

CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineeric comply with section R301.2.1, florida building code residential 2004, to the best of my

Reuven & Dawn

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JOB NUMBER:

8" BOND BEAM POURED SOLID -

(1) #5 IN FULLY GROUTED -CELL IN CORNERS, EACH

SIDE OF OPENINGS UP TO

SEE FOUNDATION PLAN

FOR FOOTING DETAILS

TYPICAL PORCH POST DETAIL

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

12'-0" (2) #5 EACH SIDE OF OPENING LARGER THAN

12'-0", & @ 96" O.C.

4" CONCRETE FLOOR SLAB REINFORCED WITH

AT 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL

POLY VAPOR BARRIER WITH 6" LAPS SEALED WITH

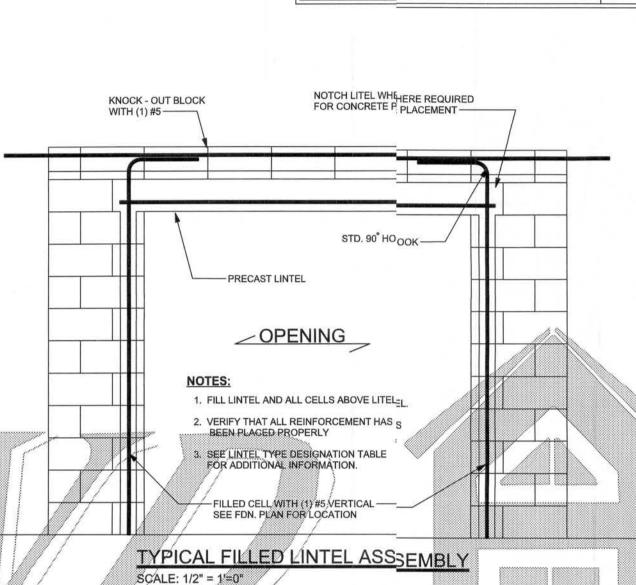
6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS

POLY TAPE OVER TERMITE-TREATED AND COMPACTED FILL

(3000 PSI) CONC. REINF. W/ (1) #5 REBAR CONT. 2" FROM TOP

MASONRY/ TRUSS ANCHOR TABLE OBTAIN UPLIFT F REQUIREMENTS FROM TRUSS MANUFACTUREFR'S ENGINEERING

UPLIFT LBS.	TRUSS CONNECTOR MASONRY *	
< 1205	TA22	10-10d x 1 1/2"
< 1605	TA22	11-10d
< 860	MTSM20	4 - 1/4"x2 1/4" TITEN IN BLOCK 7 - 10d IN TRUSS
< 1175	HTSM20	4 - 1/4"x2 1/4" TITEN IN BLOCK 10 - 10d IN TRUSS
< 1040	META20	7-10d, 1 1/2"
< 1490	META20	10-10d, 1 1/2"
< 1780	HETA20	7-16d
< 1780	LGT2	7 - 1/4"x2 1/4" TITEN IN BLOCK 14 - 16d SINKER IN GIRDER
< 2130	HHETA20	17-10d, 1 1/2"
< 2310	HHETA24	21-10d, 1 1/2"
< 3965	MGT	22-10d TO TRUSS 5/8 AB TO WALL 15" EMBEDMENT
< 10980	HGT-2	16-10d TO TRUSS (2) 3/4 AB TO WALL 15" EMBEDMENT
< 10530	HGT-3	16-10d TO TRUSS (2) 3/4 AB TO WALL 15" EMBEDMENT



--- (1) #7 OR (2) # 5 CORNER BAR

BEAM TO BLOCK CONNECTION DETAIL SCALE: 1/2" = 1'-0"

ANCHOR TABLE OBTAIN UPLIFT REQUIREMENTS FROM TRUSS

JPLIFT LBS. SYP	UPLIFT LBS. SPF	TRUSS CONNECTOR*	TO PLATES	TO RAFTER/TRUSS	TO STUDS
< 420	< 245	H5A	3-8d	3-8d	
< 455	< 265	H5	4-8d	4-8d	
< 360	< 235	H4	4-8d	4-8d	
< 455	< 320	Н3	4-8d	4-8d	
< 415	< 365	H2.5	5-8d	5-8d	
< 600	< 535	H2.5A	5-8d	5-8d	
< 950	< 820	H6	8-8d	8-8d	
< 745	< 565	H8	5-10d, 1 1/2"	5-10d, 1 1/2"	
< 1465	< 1050	H14-1	13-8d	12-8d, 1 1/2"	
< 1465	< 1050	H14-2	15-8d	12-8d, 1 1/2"	
< 990	< 850	H10-1	8-8d, 1 1/2"	8-8d, 1 1/2"	
< 760	< 655	H10-2	6-10d	6-10d	
< 1470	< 1265	H16-1	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1470	< 1265	H16-2	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1000	< 860	MTS24C	7-10d 1 1/2"	7-10d 1 1/2"	
< 1450	< 1245	HTS24	12-10d 1 1/2"	12-10d 1 1/2"	
< 2900	< 2490	2 - HTS24			
< 2050	< 1785	LGT2	14 -16d	14 -16d	
		HEAVY GIRDER TIEDOWNS*			TO FOUNDATION
< 3965	< 3330	MGT	<u></u>	22 -10d	1-5/8" THREADED ROD 12" EMBEDMENT
< 10980	< 6485	HGT-2		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 10530	< 9035	HGT-3		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 9250	< 9250	HGT-4		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
		STUD STRAP CONNECTOR*			TO STUDS
< 435	< 435	SSP DOUBLE TOP PLATE	3 -10d		4 -10d
< 455	< 420	SSP SINGLE SILL PLATE	1 -10d		4 -10d
< 825	< 825	DSP DOUBLE TOP PLATE	6 -10d		8 -10d
< 825	< 600	DSP SINGLE SILL PLATE	2 -10d		8 -10d
< 885	< 760	SP4			6-10d, 1 1/2"
< 1240	< 1065	SPH4			10-10d, 1 1/2"
< 885	< 760	SP6			6-10d, 1 1/2"
< 1240	< 1065	SPH6			10-10d, 1 1/2"
< 1235	< 1165	LSTA18	14-10d		
< 1235	< 1235	LSTA21	16-10d		
< 1030	< 1030	CS20	18-8d		
< 1705	< 1705	CS16	28-8d		
		STUD ANCHORS*	TO STUDS		TO FOUNDATION
< 1350	< 1305	LTT19	8-16d		1/2" AB
< 2310	< 2310	LTTI31	18-10d, 1 1/2"		1/2" AB
< 2775	< 2570	HD2A	2-5/8" BOLTS	7/	5/8" AB
< 4175/	< 3695	HJT16	18 - 16d	77	5/8" AB
< 1400	< 1400	PAHD42	16-16d		
< 3335	< 3335	HPAHD22	16-16d		
< 2200	< 2200	ABU44	12-16d		1/2" AB

