

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

ALL CEILINGS ARE 9' FLAT (UNLESS NOTED)

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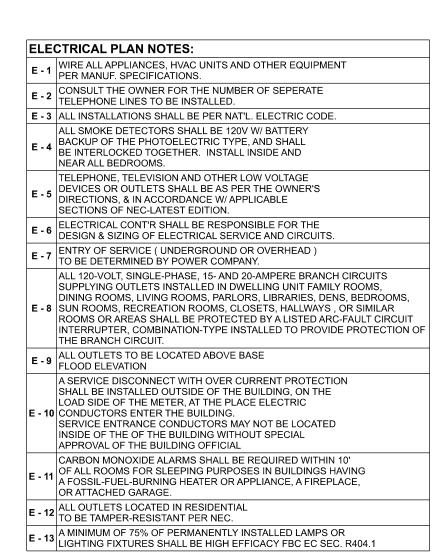
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Building Code Residential (2020) to the best of my knowledge. LIMITATION: This design is valid for one building, at specified location.

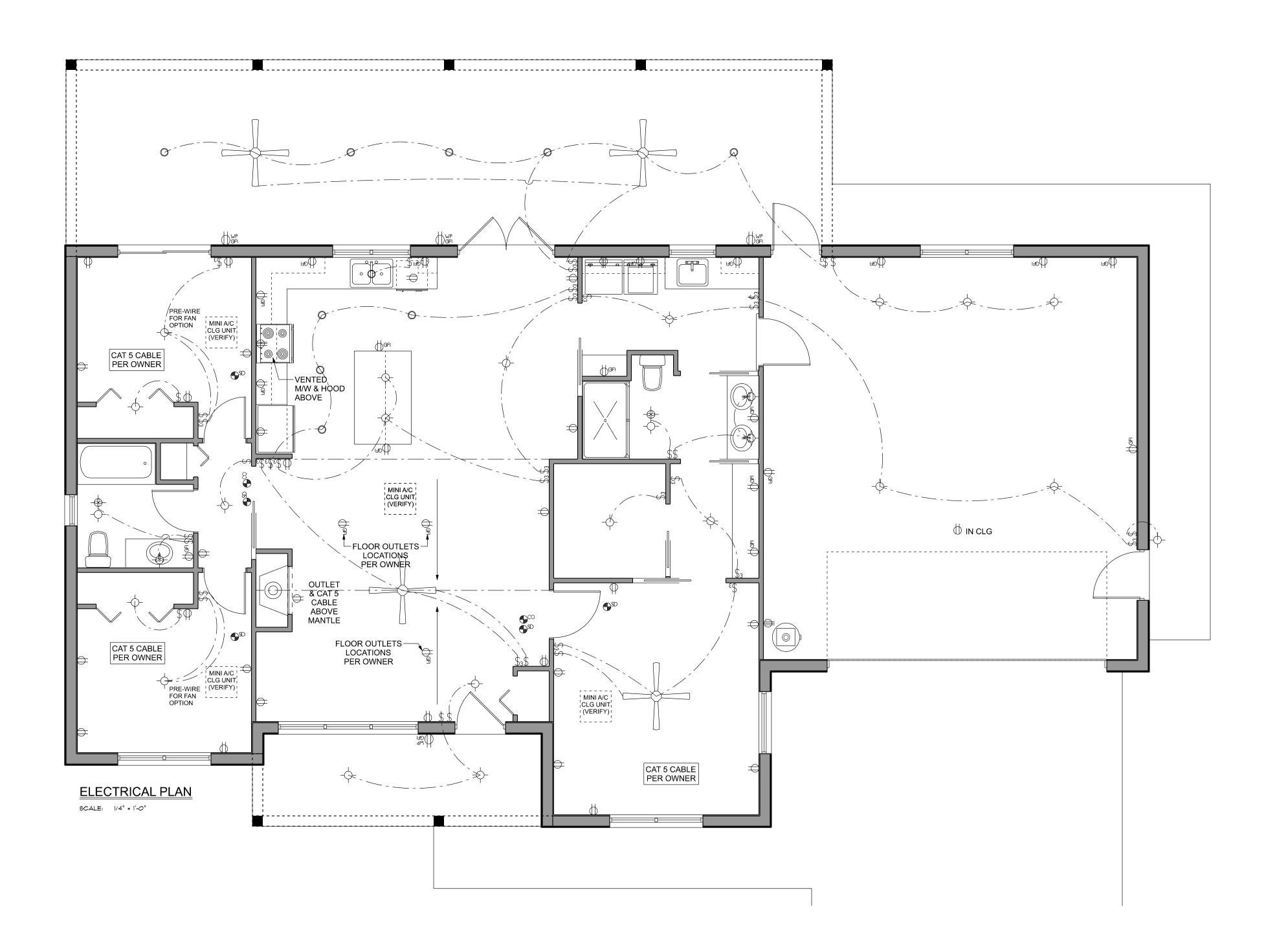
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JOB NUMBER: 240097

OF 6 SHEETS



	ELECTRICAL LEGEND
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
QD	DOUBLE SECURITY LIGHT
	2X4 FLUORESCENT LIGHT FIXTURE
0	RECESSED CAN LIGHT
	BATH EXAUST FAN WITH LIGHT
₩	BATH EXAUST FAN
	LIGHT FIXTURE
Ф	DUPLEX OUTLET
•	220v OUTLET
<b></b> GFI	GFI DUPLEX OUTLET
•	SMOKE DETECTOR
\$	WALL SWITCH
\$3	3 WAY WALL SWITCH
\$4	4 WAY WALL SWITCH
∰ WP/GFI	WATER PROOF GFI OUTLET
$\nabla$	PHONE JACK
©	TELEVISION JACK
P C	GARAGE DOOR OPENER
⊕см	CARBON MONOXIDE ALARM



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00:03

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LIMITATION: This design is valid for one building, at specified location.

