

SPECIFICATIONS			
POOL SIZE:		POOL DEPTH:	
POOL PERIMETER:		VOLUME: (GALLONS)	
		TURNOVER RATE:	HRS
		POOL AREA SQ. FT.	
POOL & SPA POOL EQUIPMENT			
POOL PUMP:	N/A	SPA SIZE:	N/A
POOL FILTER:	N/A SF CARTRIDGE	SPA POOL S.F./L.F./GAL	N/A
POOL INLETS:	3	SPA JETS:	N/A
SKIMMER:	1	SPA RETURNS:	N/A
POOL LIGHT:	2 - LED NICHELESS COLOR	SPA LIGHT:	N/A
POOL HEATER TYPE:	N/A	RAISED SPA:	N/A
POOL HEATER SIZE:	N/A	SPA COPING:	N/A
CLEANING LINE:	VAC	SPA EXTERIOR:	N/A
CHLORINATOR:	SALT CHLORINATOR	SPA SPILLWAY SIZE:	N/A
FEATURE PUMP:	N/A	BLOWER:	N/A
AUTOMATED SYSTEM:	N/A	SPA BOOSTER PUMP:	N/A
ACTUATORS:	N/A		
POOL FINISH ITEMS			
COPING:	BULLNOSE BRICK	INTERIOR FINISH:	N/A
TILE:	6" X 6"	DECK S.F.:	N/A
SWIMOUT:	N/A	DECK TYPE:	PAVER
CAP TILE	N/A	TOP EXISTING	N/A
HANDHOLDS:	N/A	FOOTERS:	N/A
HANDRAIL:	N/A	DOD:	N/A
UMBRELLA SLEEVE:	N/A	PILING POOL:	N/A
SPECIAL NOTES			
6" RAISED BEAM:	N/A	ELECTRIC:	YES
12" RAISED BEAM:	N/A	OVERFLOW LINE:	N/A
18" RAISED BEAM:	N/A	ALARMS:	N/A
24" RAISED BEAM:	N/A	FENCE:	N/A
36" RAISED BEAM:	N/A	SCREEN ENCLOSURE:	N/A
RAISED BEAM FINISH	N/A	BABY FENCE:	N/A
BEAM FINISH SIDES	N/A		
BEAM FINISH REAR	N/A		
WATER FEATURES			
DECK JETS:	N/A	SHEER DESCENT:	N/A
BUBBLERS:	N/A	LYONS HEADS:	N/A
AUTO FILL:	N/A	WATERFALL/ ROCK	N/A
THERAPY JETS:	N/A	WATER/FIRE BOWLS:	N/A

CLEANING LINE WITH VAC'LOC FITTING SHALL BE LOCATED NO GREATER THAN 12" BELOW WATER LEVEL APSP 7 SEC 4.6

NOTE:
POOL CONTRACTOR TO VERIFY ALL PROPERTY LINE LOCATIONS AND POOL ELEVATION PRIOR TO CONSTRUCTION.
POOL LAYOUT AND DIMENSIONS TO BE VERIFIED W/ OWNER PRIOR TO CONSTRUCTION
OPC-ADF INVESMENTS 509 RYE LANE
v1.2023.07.23 FINAL.vsd
PAGE 1 OF 6

DRAFTED BY: G.S.M. SCALE: 1/8" = 1'



A Custom Pool Designed Especially For:

ADF INVESTMENTS LLC
509 RYE LANE
DELRAY BEACH, FL

DESIGNER JULIO BATISTA

WAYNE MARKHAM BENNETT P.E. #57216
MARKHAM SERVICES, INC. (CA 33018)
1820 NE JENSEN BEACH BLVD #685
JENSEN BEACH, FL 34957-7212
(954) 818-3825 / wayne@wmb-pe.com

7/23/2023

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ERNEST W. DUNCAN P.S.M. 5182

- SYMBOL**
- OH — OVERHEAD LINE (OH)
 - - - CHAIN LINK FENCE (C.L.F)
 - //— WOOD FENCE (W.F)
 - |— PLASTIC FENCE (P.F)
 - METAL FENCE (M.F)
 - x— WIRE FENCE (W.F)
 - x 0.00' EXISTING ELEVATION