GRADE & SPECIES TABLE

12-16d

		Fb (psi)	E (10 ⁶ psi)
2x8	SYP #2	1200	1.6
2x10	SYP #2	1050	1.6
2x12	SYP #2	975	1.6
GLB	24F-V3 SP	2400	1.8
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2900	2.0
PSL	PARALAM	2900	2.0

3/2" AB

EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS

== 0.05	TABLE I OIX OIT THE	-
(1) 2x4 @ 16" OC	TO 10'-9" WALL HEIGHT	
(1) 2x4 @ 12" OC	TO 13'-0" WALL HEIGHT	
(1) 2x6 @ 16" OC	TO 18'-10' WALL HEIGHT	
(1) 2x6 @ 12" OC	TO 20.0' WALL HEIGHT	

GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN

FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 3000 PSI.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT.
FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD
PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH A STORY OF 1116. SUPPLIER
TO COMPLY WITH A STORY OF THE PROPERTY OF THE PROPERT TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAP SPLICES 40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

GLULAM BEAM, GLB, 24F-V3SP, Fb = 2.4ksi, E = 1800ksi; UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALCS. ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS (.131), 6"OC PANEL EDGES, 12"OC INTERMEDIATE MEMBERS, GABLE ENDS AND DIAPHRAGM BOUNDARY; 4"OC, UNO.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; UNO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

BUILDER'S RESPONSIBILITY

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH AR SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.
CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.
PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.
PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY:

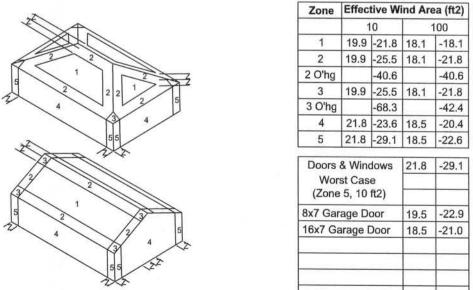
VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

ROOF SYSTEM DESIGN

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR 2004, SECTION R301.2.1 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS
MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN
PROFESSIONAL FOR CORRECT APPLICATION OF FBC 2001 REQUIRE LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.

DESIGN DATA

AAIIA	D LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1
MEA ON	CLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; AN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% OPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS
BUIL	LDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE
BUIL	LDING IS NOT IN THE WIND-BORNE DEBRIS REGION
1.)	BASIC WIND SPEED = 110 MPH
2.)	WIND EXPOSURE = B
3.)	WIND IMPORTANCE FACTOR = 1.0
4.)	BUILDING CATEGORY = II
5.)	ROOF ANGLE = 10-45 DEGREES
6.)	MEAN ROOF HEIGHT = <30 FT
7.)	INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)



8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))

DESIGN	LOADS		
FLOOR	40 PSF (ALL OTHER DWELLING ROOMS)		
	30 PSF (SLEEPING ROOMS)		
	30 PSF (ATTICS WITH STORAGE)		
	10 PSF (ATTICS WITHOUT STORAGE, <3:12)		
ROOF	20 PSF (FLAT OR <4:12)		
	16 PSF (4:12 TO <12:12)		
	12 PSF (12:12 AND GREATER)		
STAIRS	40 PSF (ONE & TWO FAMILY DWELLINGS)		

REVISIONS

31Jul07

SOFTPIXN

Reuven & Dawn

VINDLOAD ENGINEER: Mark Disosway,

E No.53915, POB 868, Lake City, FL

itated dimensions supercede scaled imensions. Refer all questions to Mark Disosway, P.E. for resolution.

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ot to be reproduced, altered or copied in any orm or manner without first the express written ermission and consent of Mark Disosway.

ERTIFICATION: I hereby certify that I have

ode residential 2004, to the best of my

IIMITATION: This design is valid for one luilding, at specified location.

xamined this plan, and that the applicable ortions of the plan, relating to wind engineering omply with section R301.2.1, florida building

To not proceed without clarification.

2056, 386-754-5419

Refaelov Residence

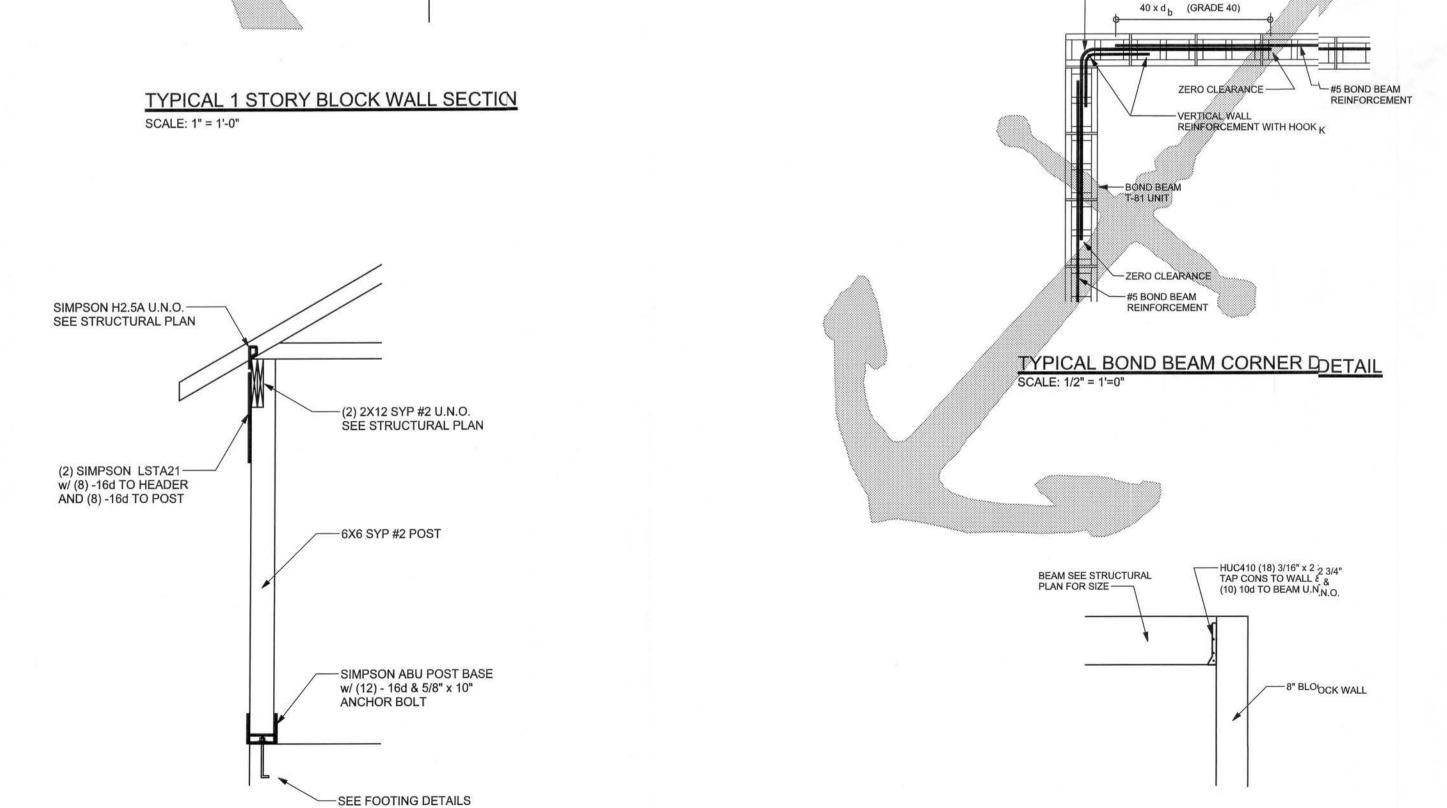
ADDRESS: Lot 47 Spring Run S/D Columbia County, Florida