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JOB NUMBER: 240097

#3 OF 6 SHEETS

## SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS SAFE LOAD - POUNDS PER LINEAR FOOT **MATERIALS** 8F8-0B 8F12-0B 8F16-0B 8F20-0B 8F24-0B 8F28-0B 8F32-0B 8F8-1B 8F12-1B 8F16-1B 8F20-1B 8F24-1B 8F28-1B 8F32-1B 1. f'c 8" precast lintel = 3500 psi 3069 4605 6113 7547 8974 10394 11809 2. f'c prestressed lintel = 6000 psi 3069 4605 6113 7547 8974 10394 11809 3069 4605 6113 7547 8974 10394 11809 3069 3719 5163 6607 8054 9502 10951 3069 4605 6113 7547 8974 10394 11809 2561 2751 3820 4890 5961 7034 8107 2693 4605 6113 7547 8974 10394 11809 1969 2110 2931 3753 4576 5400 6224 2189 4375 6113 7547(7) 8672 10294 11809 1349 1438 1999 2560 3123 3686 4249 1663 3090 5365 7547(36) 7342(19) 8733(19) 10127(19) 1105 1173 1631 2090 2549 3009 3470 2'-10" (34") PRECAST 3. Grout per ASTM C476 f'c = 3000 psi w/ maximum 3/8 inch aggregate & 8 to 11 inch slump 3'-6" (42") PRECAST 4. Concrete Masonry Units (CMU) per ASTM C90 w/minimum net area 4'-0" (48") PRECAST compressive strength = 1900 psi 5. Rebar per ASTM A615 grade 60 4'-6" (54") PRECAST 6. Prestressing strand per ASTM A416 grade 270 low relaxation 7. Mortar per ASTM C270 type M or S 5'-4" (64") PRECAST 1105 1173 1631 2090 2549 3009 3470 5'-10" (70") PRECAST 1451 2622 4360 7168 (45) 6036 (19) 7181 (19) 8328 (20) 1238 2177 3480 3031 3707 4383 5061 1238 2177 3480 5381 8360 10394(37) 8825 (14) 6'-6" (78") PRECAST GENERAL NOTES 1011 1729 2632 2205 2698 3191 3685 1011 1729 2661 3898 5681 8467(44) 6472(15) 699 1160 1625 2564 3486 2818 3302 752 1245 1843 2564 3486 4705(37) 6390(47) 7'-6" (90") PRECAST 1. Provide full mortar bed and head joints. 2. Shore filled lintels as required. 9'-4" (112") PRECAST 3. Installation of lintel must comply with the architectural 752 1245 1843 2564 3486 4705(37) 6390(47) 535 890 1247 2093 2777 2163 2536 643 1052 1533 2093 2781 3643(38) 4754 (45) 582 945 1366 1846 2423 3127 4006 582 945 1366 1846 2423 3127 4006 540 873 1254 1684 2193 2805 3552 540 873 1254 1684 2193 2805 3552 471 755 1075 1428 1838 2316 2883 471 755 1075 1428 1838 2316 2883 424 706 1002 1326 1697 2127 2630 NR NR NR NR NR NR NR NR and/or structural documents. 10'-6" (126") PRECAST 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 11'-4" (136") PRECAST 17'-4" and longer with a nominal height of 8" meet or exceed L/180 deflection. 12'-0" (144") PRECAST 6. Bottom field added rebar to be located at the bottom of the lintel cavity. 13'-4" (160") PRECAST 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 14'-0" (168") PRECAST in lieu of concrete masonry units. NR NR< 14'-8" (176") PRESTRESSED 15'-4" (184") PRESTRESSED 9. Safe load rating based on rational design analysis per NR NR NR NR NR NR ACI 318 and ACI 530 17'-4" (208") PRESTRESSED 300 536 950 1326 1609 1849 2047 10. Product Approvals: Miami-Dade County, Florida No 300 536 950 1326 1609 1849 2047 NR NR NR NR NR NR NR 235 418 750 1037 1282 1515 1716 NR NR NR NR NR NR NR 180 340 598 845 1114 1359 1468 NR NR NR NR NR NR 165 315 550 784 1047 1285 1399 NR NR NR NR NR NR 129 250 450 654 884 1092 1222 9'-4" (232") PRESTRESSED 11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in 21'-4" (256") PRESTRESSED accordance with ASTM C-296 or other approved coating. 12. Lintels loaded simultaneously with vertical (gravity or 22'-0" (264") PRESTRESSED uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation: 24'-0" (288") PRESTRESSED Applied vertical load Safe vertical load Safe vertical load ≤1.0 Safe vertical load 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 F = FILLED WITH GROUT / U = UNFILLED / S = SOLID

DUANTITY OF #5 FIELD ADDED REBAR AT

- QUANTITY OF #5 FIFLD

ADDED REBAR AT TOP

-#5 FIELD ADDED REBAR AT TOP MIN. (1) REQ'D

— FIELD PLACED C.M.U.

#5 FIELD ADDED REBAR AT

BOTTOM REINFORCING

BOTTOM OF LINTEL CAVITY

(SEE REINFORCING SCHEDULE)

BOTTOM OF LINTEL CAVITY

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

1-1/2" CLEAR

7-5/8"ACTUAL

8" NOMINAL WIDTH

SAFE LOAD TABLE NOTES

Exception: Safe loads for unfilled lintels must

Safe loads are superimposed allowable loads.

4. Safe loads based on grade 40 or grade 60

5. One #7 rebar may be substituted for two

6. The designer may evaluate concentrated

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

9. All safe loads in units of pounds per linear

10. All safe loads based on simply supported

indicates the percent reduction for grade 40

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

11. The number in the the parenthesis

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

reduction  $6472 \Rightarrow (.85) = 5501 \text{ plf}$ 

loads from the safe load tables by

from next longest length shown

field added rebar.

1. All values based on minimum 4 inch

be reduced by 20% if bearing length is

nominal bearing.

less than 6 1/2 inches.

