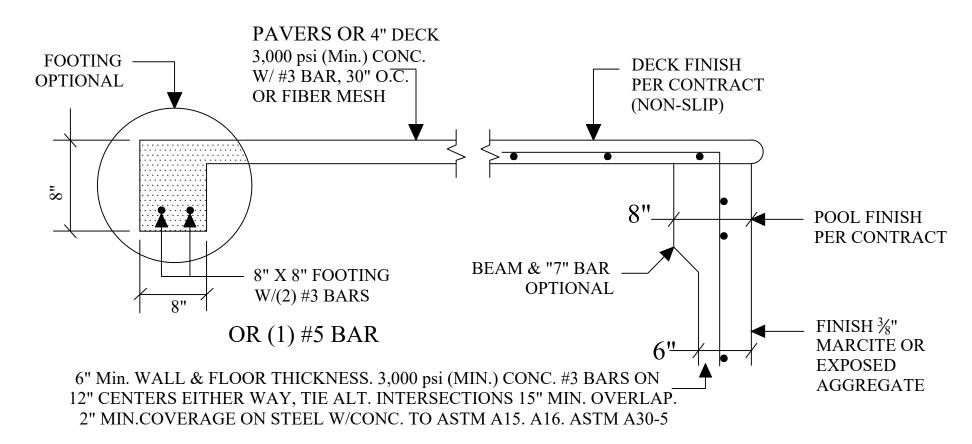
### 2'-9" Min. EXCEPT FOR SEE NSPI 5 RE: SLOPING ENTRIES. 4'-0" Max. — HANDHOLDS WATER — LINE **EXCEPTION: ROPE AND** FLOATS INSTALLED IF 8" Max. Radius LESS THAN 4'-6" 7 Max. ■ 11.0° Max. 3 Max. 8' Min. TO SLOPE CHANGE

N.T.S.

## POOL SECTION DETAIL N.T.S.

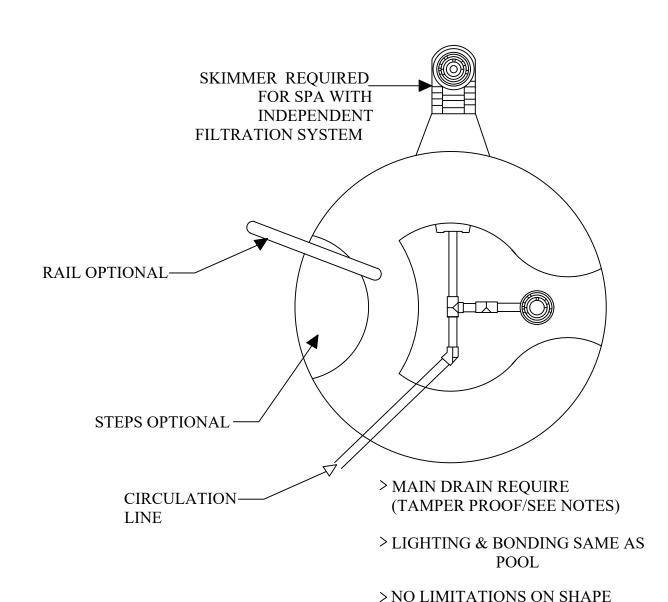
SB836, 6-20-07

FOR BONDING AND GROUNDING SYSTEMS FOR SWIMMING POOLS, THE USE OF AN UNDERGROUND BONDING CONDUCTOR MADE OF #8 AWG. BARE SOLID COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 INCHES TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM INSIDE WALL OF A SWIMMING POOL OR SPA, IS DEEMED A PERMISSIBLE ALTERNATIVE OR EQUIVALENT TO COMPLIANCE WITH s. 680.20 OF THE NATIONAL ELECTRICAL CODE.

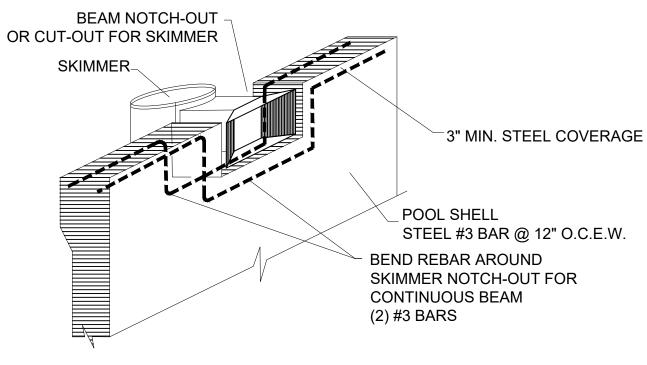


Structural subject to suitable soil conditions.

POOL/SPA, DECK, BEAM, WALL, FLOOR N.T.S.



