RETAINING WALL NOTES

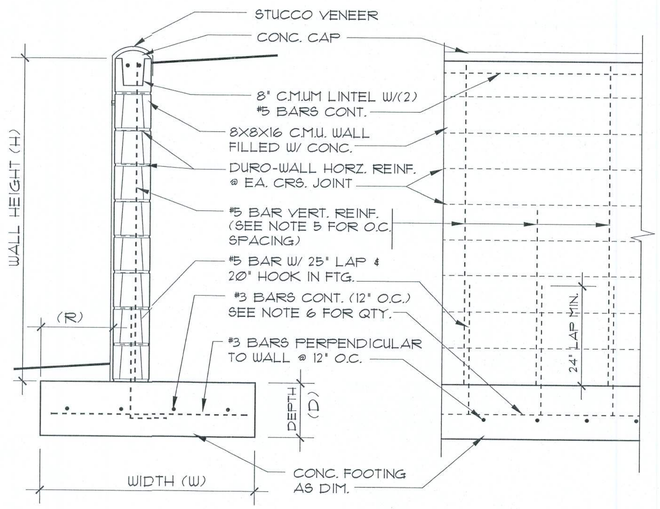
1. CONC. FILL ALL BLOCK CELLS
2. CONC. TO BE 3000 P.S.I. @ 28 DAYS
3. FOOTER AND WALL HEIGHT MAY BE STEPPED TO ADJUST FOR GRADE WHERE WALL HEIGHT OR FOOTER ELEVATION IS STEPPED - CONT. HORZ. REINF. MUST BE STEPPED
4. WEIGHT OF ASSUMED SOIL BACKFILL IS 100 PCF AND EQUIVALENT FLUID PRESSURE IS 45 PCF. THERE IS NO SURCHARGE AND MAIXMUM SOIL BEARING PRESSURE IS 1,500 PSF.
5. VERTICAL #5 BAR REINF. O.C. SPACING:

WALL HEIGHT (H)	SPACING OF VERT. REINF. * (SEE NOTE 7)
3'-4"	40" O.C.
4'-0"	32" O.C.
4'-8"	32" O.C.
5'-4"	16" O.C.
6'-0"	16" O.C.

6. CONC. FOOTER SIZE AND REINFORCEMENT

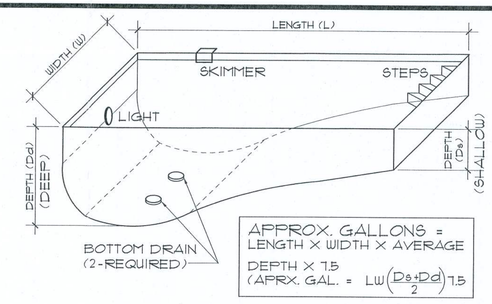
WALL HEIGHT (H)	FTG. WIDTH (W)	FTG. DEPTH (D)	WALL LOC. (R)	CONT. #5 BARS (@ 12" O.C.)
3'-4"	32"	9"	12"	2
4'-0"	36"	9"	12"	3
4'-8"	40"	10"	12"	3
5'-4"	44"	10"	14"	4
6'-0"	50"	12"	15"	5

7. ALTERNATE VERT. REINF. BARS MAY BE TERMINATED AT THE MID-HEIGHT OF THE WALL. EVERY THIRD BAR MAY TERMINATED AT THE UPPER TWO-THIRDS (2/3) OF WALL HT.
8. WALL 24" OR LESS CAN BE POURED SOLID W/ DECK W/8" BEARING W/(1) #5 OR (2)#3 REBAR.



RETAINING WALL DETAIL

SCALE: ½" = 1'-0"