#5 rebars in 8" lintels only

2. N.R. = Not Rated

NOMINAL -

NOMINAL HEIGHT -

<	(Caet	- (\aeta	SAFE	E LOAD	- POUN	NDS PE	R LINE	AR FOO	Т
_		TYPE	8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F28-1T	8F32-1T
LENG	TH $^{\sim}$		8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2T
			1972	3173	4460	5747	7034	8321	9608
2'-10"	(34")	PRECAST	1972	3173	4460	5747	7034	8321	9608
			1569	2524	3547	4569	5591	6613	7636
3'-6" (42")	(42")	PRECAST	1569	2524	3547	4569	5591	6613	7636
41.0"	(40!!)	DDECACT	1363	2192	3079	3966	4853	5740	6627
4'-0"	(48")	PRECAST	1363	2192	3079	3966	4853	5740	6627
4'-6"	(54")	PRECAST	1207	1940	2724	3508	4292	5077	5861
4-0	(34)	FRECASI	1207	1940	2724	3508	4292	5077	5861
<i>C</i> 1 4"	(C.4!!)	DDECACT	1016	1632	2290	2949	3607	4265	4924
5'-4"	(64")	PRECAST	1016	1632	2290	2949	3607	4265	4924
5'-10"	(70")	PRECAST	909	1492	2093	2694	3295	3897	4498
J-10	(10)	FREUASI	929	1492	2093	2694	3295	3897	4498
6'-6"	(78")	PRECAST	835 (12)	1340	1880	2419	2959	3498	4038
	(10)	11(20)(01	835	1340	1880	2419	2959	3498	4038
7'-6"	(90")	PRECAST	727 (23)	1021	1634 (12)	2102 (11)	2571 <sub>(10)</sub>	3039 (10)	3508 <sub>(9)</sub>
7 -0	(30 )		727	1166	1634	2102	2571	3039	3508
9'-4"	(112")	PRECAST	591	680	1133 (15)	1471 (15)	1811 <sub>(15)</sub>	2152 <sub>(16)</sub>	2494 (15)
	(112)		591	851	1326	1705	2084	2463	2842
10'-6"	0'-6" (126")	") PRECAST	530	552	914 (15)	1185 (15)	1458 <sub>(15)</sub>	1732 <sub>(15)</sub>	2007 (15)
	(,		530	686	1183	1526	1865	2204	2544
11'-4"	'-4" (136")	PRECAST	474	485	798 (15)	1034 (15)	1272 (15)	1510 <sub>(15)</sub>	
	( /		494	599	1028	1422	1738	2053	2369
12'-0"	(144")	PRECAST	470 (9)	441	723 (14)	936 (14)	1151 (15)	1366 (15)	<u> </u>
	( ,		470	543	928	1349	1649	1948	2247
13'-4"	(160")	PRECAST	418 (15)	373	606 (14)	783 (14)			<u> </u>
	( /		428	455	770	1145	1444	1718	1993
14'-0"	(168")	PRECAST	384 (15)	346	559 (14)				
			410	420	709	1050	1434 (8)		
14'-8"	(176")	PRESTRESSE	239	323	519 (13)			<u> </u>	
	• •		246	390	655	968	1324 (8)		
15'-4"	(184")	PRESTRESSE	224	302	485 (13)				
			230	364	609	897	1224 (8)		
17'-4"	(208")	PRESTRESSE	187	255	404 (12)				
			192	303	500	732	993 (8)		
19'-4"	(232")	PRESTRESSE		222	347 (11)	446 (11)	546 (12)	646 <sub>(12)</sub>	
			166 142	261	306	616	831 <sub>(8)</sub>		
21'-4"	(256")	PRESTRESSE	142	198	306 <sub>(11)</sub>	393 <sub>(11)</sub> 531	713 <sub>(7)</sub>		
			137	230 192	295 (10)	378 (11)	461 <sub>(10)</sub>		
22'-0"	(264")	PRESTRESSE	137		354	508			<u> </u>
			12/	221 175	267 <sub>(10)</sub>		681 <sub>(7)</sub> 416 <sub>(10)</sub>	861 <sub>(13)</sub> 491 <sub>(10)</sub>	
24'-0"	(288")	PRESTRESSE	124	200	316	341 <sub>(10)</sub> 450	600 (7)	756 <sub>(12)</sub>	<del>                                     </del>

		SAFE	LOAD	- POUN	DS PEF	R LINEA	R F001	-	
	YPE ODLIG	8RF6-0B	8RF10-0B	8RF14-0B	8RF18-0B	8RF22-0B	8RF26-0B	8RF30-0B	
LENGTH	8RU6	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B	
4'-4" (52") PRECAST	Г 1635	1749	3355	3280	4349	5421	6493	7567	
4-4 (32) FINEOAS	1 1033	1891	3699	5206	6639	8060	9479	10893	
4'-6" (54") PRECAST	Г 1494	1596	3063	2992	3968	4946	5924	6904	
4-0 (34) FINECAS	1494	1756	3699	5206	6639	8060	9479	10893	
5'-8" (68") PRECAST	г 866	920	1770	1716	2277	2839	3402	3966	
	000	1167	2481	4567	6389	8060 (34)	7917 <sub>(19)</sub>	9311 (19)	
5'-10" (70") PRECAST	г   810	859	1653	1600	2124	2649	3174	3700	
	810	1113	2342	4242	6639 (10)	8060 <sub>(39)</sub>	7402 <sub>(19)</sub>	8706 <sub>(19)</sub>	
6'-8" (80") PRECAST	г   797	901	1825	3120	5048	7747	9448	7360	
0-0 (00) TRECAS	191	901	1825	3120	5048	7915	9479	10893 <sub>(32)</sub>	
7'-6" (90") PRECAST	г 669	755	1490	2459	3776	5743	7239	5623	
7-0 (90) TREOAG	009	755	1490	2459	3776	5743	8998 (19)	10893 <sub>(48)</sub>	
9'-8" (116") PRECAST	Г 411	466	999	1568	2253	3129	4091	3146	
0 0 (110) 11120/101	'   <del>'</del> ' ' '	526	999	1568	2253	3129	4150	5891 <sub>(47)</sub>	

	( /			526	999	1568	2253	3129	4150
SAFE UPLIFT LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS									
<	(CAST	- Caere	SAI	FE LOA	D - POL	JNDS PI	ER LINE	EAR FO	ОТ
_		TYPE	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
41 411	(EQ!!)	DDECACT	905	1748	2635	3522	4409	5296	6183
4'-4" (52")	(52")	PRECAST	905	1748	2635	3522	4409	5296	6183
4'-6" (54")	(E 411)	PRECAST	867	1675	2525	3374	4224	5074	5924
	(54)		867	1675	2525	3374	4224	5074	5924
5'-8" (68")	(68")	PRECAST	675	1301	1960	2618	3277	3935	4594
3-0	(66)		675	1301	1960	2618	3277	3935	4594
5'-10"	(70")	PRECAST	655	1262	1900	2538	3176	3815	4453
3-10 (	(10)		655	1262	1900	2538	3176	3815	4453
6' 0"	(90")	DDECAST	570	1012	1651	2204	2758	3312	3865
6'-8"	(80")	PRECAST	570	1097	1651	2204	2758	3312	3865
7'-6"	(90")	PRECAST	506	797	1462 (8)	1952 <sub>(7)</sub>	2442 (6)	2931 <sub>(6)</sub>	3257
7 -0	(90)	FILLOAGE	506	967	1462	1952	2442	2931	3421
9'-8"	(116")	PRECAST	395	491	931 (12)	1301 (15)	1640 (15)	1980 (15)	2322 (16)
<i>3</i> -0	(110)	TILOAGI	395	589	1135	1514	1893	2272	2652

