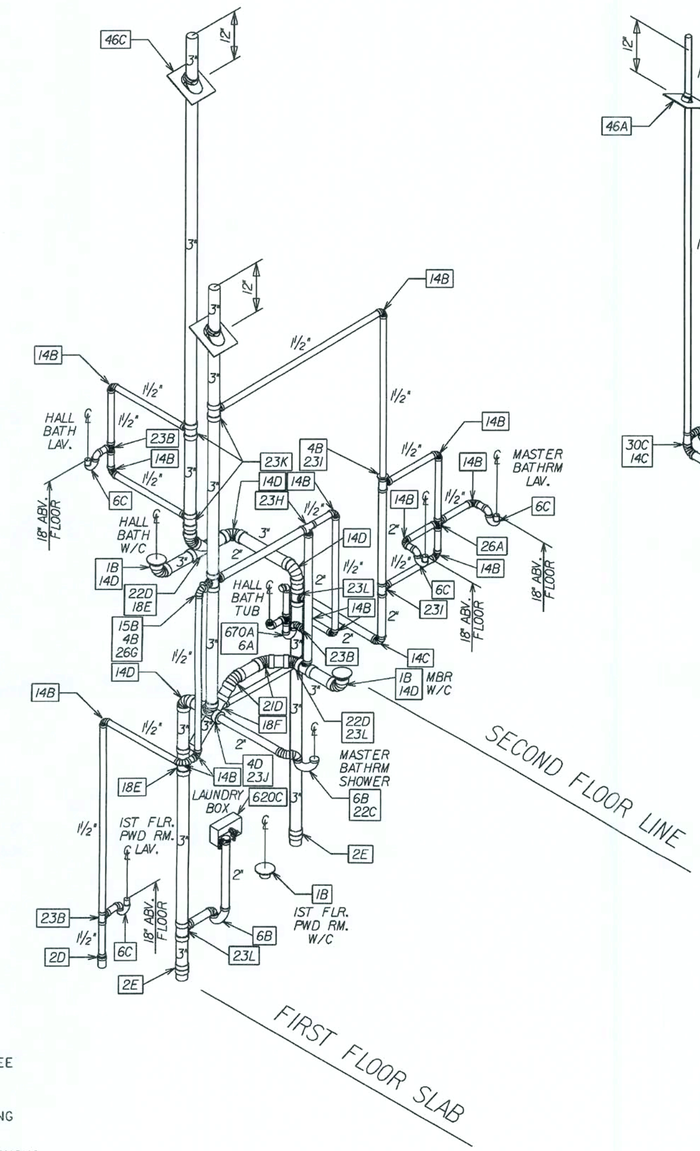
PLOT DATE: 22 FEB 2008 11:40:12

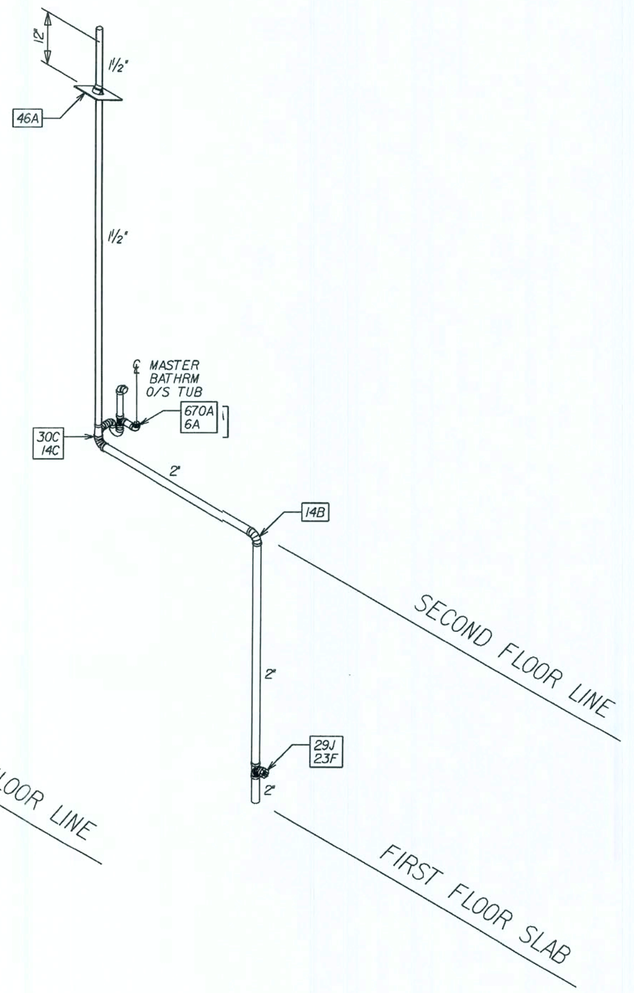
p:\fl\houses_05\sunbury\plumbing\sunbury.fp1

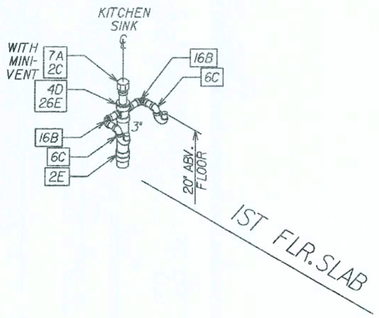
SHEET: FP1



COMPLETE SANITARY PLUMBING DIAGRAM







plumitem REPORT

Thu Aug 17 14:39:44 2006
p:*fl*houses 05*sunbury*plumbing*sunbuyp.plm

QUANTITY		DESCRIPTION
16	14B	130005.0013 1.5" PVC 90 EBOW
3	14C	130005.0041 2" PVC 90 ELBW
5	14D	130005.0066 3" PVC 90 ELBW
1	15B	130005.0015 1.5" PVC 90 S. ELBOW
2	18E	130005.0076 3" PVC 45 WYE
1	18F	130005.0057 3"x3"x1.5" PV 45 WYE
3	1B	130005.0099 4"X3" CLOSET ANGE
2	21D	130005.0064 3" PVC 45 ELBW
1	22C	130005.0040 2" PVC 45 ST.ELBOW
2	22D	130005.0065 3" PVC 45 ST.ELBOW
3	23B	130005.0024 1.5" PVC TEE
1	23F	130005.0048 2" PVC TEE
1	23H	130005.0265 2"x1.5"x2" PV TEE
2	23I	130005.0034 2"x2"x1.5" PV TEE
1	23J	130005.0074 3" PVC TEE
3	23K	130005.0056 3"x3"x1.5" PV TEE
3	23L	130005.0062 3"x3"x2" PVC EE
1	26A	130005.0727 1.5" DOUBLE TE
1	26E	130005.0132 3"x3"x1.5"x1." DOUBLE TEE
1	26G	130005.0134 3"x3"x2"x2" DJBLE TEE
1	29J	130005.0291 2" CO ADAPTERW/CO PLUG
1	2C	130005.0043 2" PVC COUPLIS
1	2D	130005.0033 2x1.5 PVC REDCER COUPLING
3	2E	130005.0068 3" PVC COUPLIS
1	30C	130005.0279 2x1.5x1.5" ST TEE
1	46A	130050.0238 1-1/2" NEOPRE ROOF FLASHING
2	46C	130050.0028 3" NEOPRENE RJF FLASHING
2	4B	130005.0032 2x1.5 FTG FL JSHING
2	4D	130005.0059 3x2 FTG FL BUHING
1	620C	130035.0027 Laundry Box Cater
2	670A	130005.0105 1 1/2" WATCO JB OVERFLOW ASSEMBLY
2	6A	130005.0022 1.5"x1.5" P-TAP PartA
2	6A	130005.0022 1.5"x1.5" P-TAP PartB
2	6B	130005.0046 2" P-TRAP
6	6C	130005.0107 1.5"x1.25" P-RAP W/UNION JT
1	7A	130005.0160 1.25-2" STUDO MINI-VENT

Pluminth REPORT

Thu Aug 17 14:39:44 2006
p:*fl*houses 05*sunbury*plumbing*sunburyp.lm

QUANTITY	DESCRIPTION
64'	130005.0023 1.5" PIPE
33'	130005.0047 2" PVC PIPE
52'	130005.0072 3" PVC PIPE

REVISIONS :
06/26/06 REVISED AS PER DRAWINGS T.JM
08/18/06 REVD.KITCHEN SINK ASSEM.-TJM

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p:\fl\houses_05\sunbury\plumbing\sunburyiso

AMERICANA | DWV PLUMBING ISO

SUNBURY-NEWBERRY

ALL ELEVATIONS

DRAWN BY: | GARAGE: RIGHT

RELEASE DATE: 02/28/05 T J TOOMEY

PLOT DATE: 22 FEB 2008 11:40:12

SHEET: ISO-P

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

plumitem REPORT

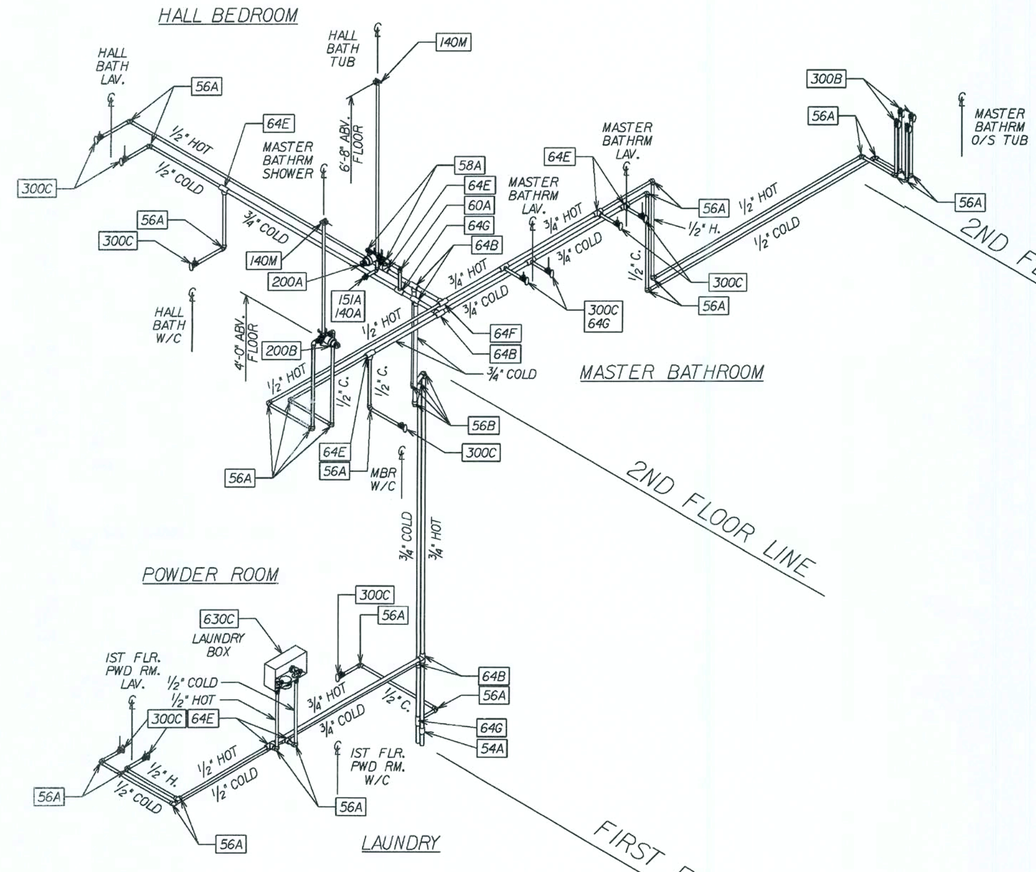
Thu Jun 29 13:31:11 2006
p:*fl*houses 05*sunbury*plumbing*sunburyp.plm

QUANTITY			DESCRIPTION
1	140A	130025.0017	1/2" COPPER 90 ELBOW
2	140M	130025.0051	1/2" COPPER 90 ELBOW Drop
1	151A	130025.0020	1/2" COPPER MALE ADAPTER
1	200A	130035.0061	Tub Diverter
1	200B	130035.0061	Shower Diverter
2	300B	130010.0049	Stright Valve 1/2" x 3/8"
13	300C	130010.0046	1/2" x 3/8"Angle Valve
3	54A	130010.0022	1/2" CPVC COUPLING
4	54B	130010.0009	3/4" CPVC COUPLING
27	56A	150060.0199	1/2" CPVC 90 ELBOW
8	56B	130010.0007	3/4" CPVC 90 ELBOW
5	58A	130010.0027	1/2" CPVC 90 ST. ELBOW
2	605A	130055.0047	Corr Gas App Conn
2	60A	130010.0028	1/2" CPVC 45 ELBOW
1	620C	130035.0027	Laundry Box Center
1	630A	130035.0057	Ice Maker Box
5	64B	130010.0013	3/4" CPVC TEE
8	64E	130010.0035	3/4"X1/2"X1/2" CPVC TEE
1	64F	130010.0037	3/4"X1/2"X3/4" CPVC TEE
4	64G	130010.0005	3/4"X3/4"X1/2" CPVC TEE
2	650A	130050.0109	1/2" Hose Bib
2	66B	130010.0010	3/4" CPVC MALE ADAPTER BRASS THREADS
2	90A	130035.0080	Shut-Off Valve
1	90B	130050.0090	3/4" SHUT-OFF GATE VALVE

Plumlnth REPORT

Thu Jun 29 13:31:11 2006
p:*fl*houses 05*sunbury*plumbing*sunburyp.plm

QUANTITY	DESCRIPTION	
64'	130005.0023	1.5" PIPE
32'	130005.0047	2" PVC PIPE
52'	130005.0072	3" PVC PIPE
66'	130010.0012	3/4" CPVC PIPE
78'	130010.0025	.5" CPVC PIPE
7'	130025.0006	1/2" COPPER Pipe



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

REVISIONS :
06/26/06 REVISED AS PER DRAWINGS T.JM

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

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

p:\fl\houses_05\sunbury\plumbing\sunburyw.iso

AMERICANA | CPVC WATER ISO

SUNBURY-NEWBERRY

3 BEDROOM/LOFT

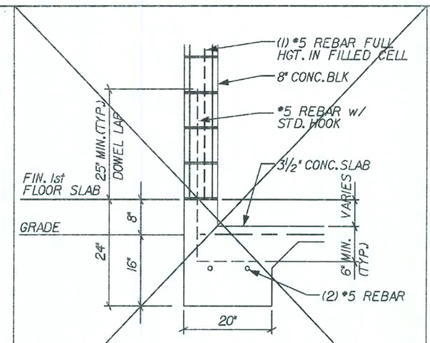
DRAWN BY: | GARAGE: RIGHT | T.J.TOOMEY

RELEASE DATE: 03/03/05

PLOT DATE: 22 FEB 2008 11:40:13

SHEET: ISO-W

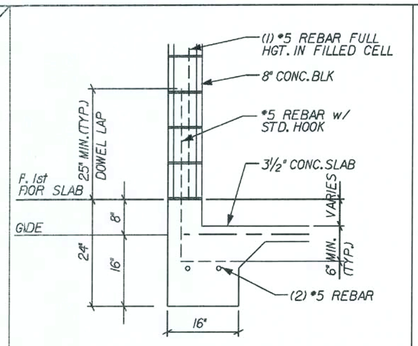
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



G2 GARAGE 2-STORY

REVISED 11-07-06 DELETED STONE LEDGE

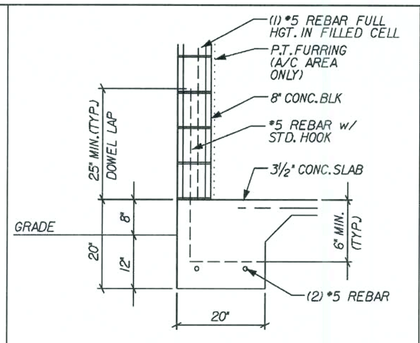
SCALE: ½" = 1'-0"



G GARAGE 1-STORY

REVISED 11-07-06 DELETED STONE LEDGE

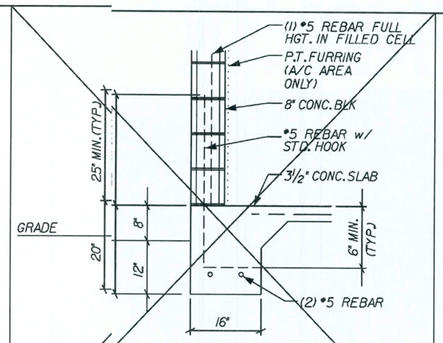
SCALE: ½" = 1'-0"



A2 TYPICAL 2-STORY

REVISED 11-07-06 DELETED STONE LEDGE

SCALE: ½" = 1'-0"

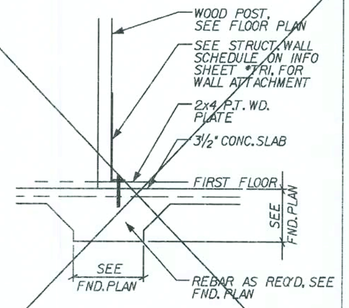


A TYPICAL 1-STORY

REVISED 11-07-06 DELETED STONE LEDGE

SCALE: ½" = 1'-0"

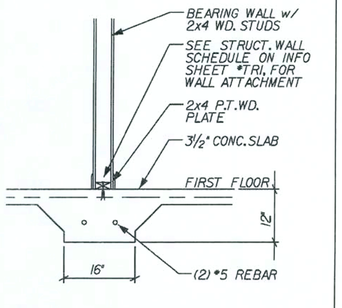
NOT USED



J INTERIOR BEARING POST

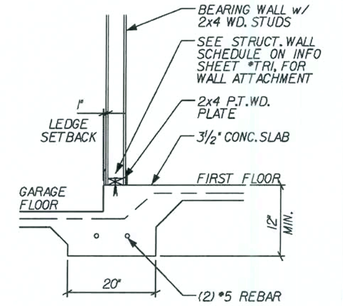
NOT USED

SCALE: ½" = 1'-0"



I INTERIOR BEARING

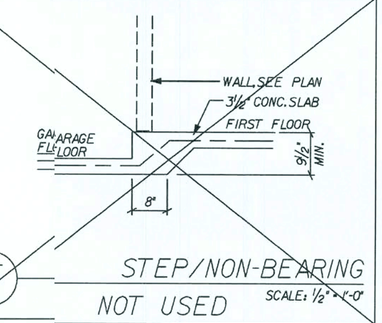
SCALE: ½" = 1'-0"



H STEP/BEARING

REVISED 01-31-05

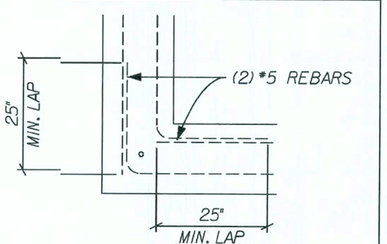
SCALE: ½" = 1'-0"



F STEP/NON-BEARING

NOT USED

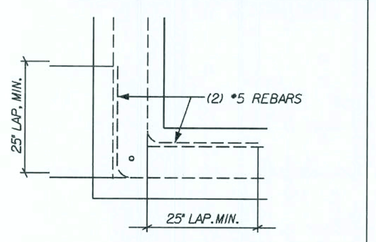
SCALE: ½" = 1'-0"



TTYP. FTNG @ CORNERS

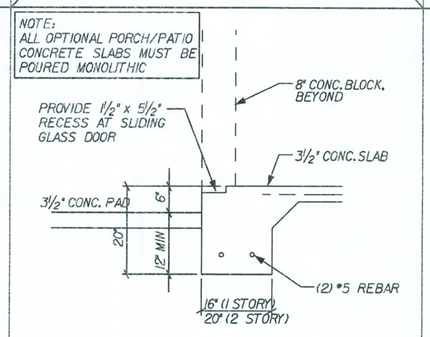
04-07-08 ONE CORNER DTL

SCALE: ½" = 1'-0"



TYP. FFTNG @ INSIDE CORNER

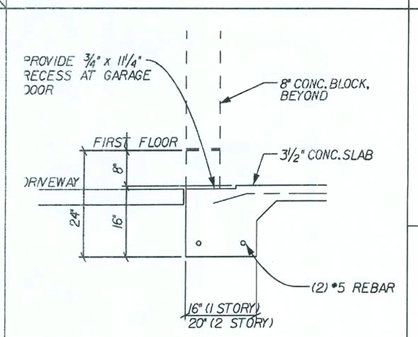
SCALE: ½" = 1'-0"



S RECESS @ SLIDER

REVISED 05-06-05

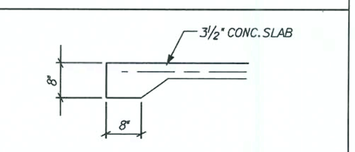
SCALE: ½" = 1'-0"



R THICK'N EDGE/GARAGE

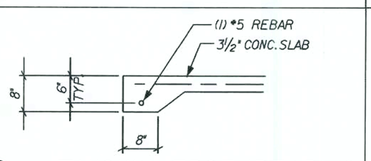
REVISED 04-23-06

SCALE: ½" = 1'-0"



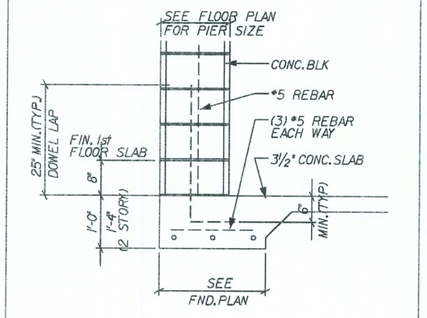
N THICK'N EDGE

SCALE: ½" = 1'-0"



P THICK'N EDGE/BEARING

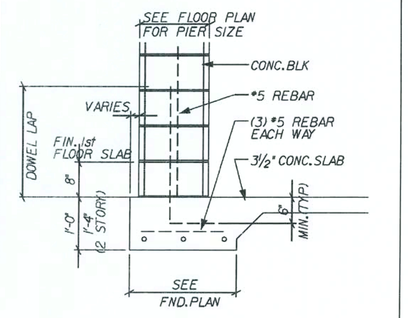
SCALE: ½" = 1'-0"



U PIER DETAIL #2

REVISED 02-20-07 16" DEEP @ 2 STORY

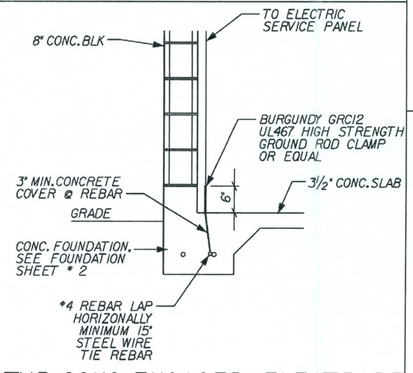
SCALE: ½" = 1'-0"



T SUNBURY - 'V' PIER DETAIL #1

REVISED 02-20-07 16" DEEP @ 2 STORY

SCALE: ½" = 1'-0"



TYP. CONC. ENCASED ELECTRODE

SCALE: ½" = 1'-0"

NOTE:
ALL OPTIONAL PORCH/PATIO CONCRETE SLABS MUST BE POURED MONOLITHIC

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Maronda Homes

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

FLORIDA
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FOOTINGS STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 11:50:58

P:\Y1houses_05\sunbury\dfts\sun-std.ftg

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

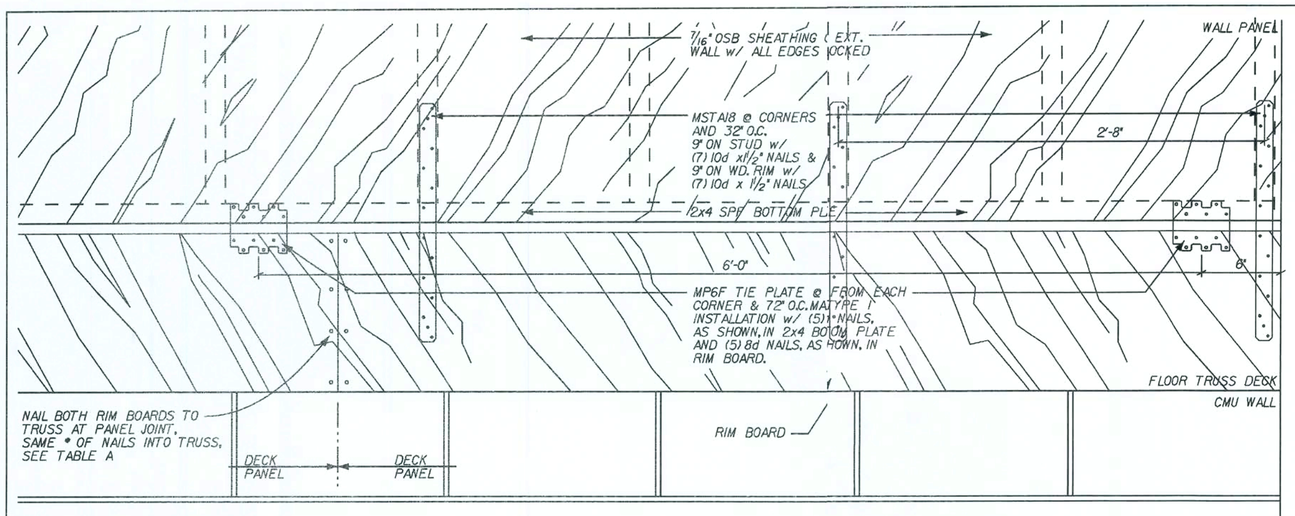
Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