521 SE 5TH COURT
POMPANO BEACH, FL. 33060

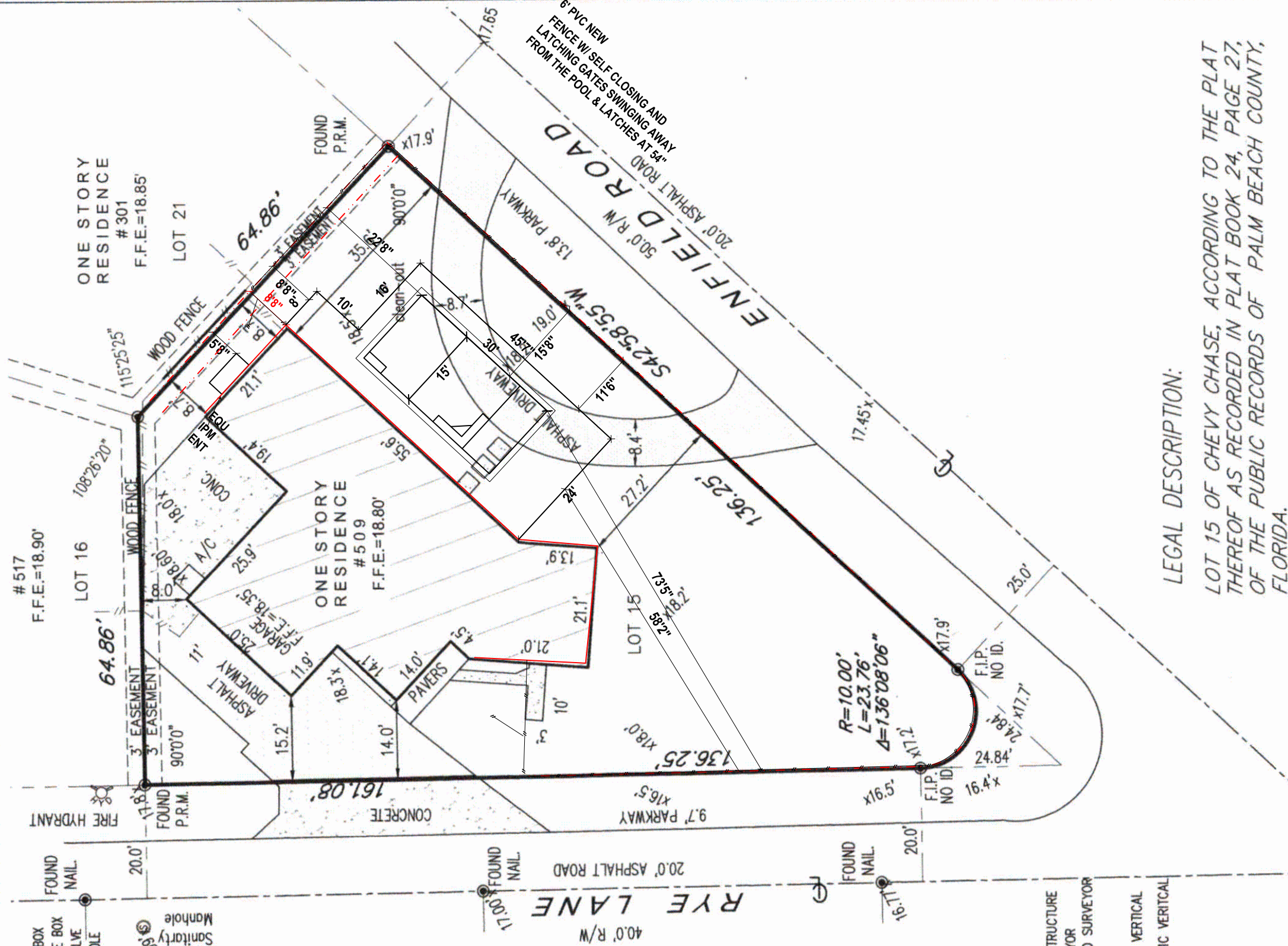
BOUNDARY SURVEY

PHONE: (754) 264-2166
FAX: (954) 827-0535

JOB NO.
10-185-21

PROPERTY ADDRESS:
509 RYE LANE
DELRAY BEACH, FLORIDA 33444

Scale: 1" = 20'



LEGAL DESCRIPTION:

LOT 15 OF CHEVY CHASE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 24, PAGE 27, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

- P.E. DENOTES POOL EQUIPMENT
F.I.R. DENOTES FOUND IRON ROD
NO ID. DENOTES NO IDENTIFICATION
CONC. DENOTES CONCRETE
U.E. DENOTES UTILITY EASEMENT
R/W DENOTES RIGHT OF WAY
C.B.S. DENOTES CONCRETE BLOCK STRUCTURE
LS DENOTES LICENSED LAND SURVEYOR
P.S.M. DENOTES PROFESSIONAL LAND SURVEYOR
N/A DENOTES NOT APPLICABLE
A/C DENOTES AIR CONDITIONER
NAVD88 DENOTES NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD29 DENOTES NATIONAL GEODETIC VERTICAL DATUM OF 1929
O.E. DENOTES OVERHANG EASEMENT

FLOOD ZONE: X
BASE FLOOD ELEV.= N/A
FEMA MAP # 12099C 0977 F
DATE OF FIRM: 10/05/2017

SURVEYORS NOTES:

1. ANGLES SHOWN HEREON ARE REFERENCED TO THE RECORD PLAT AND ARE AS MEASURED.
2. BENCHMARK REFERENCE: PALM BEACH COUNTY BENCHMARK "DAUDELL" ELEVATION=15.194 NAVD88. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.
3. MINIMUM LINEAR ACCURACY OBTAINED: 1 FOOT IN 7,500 FEET AS REQUIRED FOR A SUBURBAN SURVEY
4. A COMMITMENT FOR TITLE INSURANCE, #1062-4807436, PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, WITH AND EFFECTIVE DATE OF JUNE 4TH, 2020 WAS REVIEWED ALL SURVEY RELATED SCHEDULE BII TITLE EXCEPTIONS HAVE BEEN PLOTTED.
5. NO ATTEMPT WAS MADE TO LOCATE ANY UNDERGROUND IMPROVEMENTS, OVERHEAD UTILITIES, (POWERLINES, ETC) FOUNDATIONS OR WETLANDS.
6. EASEMENTS SHOWN HEREON ARE PER THE PLAT.
7. SURVEYOR HAS MADE NO ADDITIONAL RESEARCH OF THE PUBLIC RECORDS. THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN HEREON THAT MAY BE FOUND IN THE PUBLIC RECORDS

CERTIFIED TO:
XX

Ernest W. Duncan

DATE OF SURVEY 10/20/2021

ERNEST W. DUNCAN, P.S.M. STATE OF FLORIDA
PROFESSIONAL SURVEYOR AND MAPPER No. LS 5182
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL
RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

RESIDENTIAL POOL NOTES:

GOVERNING CODES and GENERAL NOTES:

2020 Florida Building Code (FBC), 7th Edition and all other codes, rules, regulations, and restrictions having jurisdiction on the project shall govern including FBC 7th Edition Building, Residential, Fuel Gas and Energy Conservation

FBC 7th Edition Energy Conservation C404.2, Service Water Heating Equipment Performance Efficiency: Gas Pool Heaters 82%, Heat Pump 4.0 COP, shall be met for this project

FBC 7th Edition Residential Chapter 45: Swimming Pools and Building Chapter 4, Section 454 Swimming Pools and Bathing Places (Public and Private) shall specifically govern

FBC 7th Edition R4501.6.1 Conformance Standard: Design, construction and workmanship shall be in conformity with the requirements of ANSI/APSP/ICC 3; ANSI/APSP/ICC 4; ANSI/APSP/ICC 5; ANSI/APSP/ICC 6; ANSI/APSP/ICC 7

FBC 7th Edition Building Chapter 4, Section 454.1.6.5.10.4 If the area is subject to high ground water, the pool shall be designed to withstand hydraulic uplift or shall be provided with hydrostatic relief devices. FBC 7th Edition Section 454.2.21.4 and R4501.21.4 Hydrostatic Relief Device. In areas of anticipated water table an approved hydrostatic relief device shall be installed

FBC 7th Edition R4501.6.3 Water Velocity. Pool piping is designed so the water velocity will not exceed 10 feet per second for pressure piping and 8 feet per second for suction piping. Main suction outlet velocity must comply with ANSI/APSP/ICC 7. Exception: Jet inlet fittings shall not be deemed subject to this requirement

