



NORTH

SCALE:  
1/8" = 1'

NO COPING TO EXCEED  
ELEVATION OF HOUSE

SPECIFICATIONS

POOL SIZE:	14' x 30'	POOL DEPTH:	3'-6" x 5'
PERIMETER:	88'	VOLUME (GALLONS):	11900
TURNOVER RATE:	5.6 HRS±	SURFACE AREA SQ. FT.:	420

POOL EQUIPMENT

POOL PUMP #1 TYPE:	JANDY	NICHELESS LIGHT:	1
POOL PUMP #1 SIZE:	3/4 HP	LED POOL LIGHT:	1
POOL FILTER #1 TYPE:	150 SQ.FT.	SALT GENERATOR:	YES
SKIMMER:	1	SUCTION LINE W/VAC LOCK:	YES
WALL INLETS:	3		

FINISH ITEMS

COPING:	DECK MATERIAL	DECK TYPE:	PAVER
TILE:	STANDARD	DECK SQ. FT.	350±
INTERIOR FINISH:	STANDARD	SUNSHELF:	YES
		BENCH:	YES

SPECIAL NOTES

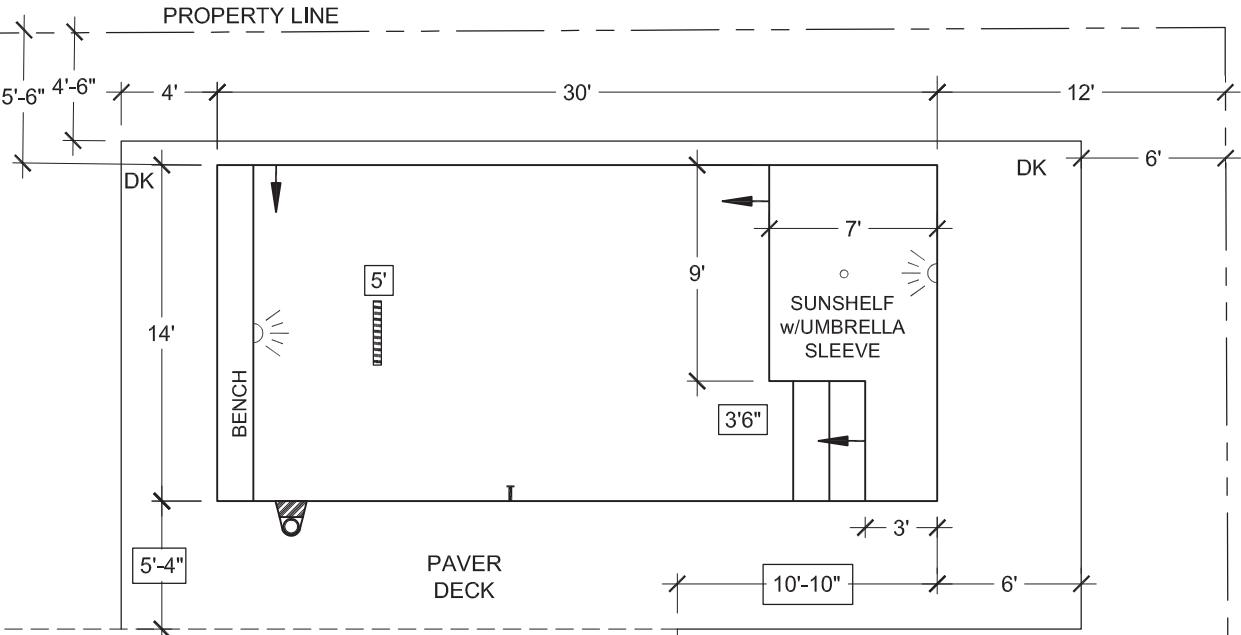
PILING POOL:	NO	POOL ENCLOSURE:	FENCE
ELECTRIC:	BY OTHERS		

EXTRA FEATURES

UMBRELLA SLEEVE:	(1) ON SUNSHELF
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EQUIP & PAD  
(SEE EQUIPMENT PAD  
NOTES ON SHEET 4)  
(EXACT LOCATION  
TO BE VERIFIED)