FTG

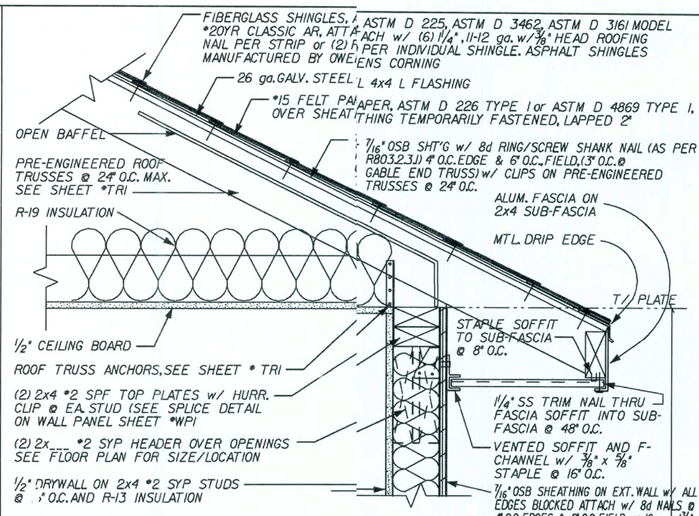
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



J

TYPICAL WALL CONNECTION-TRUSS FLOOR

SCALE: 1½" = 1'-0"

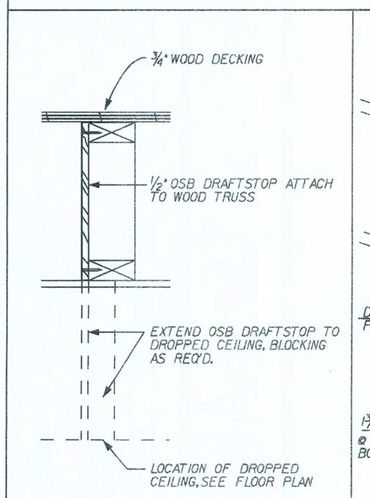


C

WALL SECTION-FRAMED ROOF

REVISED 02-20-08 R-13 INSULATION

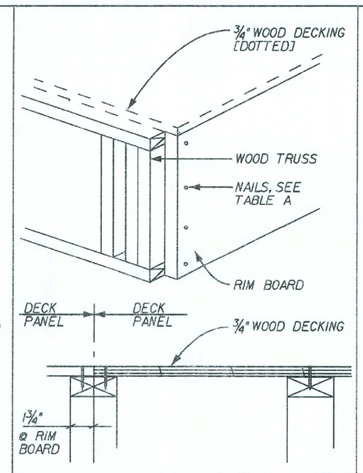
SCALE: 1½" = 1'-0"



H

DRAFT STOPPING-TRUSS FLOOR

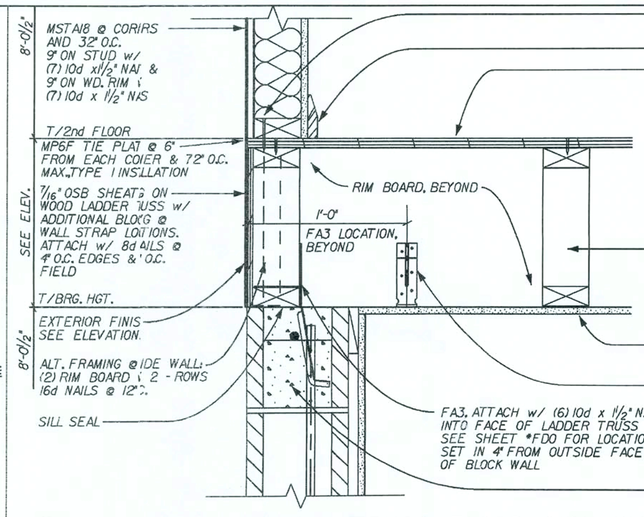
SCALE: 1½" = 1'-0"



G

DECK CONNECTION @ PANEL JOINT TRUSS FLOOR

SCALE: 1½" = 1'-0"

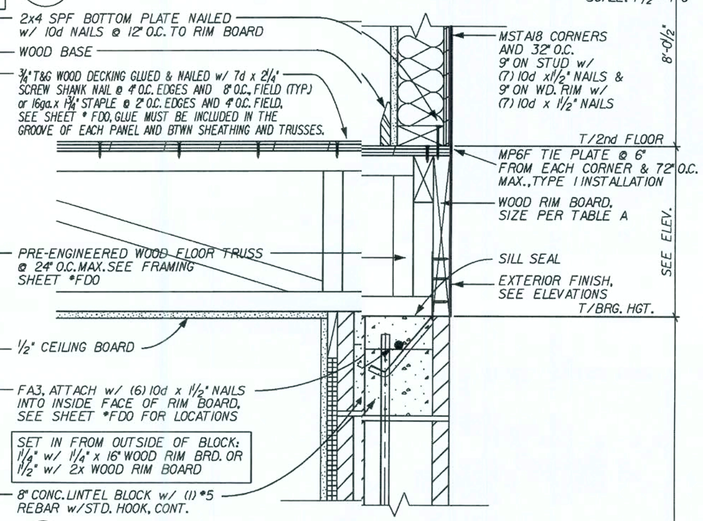


E

PARTIAL SECTION-TRUSS FLOOR SIDE WALL

REVISED 05-02-07 FLOOR DECK NAIL'G

SCALE: 1½" = 1'-0"



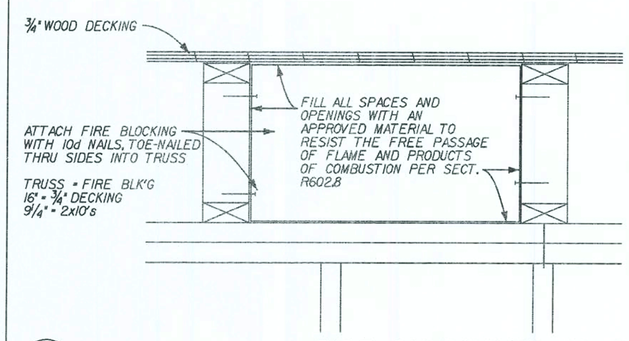
B

WALL SECTION-TRUSS FLOOR

REVISED 05-02-07 FLOOR DECK NAIL'G

SCALE: 1½" = 1'-0"

TABLE A		
TRUSS DEP.	RIM BD.	* NAILS, RIM BRD. TO FLOOR TRUSS
9¼"	2x10	(4) 10d NAILS
11¼"	2x12	(6) 10d NAILS
16"	1¼" x 16"	(6) 10d NAILS

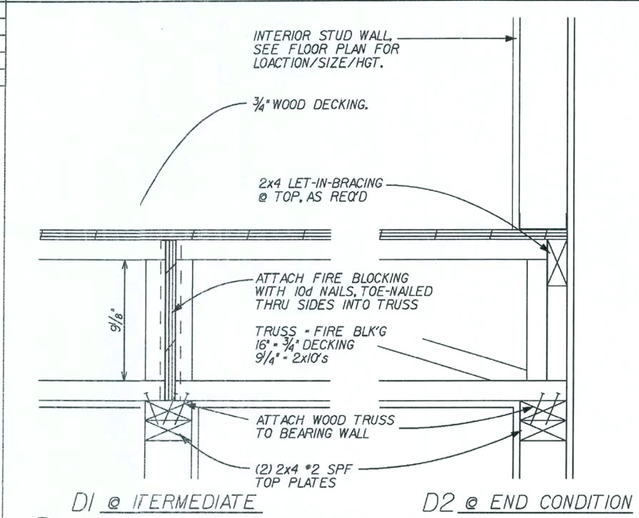


F

FIRE BLOCKING-TRUSS FLOOR

REVISED 05-05-06 REV. NOTE @ OPENINGS

SCALE: 1½" = 1'-0"



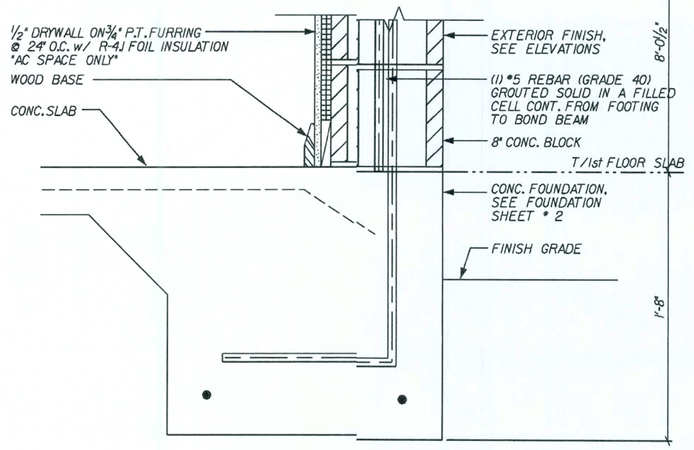
D1 @ INTERMEDIATE D2 @ END CONDITION

D

TYPICAL INTERIOR BEARING WALL-TRUSS FLOOR

REVISED 04-04-07 LET-IN BRACING NOTE

SCALE: 1½" = 1'-0"



A

WALL SECTION-FOUNDATION @ BLOCK

REVISED 02-19-07 FOIL INSUL TO R-4J

SCALE: 1½" = 1'-0"

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Maronda Homes

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

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P:\FNDtrusses_05\sunbury\dtls\std_ws-s1.sws

TWO STORY | WALL SECTIONS

SUNBURY-NEWBERRY

DRAWN BY: GARAGE:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 11:50:59

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

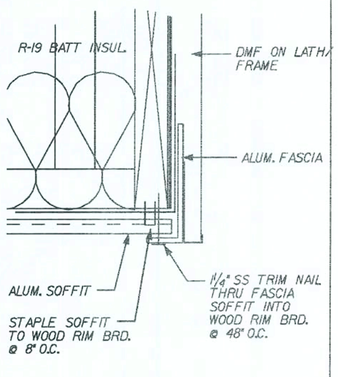
Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

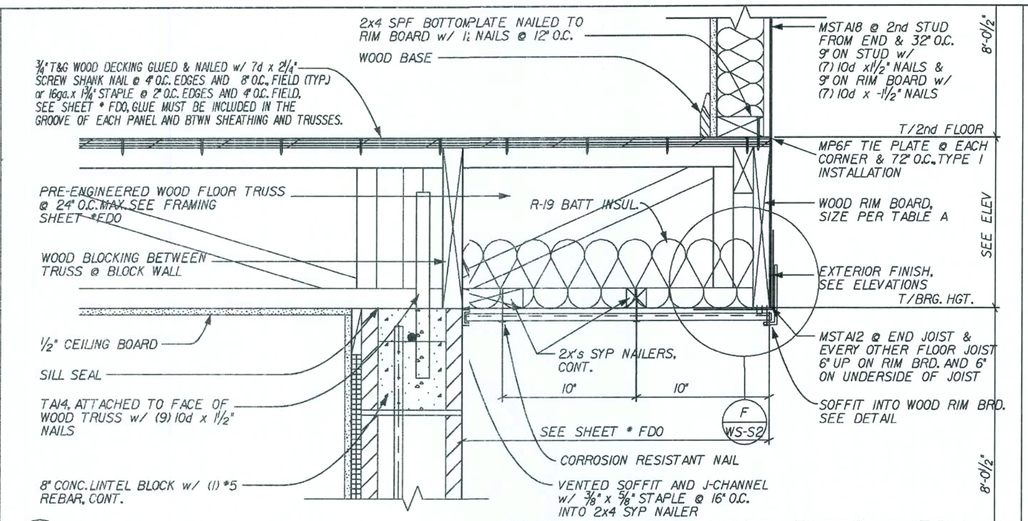
WS-S1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



F SOFFIT CONNECTION-TRUSS FLOOR

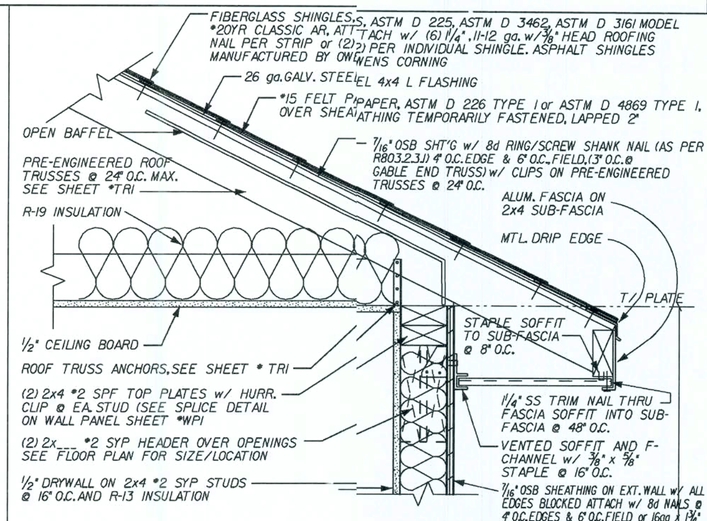
SCALE: 3" = 1'-0"



E WALL SECTION-TRUSS FLOOR OVERHANG

REVISED 05-02-07 FLOOR DECK NAIL'G

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

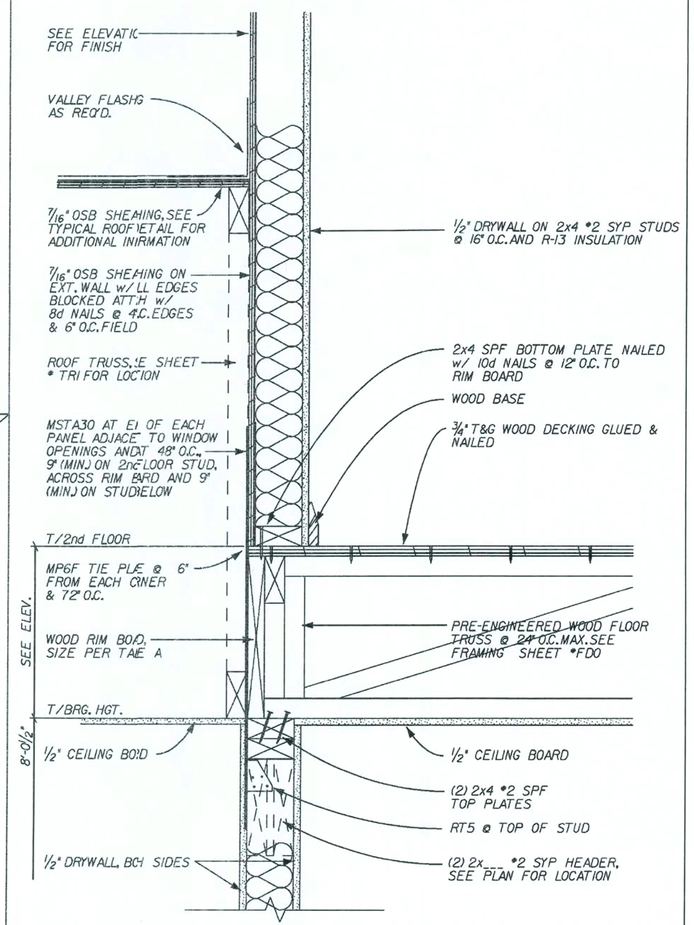


C WALL SECTION-FRAMED ROOF

REVISED 02-20-08 R-13 INSULATION

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

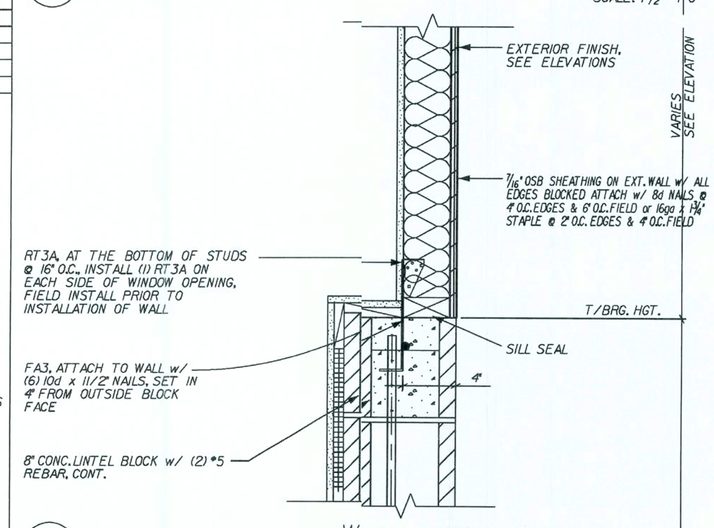
TABLE A		
TRUSS DEP.	RIM).	* NAILS, RIM BRD. TO FLOOR TRUSS
9 1/4"	2x	(4) 10d NAILS
11 1/4"	2x	(6) 10d NAILS
16"	1 1/4" 16"	(6) 10d NAILS



D PARTIAL SECTION-TRUSS FLOOR/BEARING WALL

REVISE.02-20-08 R-13 INSULATION

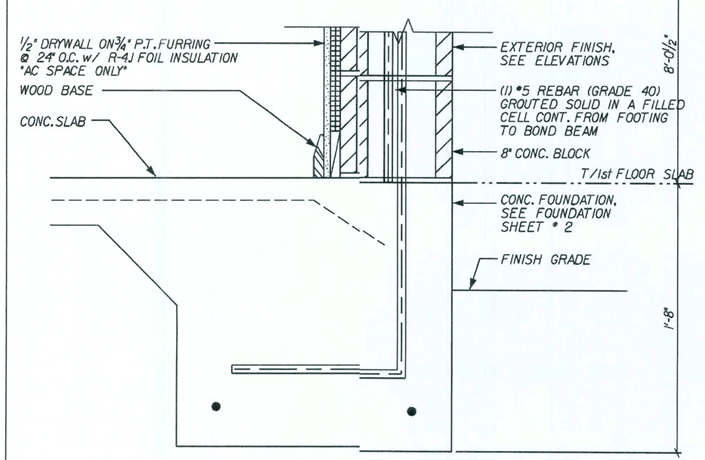
SCALE: 1 1/2" = 1'-0"



B WALL SECTION-OPEN SPACE

REVISED 10-25-07 - RT3A AND FA3

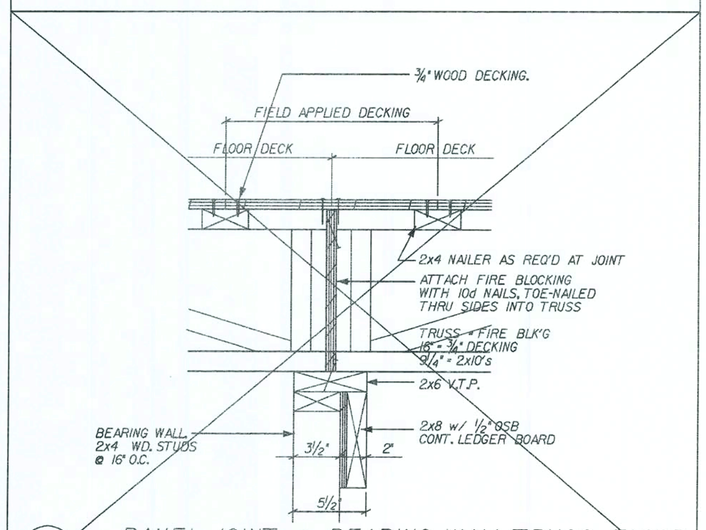
SCALE: 1/2" = 1'-0"



A WALL SECTION-FOUNDATION @ BLOCK

REVISED 02-19-07 FOIL INSUL TO R-4.1

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



H PANEL JOINT @ BEARING WALL-TRUSS FLOOR

REVISED 12-04-07 : REV. FIRE BLOCKING

NOT USED

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

REVISIONS :

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Maronda Homes

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

FLORIDA:
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TWO STORY WALL SECTIONS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008

11:51:00

P:\VNdoubles_05\sunbury\dfls\std_ws-s2.sws

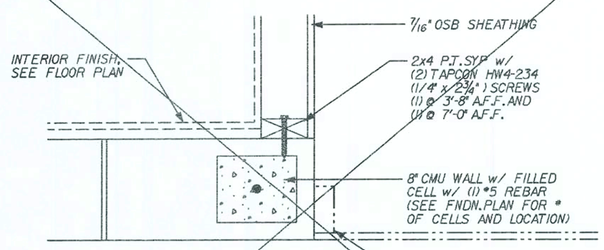
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

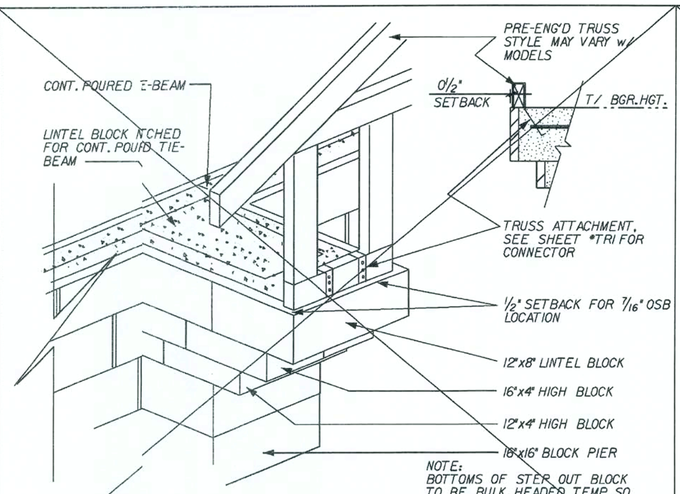
JUL 24 2008

SHEET:
WS-S2

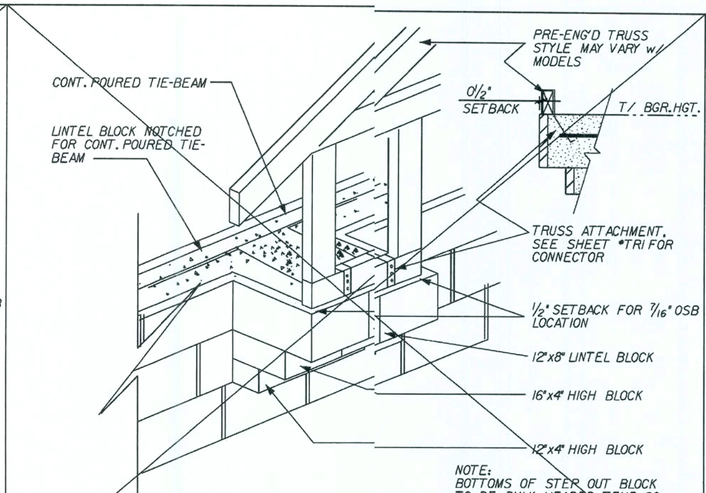
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



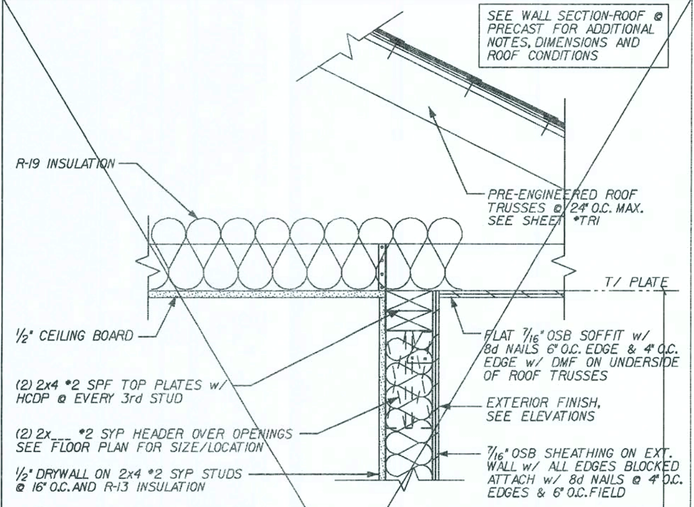
J EXTERIOR WOOD FRAME TO BLOCK
NOT USED
SCALE: 1 1/2" = 1'-0"



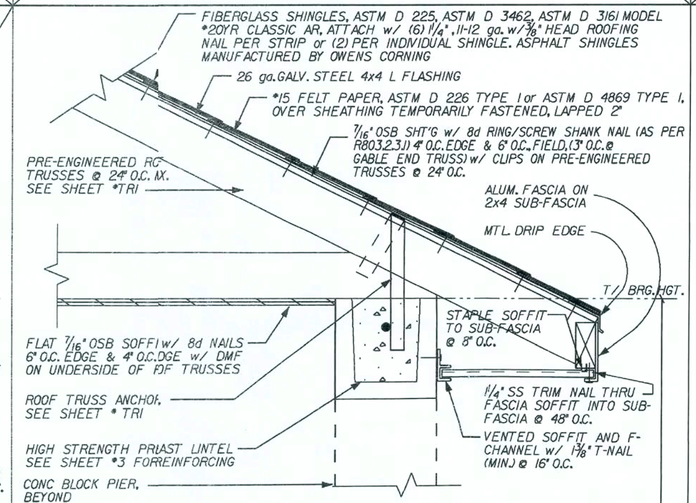
F 6" SQ. BLOCK PIER w/ BLOCK CORBEL ISO
NOT USED
SCALE: N.T.S.