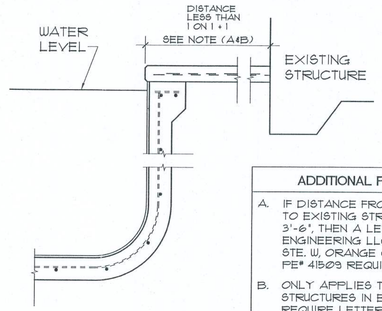


APPROX. GALLONS = LENGTH X WIDTH X AVERAGE DEPTH X 7.5

(APRX. GAL. = $LW\left(\frac{Ds+Dd}{2}\right)7.5$

TYPICAL POOL SHELL

SCALE: N/A



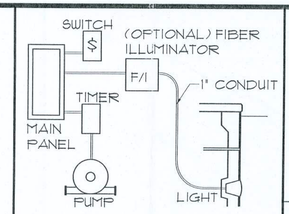
ADDITIONAL REQUIREMENTS

A. IF DISTANCE FROM EDGE OF POOL TO EXISTING STRUCTURE IS LESS THAN 3'-6", THEN A LETTER FROM MOLYET ENGINEERING LLC, 1060 E. INDUSTRIAL DR STE. W, ORANGE CITY, FLORIDA 32763 PE# 41509 REQUIRED.

B. ONLY APPLIES TO 1 STORY STRUCTURES. STRUCTURES IN EXCESS OF ONE STORY, REQUIRE LETTER FROM MOLYET ENGINEERING LLC, 1060 E. INDUSTRIAL DR STE. W, ORANGE CITY, FLORIDA 32763 PE# 41509 REQUIRED.

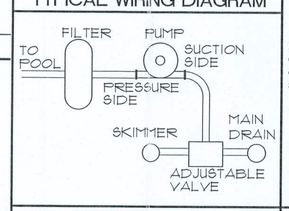
DETAIL NOTES

SHORING REQUIRED POST EXCAVATION PRIOR TO APPLICATION OF SHOTCRETE/GUNITE. THE CONTRACTOR MUST PLACE ALL STEEL IN THE POOL WALL AT NO MORE THAN 6 INCHES ON CENTER IN BOTH DIRECTIONS IN THE CRITICAL AREA. THIS STEEL SHALL EXTEND 18" INTO COVE/BOTTOM.
THE POOL SHELL WALL SHALL BE CONSTRUCTED AT 6" THICKNESS. STEEL MAT AND SHELL WALL SHALL BE EXTENDED ALONG THE CRITICAL AREA AND TO A POINT WHICH IS GREATER THAN THE MINIMUM REQUIRED DISTANCE AS DETERMINED BY THE 1 ON 1 +1 RULE.

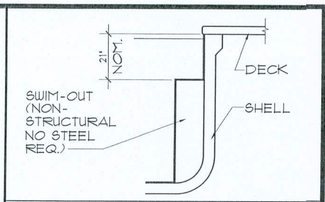


(NOTE: AS PER N.E.C. AND LOCAL CODES)

TYPICAL WIRING DIAGRAM

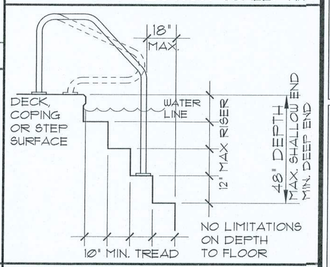


TYP. PLUMBING DIAGRAM



SWIM-OUT SECTION

SCALE: N/A



STEPS SECTION

SCALE: N/A

AMERICAN NATIONAL STANDARDS INSTITUTE
ANSI/NSPI - 3 1999 PERMANENTLY INSTALLED RESIDENTIAL SPAS

ANSI/NSPI - 5-03 STANDARD FOR RESIDENTIAL INGROUND SWIMMING POOLS

AMERICAN NATIONAL STANDARDS INSTITUTE
AMERICAN SOCIETY OF MECHANICAL ENGINEERS

2005 NATIONAL ELECTRICAL CODE

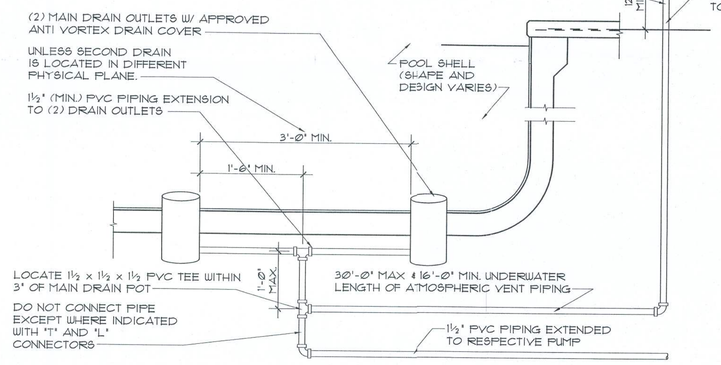
2004 FLORIDA RESIDENTIAL CODE - SECTION R4101.6