ROOF SHEATHING SEE ROOF SHEATHING FASTENING DETAIL
PRE-ENGINEERED WOOD ROOF TRUSSES AT 24" O.C. SELECT TRUSS CONNECTORS FROM THE ANCHOR TABLE PER TRUSS UPLIFT LOADS
8" BOND BEAM POURED SOLID (3000 PSI) CONCRETE w/ #5 CONTINUOUS REBAR 2" FROM TOP
24" MAX
8" CMU WALL #5 VERT. IN FULLY GROUTED CELLS
- IN CORNERS - @ GIRDER TRUSSES - EACH SIDE OF OPENINGS LARGER THAT 48" - EACH END OF SHEARWALL - IN WALL @ 64" OC MAX
I SEE FOUNDATION PLAN FOR RECOMMENDED SPACING
ALL REBAR IS TO BE GRADE 40 UNLESS NOTED OTHERWISE
ALL LAPS TO BE 25" MIN UNLESS NOTED OTHERWISE
4" CONCRETE SLAB

-CLEANOUT

TYPICAL EXTERIOR WALL

w/ STD HOOK

FOR OVERHANGES 12"-24" USE A DROPED GABLE TRUSS WITH

1) .131"x 3.25" NAILS TO 2nd TRUSS (BLOCK BETWEEN OUTLOOKER

— 2X4 LOOKOUT BLOCKING @ 24" O.C.

2X4 OUTLOOKER @ 24" O.C. w/ H2.5a TO GABLE TRUSS AND

— 4" OC NAIL SPACING

- ROOF SHEATHING

(TYP.) GABLE BRACING DETAIL

INSTALL 2X4 SPF#2 DIAGONAL BRACE —

EDGE & 12" O.C. FIELD

ATTACH RAT RUN TO

(4) .131"X3 1/4" NAILS

TOE NAIL TRUSS -

.131"X3 1/4" NAILS

NAIL SHEATHING TO 2X8 PLATE

**BOTTOM CHORD** 

CMU

w/ 8d @ 3" OC

BLOCKING w/

TO PLATE

@ 6" O.C.

FOR UPLIFT-

w/ 8d @ 3" OC

AND NAIL TO BLOCKING AT TOP CHORD & BOTTOM CHORD AND RAT RUN @ 4' O.C.

(BASED ON FBC R606)

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

- SEE FOUNDATION PLAN

(MONO FOOTER w/ RECESS)

FOR FOOTER DETAIL

Wind Speed	Sheathing Thickness Plywood Or OSB	Required Nail	Nail spacing along panel edges	Nail spacing along intermediate supports in the panel field
120 mph Exp. B	7/16"	ASTM F1667 RSRS-01 (2 3/8" × 0.113")	6" oc	12" oc
120 mph Exp. C	7/16"	ASTM F1667 RSRS-01 (2 3/8" × 0.113")	6" oc	6" oc
120 mph Exp. D	19/32"	ASTM F1667 RSRS-03 (2 1/2" × 0.131") or ASTM F1667 RSRS-04 (3" × 0.120")	6" oc	6" oc
130 mph Exp. B	7/16"	ASTM F1667 RSRS-01 (2 3/8" × 0.113")	6" oc	6" oc
130 mph Exp. C	15/32"	ASTM F1667 RSRS-01 (2 3/8" × 0.113")	6" oc	6" oc
130 mph Exp. D	19/32"	ASTM F1667 RSRS-03 (2 1/2" × 0.131") or ASTM F1667 RSRS-04 (3" × 0.120")	6" oc	6" oc
140 mph Exp. B	7/16"	ASTM F1667 RSRS-01 (2 3/8" × 0.113")	6" oc	6" oc
140 mph Exp. C	19/32"	ASTM F1667 RSRS-03 (2 1/2" × 0.131") or ASTM F1667 RSRS-04 (3" × 0.120")	6" oc	6" oc
140 mph Exp. D	19/32"	ASTM F1667 RSRS-03 (2 1/2" × 0.131") or ASTM F1667 RSRS-04 (3" × 0.120")	6" oc	6" oc

center along intermediate supports in the panel field. This table specifies the code minimum thickness of roof sheathing. The thickness of the sheathing may need to be increased based in the type of roofing material being used. See manufacturer Florida product approval.

WINDOW / DOOR BUCK TOP VIEW SECTION  GARAGE DOOR BUCK TOP VIEW SECTION	MANUFACTUR  2x4 OR 2x6 PT ON ALL SIDES  ATTACH BUCK FASTENERS P  CMU WALL WIT  GARAGE DOOL MANUFACTUR  2x6 PT SP#2 DE  ATTACH BUCK	SP#2 WINDOW COF OPENING TO CMU WITH TAER TABLE BELOV TH REINFORCED R ATTACHED TO ER AND FLORIDA	APCON V  CELL BUCK PER A PRODUCT APPROVAL  BUCK PER A PRODUCT APPROVAL  IDES OF OPENING  APCON OR
OPENING SIZE / TYPE:	3/16" TAPCON MAX SPACING	1/4" TAPCON MAX SPACING	1/2" ANCHOR BOLTS
WINDOWS & DOORS UP TO 4' W	14" OC	22" OC	N/A
WINDOWS & DOORS UP TO 6' W	10" OC	16" OC	N/A
WINDOWS & DOORS UP TO 10' W	9" OC	14" OC	N/A
SLIDING DOORS UP TO 8' TALL	9" OC	15" OC	N/A
GARAGE DOOR UP TO 10' WIDE	9" OC	14" OC	(4) 1/2" x 8" ANCHOR BOLTS PER BUCK EVENLY SPACED
GARAGE DOOR UP TO 18' WIDE	4" OC	7" OC	(4) 1/2" x 8" ANCHOR BOLTS PER BUCK

