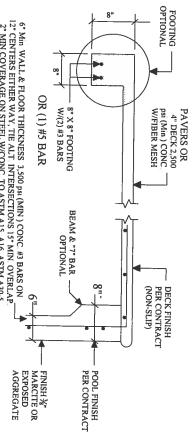
POOL/SPA, DECK, BEAM, WALL, FLOOR

RETURN SUCTION PIPE SIZE $1\frac{1}{2}$ " CLEANER/VAC PIPE SIZE 12" SKIMMER SUCTION PIPE SIZE 2" MAIN SUCTION PIPE SIZE 2"

Structural subject to suitable soil conditions.

6" Min WALL & FLOOR THICKNESS 3,500 psi (MIN) CONC #3 BARS ON 12" CENTERS EITHER WAY, TIE ALT INTERSECTIONS 15" MIN OVERLAP 2" MIN COVERAGE ON STEEL W/CONC TO ASTM A15 A16 ASTM A30-5



FILTER STARITE PTM 50, 50 GPM OR HAYWARD C751, 75 GPM CAPACITY TURNOVER RATE = 6 HOURS = 360 MINS

-(0 if

CLEANER: HAYWARD VAC LOC MAIN DRAIN HAYWARD W61048E FOR POOLS WITH VOLUME =15,000 GALS
PUMP· STARITE P6E6DL OR HAYWARD SUPERII
½ HP 42 GPM 60' TURN

~ ² ² ² ² ² ²

35 GPM 60 90 135 235

65 GPM 105 147 230 396

3,-0,,

MIN GRATE OPEN AREA = FLOW/17 8 FOR VELOCITY 6/SEC

PIPE SIZING CHART (MAXIMUN)

SUCTION

PRESSURE

MAIN DRAINS AS OF 12-19-08 ANSI/ASME A112 19 8-2007

Pool Volume: <u>500</u> sq. ft x <u>4</u> ave depth x 7.481 gal/cf = <u>11</u>.

Turnover Time in Hours: <u>6</u> hours x 60 min/hr = <u>360</u> minut.s

Flow Rate: <u>15.000</u> gallons / <u>360</u> minutes = <u>42</u> gpm

ave depth x 7.481 gal/cf = 15,000

gallons

-APPROVED
RETURN OF
PROVIDED C
SQUARE FEE
FITTINGS SH

FID MANUFACUTRED INLET FITTINGS FOR THE FID MANUFACUTRED INLET FITTINGS FOR THE OF RECIRCULATED POOL WATER SHALL BE ED ON THE BASIS OF AT LEAST ONE PER 300 FIET (28 m²) OF SURFACE AREA. SUCH INLET S SHALL BE DESIGNED AND CONSTRUCTED TO AN ADEQUATE SEAL TO THE POOL STRUCTURE ALL INCORPORATE A CONVENIENT MEANS OF THE POOL STRUCTURE OF THE DOOL.

AND SHALL

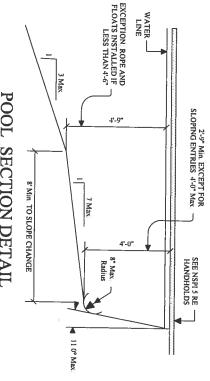
Minimum Flow Rate Required: 35gpm per skimmer (Required: 1 Skimmer per 800 sf)

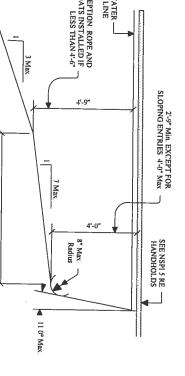
SAMPLE ONLY, EACH APPLICATION FOR PERMIT SHALL BE BASED ON A TOTAL DYNAMIC HEAD OF 60 ft.

