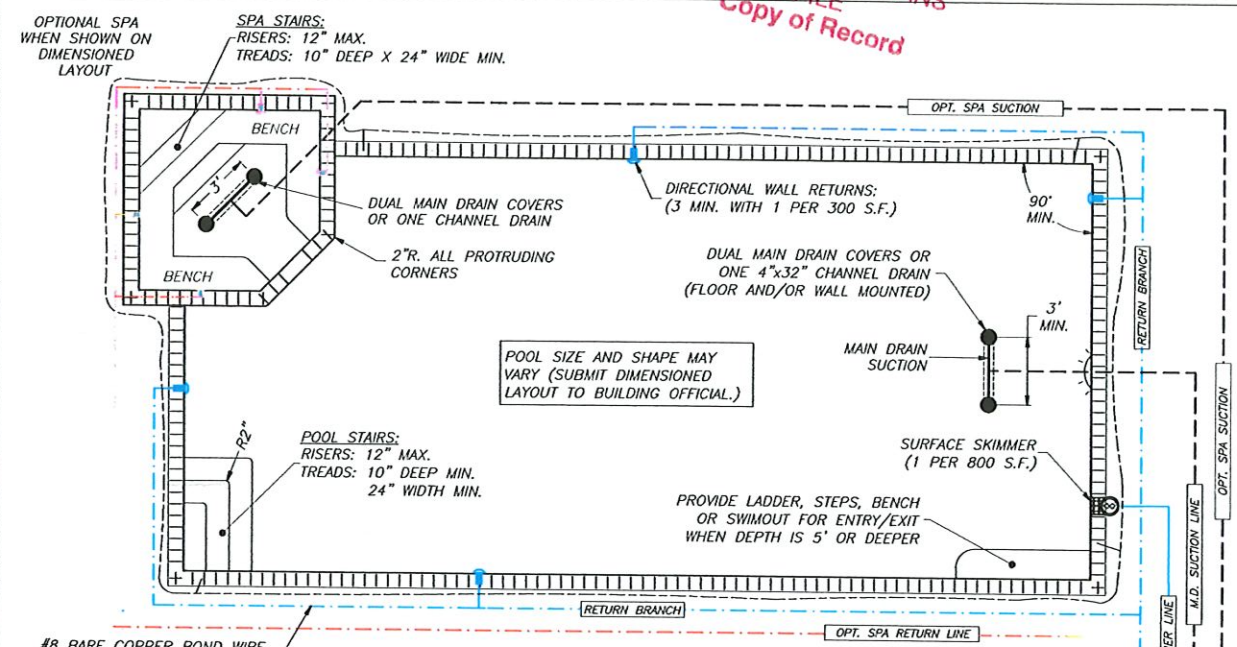
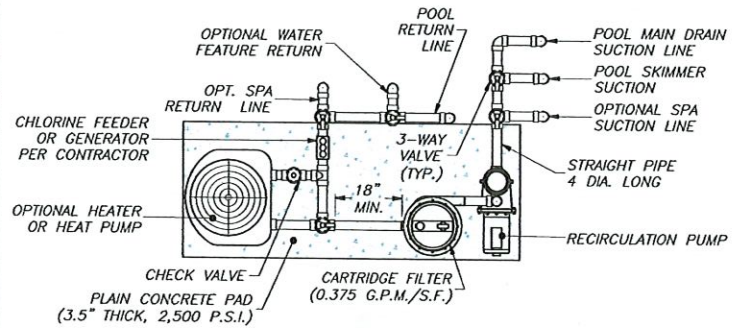


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#8 BARE COPPER BOND WIRE  
4"-6" BELOW FINISHED GRADE  
WITHIN 18"-24" OF POOL WATER

POOL & OPTIONAL SPA PLAN  
(N.T.S.)



SINGLE PUMP EQUIPMENT SCHEMATIC  
(N.T.S.)

TYPICAL PLAN NOTE:  
THESE STANDARD PLANS & DETAILS INDICATE TYPICAL BUILDING CODE REQUIREMENTS FOR FLORIDA PRIVATE SWIMMING POOLS. POOL BUILDER TO PROVIDE SITE SPECIFIC POOL PLAN FOR POOL LAYOUT AND DEPTHS.