POOL EQUIP. & PAD  
LANDSCAPE PER CODE  
(MIN. 24" HIGH AND 2' ON  
CENTER AT TIME OF  
PLANTING), WILL BE  
MAINTAINED AT 6" ABOVE  
POOL EQUIPMENT



RESIDENCE

LEGEND

- LIGHT
- UMBRELLA SLV
- CHANNEL DRAIN
- SKIMMER
- VACUUM LINE
- WALL INLET

REVISIONS

Digitally signed by  
Wayne Markham  
Bennett  
Date: 2021.05.18  
'09:53:38 -04'00



SIGNED ON 05/18/21  
Wayne Markham Bennett, P.E.  
(PE #57216)  
wayne@wmb-pe.com  
(954) 818-3825

Markham Services, Inc. (CA 33018)  
1820 NE Jensen Bch Blvd, Unit 685  
Jensen Beach, FL 34957  
If signed digitally above,  
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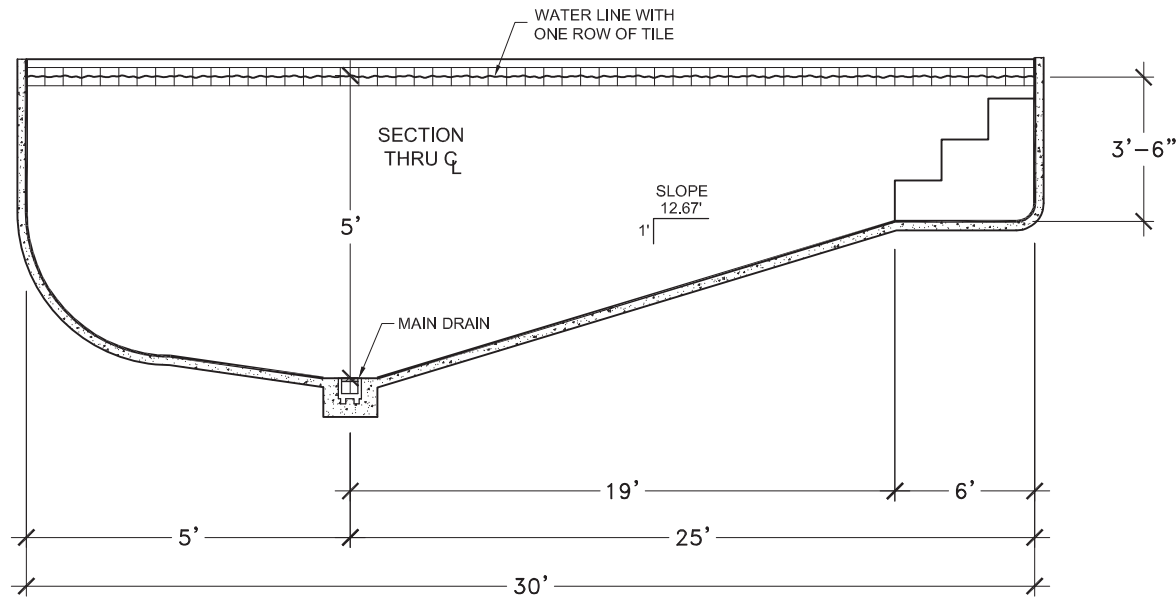
DATE: 05/12/21 SHEET 1: PLAN & SPECIFICATIONS

Signature Pools & Spas, Inc.  
1091 N.E. 45 STREET, OAKLAND PARK, FLORIDA 33334 ~ 954-351-2001

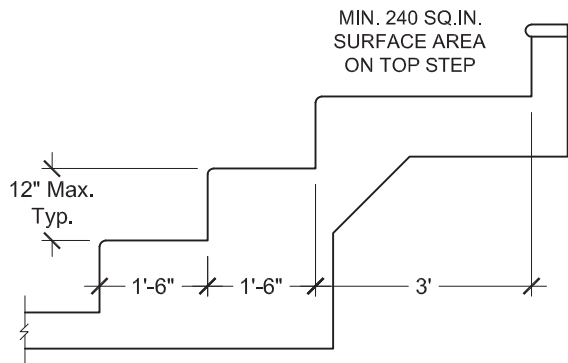
BIANCO RESIDENCE  
381 S.E. 1 TERRACE  
POMPANO BEACH  
33060

LEGAL: LOT 9, BLOCK 6  
GARDEN ISLES  
SECTION 2

JOB NO. 9501



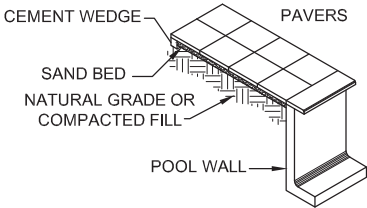
**TYPICAL SECTION FOR TYPE O POOL**  
(DIVING EQUIPMENT PROHIBITED)  
N.T.S.