Determine System Flow Rafe

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. 680.26(c) OF THE NATIONAL ELECTRICAL CODE. SB2836, 6-20-07

POOI	3 Max	CCEPTION. ROPE AND LOATS INSTALLED IF LESS THAN 4'-6"	WATER	
POOL SECTION DETAIL N.T.S.	7 Max 11 0° Max 8' Min TO SLOPE CHANGE	4°-0 8" Max. Radius		HANDHOLDS





- TYPICAL GR. FOR #3 REBAR, 2' OUT WITH #8 CU TO PUMP OPTIONAL DECK W/ RAIL OPTIONAL CIRCULATION-LINE SKIMMER REQUIRED FOR SPA WITH INDEPENDENT FILTRATION SYSTEM > MAIN DRAIN REQUIRE (TAMPER PROOF/SEE NOTES) > LIGHTING & BONDING SAME AS POOL

- OPTIONAL 12V LIGHT W/TRANS ½" BRASS OR PVC (SEE NOTES)

NO LIMITATIONS TO SHAPE EXCEPT FOR

DIVING

FLOW THRU SPA NO SKIMMER

100

SKIMMER

SWIM-OUT OR LADDER REQUIRED (GR/#8 CU) WHERE DEPTH OVER 5' DEEP (SEE NOTES)

ENTRY REQUIRED (SEE NOTES)

GENERAL POOL PLAN

N.T.S.

-WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 42, FLORIDA BUILDING CODE 6TH EDITION-RESIDENTIAL AND NEC 2014.

-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

UNDERWAT WHERE MAI USED, BENC LOCATED IN

TION SYSTEMS, COMPONENTS AND ENT SHALL COMPLY WITH NSF 50. IMUM TURNOVER RATE IS 12 HOURS.

P AND LESS SHALL MEET ANSI/UL 1081 ON RESISTANT WITH STRAINER AND MEET

RS SHALL MEET NSF 50 AND ONE FOR EVERY 800 SQUARE FEET

PROVIDED PROVIDED MAND WHERL MM). IN PRIFEET (1524 N

ALLATION REQUIREMENTS.

OOLS WHETHER PUBLIC OR PRIVATE SHALL BE DED WITH A LADDER OR STEPS IN THE SHALLOW HERE THE WATER DEPTH EXCEEDS 24 INCHES (610 PRIVATE POOLS WHERE WATER DEPTH EXCEEDS 5 524 MM) THERE SHALL BE LADDERS, STAIRS OR WATER BENCHES/ SWIM-OUTS IN THE DEEP END MANUFACTURED DIVING EQUIPMENT IS TO BE BENCHES OR SWIM-OUTS SHALL BE RECESSED OR

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:**

GENERAL SPA PLAN

> NO LIMITATIONS ON SHAPE

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 1 ½ FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE SUCTION PIPE SIZE. SKIMMERS DO NOT REQUIRE PROTECTION AND

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

-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.

FLORIDA BUILDING CODE R4501

SPECIAL SPA REQUIREMENTS:

RESIDENCE



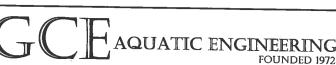
FLORIDA BUI ANSI/APSP/IC ANSI/APSP/IC ANSI/APSP/IC CC 4, ANSI/APSP/ICC 5, AND ANSI/APSP/ICC 6 AND CC 7, ANSI/APSP/ICC 14, ANSI/APSP/ICC 15.

HEATER SHALL MEET ANSI-Z21.56 OR UL 1261 OR UL 559.
-DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF 50.

-PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.
-RESIDENTIAL SWIMMING BARRIER REQUIREMENTS TO MEET SECTIONS 454.2.17

IT HAS BEEN CERTIFIED THAT THESE DESIGN
REQUIREMENTS ARE IN COMPLIANCE WITH THE
FLORIDA BUILDING CODE R4501, 6TH EDITON 454.2-2017, WASTE DISPOSAL TO COMPLY WITH SECTION 454.2.10

For: HYDRO FUN POOLS, LLC



-DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF APSPICC 3, APSPICC 4, APSI AND APSPICC 6 AND APSPICC 7 BASED ON THE POOL TYPE.

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

EMENTS OF APSP/ICC 3, APSP/ICC 4, APSP/ICC 5, ICC 6 AND APSP/ICC 7 BASED ON THE 'PE.

(727)-442-8443

SAMUEL A. LIBERATORE, P.E. #55740 RICHARD M. TOMMELL, P E #61859

Standard Residential Pool and/or Spa Design

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).
-HEATER SHALL MEET ANSI-ZZI.56 OR UL 1261 OR

CERTIFICATE OF AUTHORIZATION 27934 300 ALTERNATE 19 NORTH, SUITE A PALM HARBOR, FLORIDA 34683 gb_collins@verizon.net

GENERAL DESIGN REQUIREMENTS