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PRINTED DATE: August 17, 2007 DRAWN BY: CHECKED BY:

FINALS DATE: 06 / Jul / 07 JOB NUMBER: 706275a

> DRAWING NUMBER **S-1** OF 3 SHEETS



-PRE ENGINERED WD TRUSSES @ 24" O.C.

-76" OSB ROOF SHEATHING UNBLOCKED NILED TO ROOF FRAMING 8d COMMON NAILS 6)C EDGES,12"OC FIELD, 4" OC GABLES.

PRE MANUFACTURED LINTEL

APPROVED WINDOW OF BUILDERS CHOICE

-FINISH PER OWNER

-8" MASONRY CMU

-3"x3" INSECTION PORT AT

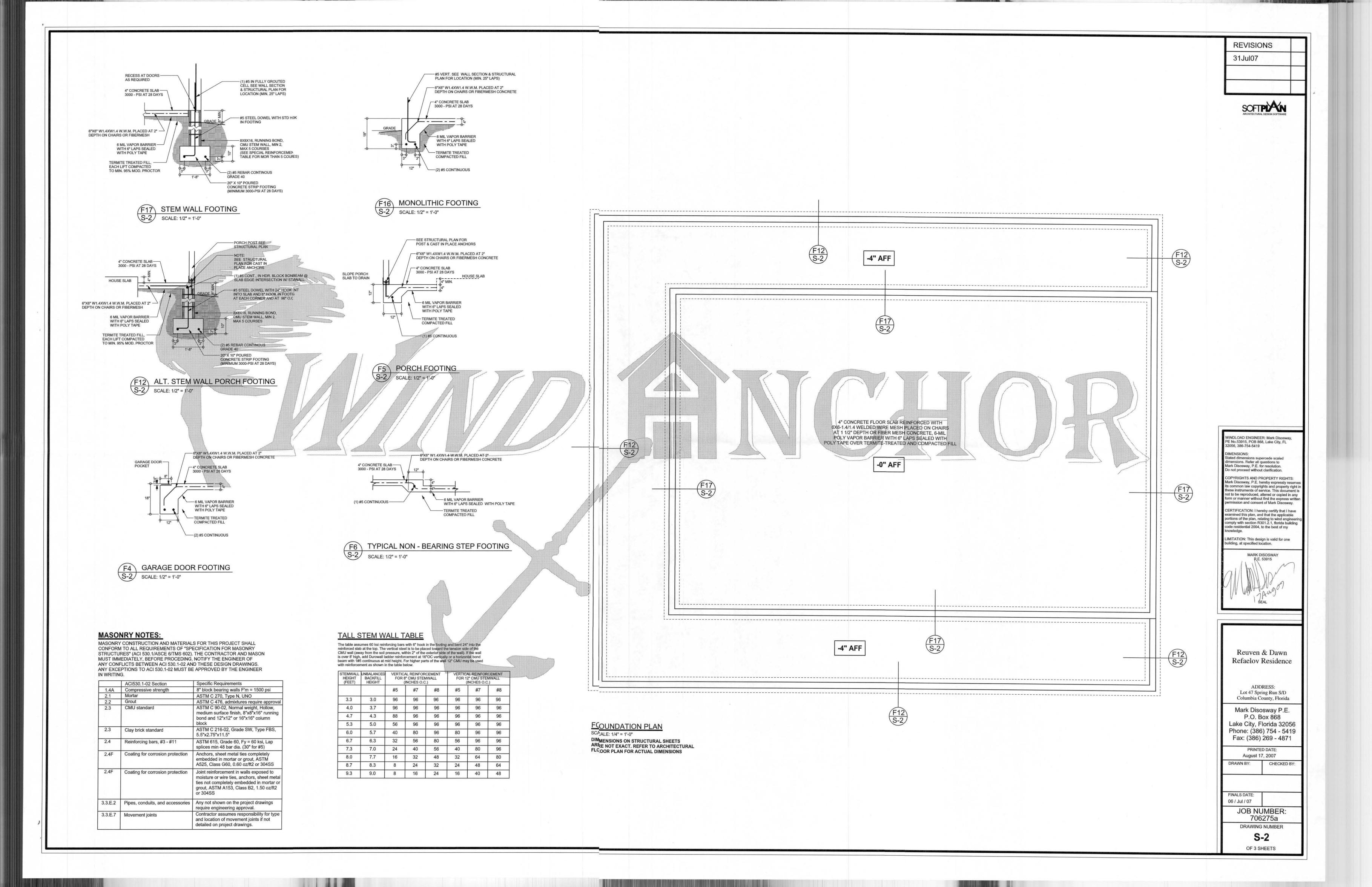
EACH FILL CELL TYPICAL

TO BE SIZED BY MANUFACTURER (ANY RQD LINTEL STEEL IS IN

ADDITION TO BOND BEAM STEEL)

-HURRICAE STRAP EACH USE USP \22 w/ (11) 10d TO TRUSSIP TO 1605 LB UPLIFT

2'-0" MK



MATERIALS 1. fc 8" precast lintel = 3500 psi 2. f'c prestressed lintel = 6000 psi 3. Grout per ASTM C476 fc = 3000 psi w/ maximum 3/8 inch aggregate & 8 to 11 inch slump 4. Concrete Masonry Units (CMU) per ASTM C90 w/minimum net area compressive strength = 1900 psi

5. Rebar per ASTM A615 grade 60

grade 270 low relaxation 7. Mortar per ASTM C270 type M or S

6. Prestressing strand per ASTM A416

GENERAL NOTES

in lieu of concrete masonry units.