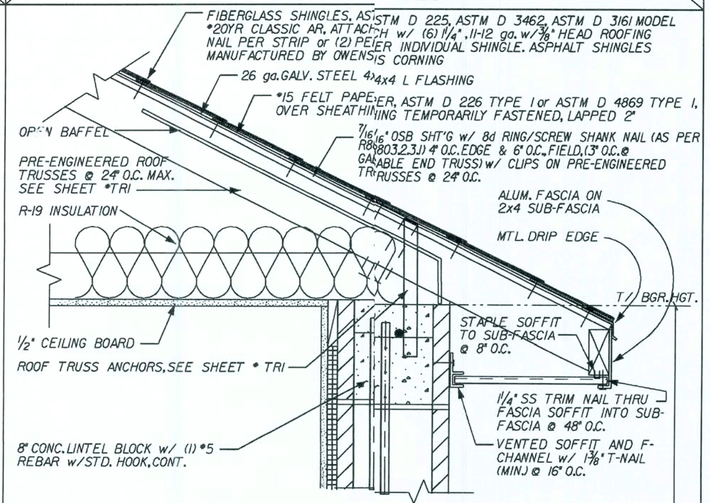
E BLOCK CORBEL ISO
NOT USED
SCALE: N.T.S.



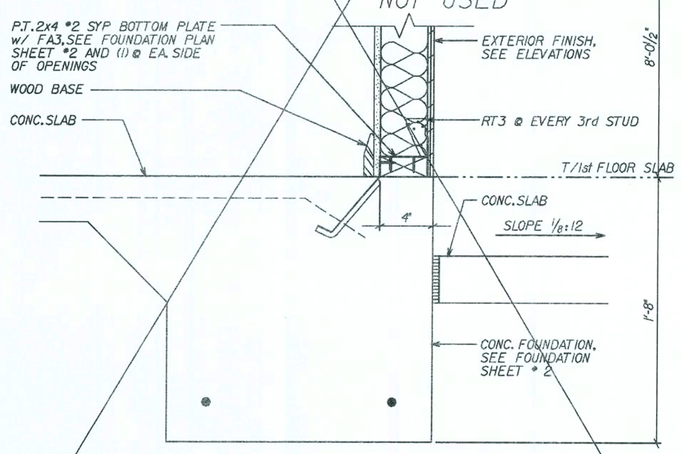
H WALL SECTION-ROOF @ WD. FRAME/ F. PORCH
REVISED 02-20-08 R-13 INSULATION
SCALE: 1 1/2" = 1'-0"



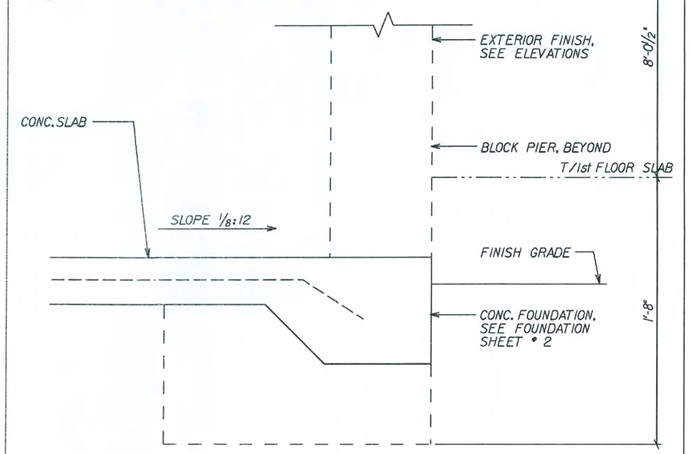
D WALL SECTION-ROOF @ PRECAST/FRONT PORCH
REVISED 052-07 - OSB ROOF NAIL TYPE
SCALE: 1 1/2" = 1'-0"



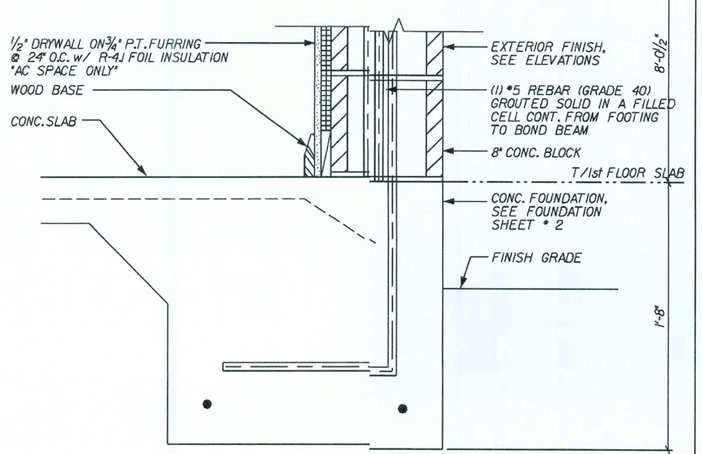
B WALL SECTION-ROOF @ BLOCK
REVISED 05-02-07 - OSB ROOF NAIL TYPE
SCALE: 1 1/2" = 1'-0"



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



C WAL SECTION-FOUNDATION @ FRONT PORCH
REVISED 042-05
SCALE: 1 1/2" = 1'-0"



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

REVISIONS :

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN CONFORMANCE WITH THE FLORIDA RESIDENTIAL BUILDING CODE 2004 ; RESIDENTIAL AND2005, 2006 SUPPLEMENT

ONE STORY | WALL SECTIONS
SUNBURY-NEWBERRY
GARAGE:
DRAWN BY:
RELEASE DATE: 10-08-04

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

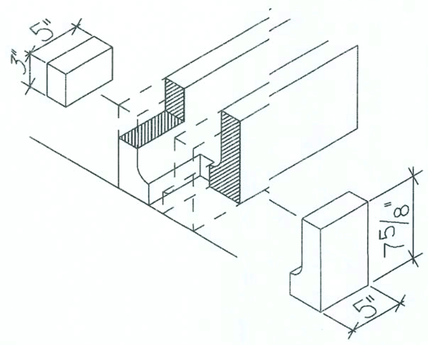
Elmer Bergman, P.E.
License No. 50158
JUL 24 2008

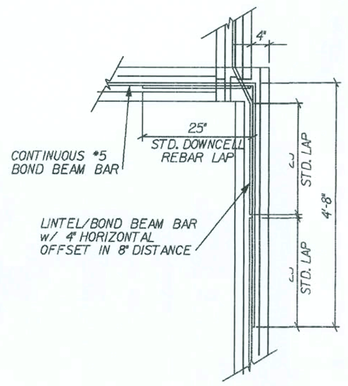
SHEET:
WS-B1

PLOT DATE: 22 FEB 2008 11:51:01
P:\PLANS\HOUSES_05\SUNBURY\DWGS\STD_WS-B1.SWS

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

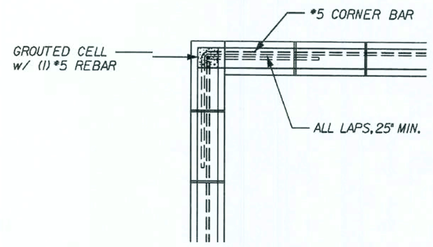
USP HARDWARE - 160%		REVISED 05-10-06	
PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
HTW24	USP	(20) 10d	1325
HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" " EMBED. -ALL GRDR.-(8) 10d	9790
HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9860
JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
KST227 STRP ANC.	USP	(34) 16d	4750
LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1½"	1250
LSTA36	USP	(22) 10d X 1½"	1640
LTW12	USP	(12) 10d	670
LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3¼" EMBED. (10) 10d X 1½"STRAP	1890
LBP12 BEARING PLT	USP	½" J-BOLT	2515
LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
MSTAI2	USP	(10) 10d	1015
MSTAI8	USP	(14) 10d	1420
MSTA24	USP	(18) 10d	1640
MSTA30	USP	(22) 10d	2065
MTW12	USP	(14) 10d	1030
MTW18	USP	(14) 10d	1030
MTS27B STRP ANC	USP	(24) 16d (1)¾" ANCHOR BOLT 3¼" EMBEDDED	4635
MUGT15	USP	(22) 10d (1)⅝" ANCHOR BOLT 3¾" EMBEDDED	4165
NP37 3⅛X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1½"	
PA 28	USP	(15) 16d	3360
RT-16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
RT-16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1160
RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
SKH 26 L\R	USP	HEADER (6) 16d JACK (6) 10d X 1½"	1085
SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
TAI2 TA 12/METAL	USP	(5) #10 SCREWS (9) #10 SCREWS	825 910
TA 14	USP	(7) 10d x 1½"	920
TA 18	USP	(8) 10d x 1½"	1205
(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
TA 24	USP	(8) 10d x 1½"	1205
(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THJ 26	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





MODIFIED LINTEL @ FRONT PORCH

SCALE: N.T.S.

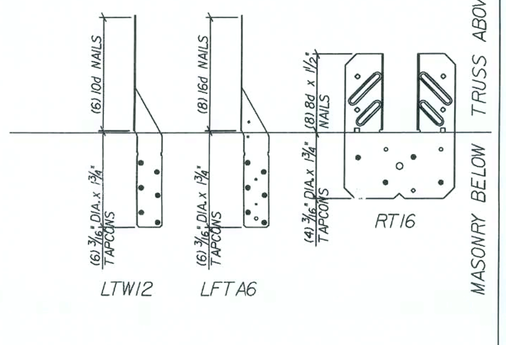


TYPICAL BOND BEAM @ CORNER

REVISED 04-22-05

SCALE: ½" = 1'-0"

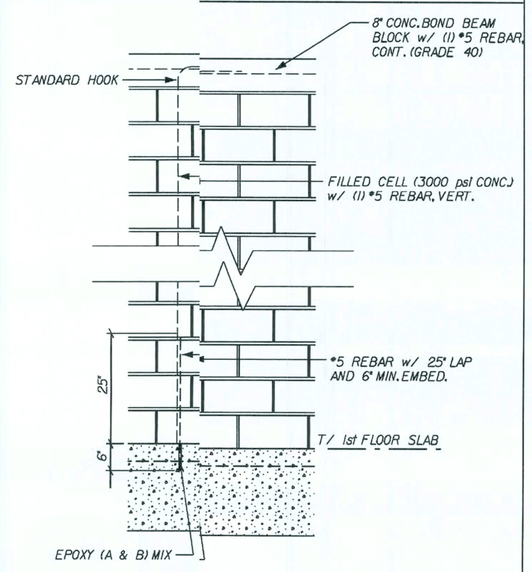
CONNECTOR	MAX. UPLIFT
LTW12	775 LBS
LFTA6	990 LBS
RT16	700 LBS



FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

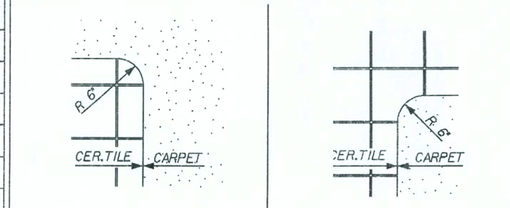
ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

SCALE: N.T.S.

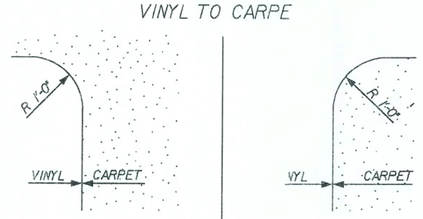


MISSED DOWN ROD REPAIR

SCALE: ½" = 1'-0"



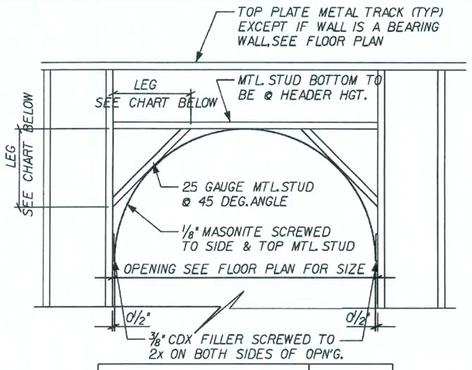
OUTSIDE CORNER INSIDE CORNER



OUTSIDE CORNER INSIDE CORNER

FLOOR EDGE CORNER DETAIL

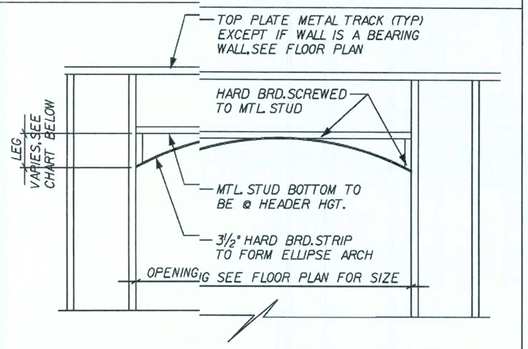
SCALE: ½" = 1'-0"



OPENING	LEGS
2'-1" - 2'-0" ARCH OPENING	7½"
2'-7" - 2'-6" ARCH OPENING	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'-7-0" - 3'-1"	4"
3'-1-2 " - 4'-0"	5½"
4'-1-1" - 5'-0"	6½"
5'-1-1" - 7'-0"	8"
7'-1-1 " - 9'-0"	9½"
9'-1-1" - 12'-0"	12"

INTERIOR ELLIPSE ARCH

SCALE: ½" = 1'-0"

REVISIONS :

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Maronda Homes

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

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

P:\Houses_05\sunbury\dfts\std_details.sdl

AMERICANA STANDARD DETAILS

SUNBURY-NEWBERRY

DRAWN BY: GARAGE:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 11:51:02

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

Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

SD1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

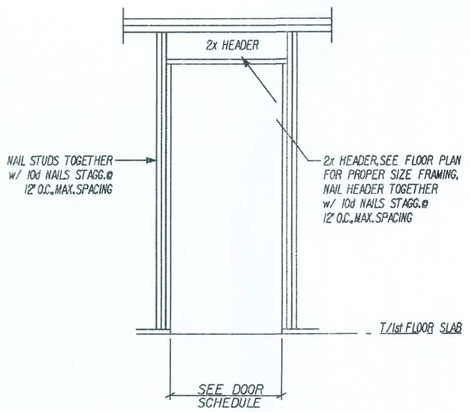
REVISED 02-15-07
83¾" -> 82⅞"

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD I.S.	25½" x 80⅝"	26" x 80⅛"	29" x 82⅜"
2-8 STANDARD I.S.	33½" x 80⅝"	34" x 80⅛"	37" x 82⅜"
2-10 STANDARD I.S.	35½" x 80⅝"	36" x 80⅛"	39" x 82⅜"
3-0 STANDARD I.S.	37½" x 82"	38" x 82¼"	41" x 82⅜"
3-0 w/SIDELIGHT I.S.	51⅛" x 82"	51⅝" x 82¼"	54⅜" x 82⅜"
3-0 w/(2) SIDELIGHT I.S.	64½" x 82"	65" x 82¼"	68" x 82⅜"
5-8 (2)2-10 FRENCH I.S.	70½" x 80⅝"	71" x 80⅛"	74" x 82⅜"

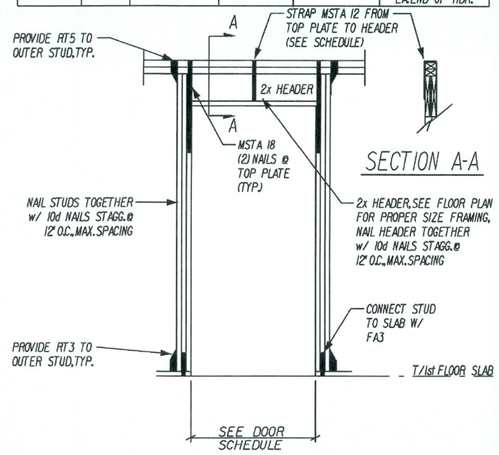
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE +1/4" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE +1/2" FOR WIDTH
** O.S.= OUTSWING
** I.S.= INSWING

MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 9'-0" 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	

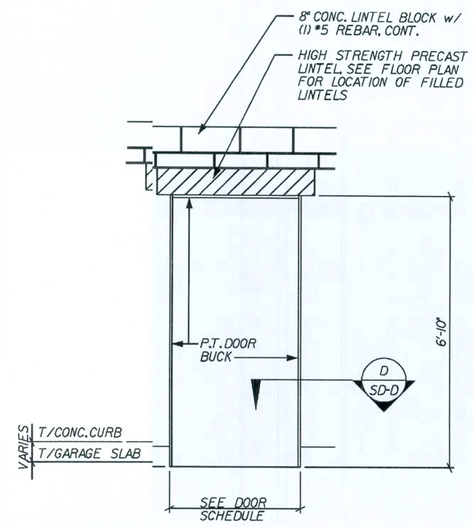


K STD. DOOR - WD FRAME, NO-UPLIFT
SCALE: N.T.S.

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

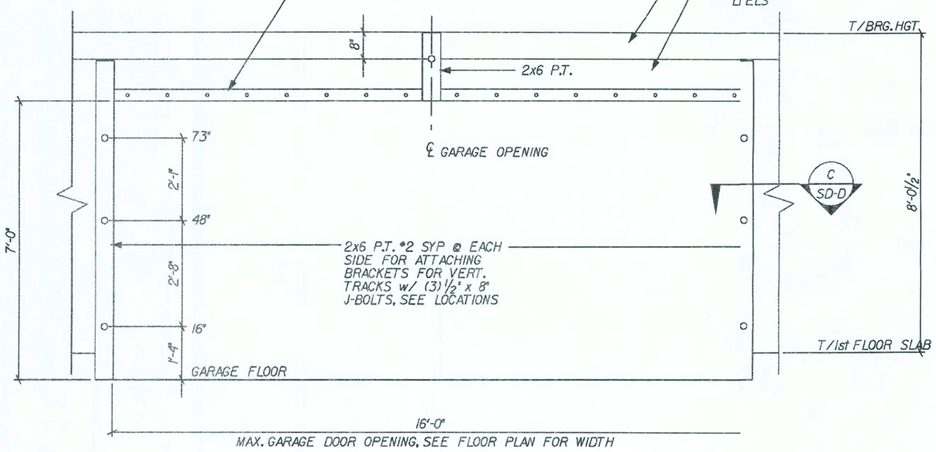


J STD. DOOR - WD FRAME, UPLIFT
SCALE: N.T.S.

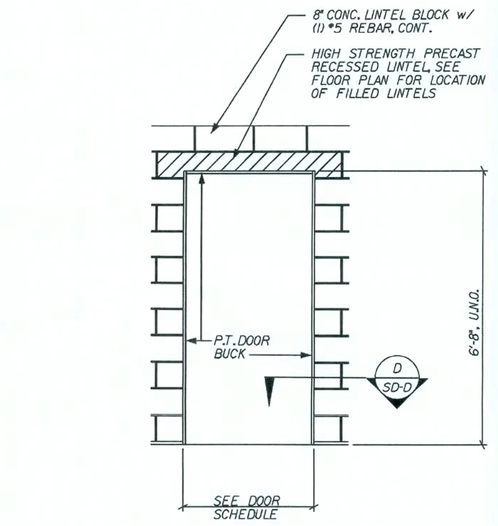


H OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: 3/8" = 1'-0"

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

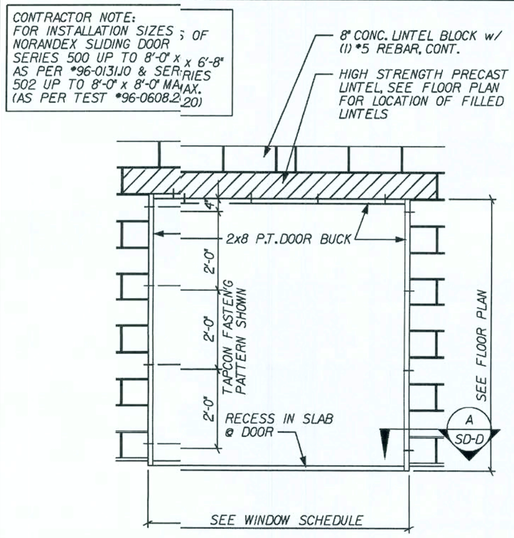


G GARAGE DOR ELEVATION
SCALE: 3/8" = 1'-0"

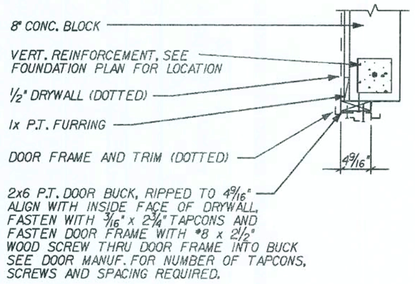


F STANDARD DOOR ELEVATION
SCALE: 3/8" = 1'-0"

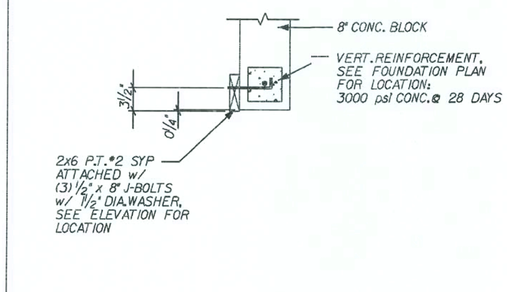
CONTRACTOR NOTE:
FOR INSTALLATION SIZES ; OF NORANDEX SLIDING DOOR SERIES 500 UP TO 8'-0" x 6'-8" AS PER #96-0131J0 & SERIES 502 UP TO 8'-0" x 8'-0" MAX. (AS PER TEST #96-0608.2.20)



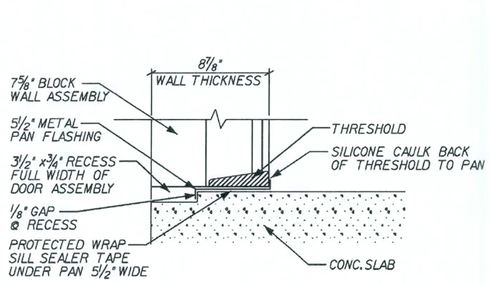
E SLIDING GLASS DOOR ELEVATION
SCALE: 3/8" = 1'-0"



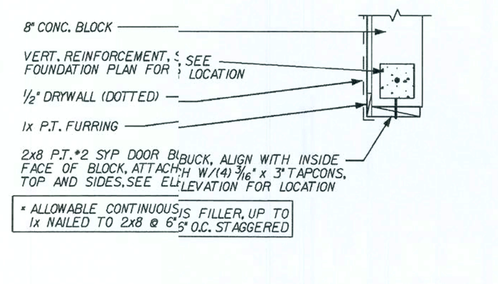
D 2x DOOR BUCK DETAIL
SCALE: 3/4" = 1'-0"



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



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



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

REVISIONS :
06-12-06 ADDED DOOR PAN DETAIL

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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 SUPPLEMENT