## GENERAL SPA PLAN N.T.S.



### STEEL AT SKIMMER BEAM DETAIL N.T.S.

CLEANER/VAC PIPE SIZE  $1\frac{1}{2}$ 

SKIMMER SUCTION PIPE SIZE 2"

RETURN SUCTION PIPE SIZE  $1\frac{1}{2}$ "

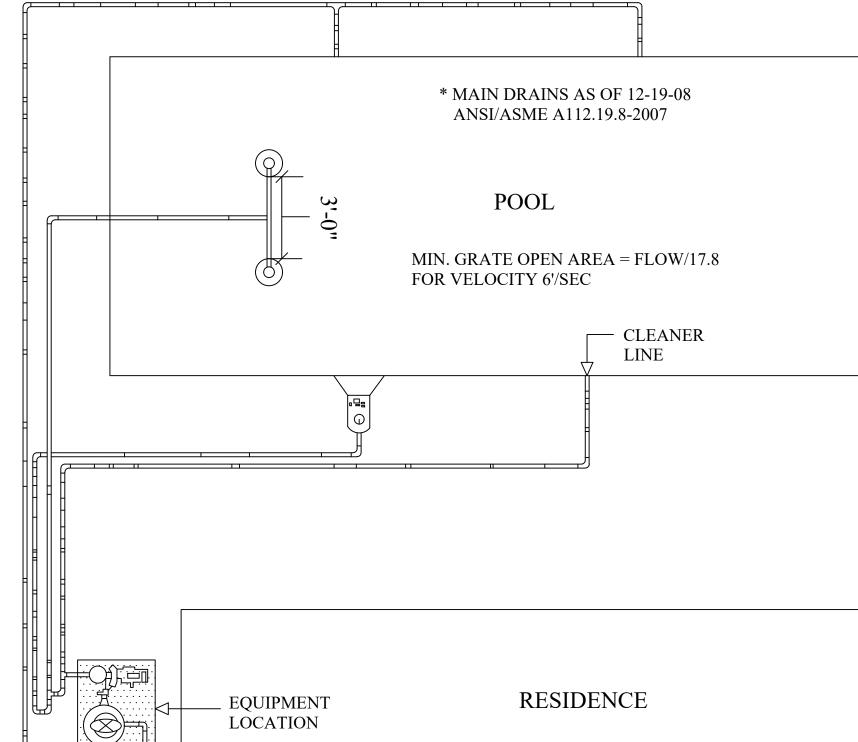
# Examiner-License No.

BE BASED ON A TOTAL DYNAMIC HEAD OF 60 ft. Determine System Flow Rate: Minimum Flow Rate Required: 35gpm per skimmer (Required: 1 Skimmer per 800 sf)

Pool Volume:  $\underline{500}$  sq. ft x  $\underline{4}$  ave depth x 7.481 gal/cf = 15,000

Turnover Time in Hours: 6 hours x 60 min/hr = 360 minutes Flow Rate: 15,000 gallons/360 minutes = 42 gpm

PIPE SIZING CHART (MAXIMUN)					
<u>PIPE</u>	<b>SUCTION</b>	<u>PRESSURE</u>			
1 ½"	35 GPM	65 GPM	F		
2"		105	Ħ		
$\frac{2}{2}\frac{1}{2}$	90		H		
3"	135				
<b>4"</b>	235	396		6	<del>                                     </del>
7			Ħ		
FOR POOLS WITH VOLUME =15,000 GALS.					
PUMP: STARITE P6E6DL OR HAYWARD SUPERII					
<sup>3</sup> / <sub>4</sub> HP 42 GPM 60' TURN					
/4 III 12 GI I	WOO TOTAL				
TURNOVER RATE = $6 \text{ HOURS} = 360 \text{ MINS}.$			Ĭ.		
FILTER: STARITE PTM 50, 50 GPM OR					
HAYWARD C751, 75 GPM CAPACITY					
MAIN DRAIN: HAYWARD W61048E					
			H		
CLEANER: 1	HAYWARD VAC I	LOC	H	HHH	
				$\parallel \parallel \parallel \parallel$	
				$\Pi \parallel \Pi$	
MAINICHIC	TION PIPE SIZE	2"		[ ] [ ] [ ]	
IVIAIN SUC	HON FIFE SIZE _	<u></u>		$H \parallel H$	
		• ••		H II II	



### FLORIDA BUILDING CODE R4501

THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL CONSTRUCTION SHALL MEET ALL APPLICABLE CODES INCLUDING PLUMBING, ELECTRICAL AND GAS. PIPING SHALL BE SCH. 40 PVC, NSFpw, MAX. PRESSURE VELOCITY 10 FPS, SUCTION 6 FPS. THE POOL PLAN SHALL SHOW THE DESIGN PLUMBING AS PER THE SAMPLE WITH THE INFORMATION REQUIRED SHOWN. MAIN DRAIN PLUMBING SHALL BE TWO DRAINS SEPARATED BY 3' WITH APPROVED ANSI/ASME A112.19.8.2009 COVERS. AS AN ALTERNATE THE APPROVED DRAINS MAY BE PLACED ON DIFFERENT PLANES. THE TWO DRAINS SHALL HAVE A COMMON SUCTION LINE. SUCTION GRATES MAY BE USED IF APPROVED AT A MAXIMUM OF 1½ FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE SUCTION PIPE SIZE. SKIMMERS DO NOT REQUIRE PROTECTION AND

MUST BE DESIGNED FOR A MINIMUM 25 gpm. THE FOLLOWING SHALL BE LABELED WITH LABEL MARKER TAPE AT THE FILTER LOCATION: PIPES, VALVES, PUMP(S) OFF SWITCH.