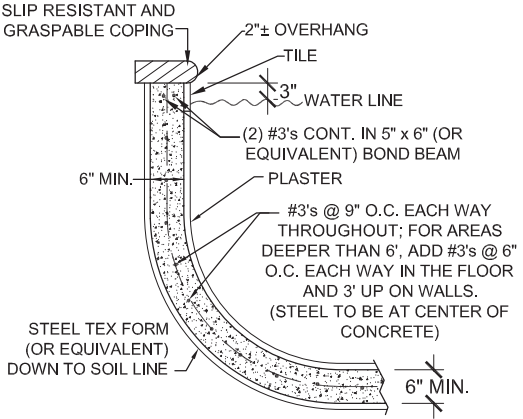
**CENTERLINE OF STEPS**  
N.T.S.

PER ANSI/APSP/ICC5 2011  
(6.2.2 THROUGH 6.2.2.1):  
ALL STEP RISERS SHALL NOT EXCEED 12" MAX. VERTICAL DISTANCE, EXCEPT THE TOP RISER, WHICH MAY VARY BUT SHALL NOT EXCEED 12" FROM THE POOL DECK COPING.

A MINIMUM SLOPE FOR DECKING OF 1/8" INCH PER LINEAR FOOT SHALL BE PROVIDED EXCEPT FOR WOOD DECKING, PER ANSI/NSPI-5 2003 SECTION 7.2.2.1

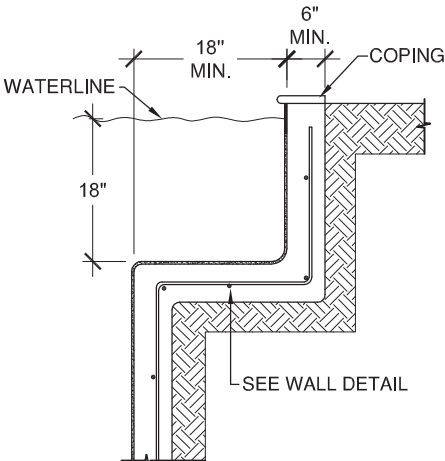


**PAVER DETAIL**  
N.T.S.

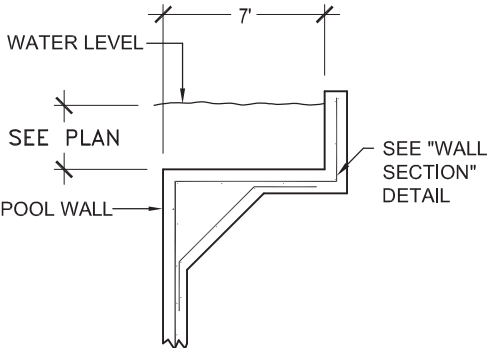


**TYPICAL WALL SECTION**  
N.T.S.


SEE PLUMBING PAGE FOR DRAIN DETAILS



**BENCH DETAIL**  
N.T.S.



**SUNSHELF SECTION**  
N.T.S.

REVISIONS		SIGNED ON 05/18/21 <b>Wayne Markham Bennett, P.E.</b> (PE #57216) wayne@wmb-pe.com (954) 818-3825	DATE: 05/12/21	SHEET 2: CONSTRUCTION
Digitally signed by <b>Wayne Markham Bennett</b> Date: 2021.05.18 '09:54:07 -04'00		Markham Services, Inc. (CA 33018) 1820 NE Jensen Bch Blvd, Unit 685 Jensen Beach, FL 34957 If signed digitally above, printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	<p>Signature Pools &amp; Spas, Inc. 1091 N.E. 45 STREET, OAKLAND PARK, FLORIDA 33334 ~ 954-351-2001</p> <p><b>BIANCO RESIDENCE</b> 381 S.E. 1 TERRACE POMPANO BEACH 33060</p> <p>LEGAL: LOT 9, BLOCK 6 GARDEN ISLES SECTION 2</p> <p>JOB NO. 9501</p>	