1. Provide full mortar bed and head joints. 2. Shore filled lintels as required. 3. Installation of lintel must comply with the architectural and/or structural documents. 4. U-Lintels are manufactured with 5 1/2" long notches at the ends to accomodate vertical cell reinforcing and grouting. 5. All lintels meet or exceed L/360 deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed L/180 deflection.

6. Bottom field added rebar to be located at the bottom of the lintel cavity. 7, 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage. 8. Cast-in-place concrete may be provided in composite lintel

9. Safe load rating based on rational design analysis per ACI 318 and ACI 530 10. Product Approvals: Miami-Dade County, Florida No. 03-0606.05

11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-296 or other approved coating. 12. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation: Applied vertical load Safe vertical load Safe horizontal load \$1.0

13. Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See detail at right:

TYPE DESIGNATION

- QUANTITY OF #5 FIELD ADDED REBAR AT TOP

8F16-1B/1T-4'-0"

NOMINAL HEIGHT -

#5 FIELD ADDED REBAR AT TOP MIN. (1) REQ'D FIELD PLACED C.M.U. -#5 FIELD ADDED REBAR AT BOTTOM OF LINTEL CAVITY -BOTTOM REINFORCING (SEE REINFORCING SCHEDULE) 8" NOMINAL WIDTH

SAFE LOAD TABLE NOTES

1. All values based on minimum 4 inch nominal bearing. Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6 1/2 inches. 2. N.R. = Not Rated 3. Safe loads are superimposed allowable loads. 4. Safe loads based on grade 40 or grade 60

field rebar. 5. One #7 rebar may be substituted for two #5 rebars in 8" lintels only 6. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from face of support.

7. For composite lintel heights not shown, use safe load from next lower height shown. 8. For lintels lengths not shown, use safe load from next longest length shown All safe loads in units of pounds per linear 10. All safe loads based on simply supported 11. The number in the the parenthesis indicates the percent reduction for grade 40

Example 7'-6" lintel type 8F32-1B safe

reduction 6472 ⇒ (.85) = 5501 plf

gravity load = 6472\H0.0469;(15)\H0.0781; w/ 15%

field added rebar.

SAFE GRAVITYOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

() ASTI	- Çaxenre	SAFE LOAD - POUNDS PER LINEAR FOOT								
		TYPE	04 etc.e0454	8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B	
LENGTH	4		8U8	8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B	
			1008887	3069	4605	6113	7547	8974	10394	11809	
2'-10"	(34")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809	
			500-0-4-6	3069	3719	5163	6607	8054	9502	10951	
3'-6"	(42")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809	
70/084/05	050000000	V 2.85 (288 1809) 20	and the	2561	2751	3820	4890	5961	7034	8107	
4'-0"	(48")	PRECAST	1966	2693	4605	6113	7547	8974	10394	11809	
			500x30x	1969	2110	2931	3753	4576	5400	6224	
4'-6"	(54")	PRECAST	1599	2189	4375	6113	7547 (7)	8672	10294	11809	
50 150	1624121211		8729922	1349	1438	1999	2560	3123	3686	4249	
5'-4"	(64")	PRECAST	1217	1663	3090	5365	7547(36)	7342 (19)	8733 (19)	10127(19	
E00/803/03	MEDRICION	0.000.000.000.000.000.000	11000000	1105	1173	1631	2090	2549	3009	3470	
5'-10"	(70")	PRECAST	1062	1451	2622	4360	7168 (45)	6036 (19)	7181 (19)	8328 (20	
	(2011)		523436	1238	2177	3480	3031	3707	4383	5061	
6'-6"	(78")	PRECAST	908	1238	2177	3480	5381	8360	10394(37)	8825 (14	
201033	0.202220		726 5000	1011	1729	2632	2205	2698	3191	3685	
7'-6"	(90")	PRECAST	743	1011	1729	2661	3898	5681	8467(44)	6472 (15	
01.48	(44011)	PRECARE	raune.	699	1160	1625	2564	3486	2818	3302	
9'-4"	(112")	PRECAST	554	752	1245	1843	2564	3486	4705(37)	6390(47	
	// o o m	5556167	500000	535	890	1247	2093	2777	2163	2536	
10'-6"	(126°)	PRECAST	475	643	1052	1533	2093	2781	3643 (38)	4754 (45	
VI-2002A	72.72.22.2		1000000	582	945	1366	1846	2423	3127	4006	
11'-4"	(136")	PRECAST	362	582	945	1366	1846	2423	3127	4006	
02022	77.07.000			540	873	1254	1684	2193	2805	3552	
12'-0"	(144")	PRECAST	337	540	873	1254	1684	2193	2805	3552	
1000000	1000000000		0222	471	755	1075	1428	1838	2316	2883	
13'-4"	(160")	PRECAST	296	471	755	1075	1428	1838	2316	2883	
				424	706	1002	1326	1697	2127	2630	
14'-0"	(168")	PRECAST	279	442	706	1002	1326	1697	2127	2630	
		DDECTDECCE		NR	NR	NR	NR	NR	NR	NR	
14'-8"	(176")	PRESTRESSEI	N.R.	458	783	1370	1902	2245	2517	2712	
		PRESTRESSEC		NR	NR	NR	NR	NR	NR	NR	
15'-4"	(184°)	PREGIRESSEL	N.R.	412	710	1250	1733	2058	2320	2513	
17'-4"	(208")	PRESTRESSEE	N.R.	NR	NR	NR	NR	NR	NR	NR	
11-4	(KAO)	PRESTRESSEE	N.K.	300	536	950	1326	1609	1849	2047	
19'-4"	(222)	DDESTDESSET		NR	NR	NR	NR	NR	NR	NR	
	(eue)	PRESTRESSEL	N.R.	235	418	750	1037	1282	1515	1716	
21'-4"	(2565)	PRESTRESSEL	NR.	NR	NR	NR	NR	NR	NR	NR	
	(AJU)	, aloratout	N.K.	180	340	598	845	1114	1359	1468	
22'-0"	(264*)	PRESTRESSEE	N/D	NR	NR	NR	NR	NR	NR	NR	
~~ ·	(204)	1 ALGIAEGGEL	N.R.	165	315	550	784	1047	1285	1399	
141.50	(Appen	DDECTREATE	N1 F	NR	NR	NR	NR	NR	NR	NR	
24'-0°	(500.)	PRESTRESSEE	N.R.	129	250	450	654	884	1092	1222	