NOTES:

1. THESE PLANS ARE APPLICABLE TO RESIDENTIAL SWIMMING POOLS OF LESS THAN 108,000 GALLONS AND 148 G.P.M. PUMP RATE.
2. DESIGN CRITERIA: FLORIDA BUILDING CODE, 7<sup>TH</sup> EDITION (2020), SECTION 454.2 PRIVATE SWIMMING POOLS, ANSI/APSP-3, ANSI/APSP-5, ANSI/APSP-7, & ANSI/APSP/ICC-15.
3. SAFETY BARRIERS FOR THE POOL SHALL BE PROVIDED IN ACCORDANCE WITH F.B.C. SECTION 454.2.17 INCLUDING WINDOW AND DOOR ALARMS IF APPLICABLE.
4. ALL SUCTION OUTLET FITTING ASSEMBLIES (DRAIN COVERS, FRAMES AND FASTENERS) ARE TO COMPLY WITH ANSI/APSP/ICC-16 (2017) AND ARE TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
5. ALL SUCTION OUTLET FITTING ASSEMBLIES MUST INCLUDE THE MANUFACTURER'S SUMP OR FIELD-BUILT SUMP WITH INTERIOR DIMENSIONS PER THE MANUFACTURER'S INSTRUCTIONS.
6. CONSTRUCT POOL ON COMPACTED OR UNDISTURBED SOIL WITH A 1,500 P.S.F. MINIMUM BEARING CAPACITY. CONTACT THE ENGINEER SHOULD ANY MARL, MUCK, CLAYEY, ORGANIC OR UNSUITABLE MATERIAL BE ENCOUNTERED IN THE POOL EXCAVATION FOR SOIL CORRECTION RECOMMENDATIONS.
7. THE LOCAL GROUND WATER TABLE SHALL BE MAINTAINED BELOW THE POOL STRUCTURE DURING CONSTRUCTION AND ANY TIME THE POOL WATER IS EMPTY FOR MAINTENANCE.
8. POOL PIPING SHALL BE SCH. 40 PVC, STAMPED NSF-PW APPROVED. ALL PIPING, VALVES, EQUIPMENT AND MATERIALS USED SHALL CONFORM TO THE F.B.C., PLUMBING.
9. CHLORINATING AND/OR DISINFECTANT EQUIPMENT SHALL COMPLY WITH THE LATEST ANSINFS-50.
10. PUMPS SHALL BE 3 H.P. OR LESS AND COMPLY WITH ANSI/UL 1081. PUMPS EQUAL TO OR EXCEEDING 1 H.P. SHALL BE TWO SPEED MINIMUM WITH THE RECIRCULATION RATE MET A LOW SPEED OF AT LEAST 1/2 THAT OF THE MAXIMUM PUMP SPEED.
11. ANY POOL LIGHTING, ALL ELECTRICAL WORK AND BONDING OF POOL, EQUIPMENT, HANDRAILS AND LIGHTS TO THE POOL REINFORCING STEEL SHALL COMPLY WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE AND N.F.P.A. 70 ARTICLE 680 NATIONAL ELECTRIC CODE.
12. HEAT PUMPS SHALL COMPLY WITH THE LATEST UL 559. ELECTRIC HEATERS SHALL COMPLY WITH UL 1261. ANY GAS PIPING SHALL COMPLY WITH F.B.C., FUEL GAS. GAS HEATERS SHALL COMPLY WITH LATEST ANSI-Z21.69.
13. ONE MEANS OF EXIT FROM THE SHALLOW AND DEEP END CONSISTING OF A LADDER, BENCH, UNDERWATER SEAT OR SWIM-OUT SHALL BE PROVIDED FOR WATER DEPTH 5' OR GREATER. PROVIDE TWO MEANS OF EXIT FOR POOLS WIDER THAN 36'.
14. UNDERWATER SEATS, BENCHES, AND SWIM-OUTS SHALL BE A MAXIMUM OF 20" BELOW THE WATERLINE.
15. THIS POOL DOES NOT PROVIDE A MINIMUM DIVING WATER ENVELOPE. NO DIVING OR DIVING EQUIPMENT IS ALLOWED.
16. POOL PLUMBING PIPE SIZES SHALL BE PROVIDED AS LISTED BELOW BASED ON CONTRACTORS' OR ENGINEER'S CALCULATED MAXIMUM PUMP FLOW RATE PER BELOW.