**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.

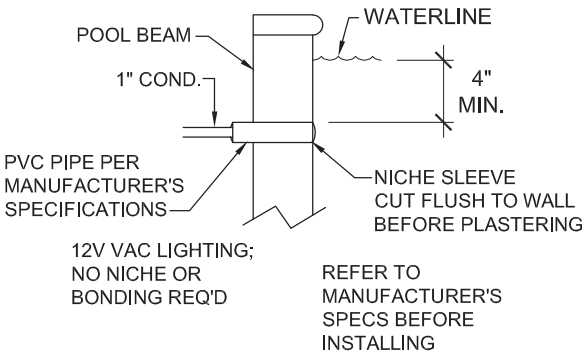
**Article 680.10 Electric Pool Water Heaters.** All electric pool water heaters shall have the heating elements subdivided into loads not exceeding 48 amperes and protected at not over 60 amperes. The ampacity of the branch-circuit conductors and the rating or setting of overcurrent protective devices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

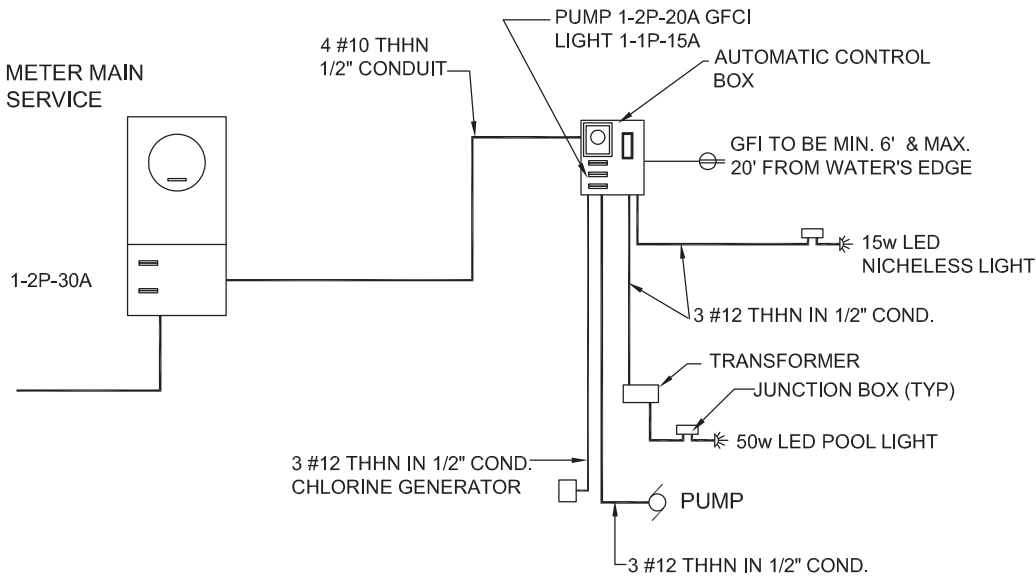
**Article 680.22 Lighting, Receptacles, and Equipment.** (A) Receptacles. (1) Required Receptacle, Location. Where a permanently installed pool is installed, no fewer than one 125-volt, 15- or 20-ampere receptacle on a general-purpose branch circuit shall be located not less than 1.83 m (6 ft) from, 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.

**Article 680.26 Equipotential Bonding.** (A) Performance. The equipotential bonding required by this section shall be installed to reduce voltage gradients in the pool area. (B) Bonded Parts (Conductive Pool Shells, Perimeter Surfaces, Metallic Components, Metal Fittings, Electrical Equipment and Fixed Metal Parts) shall be bonded together using solid copper conductors, insulated covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion-resistant metal. Connections to bonded parts shall be made in accordance with 250.8. An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remote panelboards, service equipment, or electrodes. (C) Pool Water. Where none of the bonded parts is in direct connection with the pool water, the pool water shall be in direct contact with an approved corrosion-resistant conductive surface that exposes not less than 5800 mm squared (9 square inches) of surface area to the pool water at all times. The conductive surface shall be located where it is not exposed to physical damage or dislodgement during usual pool activities, and it shall be bonded in accordance with 680.26(B).