- TAPCON IN FACE OF CMU: 2 1/2" MIN. EDGE DISTANCE 1 1/4" MIN. EMBEDMENT, 3" MIN. SPACING - WINDOWS AND DOORS MAY BE ATTACHED DIRECTLY TO CMU PER MANUFACTURER AND FLORIDA PRODUCT APPROVAL A 1x_ PT "SPACER" BUCK MAY BE USED IF WINDOW / DOOR IS ATTACHED TO CMU PER FLORIDA PRODUCT APPROVAL.
DOOR & WINDOW BUCK ATTACHMENT

BOND BEAM REBAR CONTINUOUS

OVER WALL & OPENING

- IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL

— KNOCK - OUT BLOCK WITH (1) #5

- #5 REINFORCING BAR(S) GRADE 40

LOAD TABLES. TOP HORIZONTAL

1. FILL LINTEL AND ALL CELLS ABOVE LINTEL.

2. VERIFY THAT ALL REINFORCEMENT HAS

3. SEE LINTEL TYPE DESIGNATION TABLE

- FILLED CELL WITH #5 VERTICAL -

SEE STRUCTRUAL PLANS FOR LOCATIONS

CLEAN OUT RQD FOR GROUT LIFT > 5'-0" ----

TYPICAL FILLED LINTEL ASSEMBLY

FOR ADDITIONAL INFORMATION.

BEEN PLACED PROPERLY

CMU WALL

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

(4) .131"X3 1/4" — NAILS

BE NAILED TO TRUSS WEBS

FOR LENGTH OVER 12' IT

TO 12' AND UNBRACED

-(4) .131"X3 1/4"

— 2X4 CONTINUOUS RAT RUN NAIL EACH

CONNECTION w/ (4) .131"X3 1/4" NAILS

- (4) .131"X3 1/4" NAILS (TYP.)

- H3 INSTALLED HORIZONTALLY - 2X8 SP #2 PT PLATE w/

MIN. 8" FROM CORNERS & @ 48" OC

1/2" X 10" ANCHOR BOLTS w/ 3" WASHER & NUT

- (8) .131"X3 1/4" NAILS

- 2X4 SPF#2 BLOCKING

MAY BE "T" BRACED UP

(4) .131"X3 1/4"

VALLEY SET FRAMING DETAIL

TÓ RAFTER

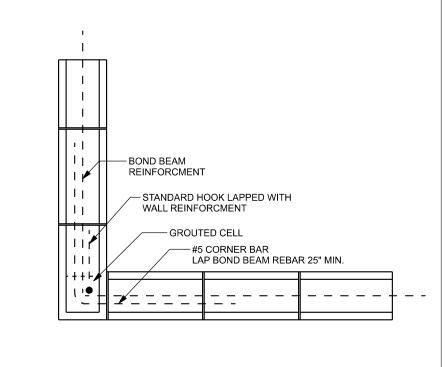
ARE TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES

REINFORCEMENT IS TO BE A CONTINUOUS

TIE AS NOTED IN NOTE #9 (LINTEL DETAIL)

— PRECAST LINTELS STD. 90° HOOK —

REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS



CORNER CONTINUITY OF BOND BEAM AND WALL REINFORCEMENT
(BASED ON FBC FIG. R609.2.4) SCALE: 3/4" = 1'-0"

3/16" OR 1/4" TAPCON —

FASTENERS 8" TO 12" FROM TOP OF WALL

(SEE TABLE FOR

WALL END STUD -

BEARING WALLS)

8" CMU WALL — (SEE WALL SECTION)

I INTERIOR SHEAR WALL

SPACING BETWEEN)

(SEE WALL SECTIONS FOR WALL CONNECTIONS FOR SHEARWALLS AND

CONNECTOR TABLE								
lift SP	Uplift SPF	Truss Connector	To Plate	To Truss/Rafter				
5	485	SDWC15600	-	-				
5	290	H3	4-8dx1 1/2"	4-8dx1 1/2"				
5	495	H2.5A	5-8dx1 1/2"	5-8dx1 1/2"				
40	1015	H10A	9-10d1 1/2"	9-10d1 1/2"				
0	620	LTS12-20	6-10d1 1/2"	6-10d1 1/2"				
00	860	MTS12-30	7-10d1 1/2"	7-10d1 1/2"				
50	1245	HTS20-30	12-10d1 1/2"	12-10d1 1/2"				
lift SP	Uplift SPF	Strap Ties	To One Member	To Other Member				
35	1235	LSTA21	8-10d	8-10d				
40	1455	MSTA24	9-10d	9-10d				
30	1030	CS20	7-10d	7-10d				
lift SP	Uplift SPF	Stud Plate Ties	To Stud	To Plate				
5	535	SP1	6-10d	4-10d				
65	605	SP2	6-10d	6-10d				
1	771	LSTA24	10-10d	wrap under or over plate				
35	1235	LSTA24	14-10d	wrap under or over plate				
lift SP	Uplift SPF	Holdowns @ Stemwall	To Stud / Post	Anchor				
25	1800	DTT2Z	8-SDS 1/4"x1 1/2"	1/2"x12" Titen HD				
35	3640	HTT4	18-16dx2 1/2"	1/2"x12" Titen HD				
lift SP	Uplift SPF	Holdowns @ Mono	To Stud / Post	Anchor				
25	1800	DTT2Z	8-SDS 1/4"x1 1/2"	1/2"x6" Titen HD				
35	3640	HTT4	18-16dx2 1/2"	1/2"x12" Titen HD				
lift SP	Uplift SPF	Post Bases @ Stemwall	To Post	Anchor				
00		ABU44	12-16d	5/8"x12" Drill & Epoxy				
50		ABU66	12-16d	5/8"x12" Drill & Epoxy				
lift SP	Uplift SPF	Post Bases @ Mono	To Post	Anchor				
00		ABU44	12-16d	5/8"x7" Drill & Epoxy				
50		ABU66	12-16d	5/8"x7" Drill & Epoxy				

## MASONRY TRUSS ANCHOR TABLE OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'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