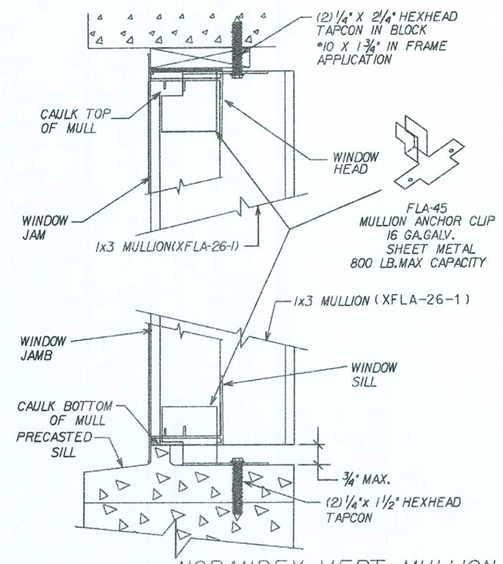
DOORS | STANDARD DETAILS
SUNBURY-NEWBERRY
GARAGE:
DRAWN BY:
RELEASE DATE: 10-08-04
PLOT DATE: 22 FEB 2008
11/5/03
P:\Houses_OS\sunbury\dtls\std_doors.sdd

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

Elmer Bergman, P.E.
License No. 50158
JUL 24 2008

SHEET:
SD-D

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

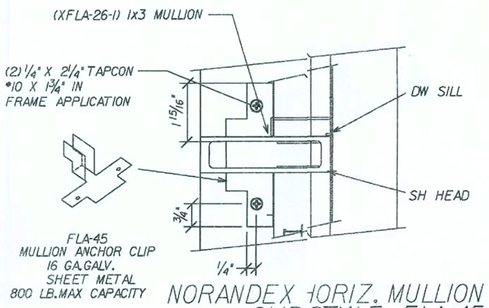


NORANDEX VERT. MULLION CLIP STYLE FLA-45

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

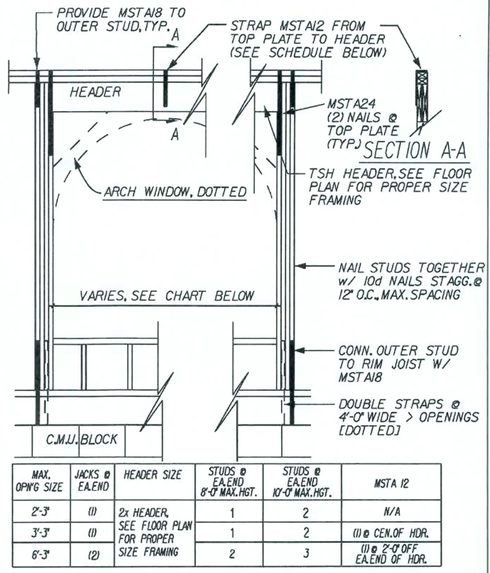
CONTRACTOR NOTE:
FOR INSTALLATION SIZE. OF NORANDEX WINDOW SERIS 437/438 UP TO 53 1/8" x 6-3/8" AS PER TEST #96-0624.0

STANDARD WINDOW DETAILS IN BLOCK WALLS UP TO 10FEET HIGH



NORANDEX HORIZ. MULLION CLIP STYLE FLA-45

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

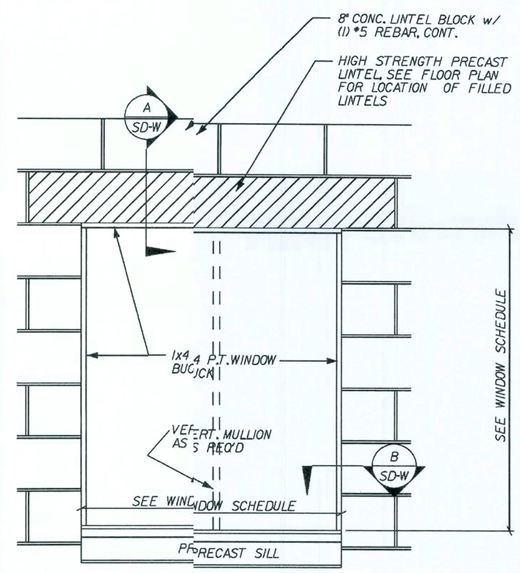


MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		1	2	(1) @ CEN.OF HDR.
6'-3"	(2)		2	3	(1) @ 2'-0" OFF EA.END OF HDR.

K TYP.HEADER DETAIL-2ND FLOOR FRAMING

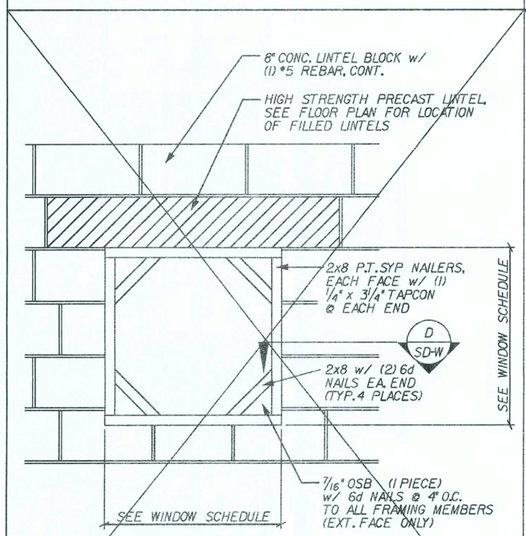
REVISED 06-06-07 : PER WALL PANELS

SCALE: N.T.S.



J WINDOW-STANDARD-BLK

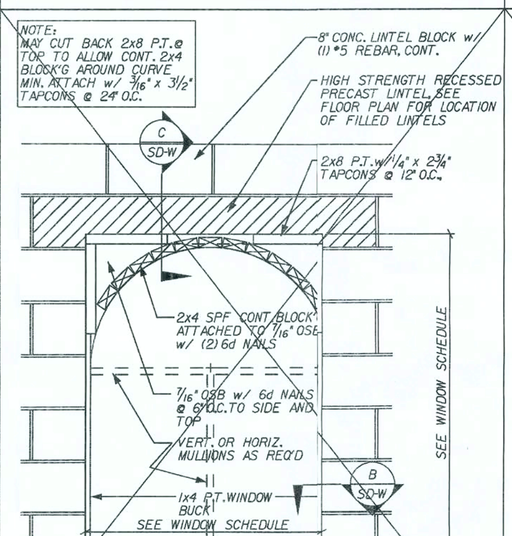
SCALE: 3/4" = 1'-0"



H WINDOW-OCTAGON-BLK

NOT USED

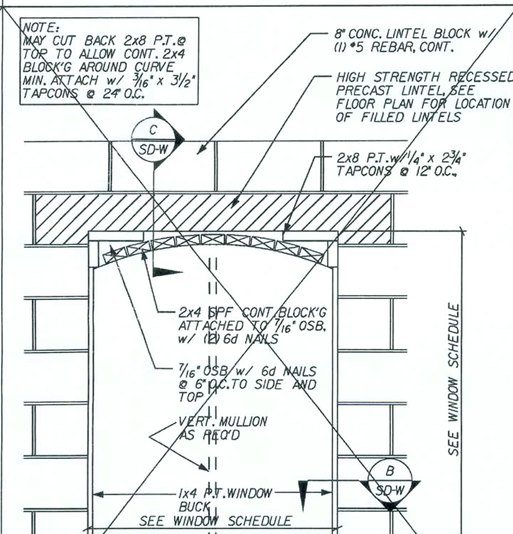
SCALE: 3/4" = 1'-0"



G WINDOW-1/2 ROUND TOP-BLK

NOT USED

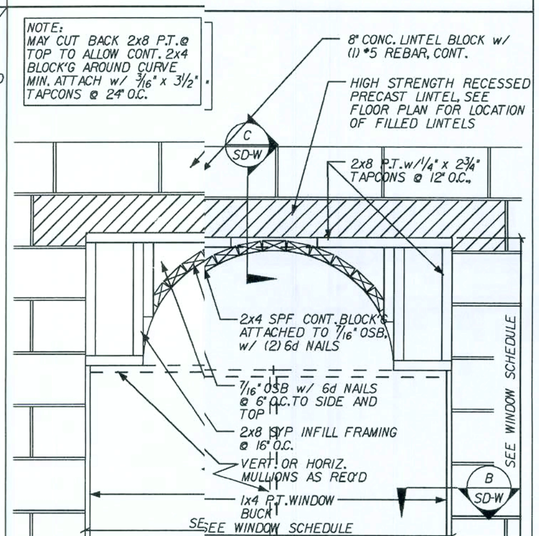
SCALE: 3/4" = 1'-0"



F WINDOW-EYEBROW-BLK

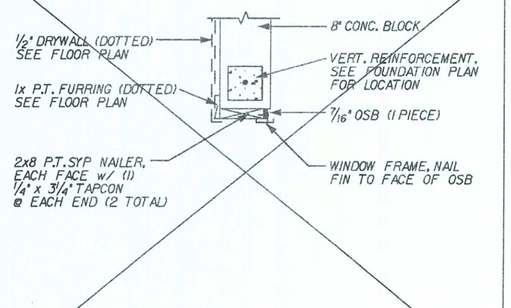
NOT USED

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



E WINDOW-COMBINATION-BLK

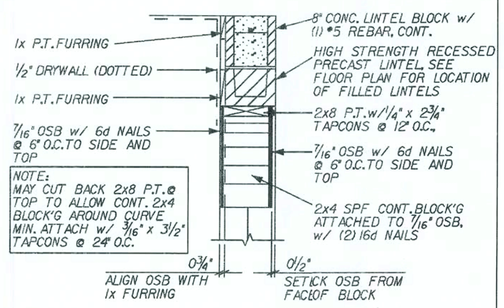
SCALE: 3/4" = 1'-0"



D WINDOW JAMB-OCTAGON-BLK

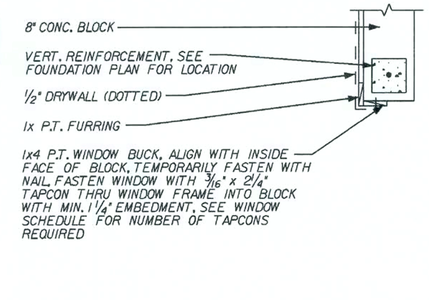
NOT USED

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



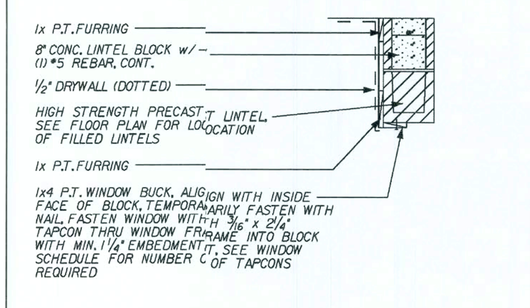
C WINDOW HEAD-ARCH WINDOW-BLK

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



B WINDOW JAMB-STANDARD-BLK

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



A WINDOW HEAD-STANDARD-BLK

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

REVISIONS :

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Maronda Homes

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

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPPLEMENT

P:\1Houses_05\sunbury\dtls\std_windows.sdw

WINDOWS | STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 11:51:06

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

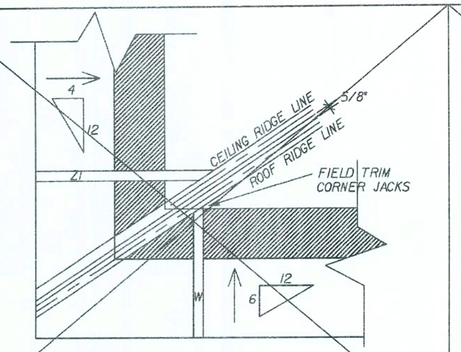
Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

SD-W

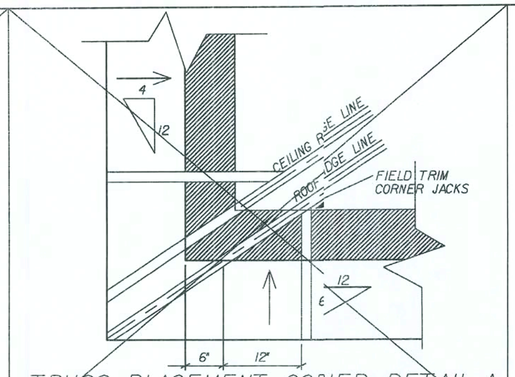
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



TRUSS PLACEMENT CORNER DETAIL B

NOT USED

SCALE: N.T.S.



TRUSS PLACEMENT CORNER DETAIL A

NOT USED

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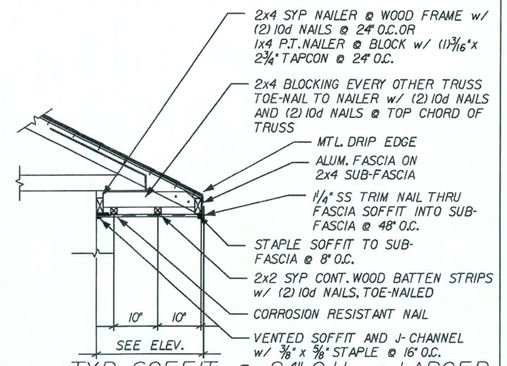
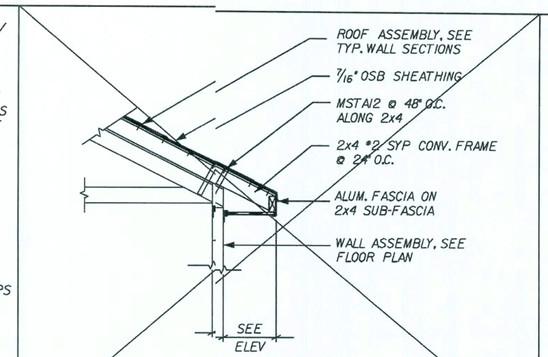


TYP. SOFFIT @ 24" O.H. or LARGER

REVISED 01-11-05

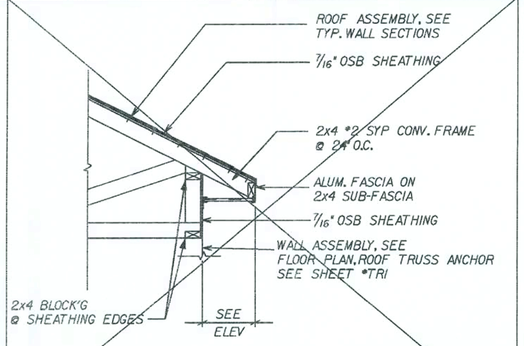
SCALE: ½" = 1'-0"



CONV. FRAMED HIP ROOF

NOT USED

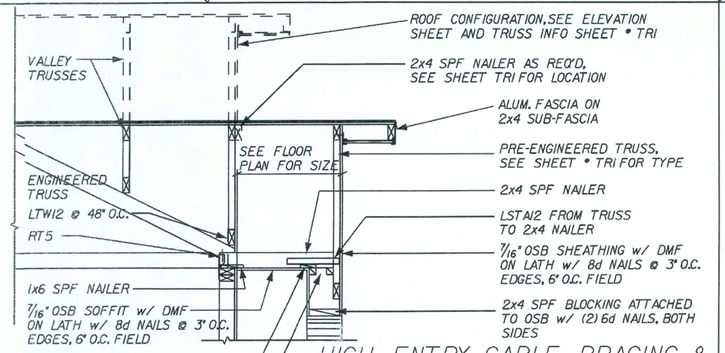
SCALE: ½" = 1'-0"



DETAIL @ RAISED HEEL

NOT USED

SCALE: ½" = 1'-0"

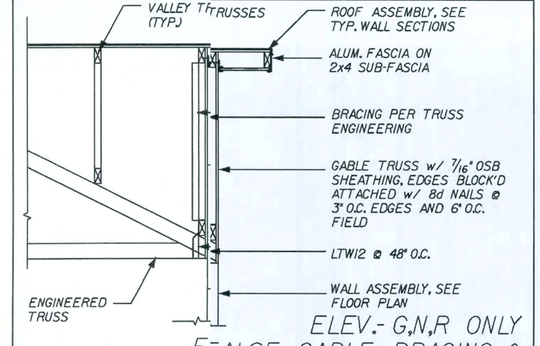


HIGH ENTRY GABLE BRACING & SHEATHING CONNECTION DETAIL

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS, NO X-BRACING NEEDED.

ELEV.- I,J,P,T ONLY

SCALE: ½" = 1'-0"

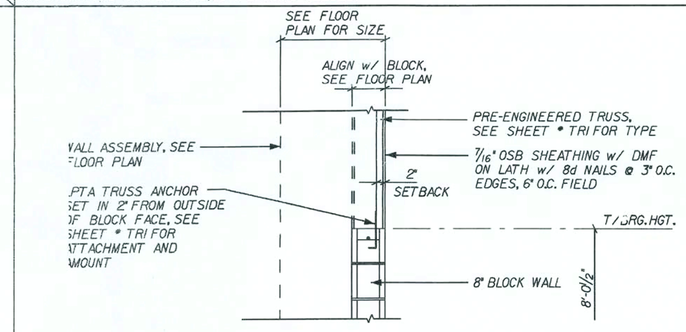


FALSE GABLE BRACING & SHEATHING CONNECTION DETAIL

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS, NO X-BRACING NEEDED.

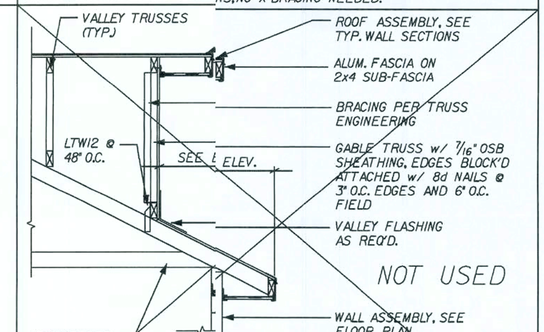
ELEV.- G,N,R ONLY

SCALE: ½" = 1'-0"



TRUSS / BLOCK CONNECTION DETAIL

SCALE: ½" = 1'-0"

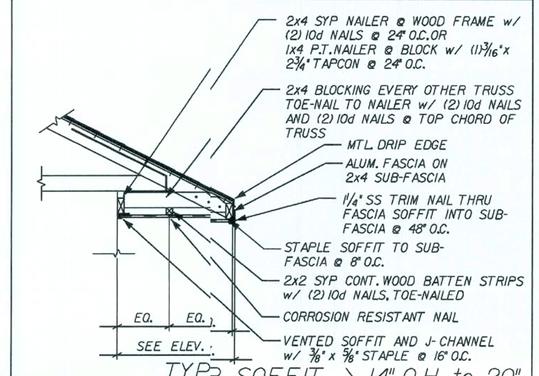


REVERSE GABLE BRACING & SHEATHING CONNECTION DETAIL

NOT USED

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS, NO X-BRACING NEEDED.

SCALE: ½" = 1'-0"



TYP. SOFFIT > 14" O.H. to 20"

REVISED 12-20-06

SCALE: ½" = 1'-0"

REVISIONS :

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P:\Houses_05\Sunbury\dfs\sfd_roof.sdf

ROOF STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008

11:51:09

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

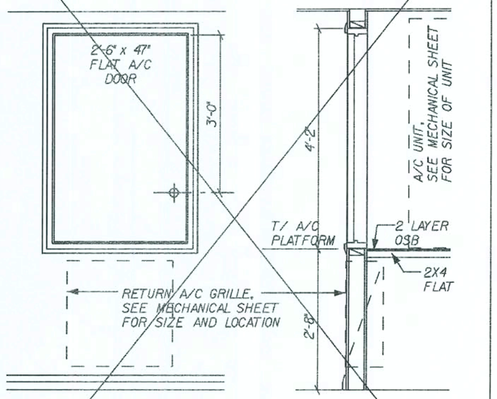
Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

SD-R

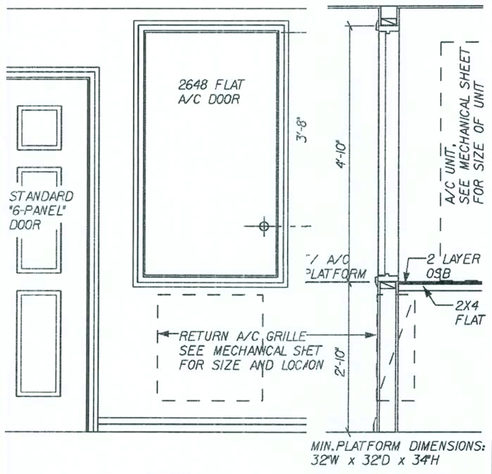
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



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

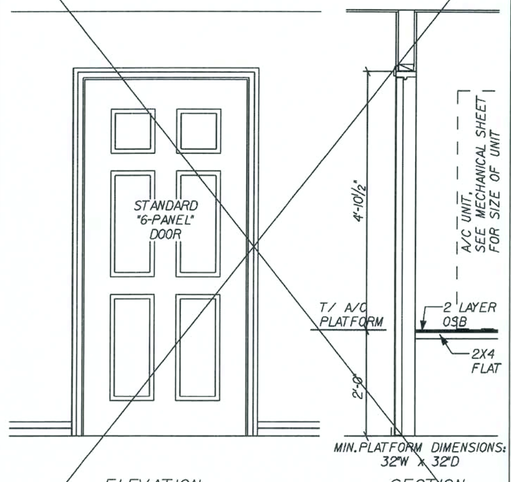
NOT USED

SCALE: ½" = 1'-0"



ENCLOSED /C PLATFORM

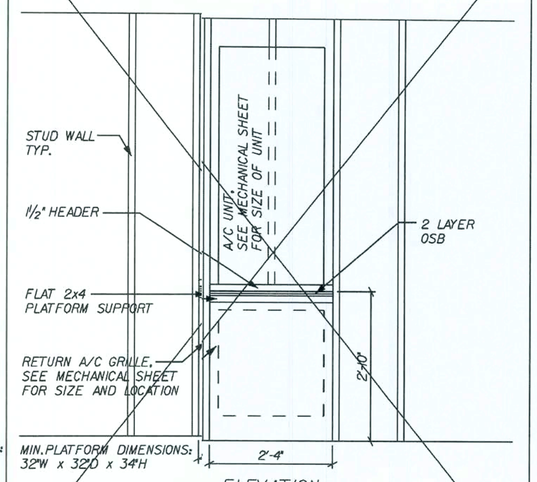
SCALE: ½" = 1'-0"



FULL DOOR ENCLOSED A/C PLATFORM

NOT USED

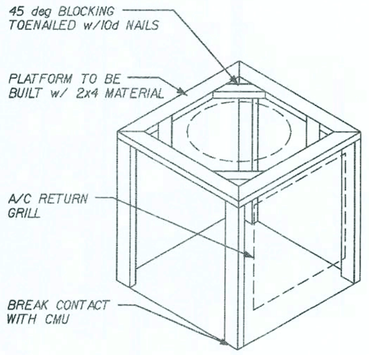
SCALE: ½" = 1'-0"



OPEN A/C PLATFORM

NOT USED

SCALE: ½" = 1'-0"



A/C PLATFORM FRAMING

REVISED 01-24-05

SCALE: ½" = 1'-0"

REVISIONS :

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STANDARD | PLATFORM DETAILS

SUNBURY-NEWBERRY

A/R-HEAT DETAILS

DRAWN BY: GARAGE:

RELEASE DATE: 10-08-04

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

Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

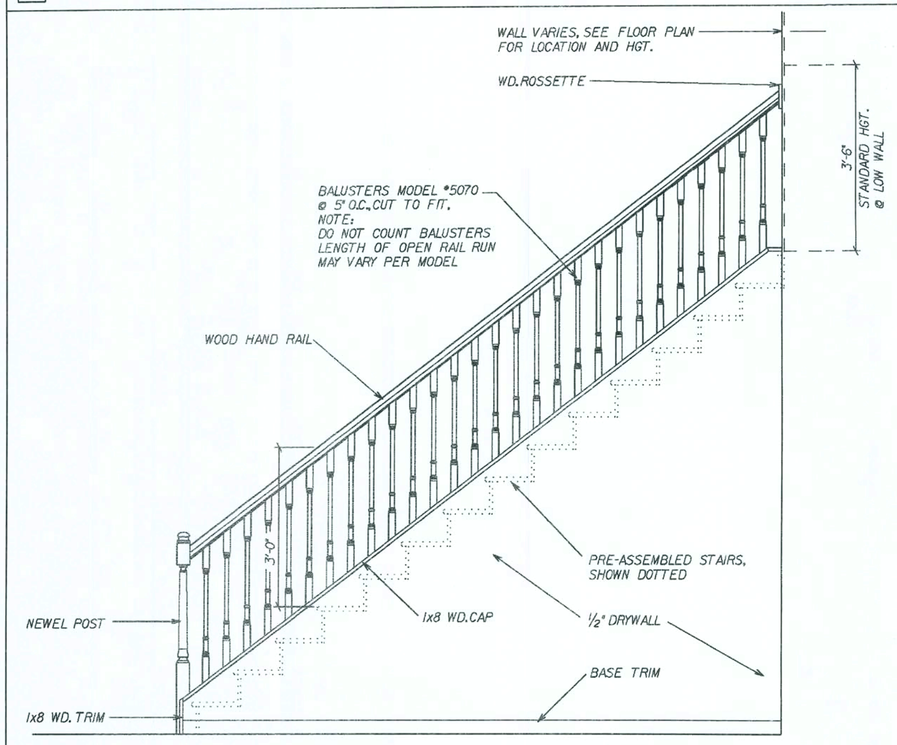
SD-H

PLOT DATE: 22 FEB 2008 11:51:09

P:\1\houses_05\sunbury\dtls\std_heating.sdh

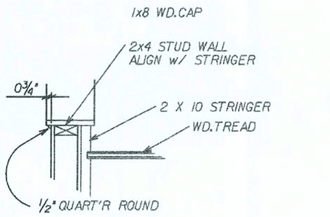
RG

OPTIONAL WOOD RAILING AND SPINDELS IN LIEU OF 42" DRYWALL SLOPED WALL

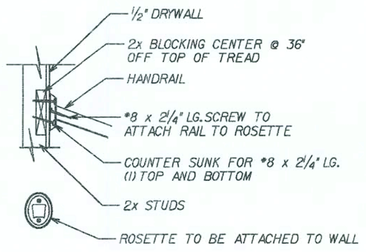


OPEN RAIL STAIR ELEVAION

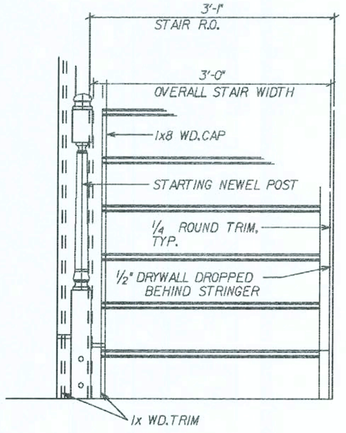
SCALE: 1" = 1'-0"

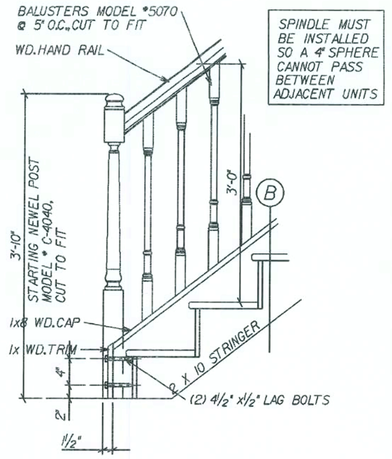


SECTION B



RAIL ATTACHMENT TO WALL

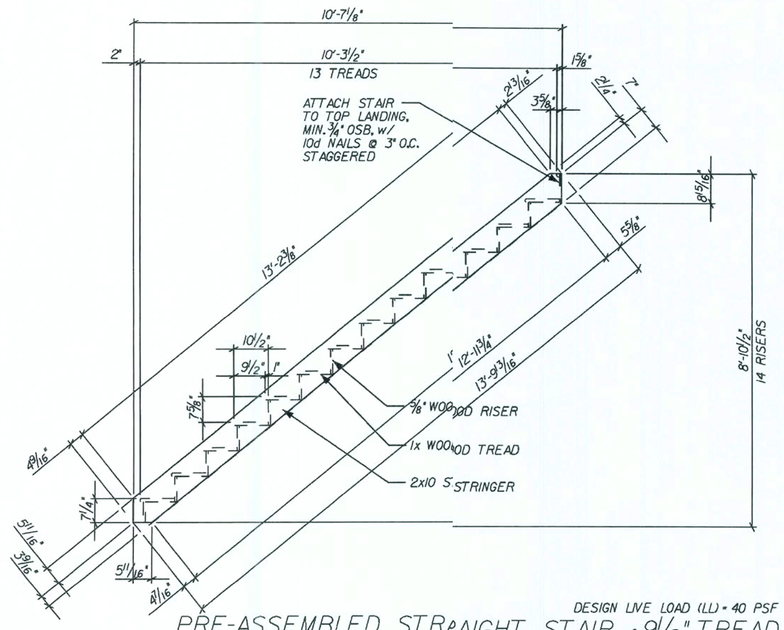




OPTIONAL OPEN RAIL STAIR DETAILS

REVISED 01-25-05

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

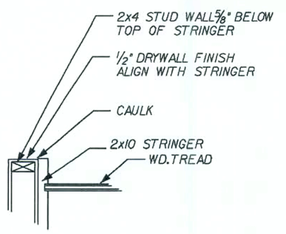


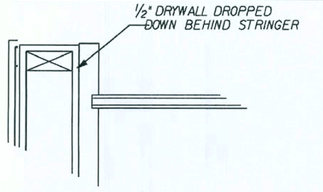
PRE-ASSEMBLED STRAIGHT STAIR : 9 1/2" TREAD

DESIGN LIVE LOAD (LL) = 40 PSF

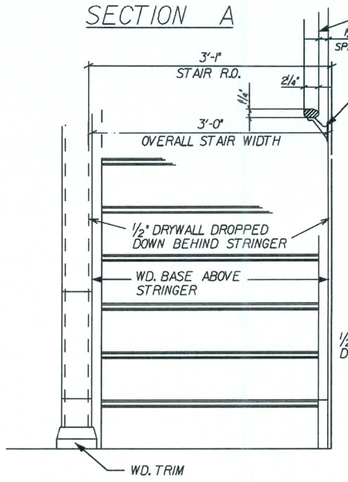
REVISED 08-24-06 NAILING ATTACHMENT

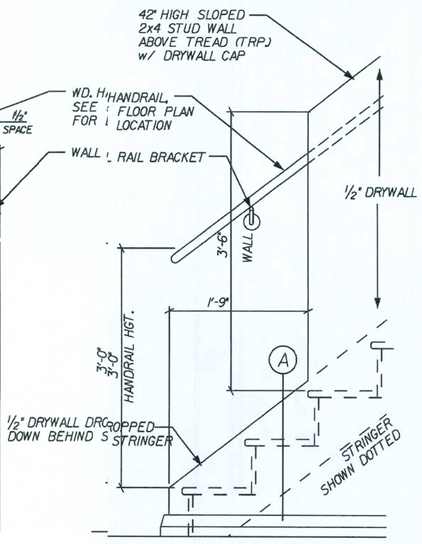
SCALE: 3/8" = 1'-0"





SECTION A





NOTE:
SECTION R311.5.6.2 HANDRAIL ENDS SHALL BE RETURNED TO WALL

REVISED 11-12-07
ADDED WOOD BASE ABOVE STRINGER

STANDARD STAIR w/ 42" HIGH WALL

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

REVISIONS :

01-16-06 STD. STAIR DETAIL w/ 21" STEP

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FLORIDA4
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9/4" FRM'G | 14 RISER : STRAIGHT

STAIR DETAILS

DRAWN BY: GARAGE:

RELEASE DATE: 03 - 28 - 05

PLOT DATE: 22 FEB 2008 11:51:10

DAVIDhouses...05\sundury\dft\s\14r-106_50.str

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

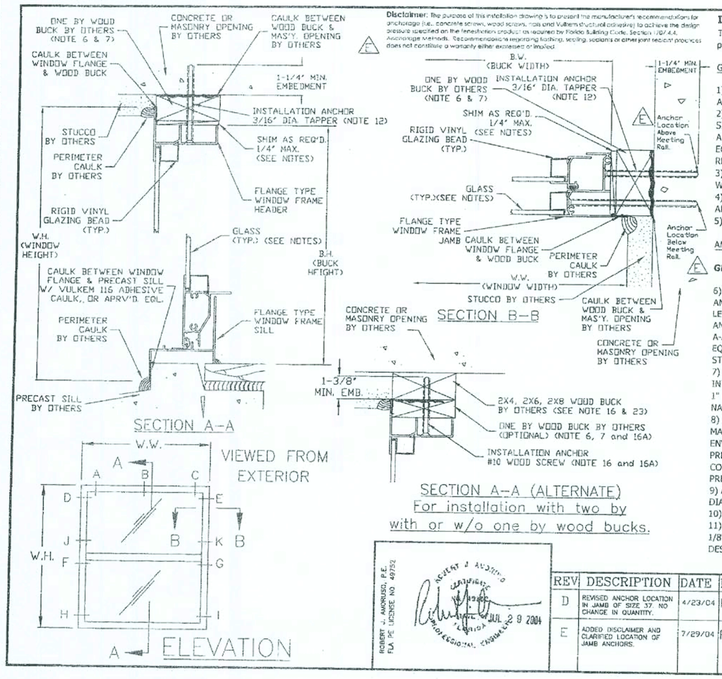
Elmer Bergman, P.E.
License No. 50158

JUL 24 2008

SHEET:

STR

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



ROBERT J. ANDRUSS, P.E. FLA. P.E. LICENSE NO. 49732

STATE OF FLORIDA ROBERT J. ANDRUSS CERTIFICATE NUMBER 49732 REGISTERED ENGINEER JUL 29 2004

Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for packaged (i.e., complete windows, wood actions, rails and fullerton custom openings) 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.

IMPORTANINFORMATION & GENERAL NOTES

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

GENERAL INSTALATION INSTRUCTIONS

1) SHIM AS REQ. AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4".
2) USE SILICONIZED ACRYLIC CAULK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTACHED TO THE SUBSTRATE WITH VULKEM 116 ADHESIVE CAULK OR APPROVED EQL. APPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL AT FRAMSILL MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.
3) USE SILICONIZED ACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANAND TO SEAL HEADS OF INSTALLATION FASTENERS.
4) FLORIDA EXTRDERS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THLORIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOW FRE MATERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSTATION INSTRUCTIONS

GENERAL:

6) NAIL ATTACHMT OF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENR. USE A HARDENED "T-NAIL" WITH A 0.097" DIAMETER AND 1 3/8" LENGTH (5/8" EDMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 1/2" LENH (3/4" EMBEDMENT) OR EQUIVALENT. FOR ALTERNATE SECTION A-A/B-B, USE A 13" DIAMETER COMMON WIRE NAIL WITH A 3/4" EMBEDMENT OR EQUIVALENT FOAILING NON-STRUCTURAL ONE BY BUCK INTO A TWO BY STRUCTURAL BE.
7) APPLIES TO NON-STRUCTURAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREATER THAN 1" NOMIMAL (3/HICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUCIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 6.
8) ALL INSTALLON ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR VE A CORROSION RESISTANT COATING APPLIED SUITABLE FOR THE ENVIRONMENT A/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOECOMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESVATIVE TREATMENT PROCESS USED.
9) ALL FIELD SUIED HOLES IN THE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
10) WOOD SCRE SHALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
11) IF WOOD TES TO SPLIT, PRE-BORE HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT LE & #10 WOOD SCREW - 9/64" DIA. PILOT HOLE (NATIONAL DESIGN SPECIFITON FOR WOOD CONSTRUCTION).

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

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

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235

TITLE: INSTALLATION DETAIL
SGL. HNG FLANGE WINDOWS - SERIES 1000, 1500 & 2000

DRAWN BY: BB | APPROVED BY: RJA
DATE: 7/29/04 | SCALE: NTS | DWG.: FLEXO016, SHT 1 OF 2

TAPPER LOCATION CHART

CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD 30PSF TO 40PSF	LOCATIONS IN HEAD 41PSF TO 70PSF	LOCATIONS IN JAMB 30PSF TO 40PSF	LOCATIONS IN JAMB 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 53 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 3/8	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

* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES.

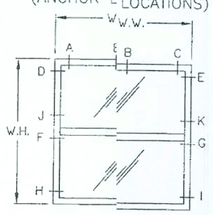
IMPORTANT INFORMATION & GENERAL NOTES (cont.)

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 AN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW SIZES
(1) 18 1/8 x 62 AND (2) 30 1/2 X 71 OR 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

VIEWED FROM EXTERIOR (ANCHOR LOCATIONS)



ELEVAATION

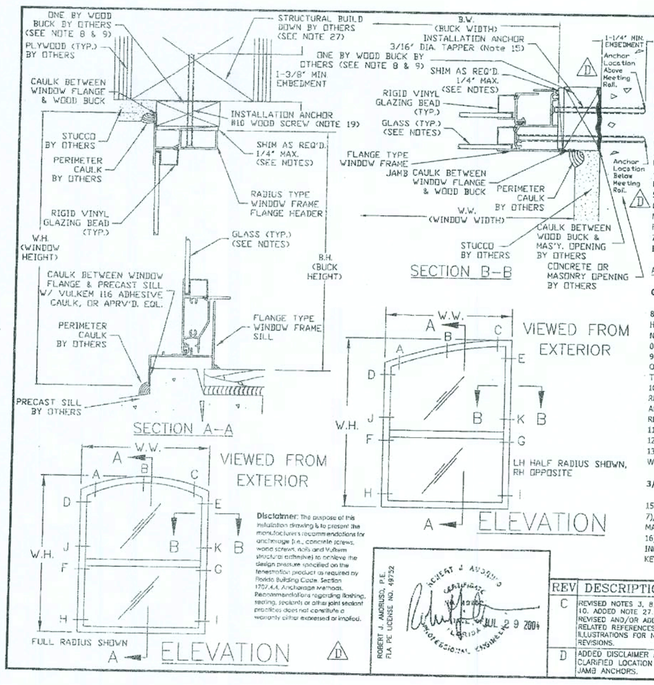
#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK - SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

16) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTUAL TWO BY WOOD BUCK 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.
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	FLORIDA EXTRUDERS	INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
B	CERTIFICATE OF AUTHORIZATION NO. 9235	
C	TITLE: INSTALLATION DETAIL	
D	SGL. HUNG FLANGE WINDOWS - SERIES 1000, 1500 & 2000	
	DRAWN BY: RJA	APPROVED BY: RJA
	DATE: 7/29/04	SCALE: NTS DWG.: FLEXO016, SHT 2 OF 2



IMPORTANT INFORMATION & GENERAL NOTES

These notes are provided to ensureproper Installation of Florida Extruders Milestone products and must be followed fully.

GENERAL INSTALLATION INSTRUONS

1) SHIM AS REQ'D. AT EACH INSTATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4"
2) USE SILICONIZED ACRYLIC CAULBEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST RE ATTACHED TO THE SUBSTRATE WITH VULKEM 1.DHESIVE CAULK OR APPROVED EQUAL. APPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EAL AT FRAME SILL MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.
3) USE SILICONIZED ACRYLIC CAUFOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGE AND TO SEAL HEADS OF INSTALLATION FASTEN.
4) FLORIDA EXTRUDERS 1000 SERSINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIENGLE HUNGS.
5) WINDOW FRAME MATERIAL: ALNUM ALLOY 6063.
6) BUILD DOWN AROUND CURVEDRTION OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFICIENT STRENGTO ADEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER FBC, SECTION 1707.4.4.
7) WINDOW UNIT CAN BE MULLED OTHER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REQUMENTS.

ANCHOR INSTALLATION INSTRUCTS

GENERAL:

8) NAIL ATTACHMENT OF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER. USE A HARDENED "T-NAIL" WITH A 0.097AMETER AND 1 3/8" LENGTH (5/8" EMBEDMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AN 1/2" LENGTH (3/4" EMBEDMENT) OR EQUIVALENT FOR THE JAMBS. USE A 0.113" DIAMETER COMMON WIRE N WITH A 3/4" EMBEDMENT OR EQUIVALENT FOR THE HEAD.
9) APPLIES TO ALL NON-STRUCTURBUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCKSTATER THAN 1" NOMIMAL (3/4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTUFFICIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 8.
10) ALL INSTALLATION ANCHORS M BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING APPLIED SUITE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVAT TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHORS CMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
11) ALL FIELD SUPPLIED HOLES IN FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
12) WOOD SCREWS SHALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
13) IF WOOD TENDS TO SPLIT, PRBE HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOLE & #10 WOOD SCREW - 9/64" DIA. PILOT H (NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION).

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

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

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

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

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235

TITLE: STALLATION DETAIL SINGLE HUNG RADIUS HEAD
FLANGE/FRAME BUILD DOWN - SERIES 1000, 1500 & 2000

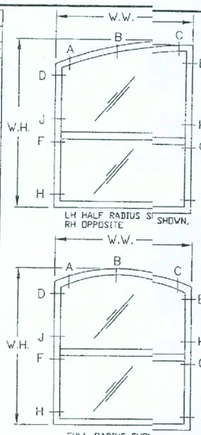
DRAWN: JBH | APPROVED BY: RJA
DATE: 7/9/04 | SCALE: NTS | DWG.: FLEXO040 SHEET 1 OF 2

ANCHOR LOCATION CHART (SEE NOTES BELOW)

CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD (see note 1 below) 30PSF TO 40PSF	LOCATIONS IN HEAD (see note 1 below) 41PSF TO 70PSF	LOCATIONS IN JAMB (see notes 2 & 3 below) 30PSF TO 40PSF	LOCATIONS IN JAMB (see notes 2 & 3 below) 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 82 3/8	41 x 81 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,C	F,G	F,G
48 x 45 17/32	47 x 44 17/32	A,B,C	A,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 83 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 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.):

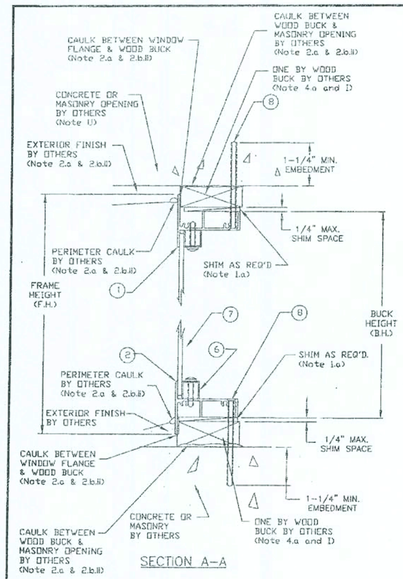
17) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (by ELCO TEXTRON INC.) OR TITEN (by SIMPSON STRONG-TIE) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW CAL
SIZE 15:
a) LIMIT TO 65 PSF, OR
b) INSTALL ONE ADDITIONAL FASTENER IN EACH 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.

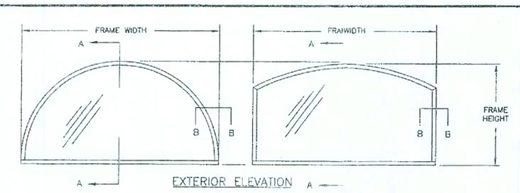
DESIGN PRESSURE RATING & FBC REQUIREMENTS

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, MAR

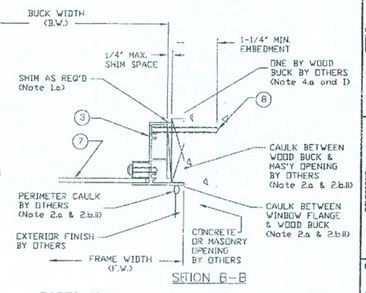


SECTION A–A

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 pressure specified on the fenestration product as required by the 2003 Florida Building Code (FBC), Section 1709.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section 2613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.



EXTERIOR ELEVATION



SETION 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 Window.

(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.

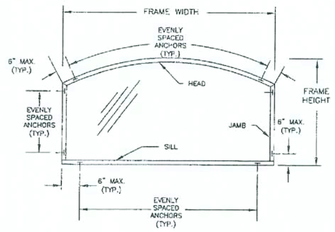
(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

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 Screw with minimum working load in shear of 5 lbs at 1 1/4" embedment. See Note (J) on drawing and Note 7 on Drawing FLEX2010
9 #10 Wood or Tapping Screw with minimum embedment of 1-3/8" into "StructiTwo By Buck or Framing". See Note (L) on drawing and Note 8 on Drawing FLEX2010

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 INSTRUCTIONS - FLEX28110

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

(I) Nail attachment of non-structural one by buck per Note 4.a.ii.2 Drawing FLEX20100.
(J) Where window is installed in an opening with a non-structural one by wood buck for the head, sill and jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
(K) Fastener spacing shall be per Notes (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 opening with a structural two by wood buck for the head, sill and jambs, use #10 wood screws of sufficient length as per "Parts List" on Sheet 1 of this drawing for wood 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 fasten aluminum assembly into the end grain of wood.
(N) Fastener spacing shall be per Notes (P), (Q) and (R) below.

FASTENER SPACING (See Elevation View on this Sheet):

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

(P) #10 wood screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner anchors but not exceeding 12" o.c. spacing in head, sill or jambs for the following configurations:
  - o eyebrow
  - o half-circle arch
  - o half-eyebrow
  - o octagon
  - o fan
  - o pentoid
  - o full-circle
  - o half-circle
  - o triangle
  - o trapezoid
  - o oval
- evenly spaced between corner anchors but not exceeding 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 based on the use of either a concrete screw or #10 wood screw as required for securing the window frame into the substrate as follows (see illustration this sheet):
- Concrete screw into concrete or masonry using a non-structural One By Wood Buck.
- #10 wood screw into a Two By Wood Buck structurally attached to concrete or masonry substrate.

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

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(S) Installations depicted in these instructions acceptable for design pressures to 70 PSF. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.
(T) 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.
(U) Concrete Header at head and/or two by by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(V) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

Drawing No. FLEX28110
Sheet 2 of 2

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

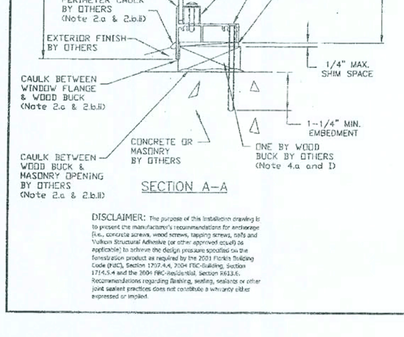
TITLE: Milestone Series 1000, 1750 and 2000 Non-Impact Resistant Aluminum Flange Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Header

REVISIONS

No.	Description	Date	By
1	Corrections per Comments 1/3/2006	1/3/06	RJA
2	Supersedes FLEX28110	12/27/05	RJA

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

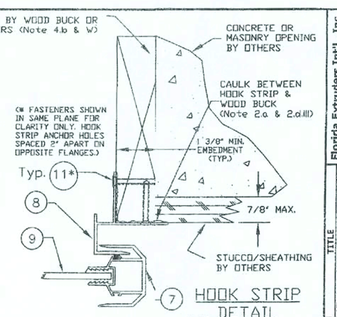
REVISIONS:

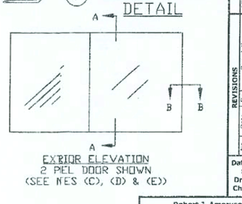


SECTION A–A

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.j 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.





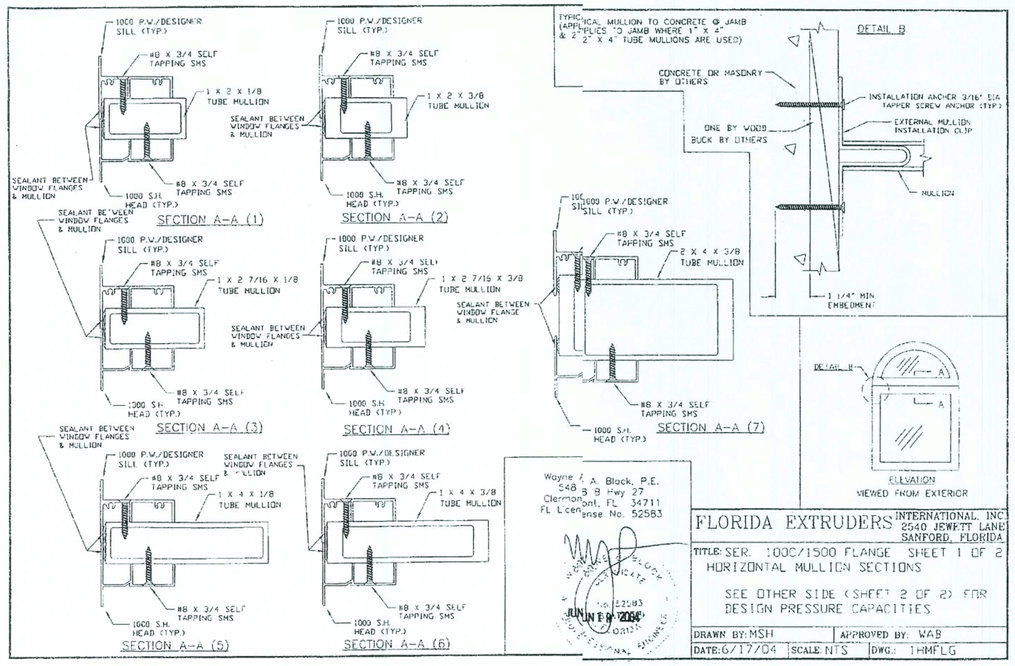
EXTRIOR ELEVATION
2 PEL DOOR SHOWN
(SEE NES (C), (D) & (E))

SECTION B–B

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, tapping screws, nails and Vulkem Structural Adhesive (or other approved equal) as applicable) to achieve the design pressure specified on the fenestration product as required by the 2003 Florida Building Code (FBC), Section 1709.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section 2613.6. Recommendations regarding flashing, sealing, sealants or joint sealant practices does not constitute a warranty either expressed or implied.