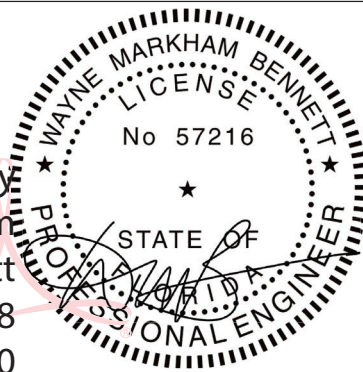
Electrical Contractor shall verify that the existing service and panel has enough capacity to accommodate the added pool equipment load per NEC 220.82



**LED NICHELESS LIGHT DETAIL**  
N.T.S.

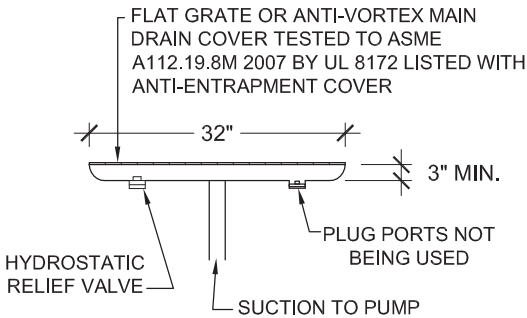
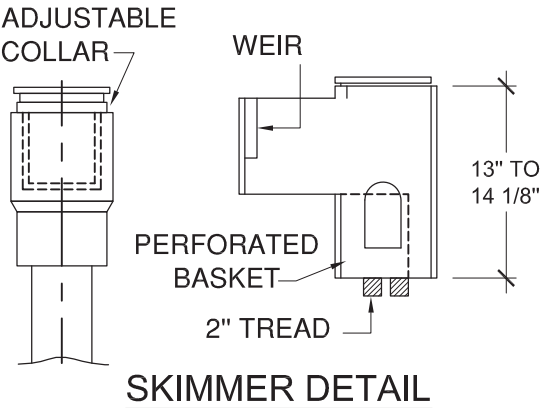


**POOL ELECTRICAL DIAGRAM**  
SEE ELECTRICAL NOTES

REVISIONS			SIGNED ON 05/18/21 <b>Wayne Markham Bennett, P.E.</b> (PE #57216) wayne@wmb-pe.com (954) 818-3825		DATE: 05/12/21		SHEET 3: ELECTRICAL	
			Markham Services, Inc. (CA 33018) 1820 NE Jensen Bch Blvd, Unit 685 Jensen Beach, FL 34957  If signed digitally above, printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.		Signature Pools & Spas, Inc.  1091 N.E. 45 STREET, OAKLAND PARK, FLORIDA 33334 ~ 954-351-2001    LEGAL: LOT 9, BLOCK 6 GARDEN ISLES SECTION 2			
Digitally signed by Wayne Markham Bennett Date: 2021.05.18 '09:54:29 -04'00				BIANCO RESIDENCE 381 S.E. 1 TERRACE POMPANO BEACH 33060  JOB NO. 9501				







**CHANNEL DRAIN DETAIL**  
ALL CHANNEL DRAINS ARE VGB 2008 COMPLIANT

NORTH

SCALE:  
1/8" = 1'