SAFE LIPITET LOADSOR 8" PRECAST & PRESTRESSED LLI INTELS

(Çasii	- Casara	SAF	E LOAD	- POUN	NDS PE	R LINE	AR FOO	T
		TYP	8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F28-1T	8F32-1
LENG	TH		8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2
	/o /m		1972	3173	4460	5747	7034	8321	9608
2'-10"	(34")	PRECAST	1972	3173	4460	5747	7034	8321	9608
	Carranas may		1569	2524	3547	4569	5591	6613	7636
3'-6"	(42")	PRECAST	1569	2524	3547	4569	5591	6613	7636
41.00	(40II)	DDECAST	1363	2192	3079	3966	4853	5740	6627
4'-0"	(48.)	PRECAST	1363	2192	3079	3966	4853	5740	6627
11 G!	(F4"\	PRECAST	1207	1940	2724	3508	/4292	/5077	5861
4'-6"	(54")	FREUASI	1207	1940	2724	3508	4292	5077	5861
F1 48	/O /III	PDEGAGE	1016	1632	2290	2949	3607	4265	4924
5'-4"	(64")	PRECAST	1016	1632	2290	2949	3607	4265	4924/
EL 401	/70"\	DDECAST	909	/1492	2093	2694	3295	3897	4498
5'-10"	(70")	PRECAST	929 /	1492	2093	2694	3295	3897	4498
6'-6"	(78")	PRECAST	835 (12)	1340	1880	2419	2959	3498	4038
0-0	(10)	FREGMET	835	1340	1880	/2419	2959	3498	4038
71.61	(00")	DRECKST	727 (23)	1021	1634 (12)	2102 (11)	2571(18)	3039 (10)	3508
7'-6"	(90")	PRECAST	727	1166	1634	2102	2571	3039	3508
9'-4"	(112")	PRECAST	591	680	1133 (15)	1471 (15)	1811 (15)	2152 (16)	2494
3-4	(112)	TREOAGT	591	851	1326	1705	2084	2463	2842
10'-6"	(126")	PRECAST	530	552	914 (15)	1185 (15)	1458 (15)	1732 (15)	2007
10-0	(120)	TREOAGT	530	686	1183	1526	1865	2204	2544
11'-4"	(136")	PRECAST	474	485	798 (15)	1034 (15)	1272 (15)	1510 (15)	1749
11-4	(100)	TRECACT	494	599	1028	1422	1738	2053	2369
12'-0"	(144")	PRECAST	470 (9)	441	723 (14)	936 (14)	1151(15)	1366 (15)	1582
12-0	(144)	THEORET	470	543	928	1349	1649	1948	2247
13'-4"	(160")	PRECAST	418 (15)	373	606 (14)	783 (14)	962 (14)	1141 (14)	1321
10 1	(100)	11120/101	428	455	770	1145	1444	1718	1993
14'-0"	(168")	PRECAST	384 (15)	346	559 (14)	723 (14)	887 (14)	1052 (14)	1218
	(100)		410	420	709	1050	1434 (8)	1694 (8)	1954
14'-8"	(176")	PRESTRESS	239	323	519 (13)	671 (13)	823 (13)	976 (14)	1129
55 K	()		246	390	655	968	1324 (8)	1625 (11)	1874
15'-4"	(184")	PRESTRESS	224	302	485 (13)	626 (13)	767 (13)	909 (13)	1052
	(101)		230	364	609	897	1224 (8)	1562 (14)	1801
17'-4"	(208")	PRESTRESS	187	255	404 (12)	520 (12)	637 (12)	754 (12)	872
	* *		192	303	500	732	993 (8)	1268 (14)	
19'-4"	(232")	PRESTRESS	162	222	347 (11)	Detrical		646 (12)	
			166	261	424	616	831 (8)	1057 (14)	1225
21'-4"	(256")	PRESTRESS	142	198	306 (11)	393 (11)	480 (11)	567 (11)	
			142	230	369	531	713 (7)	903 (13)	
22'-0"	(264")	PRESTRESS	137	192	295 (10)	378 (11)	461 (10)	545 (11)	
		7	137	221	354	508	681 ₍₇₎	861 (13) 491 (10)	
		A PRODUCT OF THE PROPERTY OF THE PARTY OF THE	124	175	267 (10)	341 (10)	4 10 (10)	49 (10)	566

SAFE GRAVITY LODS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

«		CARETTEE	SAFE LOAD - POUNDS PER LINEAR FOOT								
		TYP		8RF6-0B	8RF10-0B	8RF14-0B	8RF18-0B	8RF22-0B	8RF26-0B	8RF30-0B	
LENG	TH		8RU6	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B	
	(= nm)		4005	1749	3355	3280	4349	5421	6493	7567	
4'-4"	(52")	PRECAST	1635	1891	3699	5206	6639	8060	9479	10893	
41.00	/E 4115	PDEGAGE	4404	1596	3063	2992	3968	4946	5924	6904	
4'-6"	(54")	PRECAST	1494	1756	3699	5206	6639	8060	9479	10893	
EI OII	(CO!!)	PRECAST	000	920	1770	1716	2277	2839	3402	3966	
5'-8"	(68")	PRECASI	866	1167	2481	4567	6389	8060 (34)	7917 (19)	9311 (1	
5'-10"	(70")	PRECAST	040	859	1653	1600	2124	2649	3174	3700	
3-10	(10)	FRECASI	810	1113	2342	4242	6639 (10)	8060 (39)	7402 (19)	8706 (1	
CL OIL	/0.0II\	DDECAGE	707	901	1825	3120	5048	7747	9448	7360	
6'-8"	(80")	PRECAST	797	901	1825	3120	5048	7915	9479	10893 (32	
71.61	(00")	DDECAST	660	755	1490	2459	3776	5743	7239	5623	
7'-6"	(90")	PRECAST	669	755	1490	2459	3776	5743	8998 (19)	10893 (48	
9'-8"	(116")	PRECAST	444	466	999	1568	2253	3129	4091	3146	
ð-u	(110)	TILLUAGI	411	526	999	1568	2253	3129	4150	5891 (47	

SAFE LIPLIFT LOADS OR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

<	(CAST		SAFE LOAD - POUNDS PER LINEAR FOO						
		TYPI	8RF6-1T	8RF10-1T	8RF14-1T	8RF18-1T	8RF22-1T	8RF26-1T	8RF30-1T
LENG	TH		8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T
			905	1748	2635	3522	4409	5296	6183
4'-4"	(52")	PRECAST	905	1748	2635	3522	4409	5296	6183
			867	1675	2525	3374	4224	5074	5924
4'-6"	(54")	PRECAST	867	1675	2525	3374	4224	5074	5924
CL 0!!	(0011)	PPECACT	675	1301	1960	2618	3277	3935	4594
5'-8"	(68")	PRECAST	675	1301	1960	2618	3277	3935	4594
EL 4011	(7011)	DDECACT	655	1262	1900	2538	3176	3815	4453
5'-10"	(70")	PRECAST	655	1262	1900	2538	3176	3815	4453
			570	1012	1651	2204	2758	3312	3865
6'-8"	(80")	PRECAST	570	1097	1651	2204	2758	3312	3865
71.01	(0.011)	PPEGAGE	506	797	1462 (8)	1952 (7)	2442 (6)	2931 (6)	3257
7'-6"	(90")	PRECAST	506	967	1462	1952	2442	2931	3421
01.011	/4.4.CII)	DDECAST	395	491	931 (12)	1301 (15)	1640 (15)	1980 (15)	2322 (16
9'-8"	(116")	PRECAST	395	589	1135	1514	1893	2272	2652

STRUCTURAL PLAN NOTES

8F16-0B/1T-9'-4"

ALL LOAD BEARING FRAMME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (; (2) 2X12 SYP#2 (U.N.O.)