APPLICABLE CODES AND ORDINANCES

1. POOL MUST MEET CODE SETBACK REQUIREMENTS.
2. COMPACTION TEST NOT REQUIRED EXCEPT WHEN POOL IS PLACED ON FILL. (COMPACTION SHALL BE 95% OF SOIL DENSITY)
3. REINFORCING STEEL BARS - ASTM A15-58T & A305-58T
4. ALL REINFORCING BARS, POOL & METAL DECK EQUIPMENT TO BE GROUNDED.
5. WALLS & FLOOR - PNEUMATICALLY PLACED OR MACHINE MIXED CONCRETE. (GRADE A, 2500 P.S.I. @ 28 DAYS) WALLS & FLOOR: 6" THICK (MIN.)
6. 3½" THICK CONCRETE DECKING AROUND POOL TO BE REINFORCED WITH 6X6 WELDED WIRE MESH AND/OR FIBER MESH AND/OR #3 REBAR (MIN.) AT 24" O.C.
7. SEE PUMP & FILTER DATA SHEET FOR HYDRAULIC REQR.
8. ANY VARIATION OF STANDARD POOL CRITERIA MUST BE ACCOMPANIED BY LETTER FROM A LICENSED ENGINEER.
9. CONSTRUCTION MUST ADHERE TO FLORIDA RESIDENTIAL CODE SECTION R4101.1 REGARDING BARRIER REQ.
10. ALL POOLS EXCEEDING 8' OF DEPTH WILL REQUIRE SUPPLEMENTAL ENGINEERING.
11. NO DIVING BOARDS OR SLIDES
12. APPLIES TO BOTH POOLS AND SPA'S
13. SYSTEM IS DESIGNED AND TESTED AT 60 GAL./MIN., 6 FEET PER SECOND
14. THESE PLANS MAY BE USED FOR MASTER FILE PURPOSES.
15. THIS DESIGN HAS BEEN TESTED TO BE IN COMPLIANCE WITH FLORIDA RESIDENTIAL CODE SECTION R4101.6.6.3 MAXIMUM VACUUM DOES NOT EXCEED 4½" OF MERCURY AND IS RELEASED IN LESS THAN 3 SECONDS.
16. THIS ENGINEERING EXPIRES ON 8-21-07 OR UNTIL SUPERCEDED BY NEW CODE, WHICHEVER OCCURS FIRST.

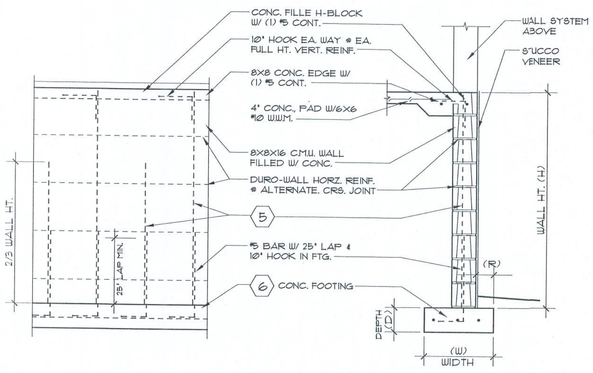
GENERAL NOTES

Office copy



DUAL MAIN DRAIN ATMOSPHERIC VENT (PREFERED) GOOD FOR POOL/SPA

SCALE: ½" = 1'-0"



ENGINEER NOTES:

1. CONC. FILL ALL BLOCK CELLS
2. CONC. TO BE 3000 P.S.I. @ 28 DAYS
3. FOOTER AND WALL HEIGHT MAY BE STEPPED TO ADJUST FOR GRADE WHERE WALL HEIGHT OR FOOTER ELEVATION IS STEPPED - CONT. HORZ. REINF. MUST BE STEPPED
4. WEIGHT OF ASSUMED SOIL BACKFILL IS 100 PCF AND EQUIVALENT FLUID PRESSURE IS 45 PCF. THERE IS NO SURCHARGE AND MAIXMUM SOIL BEARING PRESSURE IS 1,500 PSF.