Concrete shall conform to the latest edition of ACI 301 and ACI 318, with minimum 28-day compressive strength of 4,000 psi. Pool concrete can be applied pneumatically and shall conform to the latest edition of ACI 506.2

Reinforcing Steel shall conform to the latest edition of ASTM A615, Grade 40 (#3, #4), Grade 60 (#5) and have a minimum lap distance of 18" for #3, 24" for #4 and 30" for #5 to meet the requirements of the latest edition of ACI 318. Discontinuous reinforcement bars shall terminate in standard ACI hooks. All hooks are standard unless otherwise noted

FBC 7th Edition Building 1903.3 Glass Fiber Reinforced Concrete GFRC and the materials used in such concrete shall be in accordance with the PCI MNL 128 Standard, if shown on the drawings

Pool Piping shall be N.S.F approved and minimum Schedule 40

NDPES: A silt fence and any other item, such as a construction entrance, with tire wash station shall be installed and inspected, if required, prior to construction surrounding the work area meeting the requirements of the AHJ

OSHA 1926: Safety and Health Regulations for Construction shall be followed especially during open excavation and trenching

Contractor shall be responsible to secure and protect all material brought on site, shall restore all areas impacted by the construction work to the preexisting condition or better and shall not impact drainage/lake, right of way or any other easements without consent

Existing conditions, dimensions and quantities shall be field verified by Contractor prior to construction, as the Engineer has not been to the location. Typical field conditions are assumed in the design. Should anything differ from that specified herein or standard field conditions, additional engineering may be required and the Engineer shall be contacted to provide direction. Care shall be taken by Contractor in all applications of these drawings. The equipment and piping physical location may differ in the field due to unforeseen conditions or other factors. These drawings shall not be scaled, written dimensions shall take precedence. Contractor shall be responsible to locate and install items in a location that meets local codes

These drawings are the property of Wayne Markham Bennett, P.E. Use of these drawings without permission from the Engineer is prohibited. The Engineer does not review the drawings for compliance with the agreement between Contractor and Homeowner. The Engineer is not responsible for any encroachment into easements or setbacks, even if approved by the AHJ. The Contractor shall verify compliance with setbacks and easements. The Engineer reviews the plans for code compliance to the best of his knowledge. Use of these drawings by the Contractor and Homeowner indemnifies and holds harmless the Engineer for all costs and damages including legal fees resulting from material fabrication, system erection and construction practices beyond which is called for Local, State and Federal Codes and from deviations of these plans except as expressly provided herein. The Engineer is not responsible for and has no liability for construction in setbacks or easements, and Contractor and/or Homeowner requirements and/or agreements related to the Pool and/or Spa. Regardless of cause, the Engineer's Liability in relation to these plans is limited to the lesser of \$500 or the fee charged by the Engineer for these plans.

WARNING: To empty pool of water after construction for any reason, the hydrostatic uplift pressures beneath the pool must be eliminated to prevent the pool from floating upward. Owner must consult a pool contractor experienced in eliminating uplift pressure

POOL EQUIPMENT and ANCHORING:

Pool Equipment Elevation shall be at a minimum of the Design Flood Elevation (FBC 7th Edition Residential R322.1.4) plus 1 foot or according to the Authority Having Jurisdiction

FBC 7th Edition Building 1620 HVHZ Wind Loads and 1621 HVHZ Overturning Moment and Uplift Pool Equipment shall be designed, constructed and installed to meet the requirements of ASCE 7. Equipment tie down shall be as follows, Heaters 4 total (1 per side or 2 per opposite sides); Others 2 total: 3-1/2" minimum thick, 3000 psi concrete slab, 3" larger than on each side than the equipment; ¼" diameter Tapcon® Concrete Screws (1600# tension, 1290# shear, 1-1/2" embedment in 2000 psi concrete) or equal with stainless steel fender washer into factory provided hold downs or 1" wide, 14 gauge galvanized straps with 2 stainless steel, #10 x ¾" Pan Head Phillips SS screws each strap into metal frame of equipment

FBC 7th Edition Building 1907.1 General The thickness of concrete equipment slab supported directly on the ground shall not be less than 3-1/2 inches thick and shall not require a vapor barrier.

Equipment Location and Screening: The equipment and piping physical location may differ in the field due to unforeseen conditions or other factors. Contractor shall be responsible to locate and install items in a location that meets local zoning code and to provide code compliant landscape or fence screening

SWIMMING BARRIER REQUIREMENTS:

FBC 7th Edition Residential R4501.17 Residential Swimming Barrier Requirement Residential swimming pools shall comply with Sections R4501.17.1 through R4501.17.3. Exception: A swimming pool with an approved safety pool cover complying with ASTM F1346

FBC 7th Edition Residential R4501.17.1 Outdoor Swimming Pools Outdoor swimming pools shall be provided with a barrier complying with R4501.17.1.1 through R4501.17.1.14

A Swimming Barrier around the pool area that meets the above code is required prior to final pool structural inspection and filling of the pool


FLOOD ZONE:

FBC 7th Edition Residential R322 Flood-Resistant Construction structures constructed in whole or part in flood hazard areas shall be designed and constructed in accordance with the provisions of this section, especially R322.1.2 Structural Systems, 322.1.3 Flood-Resistant Construction and R322.2.5 Pools in Flood Hazard Areas. If structures constructed in whole or part in floodways shall be designed and constructed in accordance with ASCE 24 and the construction of this pool will not increase the design flood elevation

SOIL BEARING and FOUNDATION NOTES:

No Piles and without Soil Report:

FBC 7th Edition Building 1803 Geotechnical Investigations: The Building Official shall be permitted to waive the requirement. Allowable Bearing Capacity: Based on rational analysis through knowledge of other projects in the vicinity and a visual examination of the surface soil, finding sand and rock, the pool foundation has been designed assuming 2,000 psf soil bearing capacity per Table R401.4.1. If during excavation deleterious material (such as silt, peat, muck, clay, etc.) is found that cannot provide 2,000 psf, the Engineer shall be contacted to provide direction