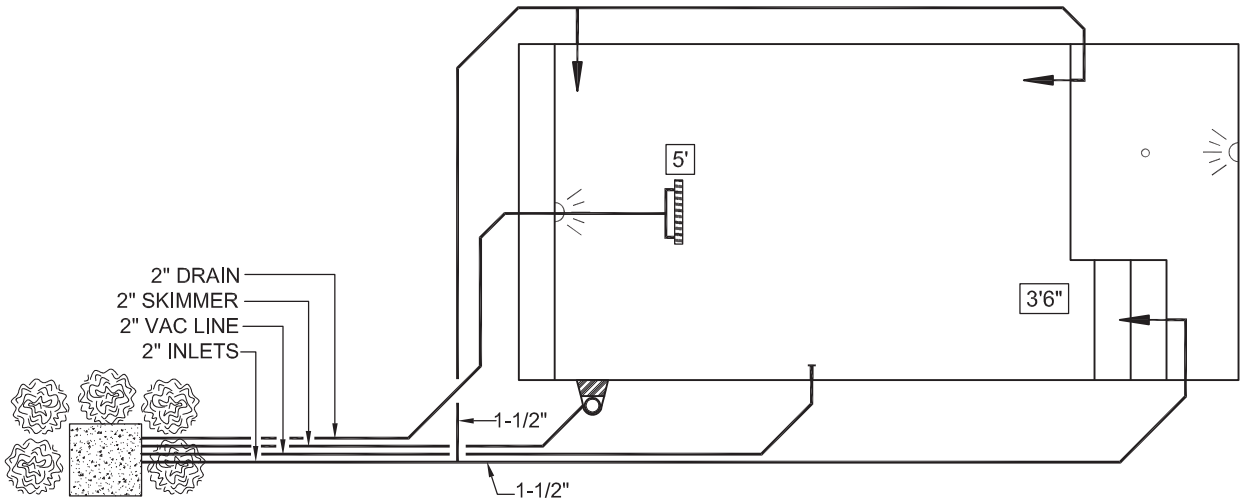
**HAZEN-WILLIAMS EQUATION FOR PUMP SUCTION:**

SPECIFIC HEAD LOSS (ft H 20/100 ft PIPE): 7.907  
SPECIFIC HEAD LOSS (psi/100ft PIPE): 3.4  
ACTUAL HEAD LOSS (ft H2O): 5.535  
ACTUAL HEAD LOSS (psi): 2.4  
**VELOCITY (ft/s): 6.84**

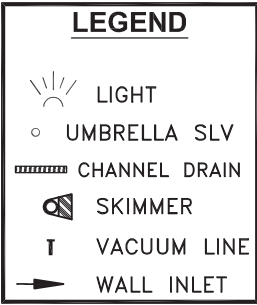
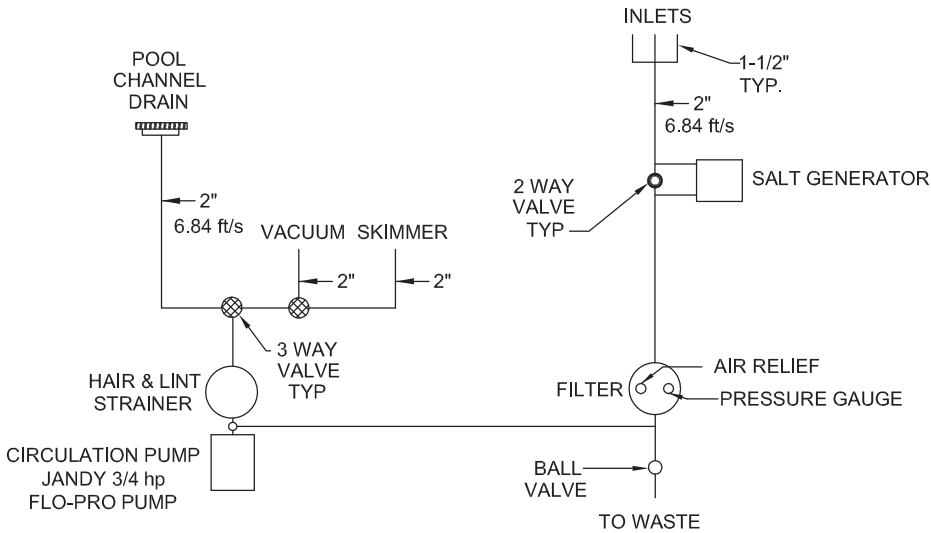
**RETURN LINES (ft/s): 6.84**

PLUMBING AND FITTINGS	10 tdh
FILTER	10 tdh
CHLORINATOR	5 tdh
TOTAL	25 tdh
CIRCULATION PUMP JANDY FLO-PRO 3/4 hp @ 25 tdh = 70 GPM	