### **ELECTRICAL REQUIREMENTS:**

-WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27, FLORIDA BUILDING CODE 7TH EDITION-RESIDENTIAL AND NEC 2017.

-NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER MIN. 10' FROM POOL, 8" ABOVE WATER, J BOX 4' FROM POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

**Review for Code Compliance** 

**Universal Engineering Science** Ludence Pernell

11/04/2023

SAMPLE ONLY. EACH APPLICATION FOR PERMIT SHALL

-HEATER SHALL MEET ANSI-Z21.56 OR UL 1261 OR UL 559.

-PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

MEET SECTONS 4501.17

POOLS & PERMANENT SPA ENERGY CONSUMPTION - THE ENERGY CONSUMPTION OF POOLS AND PERMANENT SPAS SHALL BE IN ACCORDANCE WITH SECTIONS R403.10.1

IT HAS BEEN CERTIFIED THAT THESE DESIGN REQUIREMENTS ARE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION, R4501, ANSI/APSP/ICC 3, ANSI/APSP/ICC 4, ANSI/APSP/ICC 5, AND ANSI/APSP/ICC 6 AND ANSI/APSP/ICC 7, ANSI/APSP/ICC 14, ANSI/APSP/ICC 15.

COMPLIES WITH FLORIDA BUILDING CODE, 7TH EDITION (2020)

### **SPECIAL SPA REQUIREMENTS:**

-MAXIMUM WATER DEPTH 4', MAXIMUM SEAT DEPTH 28", MAX.

-FLOOR SLOPE 1:12

-STEPS: MIN. TREAD 10" X 12", 7" MIN. RISER, 12" MAX. RISER EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS THE SEAT. INTERMEDIATE TREADS AND RISERS TO BE UNIFORM. IF THE SPA IS OPERATED INTERMITTENTLY IT SHALL HAVE A ONE HOUR TURNOVER, IF CONTINUOUS A SIX HOUR TURNOVER. -MAXIMUM TEMPERATURE 104 DEGREES -MEET ANSI/NSPI ARTICLE XVII, SAFETY

INSTRUCTION/SAFETY SIGNS. -PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER

#### GENERAL DESIGN REQUIREMENTS

-DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF APSP/ICC 3, APSP/ICC 4, APSP/ICC 5, AND APSP/ICC 6 AND APSP/ICC 7 BASED ON THE POOL TYPE.

-SEE NSPI FOR DIVING WATER ENVELOPES. -SLIDES SHALL MEET THE MANUFACTURE'S

INSTALLATION REQUIREMENTS -ALL POOLS WHETHER PUBLIC OR PRIVATE SHALL BE PROVIDED WITH A LADDER OR STEPS IN THE SHALLOW END WHERE THE WATER DEPTH EXCEEDS 24 INCHES (610 MM). IN PRIVATE POOLS WHERE WATER DEPTH EXCEEDS 5 FEET (1524 MM) THERE SHALL BE LADDERS, STAIRS OR UNDERWATER BENCHES/ SWIM-OUTS IN THE DEEP END. WHERE MANUFACTURED DIVING EQUIPMENT IS TO BE USED, BENCHES OR SWIM-OUTS SHALL BE RECESSED OR LOCATED IN A CORNER.

-CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSF 50.

-THE MAXIMUM TURNOVER RATE IS 12 HOURS. -FILTERS SHALL HAVE AN AIR RELEASE AND PRESSURE GAGE.

-PUMPS 3 HP AND LESS SHALL MEET ANSI/UL1081 CORROSION RESISTANT WITH STRAINER AND MEET THE REQUIRED FLOW.

-SURFACE SKIMMERS SHALL MEET NSF 50 AND THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET OF SURFACE AREA.

-APPROVED MANUFACUTRED INLET FITTNGS FOR THE RETURN OF RECIRCULATED POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 300 SQUARE FEET (28 m2) OF SURFACE AREA. SUCH INLET FITTINGS SHALL BE DESIGNED AND CONSTRUCTED TO INSURE AN ADEQUATE SEAL TO THE POOL STRUCTURE AND SHALL INCORPORATE A CONVENIENT MEANS OF SEALING FOR PRESSURE TESTING OF THE POOL CIRCULATION PIPING. WHEN MORE THAN ONE INLET IS REQUIRED, THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 10 FEET (3048 MM).

-DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF 50.

-RESIDENTIAL SWIMMING BARRIER REQUIREMENTS TO

-WASTE DISPOSAL TO COMPLY WITH SECTION 454.2.10

R403.10 (MANDATORY)

THROUGH R403.10.5.



Samuel A Liberatore 2023.10.05

12:50:37 -04\00'

dar