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ADF INVESTMENTS LLC
509 RYE LANE
DELRAY BEACH, FL

DESIGNER JULIO BATISTA


NOTES

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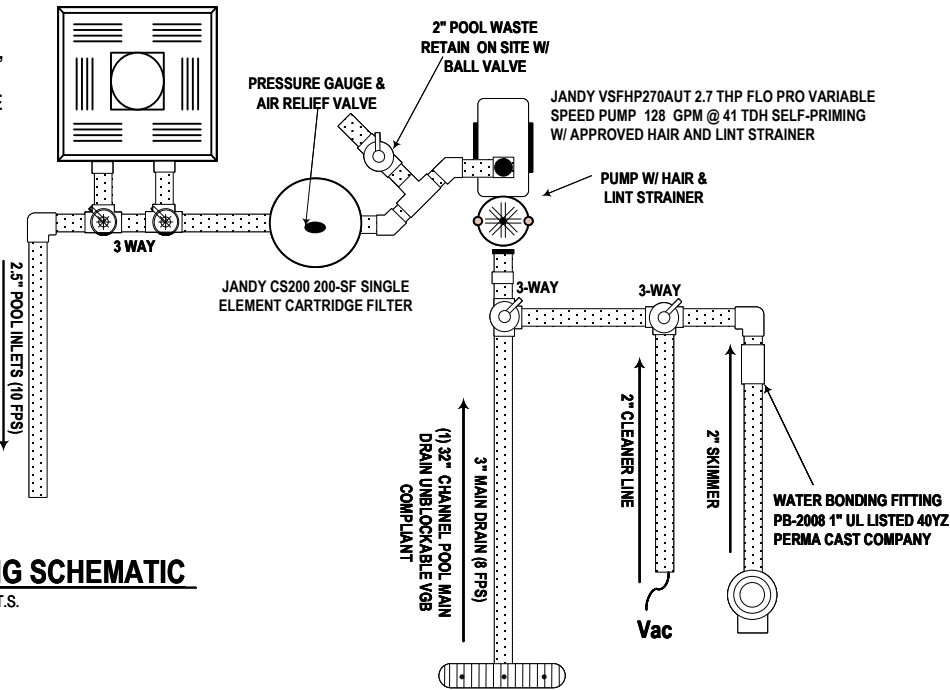
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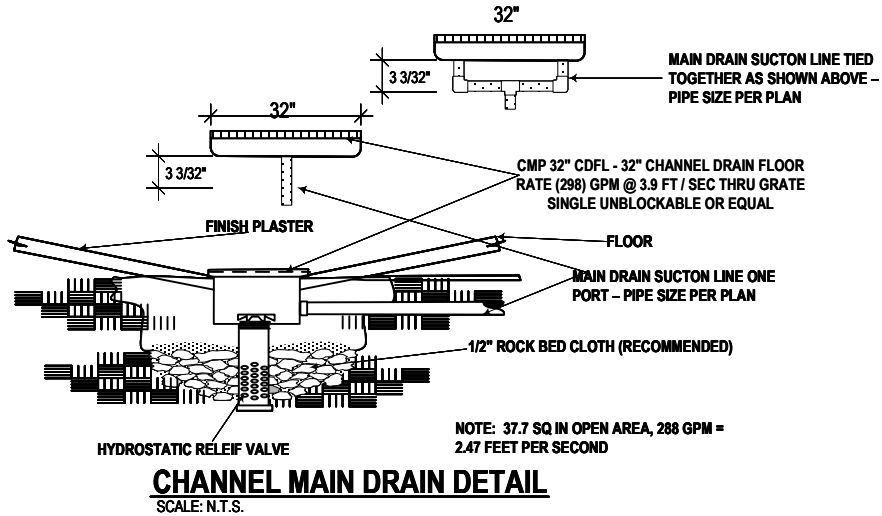
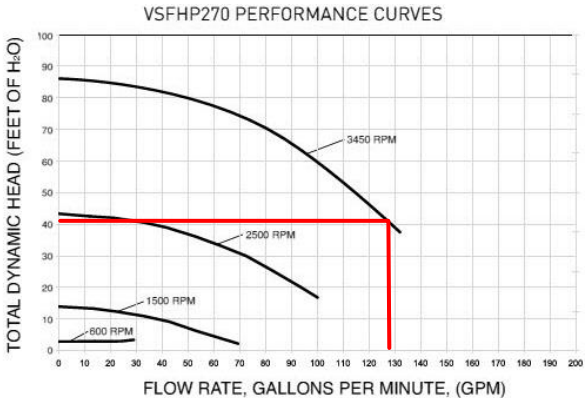
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AQUA COMFORT 135,000 BTU,
6.0 COP HEATER/ CHILLER,
230V/60HZ, 30-70 GPM SINGLE
PHASE, TITANIUM, DIGITAL,
POOL AND SPA HEAT PUMP



PIPING SCHEMATIC
SCALE: N.T.S.



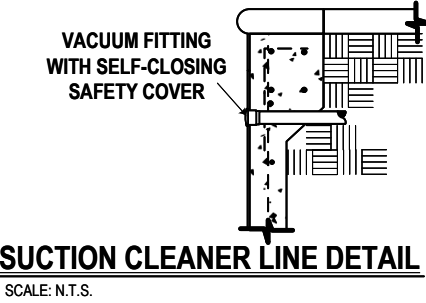
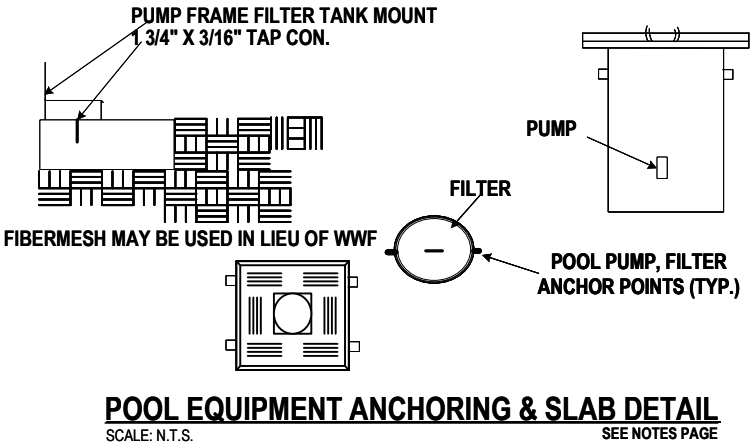
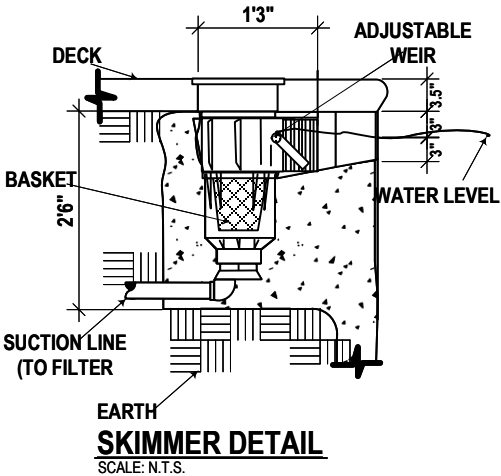
ALL POOL & SPA SUCTION INLETS SHALL BE PROVIDED WITH A COVER THAT HAS BEEN TESTED & ACCEPTED BY A RECOGNIZED TESTING FACILITY & COMPLY WITH ANSVASME A 112-19.8M. * SUCTION FITTINGS FOR USE IN SWIMMING POOLS, SPAS, HOT TUBS & WHIRLPOOL BATHTUB APPLIANCES