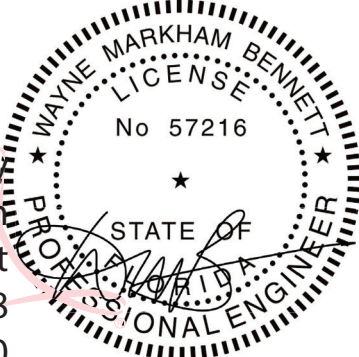
EQUIP & PAD  
(SEE EQUIPMENT PAD NOTES ON SHEET 4)  
(EXACT LOCATION TO BE VERIFIED)



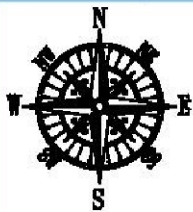
POOL EQUIP. & PAD  
LANDSCAPE PER CODE  
(MIN. 24" HIGH AND 2' ON CENTER AT TIME OF PLANTING), WILL BE MAINTAINED AT 6" ABOVE POOL EQUIPMENT



**PLUMBING SCHEMATIC**  
SEE SHEET 4 FOR NOTES

REVISIONS		SIGNED ON 05/18/21 <b>Wayne Markham Bennett, P.E.</b> (PE #57216) wayne@wmb-pe.com (954) 818-3825	DATE: 05/12/21	SHEET 5: PLUMBING
		Markham Services, Inc. (CA 33018) 1820 NE Jensen Bch Blvd, Unit 685 Jensen Beach, FL 34957 If signed digitally above, printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	Signature Pools & Spas, Inc. 1091 N.E. 45 STREET, OAKLAND PARK, FLORIDA 33334 ~ 954-351-2001	
Digitally signed by Wayne Markham Bennett Date: 2021.05.18 '09:55:18 -04'00		BIANCO RESIDENCE 381 S.E. 1 TERRACE POMPANO BEACH 33060		
		LEGAL: LOT 9, BLOCK 6 GARDEN ISLES SECTION 2		JOB NO. 9501





SCALE: 1"=30'

### BEARING REFERENCE:

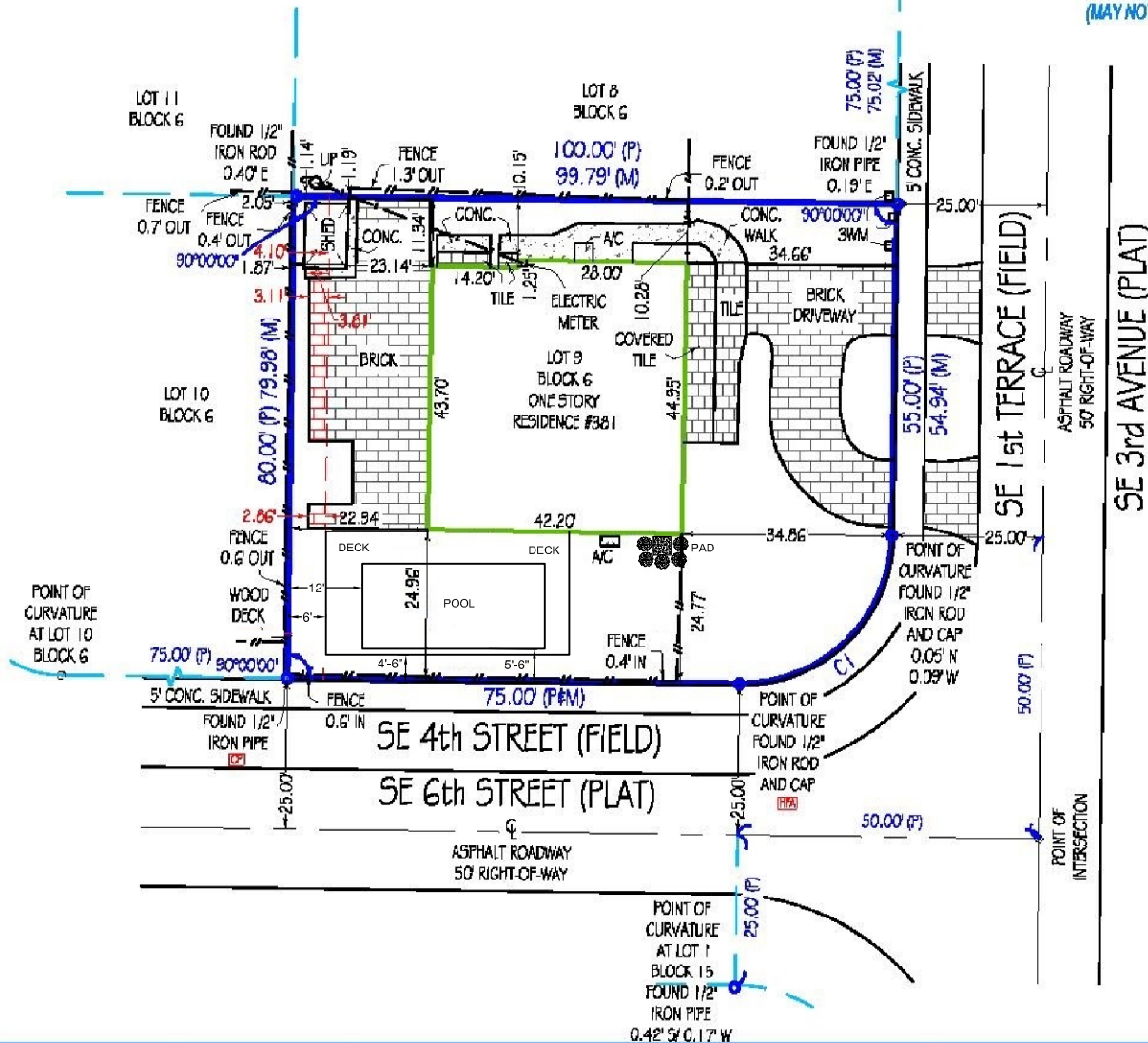
NONE. RECORD INFORMATION RELIANT UPON ANGULAR DATA ONLY.  
ALL ANGULAR DATA SHOWN HEREON REFERENCED THERETO.