ALL LOAD BEARING FRAMME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)

STRUCTURAL PLAN

(2) 1.75" x 12.00" LVL

SSWS = 4.0'

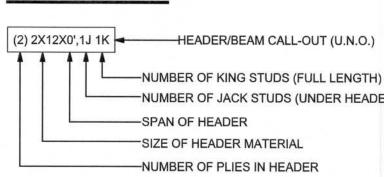
8F16-0B/1T-4'-0"

DIMENSIONS ON STRUCTI_{TURAL} SHEETS ARE NOT EXACT. REFER T TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL_AL DIMENSIONS

PERMANENT TRUSS BRACKING IS TO BE INSTALLED AT LOCATIONS AS SHOWN O'DN THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO \$ BE RESTRAINED PER BCSI1-03, BCSI-B1, BCSI-B2, & BCSI-I-B3. BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED **HEADER LEGEND**

8F16-0B/1T-7'-6"

8F16-0B/1T-7'-6"



POST DETAIL (TYP.)

SWS = 6.0

8F16-0B/1T-4'-0"

8F16-0B/1T-9'-4" sws = 4.0 8F16-0B/1T-7'-6" sws = 3.5

USE TA22 w/ 11 - 10d (1605lb) FOR ALL TRUSS TO

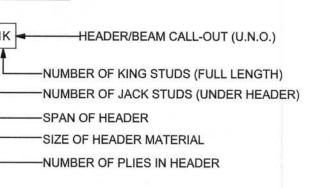
CONNECTIONS UNLESS NOTED OTHERWISE

UNLESS NOTED OTHERWISE

MASONRY WALL AND PORCH BEAM CONNECTIONS

USE H2.5A (535Ib) FOR ALL TRUSS TO WALL FRAME AND PORCH BEAM

8F16-0B/1T-9'-4"

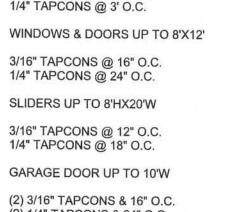




SEE PORCH

POST DETAIL (TYP.)

TAPCON IN FACE OF CMU 2 1/2" MIN. EDGE DISTANCE 1 1/4" MIN. EMBEDMENT 3" MIN. SPACING WINDOWS & DOORS UP TO 6'X8' 3/16" TAPCONS @ 2' O.C. 1/4" TAPCONS @ 3' O.C.



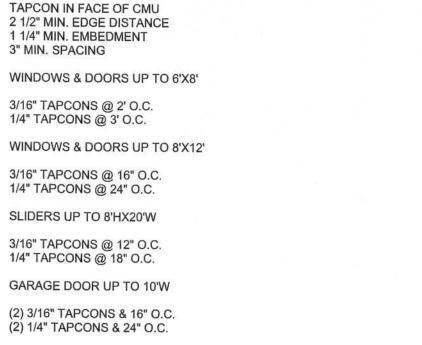
GARAGE DOOR UP TO 18'W

(2) 3/16" TAPCONS & 8" O.C.

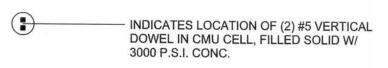
(2) 1/4" TAPCONS & 12" O.C.

DOOR & WINDOW BUCK ATTACHMENT

sws = 6 0' 8F16-0B/1T-4'-0" sws = 9.0



INDICATES LOCATION OF #5 VERTICAL DOWEL IN CMU CELL, FILLED SOLID W/ 3000 P.S.I. CONC.



TOTAL SHEAR WALL SEGMENTS SWS = 0.0' INDICATES SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	36.8'	41.5'
LONGITUDINAL	31.2'	54.0'

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERIN3 FURNISHED BY BUILDER. ANDERSON TRUSS JOB #7-193

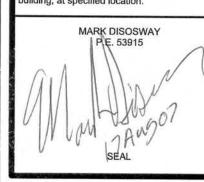
REVISIONS 31Jul07

SOFTPIXN

VINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419 tated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

OPYRIGHTS AND PROPERTY RIGHTS: Mark Disosway, P.E. hereby expressly reserves its common law copyrights and property right in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Disosway. CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable

portions of the plan, relating to wind engineerin comply with section R301.2.1, florida building code residential 2004, to the best of my LIMITATION: This design is valid for one building, at specified location.