TDH CALCS:

- PIPING SUCTION: 7 TDH
- PIPING PRESSURE: 6 TDH
- FITTINGS: 5 TDH
- FILTER: 8 TDH
- CHLORINATOR: 5 TDH
- HEATER: 10 TDH
- TOTAL: 41 TDH

APSP/ANSI-15 (NOTE: THESE REQUIREMENTS APPLY ONLY TO THE FILTRATION PUMP)
FLOW CALCULATIONS PER STANDARD: POOL WATER VOLUME 11,456 /360= 36 GPM CALCULATED FLOW RATE. NOTE POOLS UNDER 13,000 GALLONS, THE CALCULATED FLOW RATE OR 36 GPM WHICHEVER IS GREATER = THE FILTRATION FLOW RATE
IS THERE AND AUXILIARY LOAD ON THE FILTRATION PUMP? NO IF SO, WHAT IS THE CALCULATION AUXILIARY FLOW RATE: NO GPM
MINIMUM FLOW RATE NO GPM (GREATER OF THE FILTRATION FLOW RATE OR THE AUX FLOW RATE IF THE AUX FLOW RATE IS POWERED BY THE FILTRATION PUMP)
ALL LISTED BELOW PIPING IS FOR FILTRATION PUMP ONLY MIN. SUCTION SIDE FILTRATION PIPE SIZE @ 8 FPS = 3" MIN. SUCTION SIDE BRANCH PIPE @ 6 FPS= N/A MIN. RETURN SIDE FILTRATION PIPE SIZE @ 10 FPS = 2.5" (NOTE: PIPE SIZING REQUIREMENTS APPLY ONLY TO FILTRATION PIPING: THIS DOES NOT APPLY TO AUXILIARY LOAD PIPING
FILTER TYPE AND SIZE: 200 SF CARTRIDGE FILTER MINIMUM FILTER AREA PER FILTER FACTOR IN STANDARD 200 X .375 = 75 GPM (MAXIMUM FLOW THROUGH FILTER FACTOR: FILTER AREA X .375 (CART), X 2 (DE) OR X 1.5 (SAND)
HEATER MAKE AND MODEL#: 135,000 BTU AQUA COMFORT ACT 1750 HEATER / CHILLER GAS HEATER EFFICIENCY RATING:N/A (NO PILOT LIGHT) HEAT PUMP EFFICIENCY C.O.P.: 6
PUMP SELECTION AS LISTED ON CURVEA (A= < THAN 17,000 GAL OR C= > THAN 17,001 GAL) PUMP MAKE AND MODEL#: JANDY FLO PRO 2.7 HP VSFHP270 FLOW RATE 24 GPM 600 RPM (FLOW RATE MUST BE < OR = MAX FILTER FLOW RATE)
PUMP CONTROLS= FILTRATION PUMP HAS NO AUX LOAD- STANDARD TIME CLOCK FILTRATION PUMP WITH AUXILIARY LOAD- CONTROL MODEL FOR LOW SPEED DEFAULT WITH 24HR
BACKWASH VALVE: YES (IF YES, MUST BE 2" MINIMUM)

APSP/ANSI-7
SUCTION OUTLET SAFETY COMPLIANCE DATA
THIS DATA IS FOR THE: POOL
ARE THERE DRAINS: YES (if "NO" go to TRUNK & RETURN Pipe Size)
SINGLE UNBLOCKABLE? YES TWO OR MORE DRAINS: NO (if Single Unblockable, indicate Make, Model & flow Rating THEN go to Trunk & Return Pipe Size)
DRAIN MAKE AND MODEL#: CMP 32" CHANNEL DRAIN FLOOR
LISTED COVER FLOW RATE: 298 GPM
SYSTEM FLOW RATE: 128 GPM
METHOD DETERMINING SYSTEM FLOW RATE: X MAX FLOW FROM PUMP CURVE TOTAL DYNAMIC HEAD CALCULATION SIMPLIFIED TOTAL DYNAMIC HEAD CALCULATION
PUMP SELECTION
MAKE: JANDY MODEL#: FLO PRO 2.7 HP VSP
BRANCH PIPING SIZE: N/A INCH @ 6 FPS OR LOWER TRUNK PIPING SIZE: 3" INCH @ 8 FPS OR LOWER RETURN PIPING SIZE: 2.5" INCH @ 10 FPS OR LOWER



DRAFTED BY: G.S.M.

DESIGNER

JULIO BATISTA

P-1

A Custom Pool Designed Especially For:

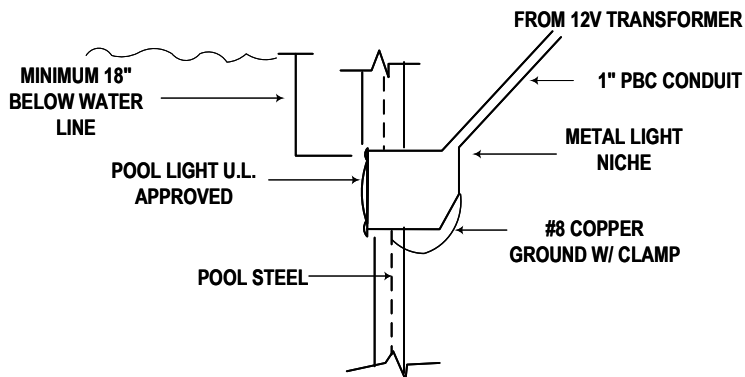
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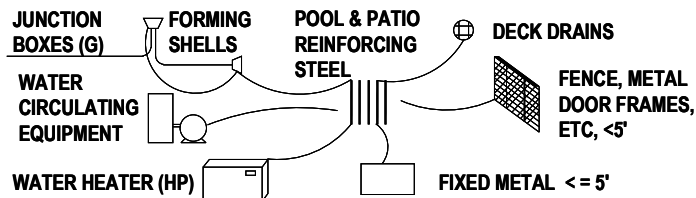


LIGHT NICHE DETAIL
SCALE: N.T.S.