	CURVE TABLE			CHORD LENGTH	CHORD BEARING
	LENGTH	RADIUS	DELTA		
C1 (P)	39.27'	25.00'	90°00'00"	35.36'	54°5'44.45"W
C1 (M)	39.23'	25.00'	89°54'30"	35.33'	54°5'35'45"W

THE NE CORNER OF LOT 8 BLOCK 6 FOUND 1/2" IRON ROD AND CAP 0.33' E



**AERIAL PHOTOGRAPH**  
(MAY NOT SHOW LATEST IMPROVEMENTS)  
(NOT-TO-SCALE)



"CP" = CONTROLLING POINT (POINT OF ROTATION) "HFA" = HELD FOR ALIGNMENT - ALL OTHER MONUMENTATION AND IMPROVEMENTS RELATIVE THERETO

**Platted Easements, Notable or Adverse Conditions (unplatted easements also listed if provided by client): IF APPLICABLE, RECIPIENTS OF THIS SURVEY SHOULD REVIEW THE POSITION OF ANY FENCE LINES SHOWN HEREON AND THEIR RELATIONSHIP TO THE BOUNDARY LINE**

- 6' U.E. ALONG WESTERLY BOUNDARY LINE OF SUBJECT LOT.
- SHED EXTENDS THROUGH THE WESTERLY EASEMENT.
- CONCRETE SURFACE EXTENDS THROUGH THE WESTERLY EASEMENT.
- BRICK SURFACE EXTENDS THROUGH THE WESTERLY EASEMENT.
- WOOD DECK EXTENDS THROUGH THE WESTERLY EASEMENT.
- ABOVE GROUND POOL EXTENDS THROUGH THE WESTERLY EASEMENT.
- FENCES EXTEND THROUGH WESTERLY EASEMENT.

This survey has been issued by the following  
Landtec Surveying office:  
481 E. Hillsboro Blvd. Ste 100-A  
Deerfield Beach, FL 33441  
Office: (561) 367-3587  
Fax: (561) 465-3145  
[www.Landtecsurvey.com](http://www.Landtecsurvey.com)

#### Elevations, if shown:

Benchmark: \_\_\_\_\_  
Benchmark Elev.: \_\_\_\_\_  
Benchmark Datum: \_\_\_\_\_  
Elevations on Drawing are in:  
N.G.V.D.29 ☐ N.A.V.D.88 ☐

#### Revisions:


Job Nr: 116167-SE Date of Field Work: 04/12/2021 Drawn by: M. N.

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