Reuven & Dawn Refaelov Residence

ADDRESS: Lot 47 Spring Run S/D Columbia County, Florida

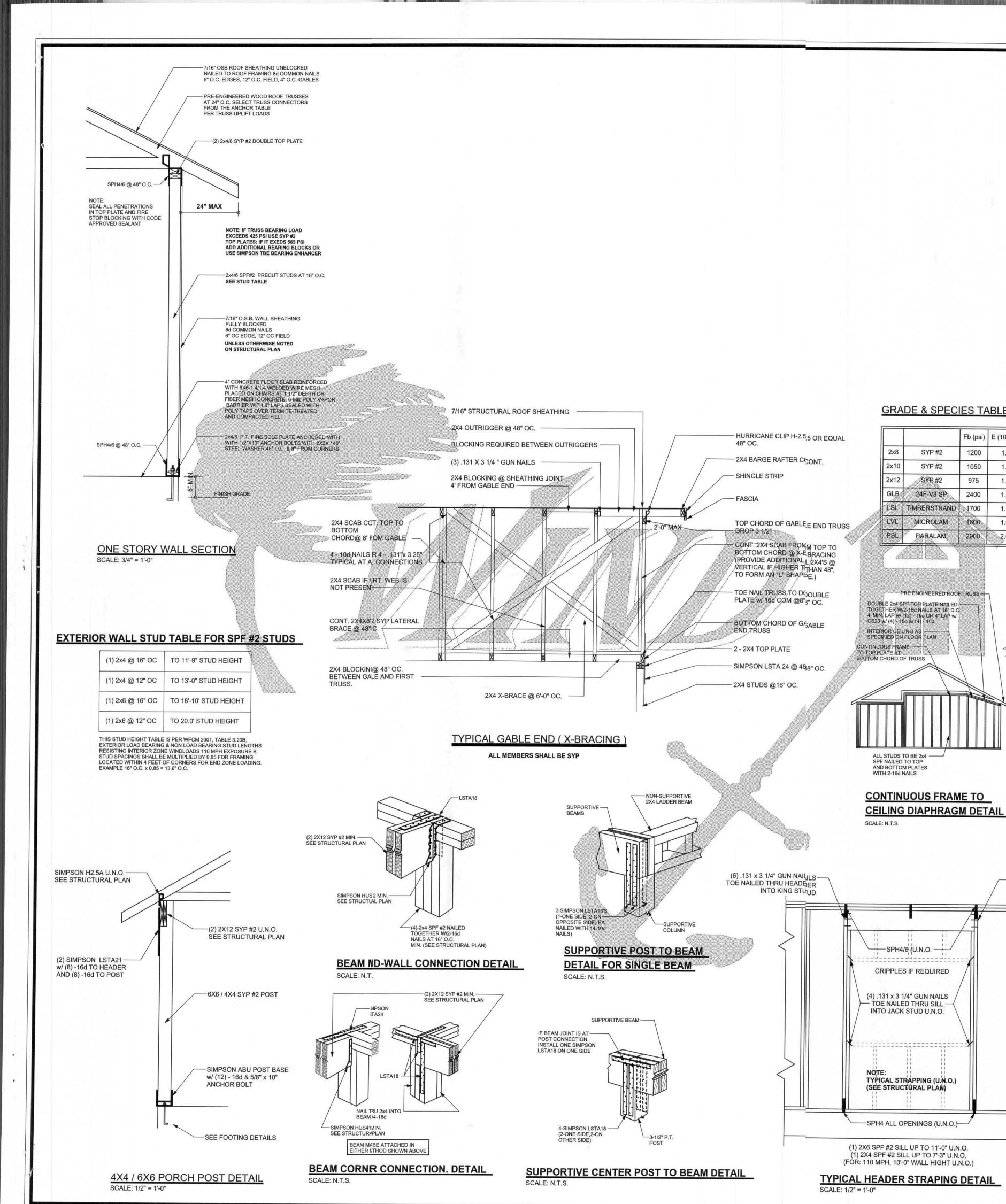
Mark Disosway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871

PRINTED DATE: August 17, 2007 DRAWN BY: CHECKED BY:

FINALS DATE: 06 / Jul / 07

JOB NUMBER: 706275a

DRAWING NUMBER OF 3 SHEETS



GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS, TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET

GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 3000 PSI. WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLABS: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAP SPLICES 40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

GLULAM BEAMS: GLULAM BEAM, GLB, 24F-V3SP, Fb = 2.4ksi, E = 1800ksi; UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALCS.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS (.131), 6"OC PANEL EDGES, 12"0C INTERMEDIATE MEMBERS, GABLE ENDS AND DIAPHRAGM BOUNDARY; 4"OC, UNO. STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE

TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS. ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; UNO. NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

BUILDER'S RESPONSIBILITY

ROOF SYSTEM DESIGN

TRUSS SHEETS.

—(6) .131 x 3 1/4" GUN NAILS

INTO KING STUD

TOE NAILED THRU HEADER

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR 2004, SECTION R301.2.1 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN

TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS

COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS

MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN

REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF

BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF

TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES

RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED

DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT

PROFESSIONAL FOR CORRECT APPLICATION OF FBC 2001 REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO

SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL

RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE

MASONRY NOTES:

1.4A Compressive strength

CMU standard

Clay brick standard

Reinforcing bars, #3 - #11

2.4F Coating for corrosion protection

Movement joints

Mortar

2.1

MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL

CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY

MUST IMMEDIATELY, BEFORE PROCEDING, NOTIFY THE ENGINEER OF

ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS

ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER

8" block bearing walls F'm = 1500 psi

ASTM C 476, admixtures require approval

medium surface finish, 8"x8"x16" running

ASTM C 90-02, Normal weight, Hollow,

bond and 12"x12" or 16"x16" column

ASTM C 216-02, Grade SW, Type FBS,

ASTM 615, Grade 60, Fy = 60 ksi, Lap

splices min 48 bar dia. (30" for #5)

Anchors, sheet metal ties completely

embedded in mortar or grout, ASTM

A525, Class G60, 0.60 oz/ft2 or 304SS

noisture or wire ties, anchors, sheet metal

ties not completely embedded in mortar or

grout, ASTM A153, Class B2, 1.50 oz/ft2

Contractor assumes responsibility for type

and location of movement joints if not

require engineering approval.

detailed on project drawings.

ASTM C 270, Type N, UNO

5.5"x2.75"x11.5"

Coating for corrosion protection | Joint reinforcement in walls exposed to

3.3.E.2 Pipes, conduits, and accessories Any not shown on the project drawings

STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON

THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE

Fb (psi) E (10⁶ psi)

1050 1.6

1.9

1200

975

2400

1700

2900

SYP #2

SYP #2

PARALAM

SYP #2

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK. CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE. PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES. PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION, IF YOU BELIEVE THE PLAN OMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY. VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS TO TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