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

Drawing No. FLEX24112
Sheet 1 of 2



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548 3 B Hwy 27
Clermont, FL 34711
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JUN 1 6 2004

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	

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
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www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 500, 1000 & 2000 Non-Impact Resistant Aluminum Flange Designer Fixed Window Installation Drawing for Concrete Sill w/Concrete Screws & Wood Substrate w/#10 Wood Screws

REVISIONS

No.	Description	Date	By
1	Corrections per Comments 1/3/2006	1/3/06	RJA
0	Original Release	12/27/05	RJA

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

REVISIONS:

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

REVISIONS :

FLORIDA EXTRUDERS
WINDOWS IN BLOCK

RELEASE DATE: 3 MAR 2006

SHEET: 2 of 3

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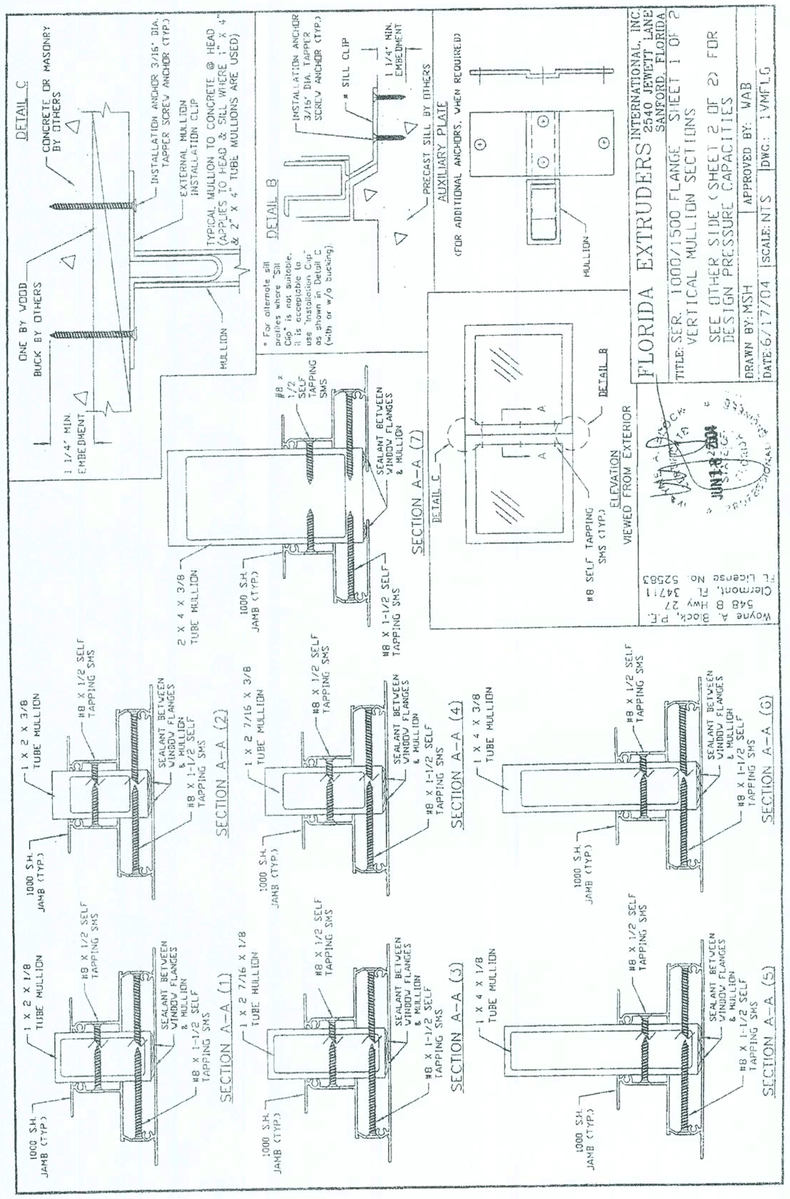

General Notes Drawing for Milestone Series 1000, 1500, 2000 and 3000 Non-Impact Resistant Aluminum Window and Patio Sliding Glass Door Installation Details

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 level on spacing where wood screws are required. It is not imperative 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 & SGD 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 (at 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. Seal'ant – 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" 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 track strip.
      2. Liberally apply sealant under sill or set sill in bed of wet concrete. Seal between back corner of sill insert and concrete. Seal at fastener holes prior to installing fastener and around head after installation.
      3. Use sealant for perimeter seal around exterior of door and between track strip & back 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. Corrosion 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 be used 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 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.

B) General Fastener Installation Instructions

5) All installation fasteners must be made of corrosion resistant materials or have a a corrosion resistant coating applied suitable for the environment and/or framing material. Where 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 #8 wood or tapping screws.
   b. 3/16" in diameter for all #10 wood or tapping screws and 3/16" diameter for concrete screws.
   c. No. 29 size drill bit for 0.136" 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" 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 fastener number of fasteners shown on the installation drawings CANNOT be decreased.
      iii. If the allowable shear load is less than the above minimum, additional site 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.

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 73/96	30 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H3	30 1/2	40 13/96	42 29/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H4	30 1/2	52 37/96	54 41/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H45	30 1/2	58 1/96	60 23/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H5	30 1/2	64 73/96	67 11/48	A, B, C	D, E, F, G, H, I
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1000/1500	3H7	30 1/2	84 1/99	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
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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 on fastener hole locations where applicable.

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

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(O) If exact window size is not listed in fastener installation table, use fastener locations listed for next larger size.

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

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

(R) Structural build-down at head, two by wood buck and/or framing at the head and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.

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

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

Drawing No. FLEX22110
Sheet 2 of 2

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

TITLE: General Notes Drawing for Milestone Series 1000, 1500, 2000 & 3000 Non-Impact Resistant Aluminum Window & 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	11/14/06	RJA	Revised Note 4.a.ii.2 & Revised Notes 2, 7, 8, 9, 11, 12, 13 & 15

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

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

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

REVISIONS

No.	Date	By	Description
0	12/27/05	RJA	Superseded FLEX20840
1	11/14/06	RJA	Revised Note 4.a.ii.2
2	3/02/07	RJA	Editorial Corrections

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

REVISIONS :

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

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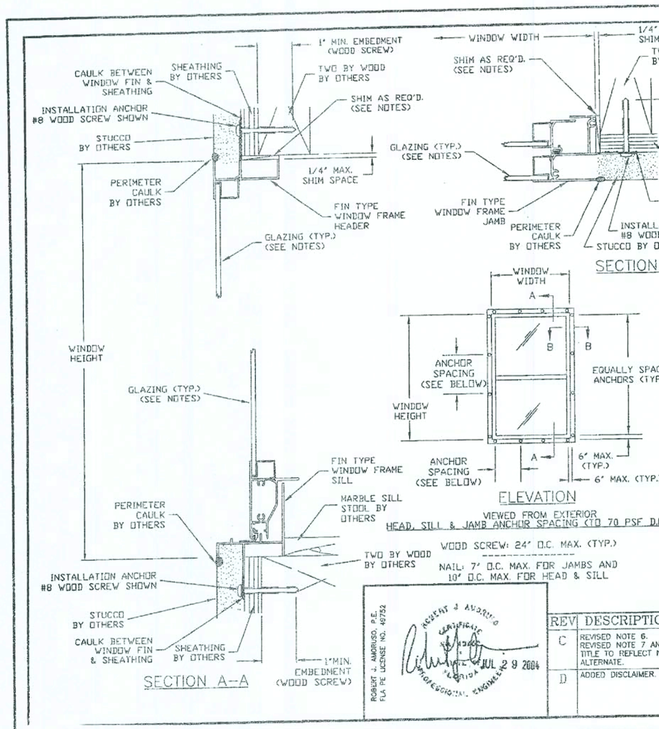
FLORIDA EXTRUDERS
WINDOWS IN BLOCK

RELEASE DATE: 31 MAR 2006

SHEET: 3 of 3



Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., wood screws and nails) 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 nor joint sealant practices does not constitute a warranty either expressed or implied.

IMPORTANT FORMATION & GENERAL NOTES

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

GENERAL INSTALLATION INSTRUCTIONS

1) SHIM AS REQ'D. EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4". APPLY A BEAD OF VULKEM 116 ADHESIVE CAULK OPPROVED EQUAL AT THE FASTENER LOCATION PRIOR TO INSERTING THE SHIO ADHERE THE SHIM TO THE SUBSTRATE AND/OR WINDOW FRAME. FI BEARING BETWEEN THE SHIM, SUBSTRATE AND WINDOW FRAME ARE REQUIR
2) USE SILICONIZECRYLIC CAULK BEHIND WINDOW FIN AT HEAD, SILL & JAMBS.
3) USE SILICONIZECRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FRAME.
4) FLORIDA EXTRUIS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOW FRAME TERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSTALLATION INSTRUCTIONS

GENERAL:

6) ALL INSTALLATION ANCHORS MUST MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING APPD SUITABLE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL WHERE ANCHORS ARE USED PRESSURE-PRESERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENTOCESS USED.
7) ALL FIELD SUPPLIED HOLES IN THE ME (IF REQUIRED) WILL BE:
   a) 3/16" IN DIAMETER FOR #8 WOODSCREWS, AND
   b) THE SHANK DIAMETER OF THE N ROUNDED UP TO THE NEXT STANDARD DESIGNATION DRILL BIT SIZE.
8) WOOD SCREWS SHALL MEET ANSI B5.1 DIMENSIONAL REQUIREMENTS.
9) NAILS SHALL MEET ASTM F 1667, "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES."
10) IF WOOD TENDS TO SPLIT, PRE-BCHOLE AS FOLLOWS (PER NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION REQUIREMENTS):
   a) #8 WOOD SCREWS - 1/8" DIA. PT HOLE.
   b) 0.113" DIA. NAILS - #44 DRILL S PILOT HOLE.
   c) OTHER NAIL DIAMETER PILOT HES NOT EXCEEDING 75% OF THE NAIL'S DIAMETER AS REQUIRED.
11) WOOD SCREW AND NAIL WITHDRAL VALUES USED TO GENERATE FASTENING REQUIREMENTS ARE BASED ON SOUTHERN PINE WITHSPECIFIC GRAVITY OF 0.55.
12) WOOD SCREWS AND NAILS SHALL F BE MIXED TO FASTEN THE SAME ASSEMBLY.
13) WOOD SCREWS AND NAILS SHALL F BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

[SEE SHEET 2 FOR CONTINUATION OF TES]

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

REV	DESCRIPTION	DATE	INI
C	REVISED NOTE 6. REVISED NOTE 7 AND TITLE TO REFLECT NAIL ALTERNATE.	12/10/03	RJA
D	ADDED DISCLAIMER.	7/29/04	RJA

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235

TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
SINGLE HUNG FIN WINDOW - SERIES 1000, 1500, & 2000

DRAWN BY: BB | APPROVED BY: RJA
DATE: 7/29/04 | SCALE: N. T. S. | DWG.:FLEX0026 SHT 1 OF 2

#8 WOOD SCREW INSTALLATION ANCHOR CHART

CALL SIZE	WINDOW SIZE	QUANTITY IN HEAD & SILL UP TO 70 PSF	QUANTITY IN EACH JAMB UP TO 70 PSF
2024	23 1/2 X 27 1/2	2	2
2030	23 1/2 X 35 1/2	2	3
2038	23 1/2 X 43 1/2	2	3
2040	23 1/2 X 47 1/2	2	3
2044	23 1/2 X 51 1/2	2	3
2050	23 1/2 X 59 1/2	2	4
2060	23 1/2 X 71 1/2	2	4
2070	23 1/2 X 83 1/2	2	4
2424	27 1/2 X 27 1/2	2	2
2430	27 1/2 X 35 1/2	2	3
2438	27 1/2 X 43 1/2	2	3
2440	27 1/2 X 47 1/2	2	3
2444	27 1/2 X 51 1/2	2	3
2450	27 1/2 X 59 1/2	2	4
2460	27 1/2 X 71 1/2	2	4
2470	27 1/2 X 82 1/2	2	4
2824	31 1/2 X 27 1/2	2	2
2830	31 1/2 X 35 1/2	2	3
2838	31 1/2 X 43 1/2	2	3
2840	31 1/2 X 47 1/2	2	3
2844	31 1/2 X 51 1/2	2	3
2850	31 1/2 X 59 1/2	2	4
2860	31 1/2 X 71 1/2	2	4
2870	31 1/2 X 83 1/2	2	4
3024	35 1/2 X 27 1/2	2	2
3030	35 1/2 X 35 1/2	2	3
3038	35 1/2 X 43 1/2	2	3
3040	35 1/2 X 47 1/2	2	3
3044	35 1/2 X 51 1/2	2	3
3050	35 1/2 X 59 1/2	2	4
3060	35 1/2 X 71 1/2	2	4
3070	35 1/2 X 83 1/2	2	4
3424	39 1/2 X 27 1/2	3	2
3430	39 1/2 X 35 1/2	3	3
3438	39 1/2 X 43 1/2	3	3
3440	39 1/2 X 47 1/2	3	3
3444	39 1/2 X 51 1/2	3	3
3450	39 1/2 X 59 1/2	3	4
3460	39 1/2 X 71 1/2	3	4
3470	39 1/2 X 83 1/2	3	4
3824	43 1/2 X 27 1/2	3	2
3830	43 1/2 X 35 1/2	3	3
3838	43 1/2 X 43 1/2	3	3
3840	43 1/2 X 47 1/2	3	3
3844	43 1/2 X 51 1/2	3	3
3850	43 1/2 X 59 1/2	3	4
3860	43 1/2 X 71 1/2	3	4
3870	43 1/2 X 83 1/2	3	4
4024	47 1/2 X 27 1/2	3	2
4030	47 1/2 X 35 1/2	3	3
4038	47 1/2 X 43 1/2	3	3
4040	47 1/2 X 47 1/2	3	3
4044	47 1/2 X 51 1/2	3	3
4050	47 1/2 X 59 1/2	3	4
4060	47 1/2 X 71 1/2	3	4
4070	47 1/2 X 83 1/2	3	4

#8 WOOD SCREW INSTALLATION ANCHOR CHART

CALL SIZE	WINDOW SIZE	QUANTITY IN HEAD & SILL UP TO 70 PSF	QUANTITY IN EACH JAMB UP TO 70 PSF
12	18 1/8 X 25	2	2
13	18 1/8 X 37 3/8	2	3
14	18 1/8 X 49 5/8	2	3
145	18 1/8 X 55 1/4	2	3
15	18 1/8 X 62	2	4
16	18 1/8 X 71	2	4
17	18 1/8 X 83	2	4
1H2	25 1/2 X 25	2	2
1H3	25 1/2 X 37 3/8	2	3
1H4	25 1/2 X 49 5/8	2	3
1H45	25 1/2 X 55 1/4	2	3
1H5	25 1/2 X 62	2	4
1H6	25 1/2 X 71	2	4
1H7	25 1/2 X 83	2	4
30 1/2 x 26	29 1/2 X 25	2	2
30 1/2 x 38 3/8	29 1/2 X 37 3/8	2	3
30 1/2 x 50 5/8	29 1/2 X 49 5/8	2	3
30 1/2 x 56 1/4	29 1/2 X 55 1/4	2	3
30 1/2 x 63	29 1/2 X 62	2	4
30 1/2 x 72	29 1/2 X 71	2	4
30 1/2 x 84	29 1/2 X 83	2	4
22	36 X 25	2	2
23	36 X 37 3/8	2	3
24	36 X 49 5/8	2	3
245	36 X 55 1/4	2	3
25	36 X 62	2	4
26	36 X 71	2	4
27	36 X 83	2	4
42 x 26	41 X 25	3	2
42 x 38 3/8	41 X 37 3/8	3	3
42 x 50 5/8	41 X 49 5/8	3	3
42 x 56 1/4	41 X 55 1/4	3	3
42 x 63	41 X 62	3	4
42 x 72	41 X 71	3	4
42 x 84	41 X 83	3	4
48 x 26	47 X 25	3	2
48 x 38 3/8	47 X 37 3/8	3	3
48 x 50 5/8	47 X 49 5/8	3	3
48 x 56 1/4	47 X 55 1/4	3	3
48 x 63	47 X 62	3	4
48 x 72	47 X 71	3	4
48 x 84	47 X 83	3	4
32	52 1/8 X 25	3	2
33	52 1/8 X 37 3/8	3	3
34	52 1/8 X 49 5/8	3	3
345	52 1/8 X 55 1/4	3	3
35	52 1/8 X 62	3	4
36	52 1/8 X 71	3	4
* 37	52 1/8 X 83	3	4

* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

#8 WOOD SCREWS:

14) SEE THIS SHEET FOR #8 WOOD SCREW INSTALLATION ANCHOR CHART.
15) #8 WOOD SCREW MUST BE OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1" INTO THE TWO BY WOOD FRAMING
16) SPACING OF WOOD SCREWS SHALL BE:
   a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
   b) EVENLY SPACED BETWEEN CORNER ANCHORS BUT NOT EXCEEDING 24" O.C. SPACING IN HEAD, SILL AND JAMBS.

NAILS:

17) NAILS SHALL MEET THE FOLLOWING REQUIREMENTS:
   a) 0.113" DIAMETER OR GREATER,
   b) SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 7/8" INTO THE TWO BY WOOD FRAMING (GENERALLY, NAIL 2 3/8" LENGTH OR GREATER SHALL MEET THIS REQUIREMENT),
   c) HELICAL (SCREW) OR ANNULAR (RING) SHANK STYLE ONLY, AND
   d) MANUFACTURER SHALL BE LISTED IN NATIONAL EVALUATION SERVICES, INC.'S NATIONAL EVALUATION REPORT, NER-272.
18) MANUFACTURER'S NAILS MEETING THESE REQUIREMENTS ARE (BUT NOT LIMITED TO) THE FOLLOWING:
   a) PASLODE DEFORMED SHANK NAIL, NO. 404947, 404537, 650111 AND 650148.
   b) DURO-FAST DEFORMED SHANK NAIL NO. 325.
19) SPACING OF NAILS SHALL BE:
   a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
   b) EVENLY SPACED BETWEEN CORNER ANCHORS AND NOT EXCEEDING 7" O.C. SPACING FOR THE JAMBS AND 10" O.C. SPACING FOR THE HEAD AND SILL.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

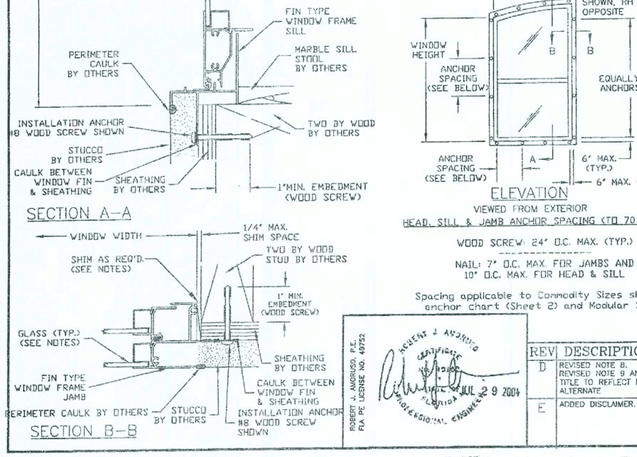
20) IF EXACT WINDOW SIZE IS NOT LISTED IN WOOD SCREW ANCHOR CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE.
21) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR WINDOW SIZES SHOWN IN CHART WITH SPACINGS SHOWN. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
22) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
23) COMPLIES WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1,2002.

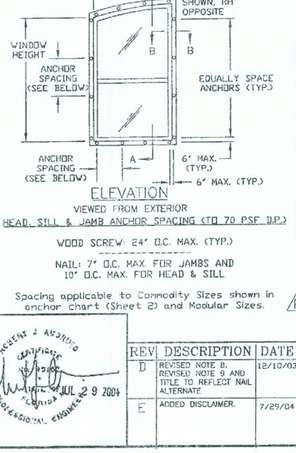
REV	DESCRIPTION	DATE	INI
A			
B			
C			
D			

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235

TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
SINGLE HUNG FIN WINDOW - SERIES 1000, 1500, & 2000

DRAWN BY: BB | APPROVED BY: RJA
DATE: 7/29/04 | SCALE: NTS | DWG.: FLEX0026 SHT 2 OF 2





Spacing applicable to Commodity Sizes shown in anchor chart (Sheet 2) and Modular Sizes.

Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., wood screws and nails) 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 INFORMATION & GENERAL NOTES

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

GENERAL INSTALLATION INSTRUCTIONS

1) SHIM AS REQ'D. AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4". APPLY BEAD OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL AT THE FASTENER LOCATION PRIOR INSERTING THE SHIM TO ADHERE THE SHIM TO THE SUBSTRATE AND/OR WINDOW FRAME. FULL RING BETWEEN THE SHIM, SUBSTRATE AND WINDOW FRAME ARE REQUIRED.
2) USE SILICONIZED ACRYLIC CA BEHIND WINDOW FIN AT HEAD, SILL & JAMBS.
3) USE SILICONIZED ACRYLIC CA FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FRAME.
4) FLORIDA EXTRUDERS 1000 SER SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 0 SERIES SINGLE HUNGS.
5) WINDOW FRAME MATERIAL: MINUM ALLOY 6063.
6) BUILD DOWN AROUND CURVBORTION OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFINT STRENGTH TO ADEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER FBC, SION 1707.4.4.
7) WINDOW UNIT CAN BE MULTIO OTHER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REQEMENTS.