5 VERTICAL #5 BAR REINF. O.C. SPACING:

WALL HEIGHT (H)	SPACING OF VERT. REINF. * (SEE NOTE 7)
3'-4"	54" O.C.
4'-0"	48" O.C.
4'-8"	48" O.C.
5'-4"	40" O.C.
6'-0"	40" O.C.
6'-8"	32" O.C.

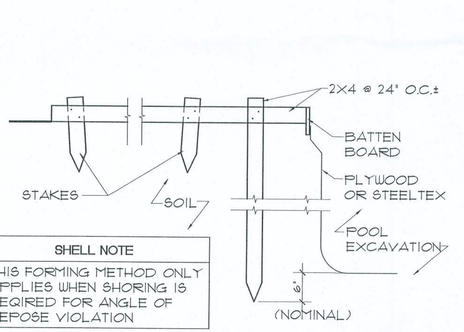
6 CONC. FOOTER SIZE AND REINFORCEMENT

WALL HEIGHT (H)	FOOTING WIDTH (W)	FOOTING DEPTH (D)	WALL LOCATION (R)	CONTINUOUS #5 REBARS
3'-4"	20"	8"	6"	2
4'-0"	24"	8"	6"	2
4'-8"	24"	10"	6"	3
5'-4"	24"	10"	6"	3
6'-0"	28"	12"	8"	3
6'-8"	28"	12"	8"	3

7. ALTERNATE VERT. REINF. BARS MAY BE TERMINATED AT TWO-THIRDS (2/3) OF WALL HEIGHT.
8. CONC. FILLED CELLS AND REINF. IN WALL SYSTEM ABOVE SLAB AND STEMWALL MAY VARY FROM STEMWALL REINF.

TALL STEM-WALL DETAIL (40" AND OVER)

SCALE: ½" = 1'-0"

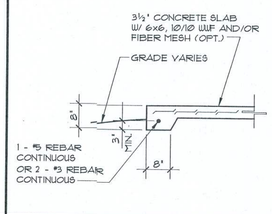


SHELL NOTE

THIS FORMING METHOD ONLY APPLIES WHEN SHORING IS REQIRED FOR ANGLE OF REPOSE VIOLATION

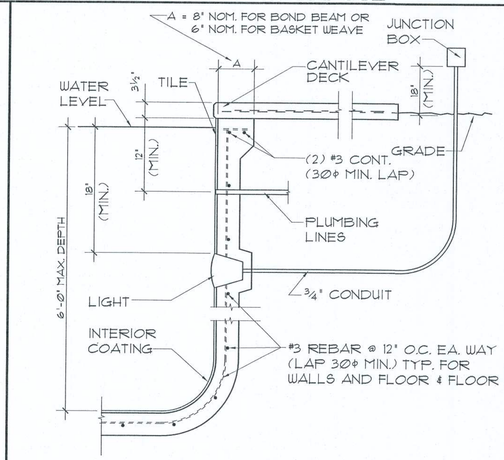
TYP. WALL AND FLOOR WITHIN ANGLE OF REPOSE

SCALE: N/A



TURNED EDGE

SCALE: ½" = 1'-0"



SECTION DETAIL

SCALE: ½" = 1'-0"

Weldon & Associates
residential & building design services
1425 S. Volusia Ave., Orange City, FL 32763
Work: (386) 775-0620 / Fax: (386) 775-0662
Web: WeldonAssoc.com Email: info@WeldonAssoc.com

Molyet Engineering LLC
PE 41509
Certificate of Authority: 00009985
1060 East Industrial Drive, Ste W
Orange City, Florida 32763
voice.386.532.8000
fax.386.774.6843

DESIGN STATEMENT: THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA RESIDENTIAL CODE, 2004 EDITION WITH ALL REVISIONS THERETO.
THE DESIGN CRITERIA ARE AS FOLLOWS:

BASIC WIND SPEED:	120mph (3 SEC. GUST)
WIND IMPORTANCE FACTOR:	I
WIND EXPOSURE CATEGORY:	B
INTERNAL PRESSURE COEFFICIENT:	0.18
COMPONENTS & CLADDING WIND SPEED:	+25.9psf/-34.7psf

SWIMMING POOL
RESIDENTIAL DESIGN
Pool Contractor: Paradise Pool Company of Gainesville
License No:
Address:
Tel. No:

PROJECT NO.: IP0511
DATE: 11 OCT 2005
DRAWN BY: C. weldon
SHEET NO.: P-1