COMMON BONDING GRID PERMITTED TO BE:

- STRUCTURAL REINFORCING STEEL RODS THAT ARE BONDED TOGETHER
- SOLID COPPER CONDUCTOR NO. 8 OR LARGER

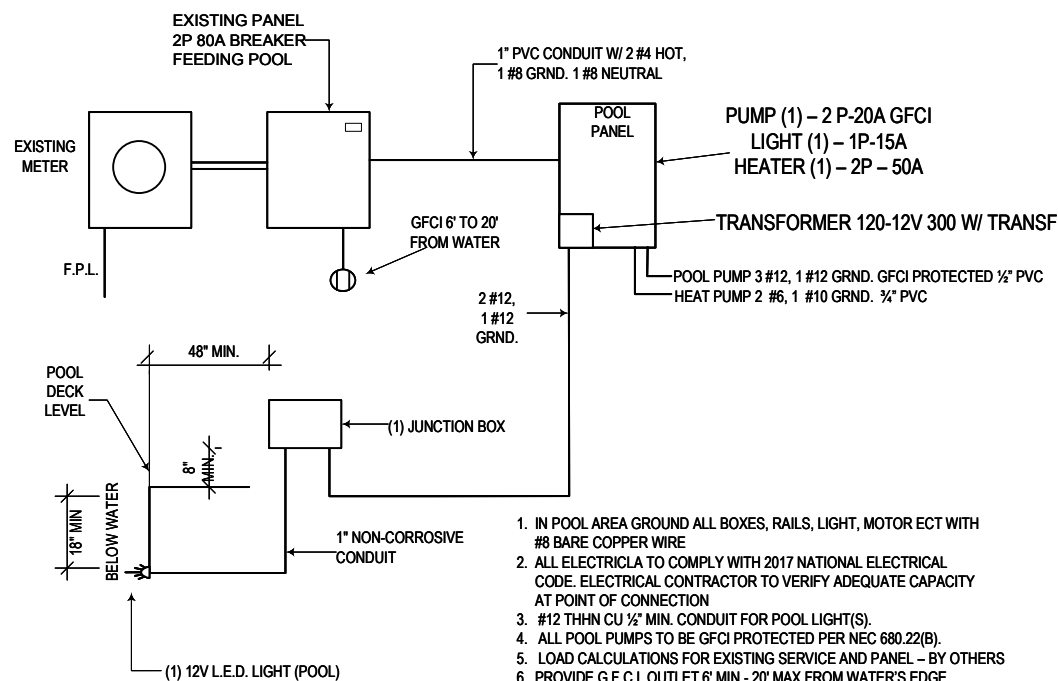
AS PER NEC.680.26 (B)(I) EQUIPOTENTIAL BONDING- CAST-IN-PLAGE CONCRETE, PNEUMATICALLY APPLIED OR SPRAYED CONCRETE, AND CONGRETE BLOCK WITH PAINTED OR PLASTERED COATINGS SHALL ALL BE CONSIDERED CONDUCTIVE MATERIALS DUE TO WATER PERMEABILITY AND POROSITY.



COMMON BONDING DETAIL
SCALE: N.T.S.

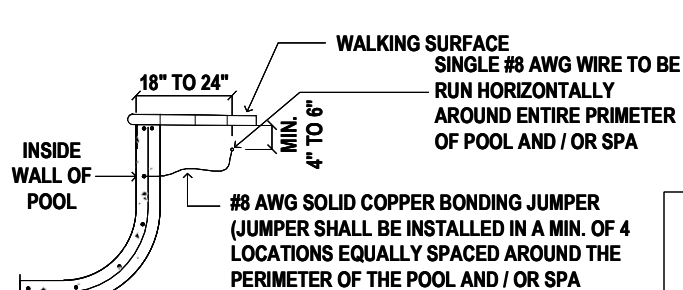
ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE EXISTING SERVICE AND PANEL HAS ENOUGH CAPACITY TO ACCOMMODATE THE ADDED POOL EQUIPMENT LOAD PER NEC 220.82"

NOTE: BASED ON INFORMATION PROVIDED TO THIS OFFICE, THE EXISTING SERVICE IS ADEQUATE FOR THE PROPOSED ADDITIONAL POOL EQUIPMENT LOAD



1. IN POOL AREA GROUND ALL BOXES, RAILS, LIGHT, MOTOR ECT WITH #8 BARE COPPER WIRE
2. ALL ELECTRICLA TO COMPLY WITH 2017 NATIONAL ELECTRICAL CODE. ELECTRICAL CONTRACTOR TO VERIFY ADEQUATE CAPACITY AT POINT OF CONNECTION
3. #12 THHN CU 1/2 MIN. CONDUIT FOR POOL LIGHT(S).
4. ALL POOL PUMPS TO BE GFCI PROTECTED PER NEC 680.22(B).
5. LOAD CALCULATIONS FOR EXISTING SERVICE AND PANEL - BY OTHERS
6. PROVIDE G.F.C.I. OUTLET 6' MIN - 20' MAX FROM WATER'S EDGE.

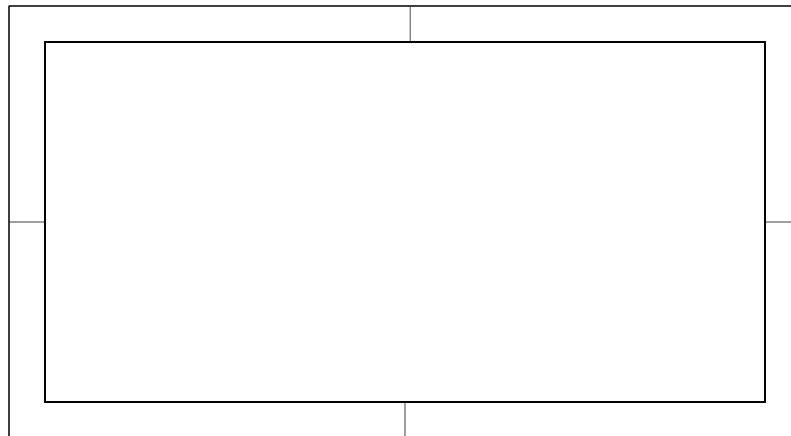
ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.