ANCHOR INSTALLATION INSTRUCTIONS

GENERAL:

8) ALL INSTALLATION ANCHORS ST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATINGPLIED SUITABLE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL WHERE ANCHORS ARBED IN PRESSURE-PRESERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED' RECOMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATIT PROCESS USED.
9) ALL FIELD SUPPLIED HOLES IN E FRAME (IF REQUIRED) WILL BE:
   a) 3/16" IN DIAMETER FOR #8OD SCREWS, AND
   b) THE SHANK DIAMETER OF NAIL ROUNDED UP TO THE NEXT STANDARD DESIGNATION DRILL BIT SI
10) WOOD SCREWS SHALL MEET I 8.6.1 DIMENSIONAL REQUIREMENTS.
11) NAILS SHALL MEET ASTM F 1 "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES."
12) IF WOOD TENDS TO SPLIT, PRORE HOLE AS FOLLOWS (PER NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION RTQEMENTS):
   a) #8 WOOD SCREWS - 1/8" PILOT HOLE.
   b) 0.113" DIA. NAILS - #44 DI SIZE PILOT HOLE.
   c) OTHER NAIL DIAMETER PILHOLES NOT EXCEEDING 75% OF THE NAIL'S DIAMETER AS REQUIRED.
13) WOOD SCREW AND NAIL WITRAWAL VALUES USED TO GENERATE FASTENING REQUIREMENTS ARE BASED ON SOUTHERN PINE W A SPECIFIC GRAVITY OF 0.55.
14) WOOD SCREWS AND NAILS SL NOT BE MIXED TO FASTEN THE SAME ASSEMBLY.
15) WOOD SCREWS AND NAILS SL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

[SEE SHEET 2 FOR CONTINUATIC NOTES]

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

REV	DESCRIPTION	DATE	INI
D	REVISED NOTE 8. REVISED NOTE 9 AND TITLE TO REFLECT NAIL ALTERNATE	12/10/03	RJA
E	ADDED DISCLAIMER.	7/29/04	RJA

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235

TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
SINGLE HUNG RIUS HEAD FIN - SERIES 1000, 1500, & 2000

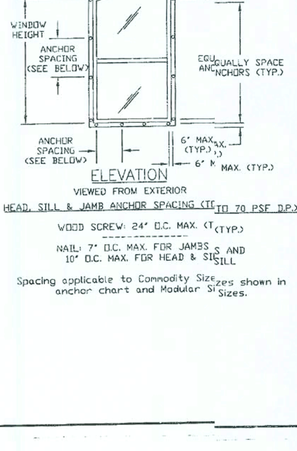
DRAWN BY: JBH | APPROVED BY: RJA
DATE: 7/29/04 | SCALE: N. T. S. | DWG.:FLEX0041 SHEET 1 OF 2

#8 WOOD SCREW INSTALLATION ANCHOR CHART

CALL SIZE	WINDOW SIZE	QUANTITY IN HEAD & SILL UP TO 70 PSF	QUANTITY IN EACH JAMB UP TO 70 PSF
12	18 1/8 X 27 5/16	2	2
13	18 1/8 X 39 11/16	2	3
14	18 1/8 X 51 15/16	2	3
145	18 1/8 X 57 19/32	2	4
15	18 1/8 X 64 5/16	2	4
16	18 1/8 X 73 5/16	2	4
1H2	25 1/2 X 28 9/16	2	2
1H3	25 1/2 X 40 15/16	2	3
1H4	25 1/2 X 53 3/16	2	3
1H45	25 1/2 X 58 13/16	2	3
1H5	25 1/2 X 65 9/16	2	4
1H6	25 1/2 X 74 9/16	2	4
29 1/2 x 29 7/32	29 1/2 X 29 7/32	2	2
29 1/2 x 41 19/32	29 1/2 X 41 19/32	2	3
29 1/2 x 53 27/32	29 1/2 X 53 27/32	2	3
29 1/2 x 59 15/32	29 1/2 X 59 15/32	2	4
29 1/2 X 66 7/32	29 1/2 X 66 7/32	2	4
29 1/2 X 75 7/32	29 1/2 X 75 7/32	2	4
22	36 X 30 5/16	2	2
23	36 X 42 11/16	2	3
24	36 X 54 15/16	2	3
245	36 X 60 9/16	2	4
25	36 X 67 5/16	2	4
26	36 X 76 5/16	2	4
41 X 31 5/32	41 X 31 5/32	3	2
41 X 43 17/32	41 X 43 17/32	3	3
41 X 55 25/32	41 X 55 25/32	3	3
41 X 61 3/8	41 X 61 3/8	3	3
41 X 68 5/32	41 X 68 5/32	3	4
41 X 77 5/32	41 X 77 5/32	3	4
47 X 32 5/32	47 X 32 5/32	3	2
47 X 44 17/32	47 X 44 17/32	3	3
47 X 56 25/32	47 X 56 25/32	3	3
47 X 62 3/8	47 X 62 3/8	3	3
47 X 69 5/32	47 X 69 5/32	3	4
47 X 78 5/32	47 X 78 5/32	3	4
32	52 1/8 X 33	3	2
33	52 1/8 X 45 3/8	3	3
34	52 1/8 X 57 5/8	3	3
345	52 1/8 X 63 1/4	3	3
35	52 1/8 X 70	3	4
36	52 1/8 X 79	3	4

INSTALLATION ANCHOR CHART NOTES:

1. Window sizes shown are for Commodity Size Windows.
2. Modular Size Windows will use the anchor quantities shown for the next larger sized Commodity Window.
3. Anchor spacing requirements for Commodity and Modular Size Windows shown on this sheet.
4. Dimensions given are for half radius head units, full radius will be shorter.



Spacing applicable to Commodity Sizes shown in anchor chart and Modular Sizes.

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

#8 WOOD SCREWS:

16) SEE THIS SHEET FOR #8 WOOD SCREW INSTALLATION ANCHOR CHART.
17) #8 WOOD SCREW MUST BE OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1" INTO THE TWO BY WOOD BUCK OR BUILD-DOWN STRUCTURAL FRAMING COMPONENT.
18) SPACING OF WOOD SCREWS SHALL BE:
   a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
   b) EVENLY SPACED BETWEEN CORNER ANCHORS BUT NOT EXCEEDING 24" O.C. SPACING IN HEAD, SILL AND JAMBS.

NAILS:

19) NAILS SHALL MEET THE FOLLOWING REQUIREMENTS:
   a) 0.113" DIAMETER OR GREATER,
   b) SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 7/8" INTO THE TWO BY WOOD BUCK OR BUILD-DOWN STRUCTURAL FRAMING COMPONENT(GENERALLY, NAIL 2 3/8" LENGTH OR GREATER SHALL MEET THIS REQUIREMENT),
   c) HELICAL (SCREW) OR ANNULAR (RING) SHANK STYLE ONLY, AND
   d) MANUFACTURER SHALL BE LISTED IN NATIONAL EVALUATION SERVICES, INC.'S NATIONAL EVALUATION REPORT, NER-272.
20) MANUFACTURER'S NAILS MEETING THESE REQUIREMENTS ARE (BUT NOT LIMITED TO) THE FOLLOWING:
   a) PASLODE DEFORMED SHANK NAIL, NO. 404947, 404537, 650111 AND 650148.
   b) DURO-FAST DEFORMED SHANK NAIL NO. 325.
21) SPACING OF NAILS SHALL BE:
   a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
   b) EVENLY SPACED BETWEEN CORNER ANCHORS AND NOT EXCEEDING 7" O.C. SPACING FOR THE JAMBS AND 10" O.C. SPACING FOR THE HEAD AND SILL.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

22) IF EXACT WINDOW SIZE IS NOT LISTED IN WOOD SCREW ANCHOR CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE.
23) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR WINDOW SIZES SHOWN IN CHART WITH SPACINGS SHOWN. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
24) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
25) COMPLIES WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.

REV	DESCRIPTION	DATE	INI
B			
C			
D			
E			

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235

TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
SINGLE HUNG RADIUS HEAD FIN - SERIES 1000, 1500, & 2000

DRAWN BY: RJA | APPROVED BY: RJA
DATE: 7/29/04 | SCALE: N. T. S. | DWG.:FLEX0041 SHEET 2 OF 2

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

REVISIONS :

RELEASE DATE: 03 APR 2006 09:10:46

FLORIDA EXTRUDERS
WINDOWS IN FRAME

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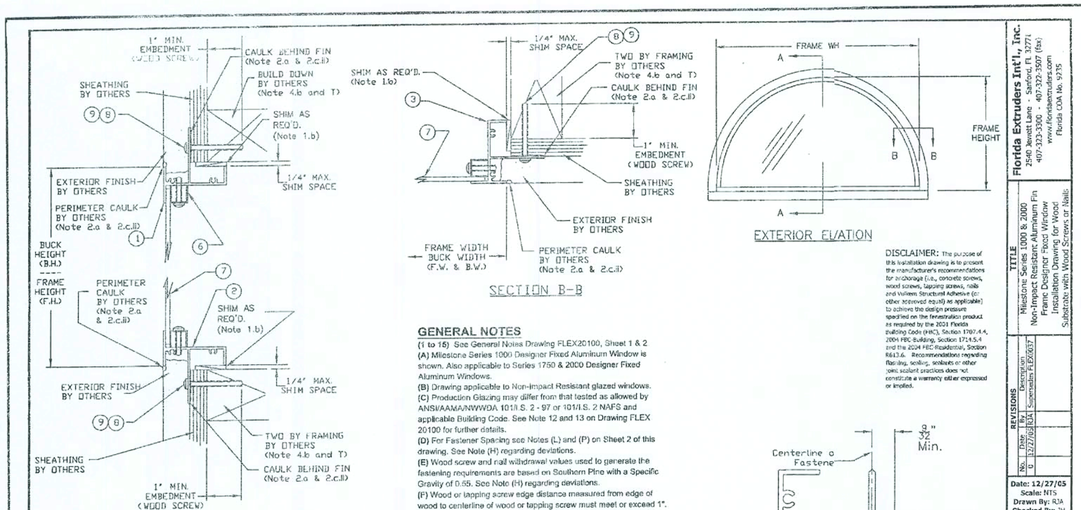
SHEET: 1 of 3

c:\pasteuptitle.dgn Apr. 03, 2006 09:10:46



SECTION A-A

SECTION B-B

EXTERIOR ELEVATION

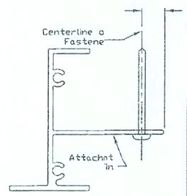
PARTS LIST

1 Head - FinFrame
2 Sill - Fin Frame
3 Jamb - Fin Frame
4 Not Used
5 Not Used
6 Glazing Bead - Rigid Vinyl
7 Glazing - See Note (B) and (C)
8 #8 Wood or Tapping Screw with a minimum embedment of 1" into the structural wood substrate. See Note (K) and Detail A on this drawing and Note 4.b & 8 on Drawing FLEX20100.
9 Round Head Deformed Shank Nail with minimum: 0.113" diameter (11 GA) and minimum embedment of 1-7/8" into the structural wood substrate. See Note (N) and Detail A on this drawing and Notes 4.b & 9 on Drawing FLEX20100.

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2
(A) Milestone Series 1000 Design or Fixed Aluminum Window is shown. Also applicable to Series 1750 & 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 Spacing see Notes (L) and (P) on Sheet 2 of this drawing. See Note (H) regarding deviations.
(E) Wood screw and nail withdrawal values used to generate the fastening requirements are based on Southern Pine with a Specific Gravity of 0.55. 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) Nail edge distance measured from edge of wood to centerline of nail must meet or exceed 9/16" or 5 times Shank Diameter, whichever is larger. Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(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.
(I) All field supplied holes in the frame (if required) will be 3/16" in diameter for #8 wood screws or the shank diameter of the nail rounded up to the next standard designation drill bit size.
(J) Wood Screws and Nails SHALL NOT be mixed to fasten the same assembly.

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 Volkem Structural Adhesive (or other approved equal) as applicable) to achieve this design pressure specified on the fenestration product as required by the 2021 Florida Building Code (FBC), Section 1709.7.4, 2004 FBC Building, Section 1715.5.4 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.



Wood Screw or Nailead must be in full contact withtachment Fin. Centerline of faster shall be approximately 9/32rom edge of Attachment Fin.

DETL A

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

Drawing No. FLEX28120
Sheet 1 of 2

FASTENER INSTALLATION INSTRUCTIONS - FLEX28120

#8 WOOD SCREWS:

(K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing or the build-down framing component.
(L) #8 Wood Screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner fasteners but not exceeding 24" o.c. spacing in head, sill or jambs for the following configurations at design pressures to 70 PSF:
  - eyebrow
  - half-circle arch
  - half-eyebrow
  - octagon
  - fan
  - pentoid
  - full-circle
  - half-circle
  - triangle
  - trapezoid
  - oval
- evenly spaced between corner fasteners but not exceeding 16" o.c. spacing in head, sill or jambs for the following configurations at design pressures to 70 PSF:
  - quarter-circle
  - quarter-circle arch
  - half-fan

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

NAILS:

(N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of 1 7/8" into the two by wood or build-down framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annular (ring) shank style only.

(O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
- Dura-Fast deformed shank nail No. 325.

(P) Spacing of nails shall be:
- 6" from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jambs for the following configurations at design pressures 46 to 70 PSF:
  - eyebrow 7" o.c. spacing
  - half-eyebrow 7" o.c. spacing
  - fan 7" o.c. spacing
  - half-fan 5" o.c. spacing
  - full-circle 9" o.c. spacing
  - half-circle 7" o.c. spacing
  - half-circle arch 7" o.c. spacing
  - quarter-circle 5" o.c. spacing
  - quarter-circle arch 5" o.c. spacing
  - oval 15" o.c. spacing
  - octagon 9" o.c. spacing
  - pentoid 7" o.c. spacing
  - triangle 7" o.c. spacing
  - trapezoid 7" o.c. spacing

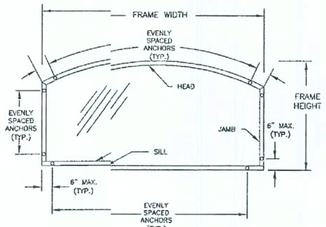
(P) Spacing of nails shall be (continued):
- evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jambs for the following configurations at design pressures to 45 PSF:
  - eyebrow 12" o.c. spacing
  - half-eyebrow 12" o.c. spacing
  - fan 11" o.c. spacing
  - half-fan 8" o.c. spacing
  - full-circle 14" o.c. spacing
  - half-circle 11" o.c. spacing
  - half-circle arch 12" o.c. spacing
  - quarter-circle 8" o.c. spacing
  - quarter-circle arch 8" o.c. spacing
  - oval 24" o.c. spacing
  - octagon 14" o.c. spacing
  - pentoid 12" o.c. spacing
  - triangle 12" o.c. spacing
  - trapezoid 12" o.c. spacing

(Q) Nails shall not be used to fasten assembly into end grain of wood

DESIGN PRESSURE RATING

(R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing in Notes (L) and (P). Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.
(S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(T) Structural two by wood and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.
(U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

NG & FBC CODE COMPLIANCE



EXTERIOR ELEVATION

ANCHOR SPACING ILLUSTRATION
EYEBROW ARCH DESIGNER WINDOW

Drawing No. FLEX28120
Sheet 2 of 2

Florida Extruders Int'l, Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-322-3507 (fax)
www.floridaextruders.com
Florida ELA No. 9253

TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Fin Windows & Doors Installation Drawing for Wood Substrate with Wood Screws or Nails

REVISIONS

No.	Description	By	Date
1	Corrected Sheet 2 Of 2	Sorensen Engineering	12/27/05

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

REVISIONS :

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

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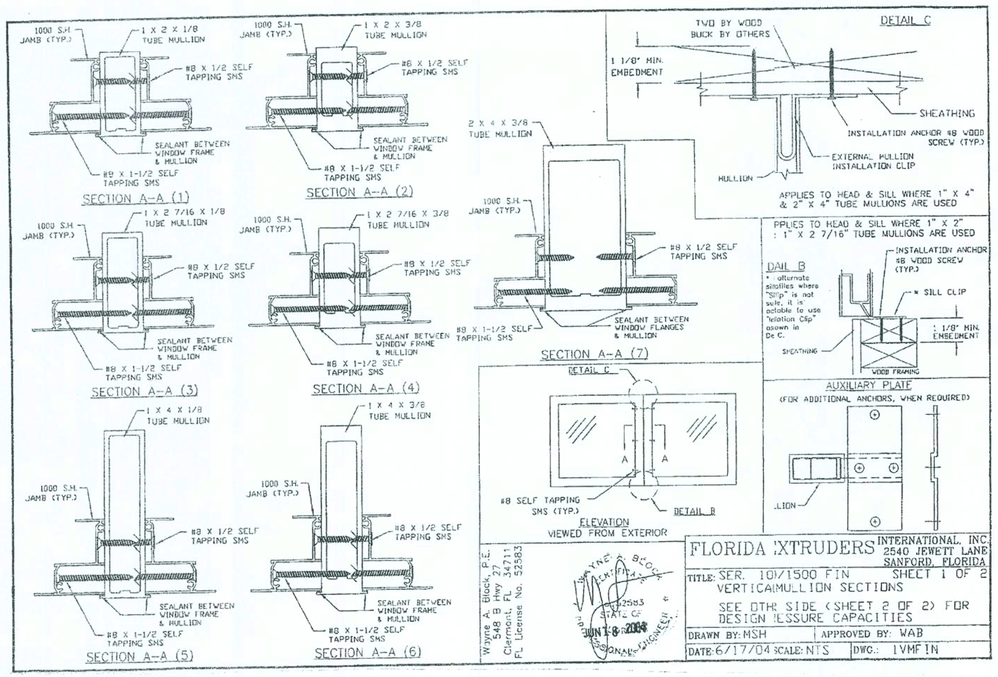

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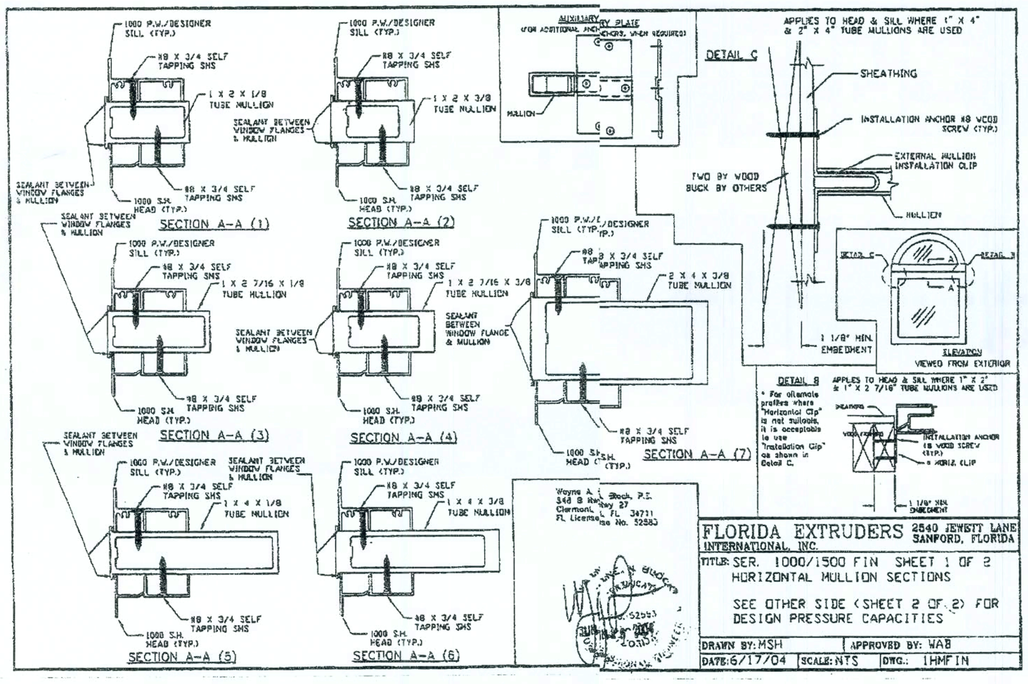
348 B Highway 27
Clermont, FL 34711
FL License No. 52583

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

TITLE: SER. 1000/1500 FIN SHEET 1 OF 2
VERTICAIMULLION SECTIONS

SEE OTHE SIDE (SHEET 2 OF 2) FOR DESIGN IESSURE CAPACITIES

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



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348 B Highway 27
Clermont, FL 34711
FL License No. 52583

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

TITLE: SER. 1000/1500 FIN 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.: 1HMFIN

FLORIDA EXTRUDERS
WINDOWS IN FRAME

RELEASE DATE:

03 APR 2006 09:03

SHEET:
2 of 3

c:\pasteuptitle.dgn Apr. 03, 2006 09:11:03

GENERAL NOTES

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

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

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

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

(D) For Fastener Spacing see Elevation View on Sheet 1 and Notes (L) & (P) on Sheet 2 of this drawing. See Note (H) regarding deviations.

(E) Wood screw and nail withdrawal values used to generate the fastening requirements are based on Spruce-Pine-Fur with a Specific Gravity of 0.50. See Note (H) regarding deviations.

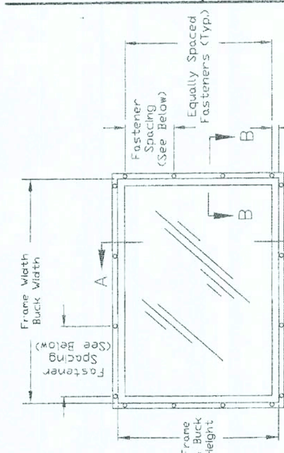
(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(G) Nail edge distance measured from edge of wood to centerline of nail must meet or exceed 9/16" or 5 times Shank Diameter, whichever is larger. Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(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.

(I) All field supplied holes in the frame (if required) will be 3/16" in diameter for #8 wood screws or the shank diameter of the nail rounded up to the next standard decimal drill bit size.

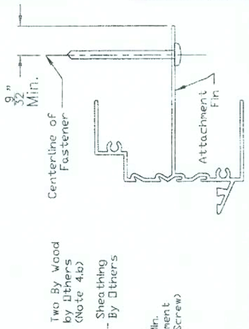
(J) Wood Screws and Nails SHALL NOT be mixed to fasten the same assembly.

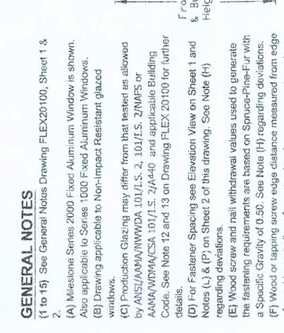


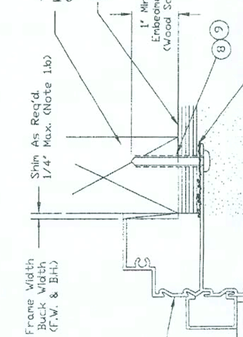
Head, Sill & Jamb Anchor Spacing

Wood Screw - TO 70 PSF D.P.: 18" O.C. Max.

Nail	
61 PSF TO 70 PSF D.P.:	5-1/2" O.C. Max.
51 PSF TO 60 PSF D.P.:	6-1/2" O.C. Max.
46 PSF TO 50 PSF D.P.:	8" O.C. Max.
41 PSF TO 45 PSF D.P.:	8-1/2" O.C. Max.
36 PSF TO 40 PSF D.P.:	9-1/2" O.C. Max.
TO 35 PSF D.P.:	12" O.C. Max.







PARTS LIST

1 - Head - FinFrame
2 - Sill - Fin Frame
3 - Jamb - Fin Frame
4 - Not Used
5 - Not Used
6 - Glazing Bead
7 - Glazing - See Note (F) and (C) on Sheet 2 and Detail A on this drawing and Note 4.b & 8 on Drawing FLEX20100
9 - Round Head Deformed Shank Nail with minimum 0.113" diameter (11 GA) and minimum embedment of 1-7/8" into the structural wood substrate. See Note (N) on Sheet 2 and Detail A on this drawing and Notes 4.b & 9 on Drawing FLEX20100

DISCLAIMER: The product pictured in this drawing is to present the manufacturer's recommendations for installation of the window, wood screws, tapping screws, and nails to achieve the design pressure specified. Depending on the product as required by the 2001 Florida Building Code, Residential, Section R609.4, and 2004 Florida Building Code, Residential, Section R609.4, Fenestration regarding flashing, sealants or other joint sealant requirements, these provisions are not expressed as a warranty either expressed or implied.

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

JAMES AMORUSO LICENSE NO. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Drawing No. FLEX27120
Sheet 1 of 2

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Superseded FLEX0035
1	11/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised edge distance callouts

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

TITLE
Milestone Series 1000 & 2000
Non-Impact Resistant Aluminum Fin Frame Fixed Window
Installation Drawing for Wood Substrate with Wood Screws or Nails

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

FASTENER INSTALLATION INSTRUCTIONS - FLEX27120

#8 WOOD SCREWS:

(K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing.

(L) Spacing of wood screws shall be:
- 4-1/2" max. from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners but not exceeding 18" o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
- Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from frame/buck width or height dimension of frame.

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

NAILS:

(N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of 1 7/8" into the two by wood framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annular (ring) shank style only.

(O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
- Duro-Fast deformed shank nail No. 325.

(P) Spacing of nails shall be:
- 4-1/2" max. from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners and not exceeding o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
- Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from frame/buck width or height dimension of frame.