PIPE SIZE CHART: (FOR F.B.C. ALLOWABLE VELOCITIES)

PUMP RATE	RETURN (10'/SEC.)	SUCTION (8'/SEC.)
0 - 51	1 1/2"	1 1/2"
52 - 62	1 1/2"	2"
63 - 84	2"	2"
85 - 104	2"	2 1/2"
105 - 119	2 1/2"	2 1/2"
120 - 148	2 1/2"	3"

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STANDARD DETAILS  
TYPICAL FLORIDA PRIVATE SWIMMING POOL

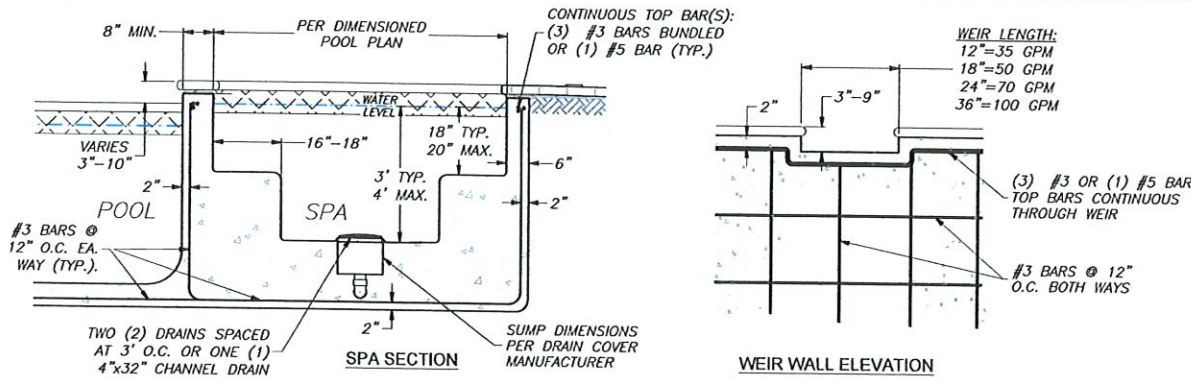
Prepared For: REEF POOLS  
(941) 718-5881 (CPC 1459397)

CREST ENGINEERING  
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3402 Magic Oak Lane, Sarasota, Florida 34232  
Phone: (941) 377-8811  
Email: info@crestfl.com

Florida Engineering Firm No. 28100

Date	5-05-2022
Project No.	S0704
Michael L. Shannon	Digitally signed by Michael L. Shannon Date: 2022.05.05 11:09:43 -0400
Michael L. Shannon, P.E.	Fla. License # 67896
Sheet:	SP-1 of 2