UPLIFT LBS. SYP	UPLIFT LBS. SPF	TRUSS CONNECTOR*	TO PLATES	TO RAFTER/TRUSS	TO STUDS
< 420	< 245	H5A	3-8d	3-8d	
< 455	< 265	H5	4-8d	4-8d	
< 360	< 235	H4	4-8d	4-8d	
< 455	< 320	НЗ	4-8d	4-8d	
< 415	< 365	H2.5	5-8d	5-8d	
< 600	< 535	H2.5A	5-8d	5-8d	
< 950	< 820	H6	8-8d	8-8d	
< 745	< 565	H8	5-10d, 1 1/2"	5-10d, 1 1/2"	
< 1465	< 1050	H14-1	13-8d	12-8d, 1 1/2"	
< 1465	< 1050	H14-2	15-8d	12-8d, 1 1/2"	
< 990	< 850	H10-1	8-8d, 1 1/2"	8-8d, 1 1/2"	
< 760	< 655	H10-2	6-10d	6-10d	
< 1470	< 1265	H16-1	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1470	< 1265	H16-2	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1000	< 860	MTS24C	7-10d 1 1/2"	7-10d 1 1/2"	
< 1450	< 1245	HTS24	12-10d 1 1/2"	12-10d 1 1/2"	
< 2900	< 2490	2 - HTS24		- Committee Committee	
< 2050	< 1785	LGT2	14 -16d	14 -16d	
		HEAVY GIRDER TIEDOWNS*			TO FOUNDATION
< 3965	< 3330	MGT		22 -10d	1-5/8" THREADED ROI 12" EMBEDMENT
< 10980	< 6485	HGT-2		16 -10d	2-5/8" THREADED ROI 12" EMBEDMENT
< 10530	< 9035	HGT-3		16 -10d	2-5/8" THREADED ROI 12" EMBEDMENT
< 9250	< 9250	HGT-4		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
		STUD STRAP CONNECTOR*	4		TO STUDS
< 435	< 435	SSP DOUBLE TOP PLATE	3 -10d		4 -10d
< 455	< 420	SSP SINGLE SILL PLATE	1 -10d		4 -10d
< 825	< 825	DSP DOUBLE TOP PLATE	6 -10d		8 -10d
< 825	< 600	DSP SINGLE SILL PLATE	2 -10d		8 -10d
< 885	< 760	SP4			6-10d, 1 1/2"
< 1240	< 1065	SPH4		F 1	10-10d, 1 1/2"
< 885	< 760	SP6			6-10d, 1 1/2"
< 1240	< 1065	SPH6			10-10d, 1 1/2"
< 1235	< 1165	LSTA18	14-10d		
< 1235	< 1235	LSTA21	16-10d		
< 1030	< 1030	CS20	18-8d		
< 1705	< 1705	CS16	28-8d		
		STUD ANCHORS*	TO STUDS		TO FOUNDATION
< 1350	< 1305	LTT19	8-16d		1/2" AB
< 2310	< 2310	LTTI31	18-10d, 1 1/2*		1/2" AB
< 2775	< 2570	HD2A	2-5/8" BOLTS	1/	5/8" AB
< 4175	< 3695	\ HT€16	18 - 16d		5/8" AB
< 1400	< 1400	PAHD42	16-16d		
< 3335	< 3335	HPAHD22	16-16d		
< 2200	< 2200	ABU44	12-16d		1/2" AB
< 2300	< 2300	ABU66	12-16d		1/2" AB
< 2320	< 2320	ABU88	18 - 160		2-5/8" AB

PE No.53915, POB 868, Lake City, FL Stated dimensions supercede scaled

dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification. COPYRIGHTS AND PROPERTY RIGHTS: Mark Disosway, P.E. hereby expressly reserve ts common law copyrights and property right these instruments of service. This documer

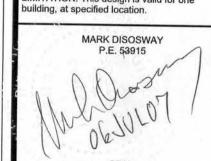
VINDLOAD ENGINEER: Mark Disosway.

REVISIONS

SOFTPLAN

ERTIFICATION: I hereby certify that I have xamined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, florida building ode residential 2004, to the best of my

LIMITATION: This design is valid for one



ADDRESS: Lot 47 Spring Run S/D

Mark Disosway P.E. P.O. Box 868

PRINTED DATE: July 06, 2007

706275

OF 3 SHEETS

DESIGN DATA

WIND LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1 (ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.) BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE

BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION

1.) BASIC WIND SPEED = 110 MPH 2.) WIND EXPOSURE = B

.) WIND IMPORTANCE FACTOR = 1.0

BUILDING CATEGORY = II 5.) ROOF ANGLE = 10-45 DEGREES

6.) MEAN ROOF HEIGHT = <30 FT INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)

Zone Effective Wind Area (ft2) 19.9 -21.8 | 18.1 | -18.1 2 | 19.9 | -25.5 | 18.1 | -21.8 2 O'hg -40.6 3 19.9 -25.5 18.1 -21.8 -68.3 21.8 -23.6 18.5 -20.4 5 21.8 -29.1 18.5 -22.6 Doors & Windows 21.8 -29. Worst Case (Zone 5, 10 ft2) 3x7 Garage Door 19.5 -22.9 6x7 Garage Door 18.5 -21.0

8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))

DESIGN LOADS

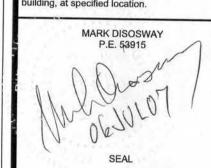
FLOOR 40 PSF (ALL OTHER DWELLING ROOMS) 30 PSF (SLEEPING ROOMS) 30 PSF (ATTICS WITH STORAGE) 10 PSF (ATTICS WITHOUT STORAGE, <3:12)

ROOF 20 PSF (FLAT OR <4:12)

16 PSF (4:12 TO <12:12)

12 PSF (12:12 AND GREATER) STAIRS 40 PSF (ONE & TWO FAMILY DWELLINGS) SOIL BEARING CAPACITY 1000PSF NOT IN FLOOD ZONE (BUILDER TO VERIFY)

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Reuven & Dawn Refaelov Residence

Columbia County, Florida

Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871

DRAWN BY: CHECKED BY:

FINALS DATE: 06 / Jul / 07 JOB NUMBER:

DRAWING NUMBER

REVISIONS -4" AFF — 6"X6" W1 4XW1 4 W.W.M. PLACED AT 2" DEPTH ON CHAIRS OR FIBERMESH CONCRETE -4" CONCRETE SLAB 3000 - PSI AT 28 DAYS 6 MIL VAPOR BARRIER TERMITE TREATED COMPACTED FILL ----(2) #5 CONTINUOUS 4" CONCRETE FLOOR SLAB REINFORCED WITH 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS AT 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER WITH 6" LAPS SEALED WITH POLY TAPE OVER TERMITE-TREATED AND COMPACTED FILL F1 MONOLITHIC FOOTING
S-2 SCALE: 1/2" = 1'-0" WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419 DIMENSIONS:
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification. — SEE STRUCTURAL PLAN FOR POST & CAST IN PLACE ANCHORS 6"X6" W1.4XW1 4 W.W.M. PLACED AT 2" DEPTH ON CHAIRS OR FIBERMESH CONCRETE COPYRIGHTS AND PROPERTY RIGHTS:
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form or manner without first the express written
permission and consent of Mark Disosway. 4" CONCRETE SLAB 3000 - PSI AT 28 DAYS HOUSE SLAB SLOPE PORCH SLAB TO DRAIN CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, florida building code residential 2004, to the best of my knowledge. WITH 6" LAPS SEALED WITH POLY TAPE TERMITE TREATED LIMITATION: This design is valid for one building, at specified location. COMPACTED FILL (1) #5 CONTINUOUS MARK DISOSWAY P.E. 53915 F5 PORCH FOOTING
S-2 SCALE: 1/2" = 1'-0" F1 S-2 -4" AFF Reuven & Dawn Refaelov Residence ADDRESS: Columbia County, Florida FOUNDATION PLAN Mark Disosway P.E. SCALE: 1/4" = 1'-0" P.O. Box 868 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL Lake City, Florida 32056 FLOOR PLAN FOR ACTUAL DIMENSIONS Phone: (386) 754 - 5419 Fax: (386) 269 - 4871 PRINTED DATE: July 06, 2007 DRAWN BY: CHECKED BY: FINALS DATE: 06 / Jul / 07 JOB NUMBER: 706275 DRAWING NUMBER **S-2** OF 3 SHEETS