NOTE: PERIMETER SURFACES AND EQUIPOTENTIAL BONDING GRID (SINGLE #8 AWG WIRE) INGLUES UNPAVED SURFACES AS WELL AS POURED CONCRETE AND OTHER TYPES OF PAVERS

EQUIPOTENTIAL BONDING DETAIL
SCALE: N.T.S.

NOTE: ALL METAL LOCATED WITHIN 5' OF POOL WATER SHALL BE BONDED, IF REBAR IS 18"24" IN HORIZONTAL LENGTH THE PERIMETER BONDING WIRE MAY BE CONNECTED DIRECTLY TO REBAR I/O JUMPER



ELECTRICAL CODE and NOTES:

National Electrical Code (NEC), NFPA 70 - 2017 shall specifically govern, including **Article 680 Swimming Pools, Fountains, and Similar Installations**

Article 430.32 Continuous-Duty Motors. Each motor used in continues duty application shall be protected against overload

Article 680.6 Grounding. Electrical equipment shall be grounded in accordance with Parts V, VI and VII of Article 250 and connected by wiring methods of Chapter 3, except as modified by this Article. The following equipment shall be grounded: (1) Through-wall lighting assemblies and underwater luminaires, other than those low-voltage lighting products listed for the application without a grounding conductor (2) All electrical equipment located within 1.5 m (5 ft) of the inside wall of the specified body of water (3) All electrical equipment associated with the recirculating system of the specified body of water (4) Junction boxes (5) Transformer and power supply enclosures (6) Ground-fault circuit interrupters (7) Panelboards that are not part of the service equipment and that supply any electrical equipment associated with the body of water

Article 680.9 Overhead Conductor Clearances. Overhead conductors shall meet the clearance requirements in this section. Where a minimum clearance from the water level is given, the measurement shall be taken from the maximum water level of the specified body of water. (A) Power. With respect to service-drop conductors, overhead service conductors, and open overhead wiring, swimming pool and similar installations shall comply with the minimum clearances given in Table 680.9(A) and illustrated in Figure 680.9(A). (B) Communications Systems. Communications, radio, and television coaxial cables within the scope of Articles 800 to 820 shall be permitted at a height of not less than 3.0 m (10 ft) above swimming and wading pools, diving structures, and observation stands, towers, or platforms. (C) Network-Powered Broadband Communications Systems. The minimum clearances for overhead network-powered broadband communications systems conductors from pools or fountains shall comply with the provisions in Table 680.9(A) for conductors operating at 0 to 750 volts to ground.

Article 680.10 Electric Pool Water Heaters. All electric pool water heaters shall have the heating elements subdivided into loads not exceeding 48 amperes and protected at not over 60 amperes. The ampacity of the branch-circuit conductors and the rating or setting of overcurrent protective devices shall not be less than 125 percent of the total nameplate-rated load.

Article 680.11 Underground Wiring Location. Underground wiring shall be permitted where installed in rigid metal conduit, intermediate metal conduit, rigid polyvinyl chloride conduit, reinforced thermosetting resin conduit, or Type MC cable, suitable for the conditions subject to that location. Underground wiring shall not be permitted under the pool unless this wiring is necessary to supply pool equipment permitted by this article. Minimum cover depths shall be as given in Table 300.5.

Article 680.22 Lighting, Receptacles, and Equipment. (A) Receptacles. (1) Required Receptacle, Location. Where a permanently installed pool is installed, no fewer than one 125-volt, 15- or 20-ampere receptacle on a general-purpose branch circuit shall be located not less than 1.83 m (6 ft) from, and not more than 6.0 m (20 ft) from, the inside wall of the pool. This receptacle shall be located not more than 2.0 m (6 ft 6 in.) above the floor, platform, or grade level serving the pool. (2) Circulation and Sanitation System, Location. Receptacles that provide power for water-pump motors or for other loads directly related to the circulation and sanitation system shall be located at least 1.83 m (6 ft) from the inside walls of the pool. These receptacles shall have GFCI protection and be of the grounding type. (3) Other Receptacles, Location. Other receptacles shall be not less than 1.83 m (6 ft) from the inside walls of a pool. (4) GFCI Protection. All 15- and 20-ampere, single-phase, 125-volt receptacles located within 6.0 m (20 ft) of the inside walls of a pool shall be protected by a ground-fault circuit interrupter.



OPC-ADF INVESMENTS 509 RYE LANE
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A Custom Pool Designed Especially For:

ADF INVESTMENTS LLC
509 RYE LANE
DELRAY BEACH, FL

DESIGNER

JULIO BATISTA

E-1

WAYNE MARKHAM BENNETT P.E. #57216
MARKHAM SERVICES, INC. (CA 33018)
1820 NE JENSEN BEACH BLVD #685
JENSEN BEACH, FL 34957-7212
(954) 818-3825 / wayne@wmib-pe.com

7/23/2023

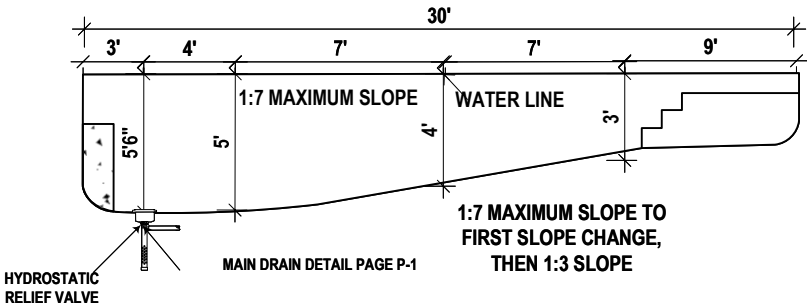
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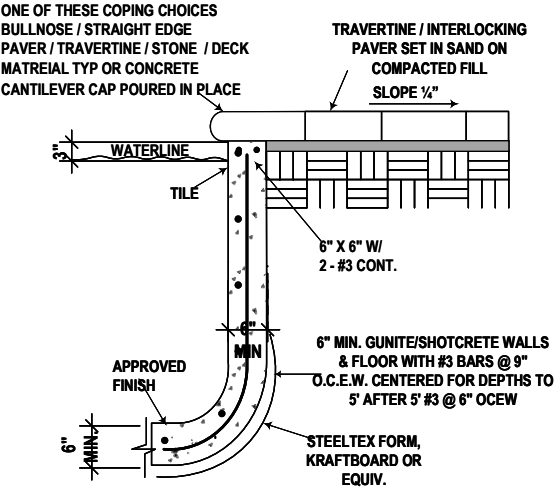