**OPTIONAL SPA DETAILS**  
(N.T.S.)

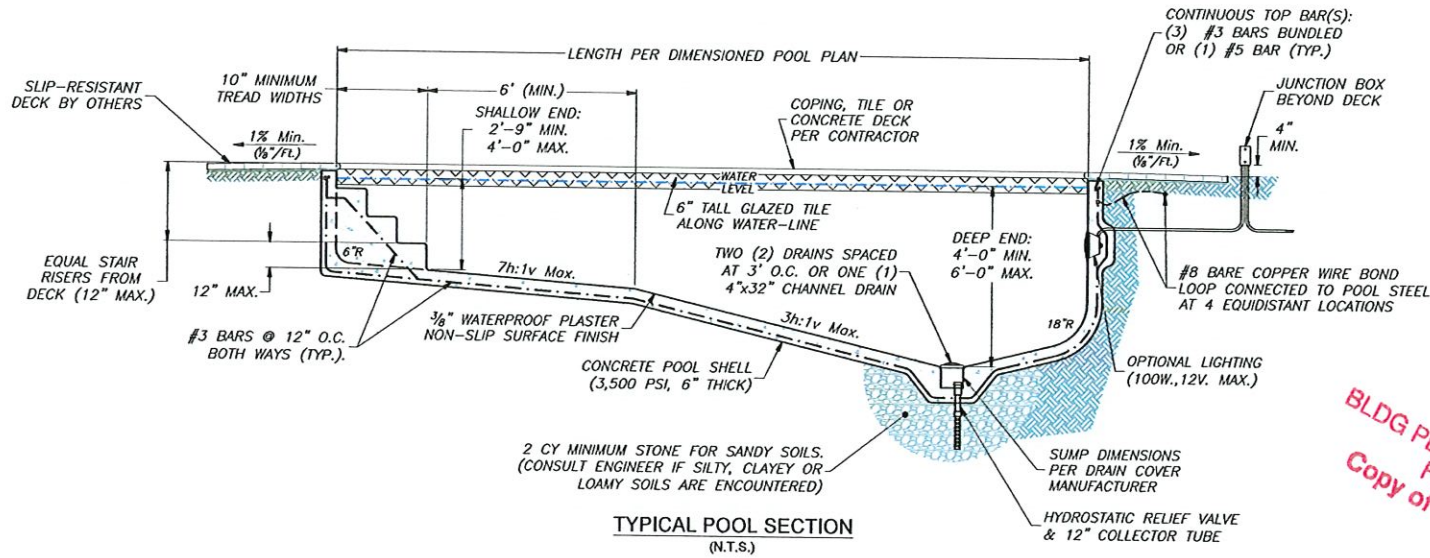
**SPA NOTES:**

1. SPA CONSTRUCTION SHALL CONTAIN NO PROTRUSIONS, EXTENSIONS, MEANS OF ENTANGLEMENT OR OTHER OBSTRUCTION WHICH CAN CAUSE ENTRAPMENT OR INJURY OF USER.
2. MAXIMUM WATER DEPTH SHALL BE 4'-0" BELOW WATER LEVEL.
3. MAXIMUM SEAT DEPTH SHALL BE 28" BELOW WATER LEVEL.
4. STEPS TO HAVE UNIFORM RISER HEIGHTS, 10" MIN. TREAD AND HAVE 240 SQ. IN. SURFACE AREA.
5. MAXIMUM FLOOR SLOPE SHALL BE 1V:12H.
6. POTABLE WATER HOSE BIB W/ VACUUM BREAKER TO BE LOCATED ON THE POOL/SPA DECK.
7. WEIR FLOW RATES ARE BASED ON 1" HEAD ON WEIR.

**POOL (& SPA) STRUCTURAL NOTES:**

1. CONCRETE MATERIAL TO HAVE 3,500 PSI MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) AT 28 DAYS.
2. REINFORCING STEEL TO BE GRADE 40 DEFORMED BARS WITH 2" MINIMUM COVER. SPLICE #3 BARS 16" & #5 BARS 26" MIN.

DESIGN LOADS:	
Lateral Soil	60 psf/ft per ft. depth
Conc. Weight	150 lbs/cf



**TYPICAL POOL SECTION**  
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**TYPICAL PLAN NOTE:**  
THESE STANDARD PLANS & DETAILS INDICATE TYPICAL BUILDING CODE REQUIREMENTS FOR FLORIDA PRIVATE SWIMMING POOLS. POOL BUILDER TO PROVIDE SITE SPECIFIC POOL PLAN FOR POOL LAYOUT AND DEPTHS.

**STANDARD POOL SECTION (6' MAX. DEPTH)**  
**TYPICAL FLORIDA PRIVATE SWIMMING POOL**

Prepared For: REEF POOLS  
(941) 718-5881 (CPC 1459397)