(Q) Nails shall not be used to fasten assembly into end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing shown the Elevation View on Sheet 1 of this drawing for the following window sizes:
- to 52 1/8" x 95
- to 63" x 80"
- to 71" x 71"
- to 73" x 73"
- to 83" x 55 1/4"
- to 95" x 49 5/8"
- to 119" x 37 3/8"

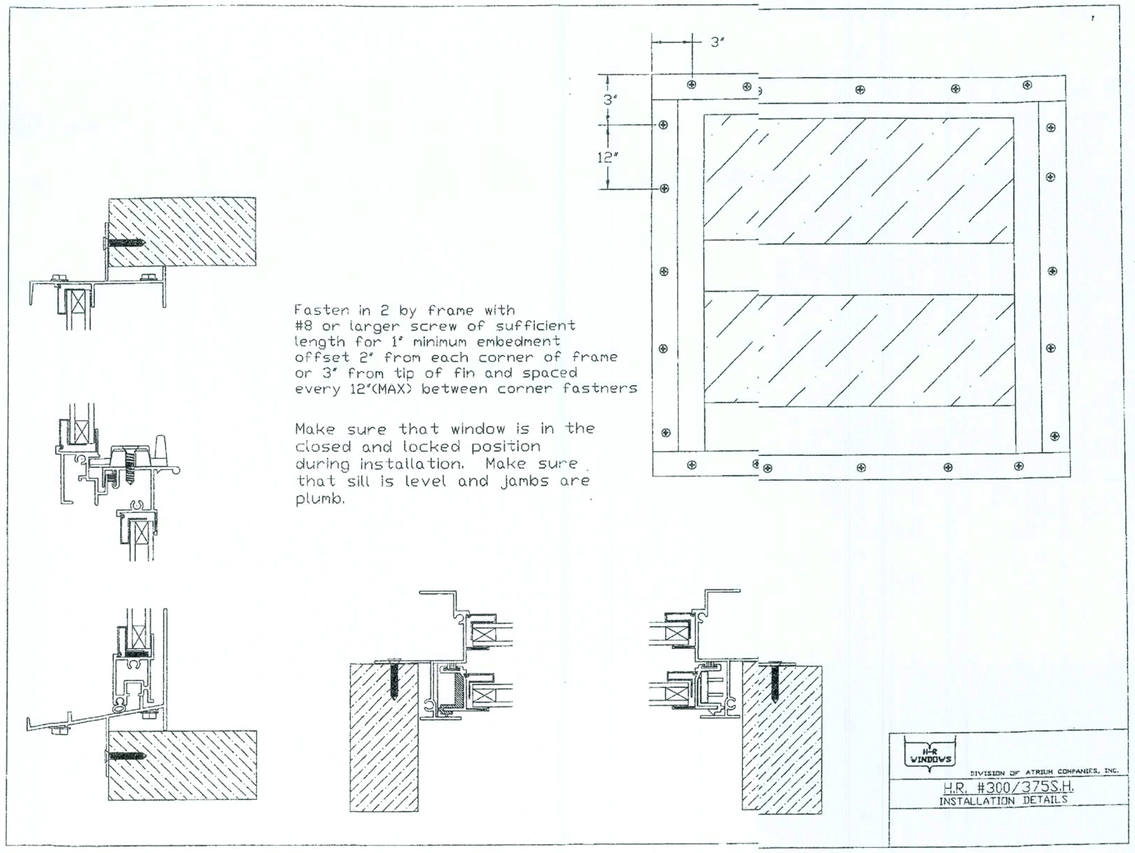
Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.

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

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

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

Drawing No. FLEX27120
Sheet 2 of 2



H-R WINDOWS
DIVISION OF ATRIUM COMPANIES, INC.
H.R. #300/375S.H.
INSTALLATION DETAILS

REVISIONS :
3-11 DS Revised

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

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FLORIDA EXTRUDERS
WINDOWS IN FRAME

RELEASE DATE:

$DATE$ $TIME$ $FILE$

SHEET:
3 of 3

c:\fia-extrud.dgn Sep. 01, 2006 09:32:39

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 ted products. Information regarding statewide product approval may be obtained at: www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Limitation of Us	State #	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc.	Fiberglass Doors	Evaluated for use in locations adhering to the Florida Bldng Code and where pressure requirements as determin by ASCE 7 Minimum Designloads For Building and Other Structures.	FL 6729.1 FL 6729.5	+ 50 / -50 + 50 / -50
2. Sliding	Simonton/Norandex Florida Extruders	Sliding Glass Doors	500 72X80 SGD45 Milestone 1000 SG.	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 evcation report and Installation 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-5	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 Fixed 341 Flange Frame Fixed Milestone 1000 Fixed	437.438 111X63 F-C 3/16 Tempered ass 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 locations adhering to the Florida Bldng Code and where pressure requirements as determin by ASCE 7 Minimum Designloads for Building and Other Sructures.	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 for use within the FBC HVZ or on Education Facilities within the State of Florida. Vyl Siding is limited to the V construction, as defin below. Section 602.5- TYPE CONSTRUCTION Type V construction is the pe of construction in whiche structural elements, exter walls and interior wa are of ant material permitted by this code. Complianc is valid only if the subject profile trade ame is current on the VSI Vin Siding 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 an Not 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 FBBC sections that apply to counties except Broward and MMiami-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 I 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 FBBC sections that apply to counties except Broward and MMiami-Dade must be followed.	FL 5289.1 FL 8103.1 FL 3792.5	
E. SHUTTERS					
1. Storm Panels	Atrium Shutters, Inc. K&D Manufacturing All American Shutters, Inc.	5L Panel Galv. Stl Storm	This product may only be Installed on concrete, hollow concrete block or wood substrates. This product is NOT suitable for Installation in the High Velocity Hurricane Zone.	FL 5547.1 FL 2773.1 FL 393.1	50 PSF +47 / -50
F. STRUCTURAL COMPONENTS					
1. Wood connector/anchor	United Steel Products	Anchors, Hangers Etc. Structural Components Wood Connectors	Subject to limitation and Installation Instructions specified in NOA 05-0105.05	FL RI, 565, 569, 572, 576, 815, 816, 817, 818, 819, 820, 821, 822, 859, 1247, 1777, 2033, 2620, 3923, 4928, 5631, 6223	
2. Truss plates	Mitek Industries Inc.	Truss Connectors	No Limitation of Use.	FL 2197 RI	
3. Engineered lumber					
4. Railing					
5. Coolers-freezers					
6. Concrete admixtures					
7. Material					
8. Insulation forms					
9. Plastics					
10. Deck-roof					
11. Wall					
12. Sheds					
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: _____

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

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

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Maronda Homes

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

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

PRODUCT APPROVAL

DRAWN BY: GARAGE:

RELEASE DATE: 08/13/13

PLOT DATE: 21 JAN 2008

SHEET:

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

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 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:

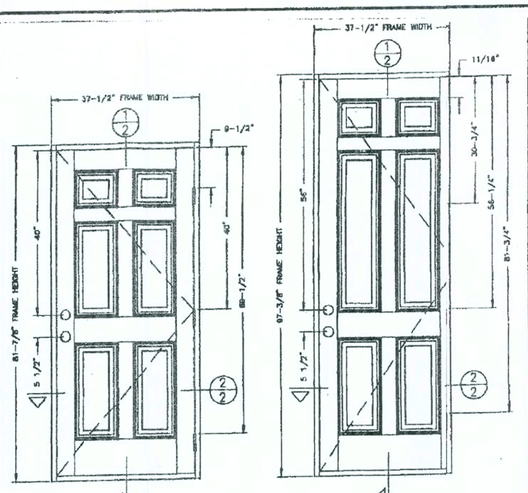
FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.080" THICK FIBERGLASS SKIN.

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.

TABLE OF CONTENTS

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



TYPICAL ELEVATION 6'-8" DOOR

TYPICAL ELEVATION 8'-0" DR

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 REQUIRED	WHERE W. INFILTRATION REQUIRED IS NOT NEEDED
POSITIVE	NOT APPROVED	+ PSF
NEGATIVE	NOT APPROVED	- PSF

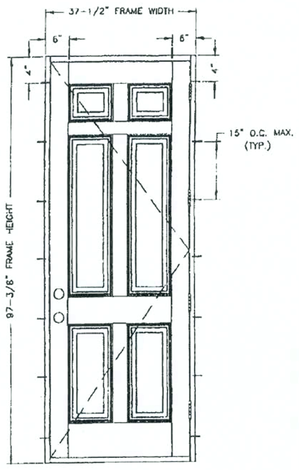
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

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

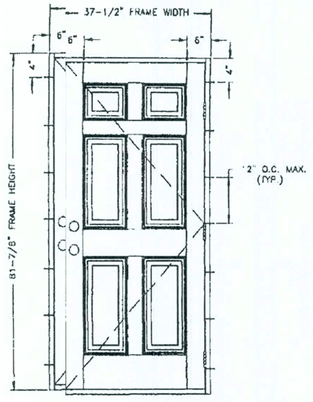
REVISIONS: NO. DATE BY

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 OR 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 OF 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 :

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Maronda Homes

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

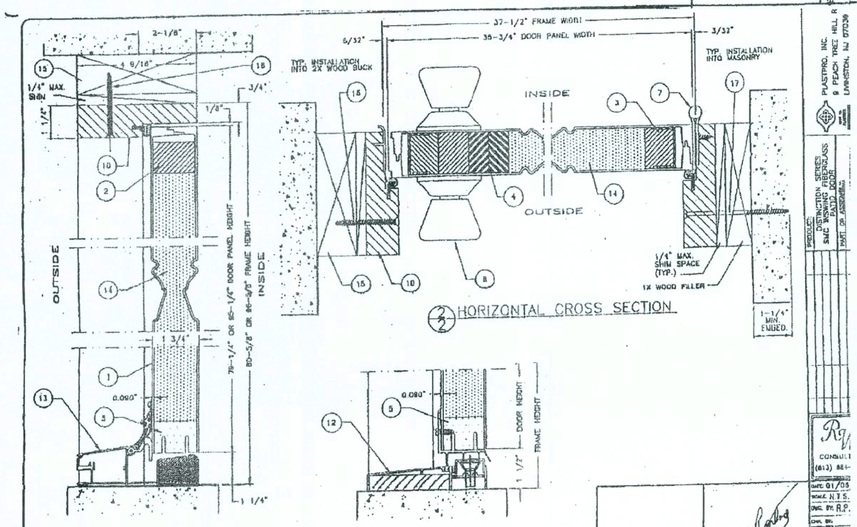
EXT. DOOR DETAILS

IN SWING-FIBERGLASS

RELEASE DATE: 05 JUN 2003

D:\Pac2000\Pltx brass\v8x24-conversion\ 09603.S13

SHEET: FD1



2/2 HORIZONTAL CROSS SECTION

1/2 VERTICAL CROSS SECTION

1/2 OPTIONAL THRESHOLD

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

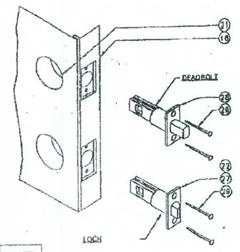
PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR
PART OF ASSEMBLY:

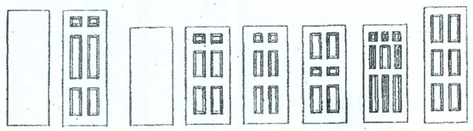
RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-0
SHEET 2 OF 4

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.

ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6-8)	SKIN 62	SMC-DBG THK. FIBERGLASS
2	DOOR SKIN (6 PANEL 8-0)	SKIN 84	SMC-DBG THK. FIBERGLASS
3	TOP RAIL (6-8)	WCA 30	WOOD (MAHOGANY)
	TOP RAIL (8-0)	WCA 36	WOOD (MAHOGANY)
3	HINGE STILE	WCA 30	WOOD (MAHOGANY)
		RT 422	STEEL (SS 411)
4	LOCK STILE	WCA 30 (TWO PCS.)	WOOD (MAHOGANY)
		RT 423	STEEL (SS 411)
5	BOTTOM RAIL	WCA 30 (TWO PCS.)	WOOD (MAHOGANY)
		PVS 73	FOAM PVC EXTRUSION
6	DOOR BOTTOM (INSWING)	WAS 01	PVC
		DC 250 (ENDURA)	PVC CO-EXTRUSION
		BENCHMARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC BRUSH
7	BUTT HINGE	4 X 4	
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16 WOOD FRAME	FINGER JOINTED WHITE PINE
		4-9/16 SILL	SOLID OAK
12	THRESHOLD (INSWING)	6 1/8 ECONOMY	ALUMINUM / WOOD
		6 1/8 WEATHERTITE	ALUMINUM / WOOD
13	THRESHOLD (INSWING)	6 1/8 SILL	ALUMINUM / WOOD
		6 1/8 SILL	SCHLEGEL CO-EXT
		DOOR SWEEP	ALUMINUM / PVC
14	FOAM CORE		DOOR WEATHER FOAM CORE
15	X1		WOOD BLOCK
16	ANCHOR	#8X2-1/2" PFH WD. SCREW	STEEL
17	ANCHOR	3/16" X 2" TH TAPCON	STEEL

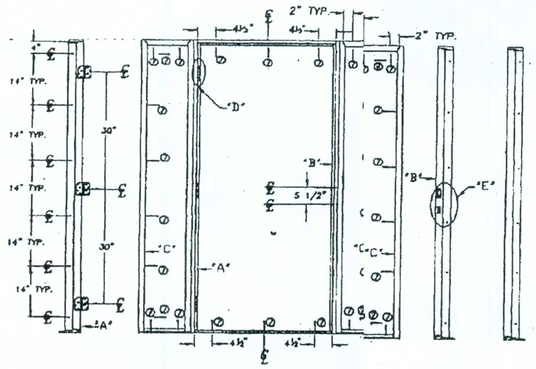




DOOR MODELS

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		
A	#10 X 5/8"	PHILLIPS FLAT HEAD
B	#10 X 1 3/4"	PHILLIPS FLAT HEAD
C	#10 X 2"	PHILLIPS FLAT HEAD
D	#10 X 3"	PHILLIPS FLAT HEAD



Product Acceptance No: DSI-222

Size: up to 5'4 x 6'8 — Inswing (wood jamb)

Configuration: X, OXO, XO, OX	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
Test # 210-1987, 210-2024				+56 -67	+50 -60
Mfg. by: Nan Ya Plastics / Plastpro Livingston, NJ 07039				+50 -60	+50 -60

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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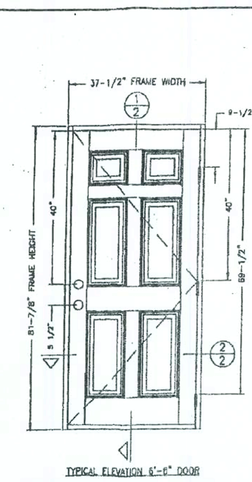
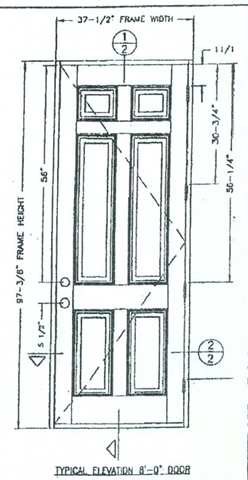


TYPICAL ELEVATION 6'-6" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

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

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

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR SPECIFICATION: 6'8" & 8'0" PANEL SIZES
GENERAL NOTES AND ELEVATIONS

NO.	DATE	REVISIONS
6		

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-02
SHEET 1 OF 4

Barry Parker 4/19/02

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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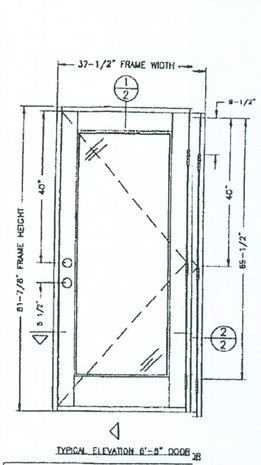
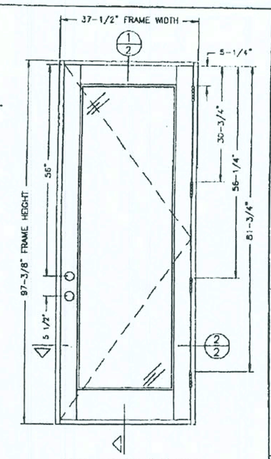


TYPICAL ELEVATION 6'-6" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+50 PSF	+50 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	+60 PSF	+70 PSF
NEGATIVE	-70 PSF	-70 PSF

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

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR SPECIFICATION: 6'8" & 8'0" PANEL SIZES
GENERAL NOTES AND ELEVATIONS

NO.	DATE	REVISIONS
6		

RW CONSULTING (813) 684-3831

DATE: 02/09/99
SCALE: 3/4"=1'-0"
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 1 OF 4

Barry Parker 4/19/02

REVISIONS :

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Maronda Homes

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

EXT. DOOR DETAILS

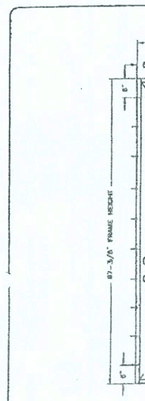
OUT SWING-FIBERGLASS

RELEASE DATE: 05/03/55

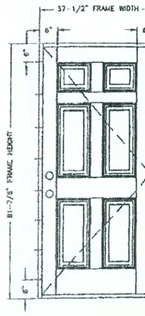
p:\fd2\00\the blocks\fd2-openelcon

02 JUN 2003

SHEET: FD 2



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-6" DOOR

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

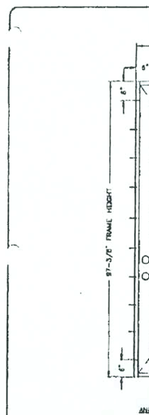
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

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

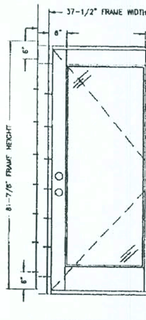
RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.J.
CHK. BY:
DRAWING NO.: 99-
SHEET 2 OF 4

Barry Parker 4/19/02



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-6" DOOR

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

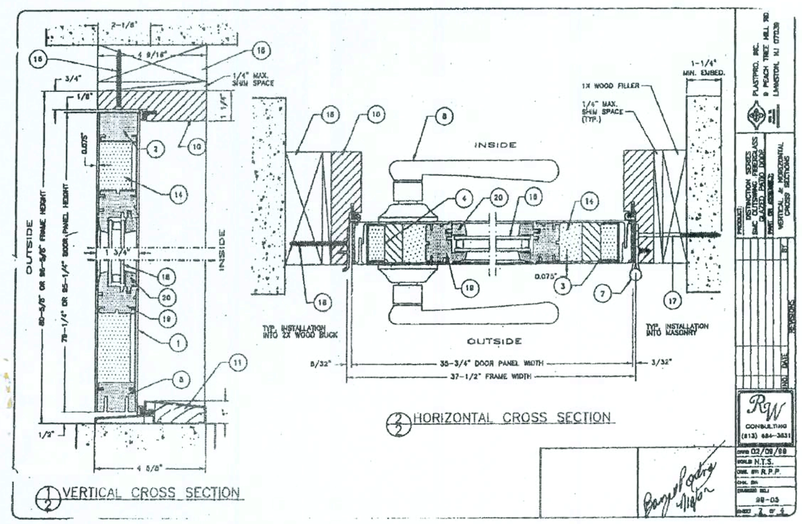
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

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

RW CONSULTING (813) 684-3831

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

Barry Parker 4/19/02



1 VERTICAL CROSS SECTION

2 HORIZONTAL CROSS SECTION

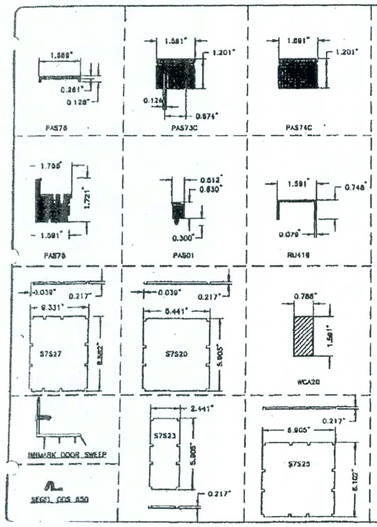
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR SPECIFICATION: VERTICAL & HORIZONTAL CROSS SECTIONS

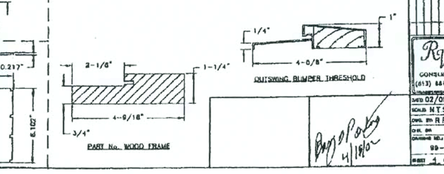
RW CONSULTING (813) 684-3831

DATE: 03/09/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 2 OF 4

Barry Parker 4/19/02



ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6'-8")	=====	SMC 6'8" THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	=====	SMC 8'0" THK FIBERGLASS
2	TOP RAIL	PAS760 TOP RAIL S7523 ANCHOR (6'-8") S7525 ANCHOR (8'-0")	PVC FOAM STEEL STEEL
3	HINGE STILE	PAS728 DOOR EXTERIOR WOODSTRIP PS78 (8'-0" ONLY) WOOD (6'-8" ONLY) WOOD (8'-0" ONLY) RU 418 (8'-0" ONLY)	WOOD, PVC WOOD (MAHOGANY) WOOD (MAHOGANY) STEEL (SS 11)
4	LOCK STILE	PAS728 DOOR EXTERIOR WOODSTRIP PS78 (8'-0" ONLY) WOOD (6'-8" ONLY) WOOD (8'-0" ONLY) RU 418 (8'-0" ONLY)	WOOD, PVC WOOD (MAHOGANY) WOOD (MAHOGANY) STEEL (SS 11)
5	BOTTOM RAIL	S7522 ANCHOR (6'-8") S7524 ANCHOR (8'-0")	STEEL STEEL
6	DOOR BOTTOM (INSWING)	PAS726 BOTTOM RAIL SC 765 (TYP.) BRICKMOLD ASY. DOOR SWEEP DOOR SWEEP	PVC FOAM PVC CO-EXTRUSION PVC CO-EXTRUSION ALUMINUM / PVC BRASS
7	BUTT HINGE	4 X 4	
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	4 9/16" WOOD FRAME	WOOD
11	THRESHOLD (OUTSWING)	DOS 650 WEATHERSTRIP OUTSWING BUMPER DOS 650 WEATHERSTRIP	SCHLEGEL O-LOK ALUMINUM / WOOD SCHLEGEL O-LOK
12	FOAM CORE		POLYURETHANE FOAM CORE
13	PZ		WOOD BLOCK
14	SCREWS	#8 X 2-1/2" PAN SMS	SITES
15	ANCHOR	3/16 X 1 FH TAPCON	STEEL
16	5/8" INSULATED GLASS CONSISTING OF (2) LITES OF 1/8" TEMP. GLASS + AIR SPACE	PAS75	PVC FOAM
17	INTERNAL FRAME	PAS75	PVC FOAM
18	GLAZING BEAD	PAS01	PVC FOAM



PART No. WOOD FRAME

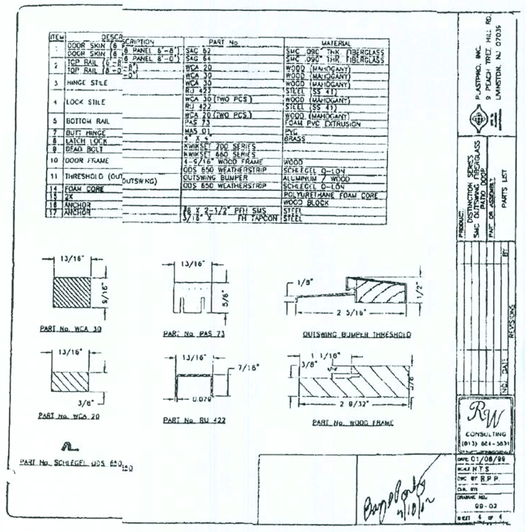
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LIVINGSTON, NJ 07039

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

RW CONSULTING (813) 684-3831

DATE: 03/09/99
SCALE: NTS
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 4 OF 4

Barry Parker 4/19/02



ITEM	DESCRIPTION	PART No.	MATERIAL
	DOOR SKIN (6 PANEL 6'-8")	SMC 6'8" THK	SMC 6'8" THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	SMC 8'0" THK	SMC 8'0" THK FIBERGLASS
2	TOP RAIL (6'-8") TOP RAIL (8'-0")	WCA 20 WCA 30	WOOD (MAHOGANY) WOOD (MAHOGANY)
3	HINGE STILE	WCA 30 RU 422	WOOD (MAHOGANY) STEEL (SS 11)
4	LOCK STILE	WCA 30 (TWO PCS.) RU 422	WOOD (MAHOGANY) STEEL (SS 11)
5	BOTTOM RAIL	WCA 20 (TWO PCS.) PAS 73	WOOD (MAHOGANY) FOAM PVC EXTRUSION
6	BUTT HINGE	MBB 50	BRASS
7	LATCH LOCK	4 X 4	
8	DEAD BOLT	KWIKSET 200 SERIES KWIKSET 660 SERIES	
9	DOOR FRAME	4 9/16" WOOD FRAME	WOOD
10	THRESHOLD (OUTSWING)	DOS 650 WEATHERSTRIP OUTSWING BUMPER DOS 650 WEATHERSTRIP	SCHLEGEL O-LOK ALUMINUM / WOOD SCHLEGEL O-LOK
11	FOAM CORE		POLYURETHANE FOAM CORE
12	PZ		WOOD BLOCK
13	SCREWS	#8 X 2-1/2" PAN SMS	SITES
14	ANCHOR	3/16 X 1 FH TAPCON	STEEL

PART No. SCHLEGEL DOS 650

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

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

RW CONSULTING (813) 684-3831

DATE: 01/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-03
SHEET 4 OF 4

Barry Parker 4/19/02