Pervious/Impervious Calculations:				
* LOT SQ FT:	10,315	SQ FT		
* EXISTING HOME GROUND FLOOR	2,871	SQ FT		
* EXISTING DRIVEWAY SQ FT:	1,230	SQ FT		
* EXISTING WALK WAY / A/C PAD(S) SQ FT:	133	SQ FT		
* TOTAL EXISTING LOT COVERAGE SQ FT:	4,234	SQ FT		
* ADDITION OF POOL:	450	SQ FT		
* ADDITION OF POOL PATIO & EQ PAD:	745	SQ FT		
* 25% NEW IMPERVIOUS MAY ONLY BE MAX OF 2,579 SQ FT				
* NEW TOTAL IMPERVIOUS @1,195 SF IS 11.58% NEW IMPERVIOUS				
* TOTAL IMPERVIOUS AFTER POOL INSTALLATION:	5,429	SQ FT	52.6	% IMPERVIOUS
* TOTAL PERVIOUS AFTER POOL INSTALLATION:	5,643	SQ FT	47.4	% PERVIOUS

IMPORTANT NOTE:
NO DIVING BOARD AND NO DIVING IS ALLOWED ON ANY POOL LESS THAN 8'0" DEEP
AND SPECIFICALLY DESIGNED FOR DIVING. THIS POOL IS NOT DESIGNED FOR DIVING.

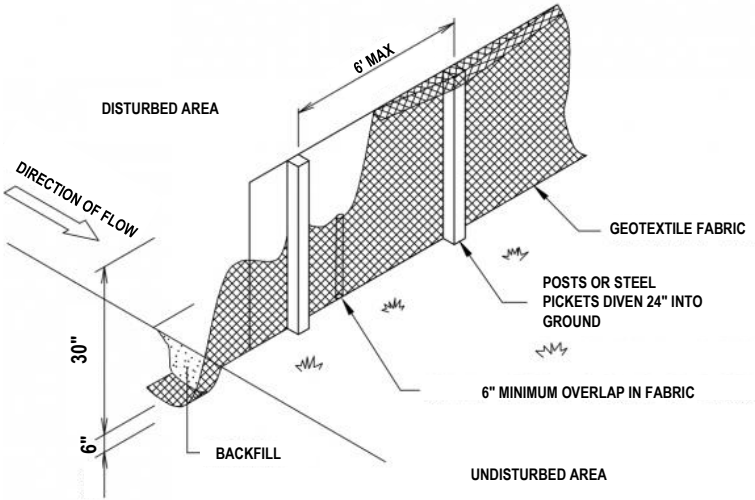


LONGITUDINAL POOL SECTION
SCALE: N.T.S.

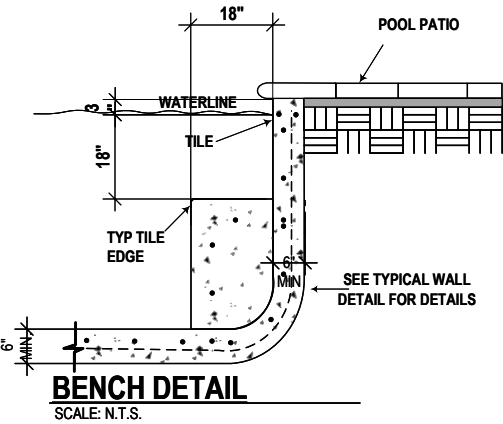


TYPICAL WALL DETAIL
SCALE: N.T.S.

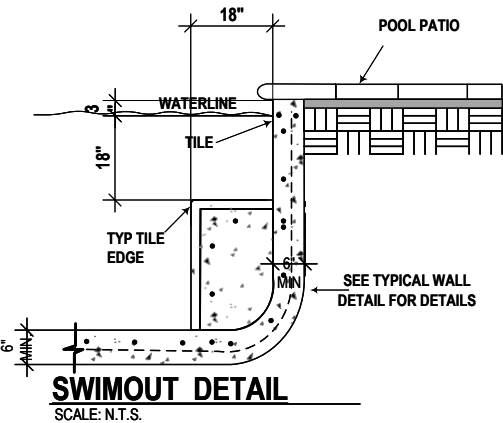
** CONTRACTOR TO SECURE AND PROTECT ALL MATERIAL BROUGHT ON SITE
** CONTRACTOR TO RESTORE ALL AREAS IMPACTED BY PROPOSED WORK TO EXISTING CONDITION OR BETTER
** CONTRACTOR SHALL NOT IMPACT DRAINAGE/LAKE MAINTENANCE EASEMENT IN ANY WAY



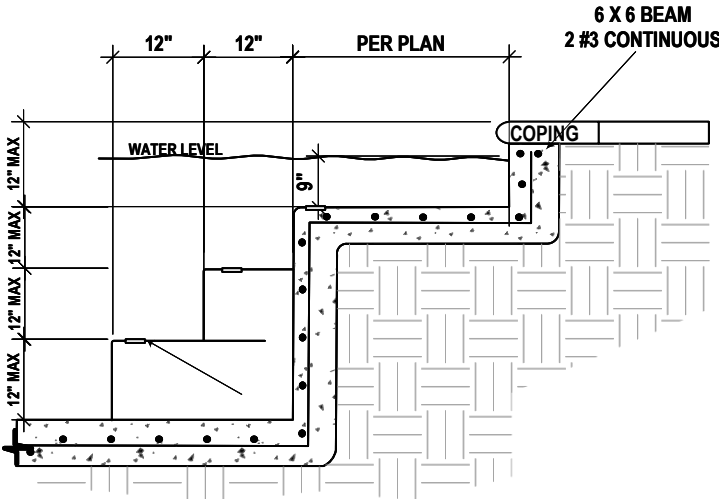
SILT FENCE DETAIL
N.T.S.



BENCH DETAIL
SCALE: N.T.S.



SWIMOUT DETAIL
SCALE: N.T.S.



STEPS TO HAVE A 10" MINIMUM TREAD AND A 12" MAXIMUM RISER
STEP DETAIL
SCALE: N.T.S.



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