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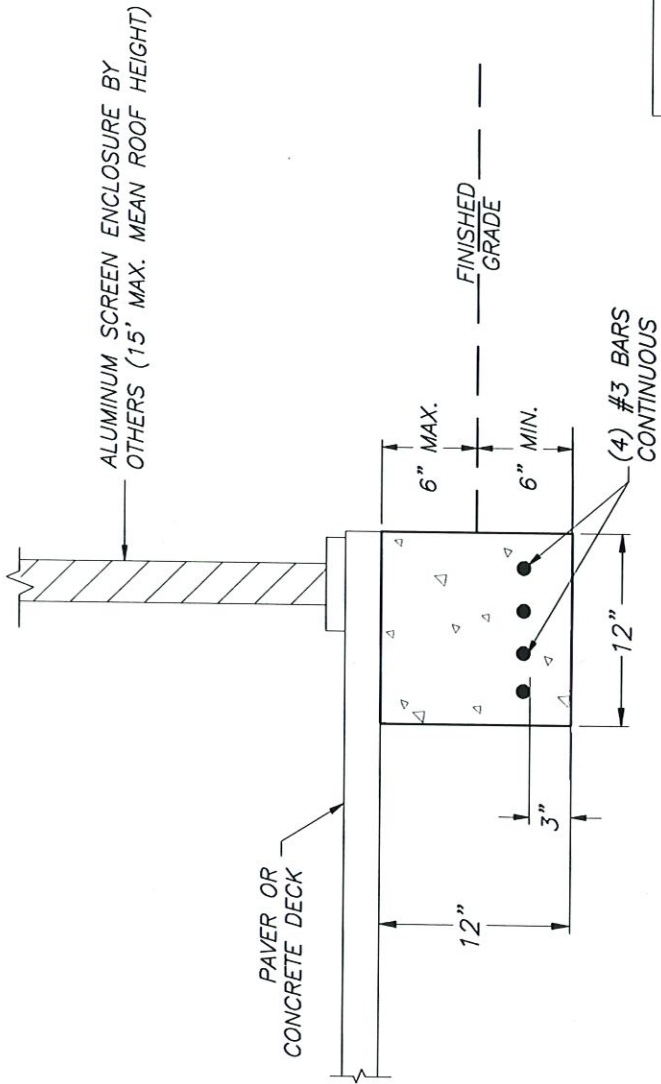
Florida Engineering Firm No. 28100

Date	5-05-2022
Project No.	S0704
Michael L. Shannon, P.E.	Fla. License # 67896
Sheet:	SP-2 of 2

**NOTES:**

1. FOOTING CONCRETE TO MEET 3,500 P.S.I. (FC) MIN. COMPRESSIVE STRENGTH AT 28 DAYS.
2. ALL REINFORCING BARS TO BE GRADE 40 STEEL DEFORMED BARS W/ 3" MIN. COVER. CONTINUOUS #3 BARS TO BE LAP SPICED 16" MINIMUM.
3. CONSTRUCT OVER UNIFORMLY COMPACTED SUB-GRADE W/ 2,000 LB./SF BEARING CAPACITY.
4. APPLICABLE CODE: FLORIDA BUILDING CODE, 7<sup>TH</sup> EDITION (2020).

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**FOOTING SECTION**  
(1" = 1')

WIND LOAD DATA:	
V <sub>ULT</sub>	145 mph
V <sub>ASD</sub>	112 mph
Risk	I
Exposure	D
Pressure	61.3 psf

DESIGN LOADS:	
Live Load	40 psf
Lateral Soil	60 ps/ft per ft. depth
Conc. Weight	150 lbs/cf

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**STANDARD POOL DECK CONCRETE FOOTING DETAIL**

For The Exclusive Use of:  
**REEF POOLS**  
(941) 718-5881 (CPC 1459397)