		GENERAL NOTES:
	To Truss/Rafter	TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN. PLACEMENT PLANS. TEMPORARY AND PERMANENT BRACING DETAILS.
	4-8dx1 1/2"	TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR
	5-8dx1 1/2"	ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S
	9-10d1 1/2"	DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER
	6-10d1 1/2"	FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING
	7-10d1 1/2"	WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR
	12-10d1 1/2"	REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS
	To Other Member	WITH MIN. UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.
	8-10d	SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN
	9-10d	FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET
	7-10d	GRAVITY LOAD REQUIREMENTS (ASSUME 1500 PSF BEARING CAPACITY UNLESS
	To Plate	VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE)
	4-10d	CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 2500 PSI.
	6-10d	
	wrap under or over plate	WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE
	wrap under or over plate	REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB: SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS
	Anchor	NOT TO EXCEED 3'.
"	1/2"x12" Titen HD	FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER
	1/2"x12" Titen HD	REINFORCEMENT, FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75
	Anchor	TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS.
"	1/2"x6" Titen HD	FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.
	1/2"x12" Titen HD	OLIVIII IOMITON OF COMIT LIMNOL WITHIN NEQUESTED BY BUILDING OFFICIAL.
	Anchor	CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL

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 48 \* DB (30" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 1/2" CDX PLYWOOD SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 113" X 2 3/8" RING SHANK NAILS @ 6" OC ON EDGES & INTERMEDIATE SUPPORTS 4" OC ON GABLES

STRUCTURAL CONNECTORS: MANUFACTURERS & 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.
BUILDER'S RESPONSIBILITY:
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 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, S BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT I 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 FBCR REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE T

TRUSS SHEETS.

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

MASONRY NOTE:
MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJEC
SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION
FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602).
THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE
PROCEEDING, 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

	ACI530.1-02 Section Specific Requirements			
1.4A	Compressive strength	8" block bearing walls F'm = 1500 psi		
2.1	Mortar	ASTM C 270, Type N, UNO		
2.2	Grout	ASTM C 476, admixtures require approval		
2.3	CMU standard	ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block		
2.3	Clay brick standard	ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5"		
2.4	Reinforcing bars, #3 - #11	ASTM 615, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia. (25" for #5)		
2.4F	Coating for corrosion protection	Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class G60, 0.60 oz/ft2 or 304SS		
2.4F	Coating for corrosion protection	Joint reinforcement in walls exposed to moisture or wire ties, anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/ft2 or 304SS		
3.3.E.2	Pipes, conduits, and accessories	Any not shown on the project drawings require engineering approval.		
3.3.E.7	Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.		
		1 , 3		

GRA	DE & SPECIES TA	BLE	
		Fb	Е
2x8	SP #2	925	1.4
2x10	SP #2	800	1.4
2x12	SP #2	750	1.4
GLB	24F-V3 SP	2600	1.9
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2950	2.0
PSL	PARALAM	2900	2.0

	INTERIOR BEARING WALL INTERIOR NON-BEARING WALL	16" OC 48" OC	16" OC 48" OC		
۱N	IT. FRAME WALL	TO CMU	CONNEC	TION	

3/16" TAPCON | 1/4" TAPCON

MAX SPACING | MAX SPACING

6" OC

8" OC

		<b>DESIGN CRITERIA &amp; LOAD</b>	S:
		BUILDING CODE	8th EDITION FLORIDA BUILDING CODE RESIDENTIAL (2023
		CODE FOR DESIGN LOADS	ASCE 7-22
VALLEY TRUSS SET (DESIGNED BY OTHERS)		WINDLOADS	
SPACED @ 24" OC MAX. WITH ROOF SHEATHING ALL BRACING PER TRUSS ENGINEERING		BASIC WIND SPEED (ASCE 7-10, 3S GUST)	130 MPH
ATTACH BOTTOM CHORD OF TRUSS TO TRUSS PLATE w/ (2) .131" x 3.25" NAILS @ 24" OC  BEVELED 2x4 SP#2 CONT. TRUSS PLATE NAILED TO TRUSSES BELOW w/		WIND EXPOSURE (BUILDER MUST FIELD VERIFY EXPOSURE PER SITE BEFORE STARTING CONSTRUCTION)	С
(2) .131" x 3.25" TOE-NAILS @ 24" OC MAX		TOPOGRAPHIC FACTOR (BUILDER MUST FIELD VERIFY)	I
, SP ROOF TRUSS (BY OTHERS)		RISK CATEGORY	II
SPACED @ 24" OC MAX.		ENCLOSURE CLASSIFICATION	ENCLOSED
TRUSS VALLEY SET WITH ROOF SHEATHING		INTERNAL PRESSURE COEFFICIENT	0.18
		ROOF ANGLE	7-45 DEGREES
		MEAN ROOF HEIGHT	30 FT
RAFTER SPAN IS ER 7' LONG (HORZ.)		C&C DESIGN PRESSURES	FBC R301.2(2) & TABLE R301.2(4) SEE TABLE BELOW
D PLATE AND WITH ROOF SHEATHING		FLOOR LOADING	
4 SP#2 VERTICAL CKER (8' TALL MAX) /ERY 48" OC w/  ATTACHED TO 2X6 SP#2 RIDGE BOARD w/ (4) .131" x 3.25" TOE-NAILS (DO NOT SPLIT WOOD)		ROOMS OTHER THAN SLEEPING ROOM	40 PSF LIVE LOAD
.131" x 3.25" NAILS / ATTACH RAFTER TO PLATE w/		SLEEPING ROOMS	30 PSF LIVE LOAD
RAFTER (4) .131" x 3.25" TOE-NAILS AND H3 CLIP (DO NOT SPLIT WOOD)		ROOF LOADING	
		FLAT OR < 4:12	20 PSF LIVE LOAD
ATTACH RAFTER PLATE TO TRUSSES BELOW W/ (2) 1/4" x 3 1/2" SDS WOOD SCREWS @ 24" OC		4:12 TO < 12:12	16 PSF LIVE LOAD
		SOIL BEARING CAPACITY	1500 PSF
SP ROOF TRUSS (BY OTHERS) SPACED @ 24" OC MAX. WITH ROOF SHEATHING		FLOOD ZONE	THIS BUILDING IS NOT IN THE FLOOD ZONE
RAFTER VALLEY SET		COMPONENT & CLADING	DESIGN PRESSURES 130 MPH (EXP

COMPONENT & CI	LADING DESIGN PRI	ESSURES 130 MPH (EXP
EFFECTIVE WIND AREA (FT2)	ZONE 4 (walls) INTERIOR	ZONE 5 (walls) END 4' FROM ALL OUTSIDE CORNER
0 - 20	Vult = +43 / -47 Vasd = +26 / -28	Vult = +43 / -57 Vasd = +26 / -35