Project No.: S0704 Date: 6 / 24 / 2021 Sheet 1 of 1



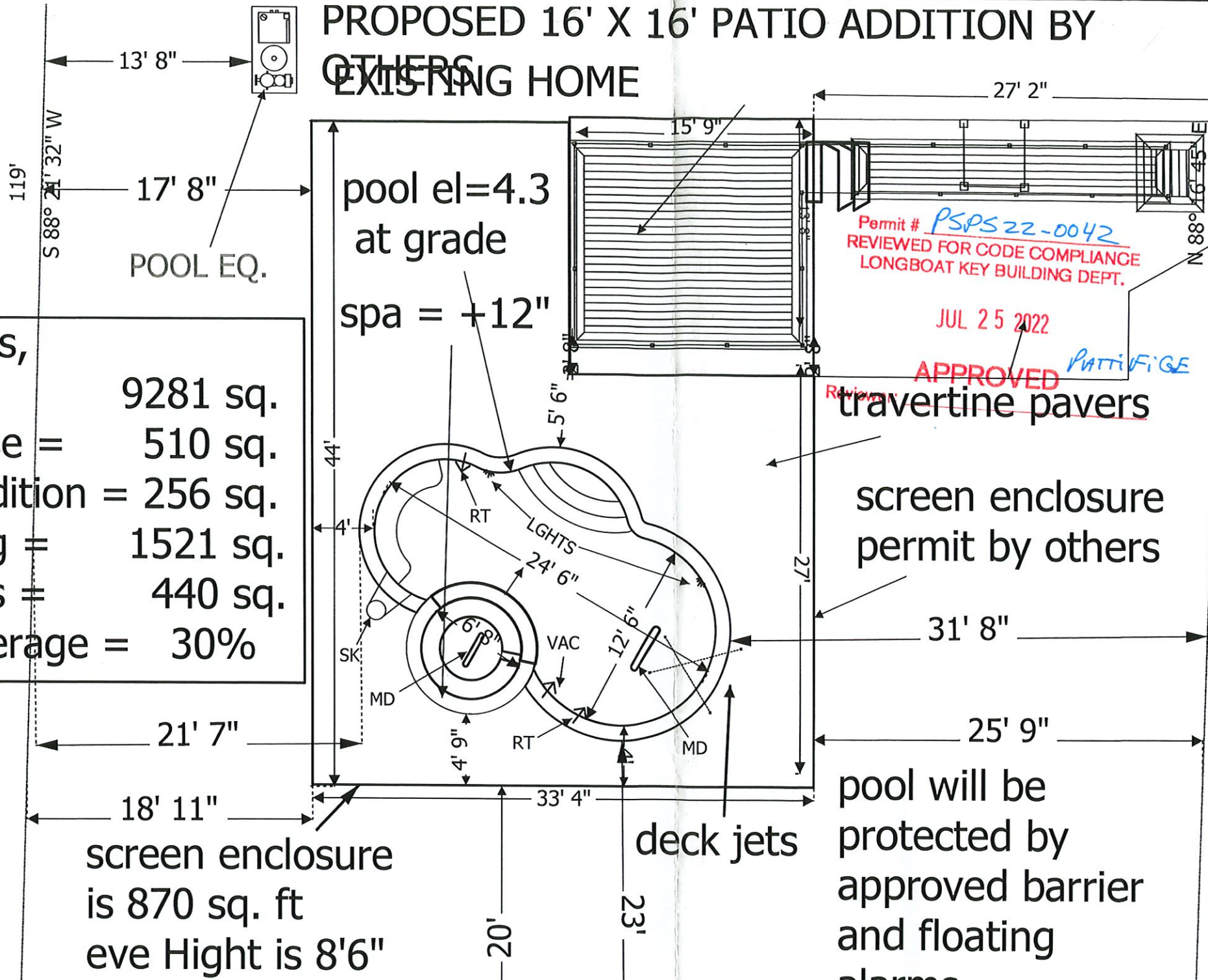
**REEF POOLS**  
custom pool & spa design | build

lot calculations,  
 Lot size = 9281 sq.  
 Existing house = 510 sq.  
 Proposed addition = 256 sq.  
 Pool, Decking = 1521 sq.  
 Drive n walks = 440 sq.  
 Total lot coverage = 30%

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**PROPOSED 16' X 16' PATIO ADDITION BY OTHERS**  
**EXISTING HOME**



Perimeter: 66'  
 Envelope: 12'6"  
 Depth: 3'6" to 4'  
 Drains: 1 Aqua  
 Skim: 1 concrete  
 Dig Type dig ar  
 Spillover Length  
 Interior Finish:  
 Coping Material  
 Notes: \_\_\_\_\_

Perimeter: 21'  
 Jets: 6  
 Lights: 1  
 Drains: 1 Aqua  
 Coping Material  
 Interior Finish:

Raised Beams

Perimeter: 345'  
 Decking Material  
 NOTES: \_\_\_\_\_

Eq

Circ. Pump: pe  
 Pump #2: \_\_\_\_\_  
 Pump #3: \_\_\_\_\_  
 Filter: CNC 20  
 Heater: 400,00  
 Cleaner: NA  
 NOTES: \_\_\_\_\_