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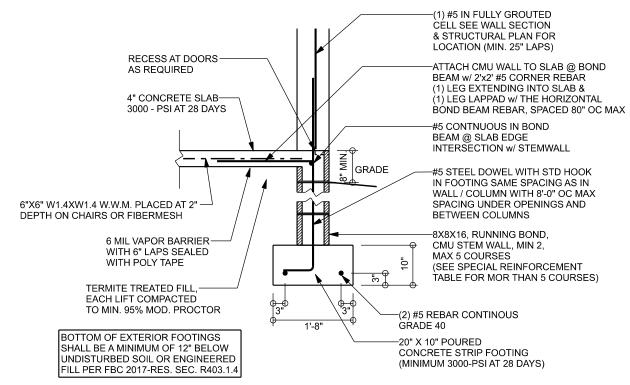
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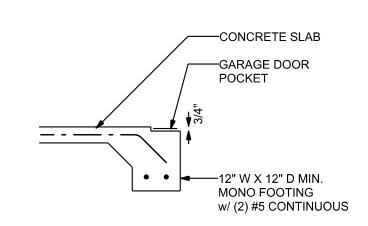
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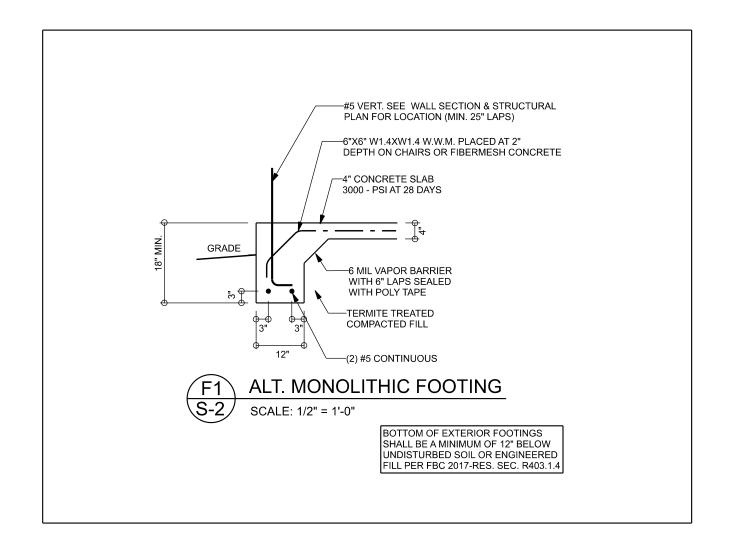
EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.



F1 ALT. STEM WALL FOOTING S-2 SCALE: 1/2" = 1'-0"



F5 GARAGE DOOR POCKET FOOTING
S-2 SCALE: 1/2" = 1'-0"



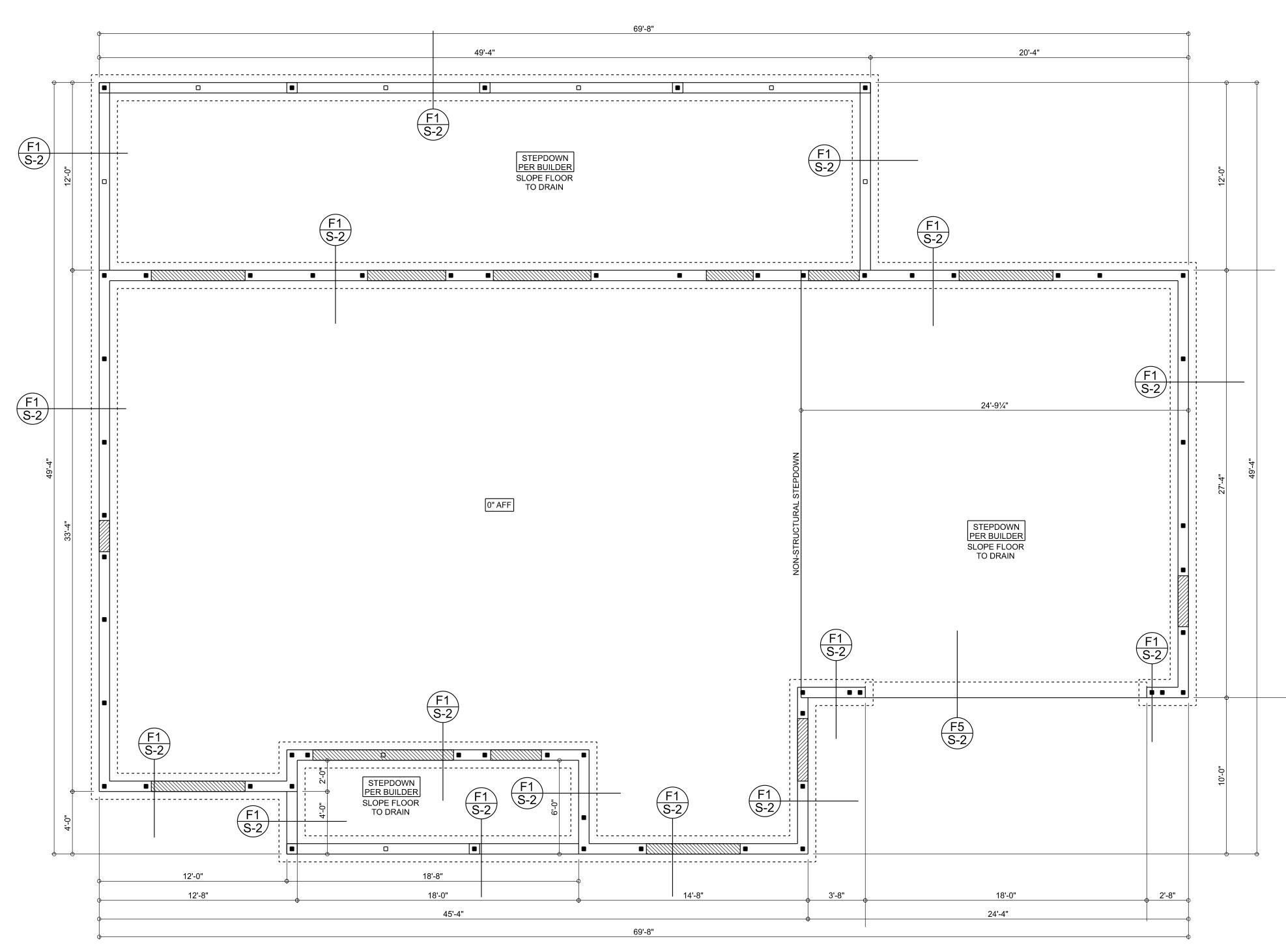
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	ACI530.1-02 Section	Specific Requirements		
1.4A	Compressive strength	8" block bearing walls F'm = 1500 psi		
2.1	Mortar	ASTM C 270, Type N, UNO		
2.2	Grout	ASTM C 476, admixtures require approval		
2.3	CMU standard	ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block		
2.3	Clay brick standard	ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5"		
2.4	Reinforcing bars, #3 - #11	ASTM 615, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia. (25" for #5)		
2.4F	Coating for corrosion protection	Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class G60, 0.60 oz/ft2 or 304SS		
2.4F	F Coating for corrosion protection  Joint reinforcement in walls exposed moisture or wire ties, anchors, sheet ties not completely embedded in mor grout, ASTM A153, Class B2, 1.50 oz or 304SS			
3.3.E.2	Pipes, conduits, and accessories	Any not shown on the project drawings require engineering approval.		
and location of movement joi		Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.		

ALL STEM WALL TABLE:							
	he table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the						
	einforced slab at the top. The vertical steel is to be placed toward the tension side of the						
	way from the s						
	gh, add Durowa						
	#5 continuous	_		ner parts of	the wall 12"	CMU may	be used
with reinforc	ement as show	vn in the tal	ble below.				
STEMWALL	UNBALANCED		AL REINFORG			L REINFORC	
HEIGHT (FEET)	BACKFILL HEIGHT		3" CMU STEM (INCHES O.C.			!" CMU STEM' NCHES O.C.)	
(, == , )			`	,	,	<u> </u>	
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80

8.3 8 24 32 24 48

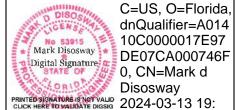
9.0 8 16 24 16 40



## FOUNDATION PLAN SCALE: 1/4" = 1'-0"

	FOUNDATION NOTES
N - 1	DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR MARK DISOSWAY, PE IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN.
N - 2	CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWINGTHE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN
N - 3	THE SLAB SHALL BE: 4" CONCRETE SLAB REINFORCED W/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS @ 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER W/ 6" LAPS SEALED W/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL

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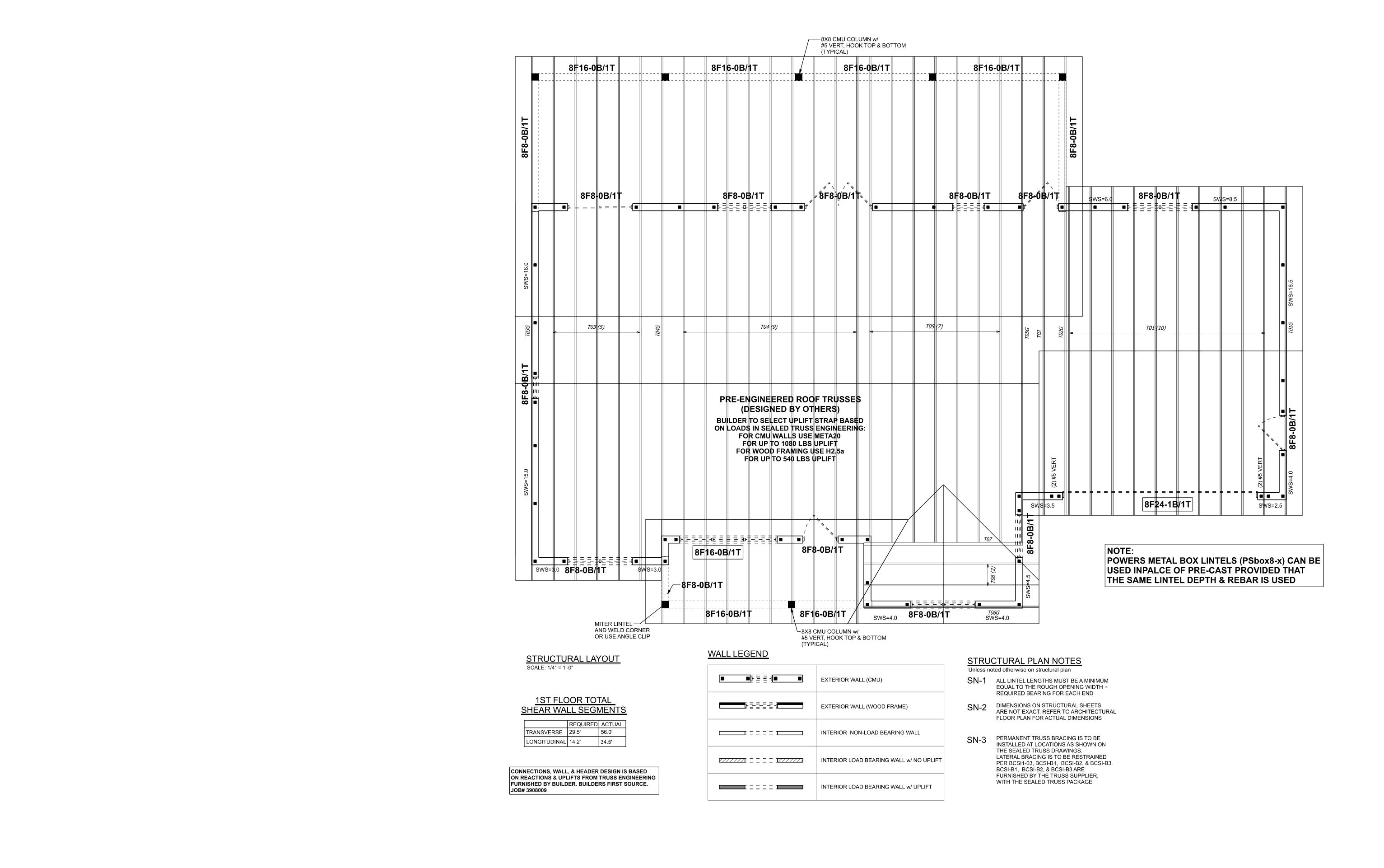
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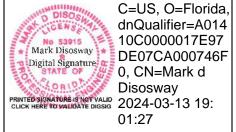
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