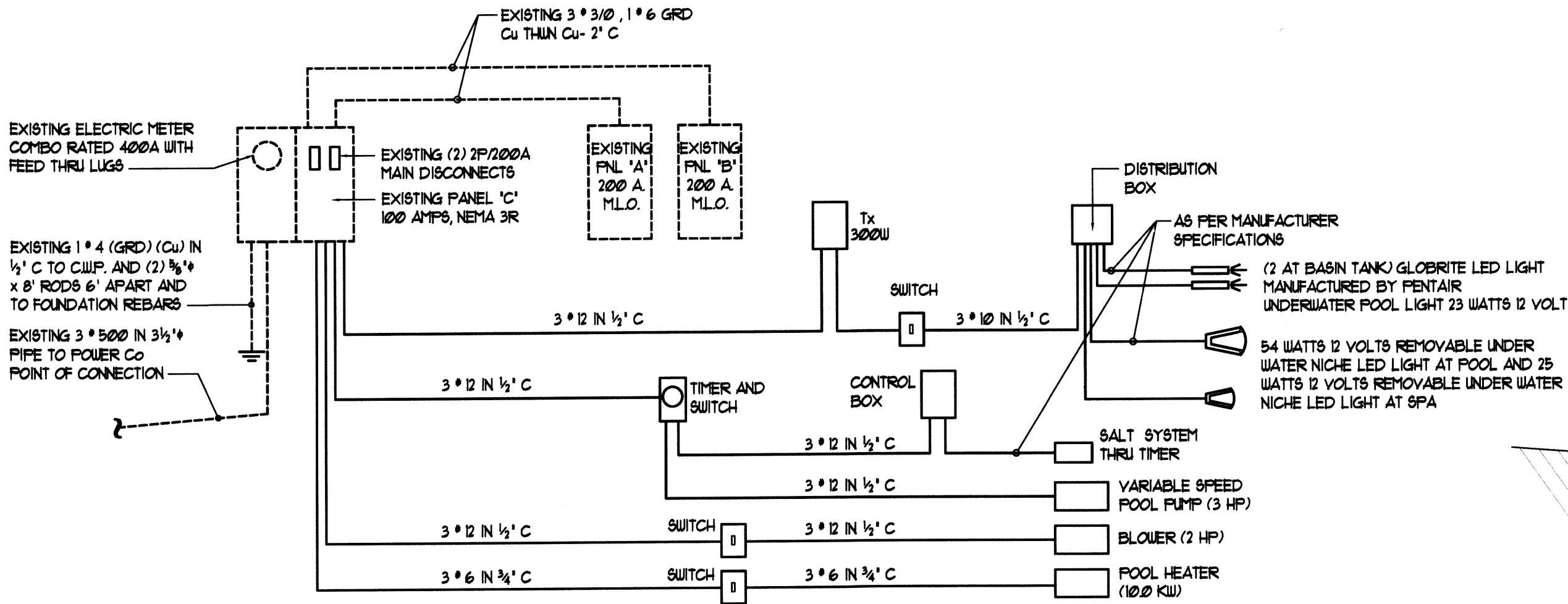


GENERAL NOTES

1. ALL FLOORS AND WALLS OF POOL TO BE CONCRETE SHALL BE PNEUMATICALLY PLACED (SHOTCRETE OR GUNITE) A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
2. ALL REINFORCING STEEL TO CONFORM TO ASTM A615 GRADE 60.
3. ALL POOL PIPING TO BE SCHEDULE 40 PVC BEARING NSF APPROVAL WITH LOGO PRINTED. PLASTIC PIPE SUBJECT TO A PERIOD OF PROLONGED SUNLIGHT EXPOSURE SHALL BE COATED TO PROTECT IT FROM ULTRAVIOLET LIGHT DEGRADATION - FBC R4501.6.5
4. FILTER BACKWASH SHALL COMPLY WITH CHAPTER R410.2 OF THE FBC.
5. NO POOL OR SPA DECK SHALL BEAR ON ANY TYPE OF SOILS EXCEPT CLEAN SANDS OR ROCK WHICH SHALL BE CONTACTED TO PROVIDE A SAFE BEARING CAPACITY OF 2000 PPF. ANY ORGANICS, MARLS, OR OTHER TYPES OF DELETERIOUS MATERIALS ENCOUNTERED ON EXCAVATION SHALL BE REMOVED (DEMOLISHED) IN THEIR ENTIRETY AND THE AREA SHALL BE BACKFILLED WITH ACCEPTABLE SOIL AND COMPACTED IN 12" THICK LAYERS, WHERE THE CONTRACTOR CAN NOT REMOVE THE ORGANICS DUE TO UNWATER CAUSED, THE POOL SHALL BE REDESIGNED FOR PILING.
6. IN ALL CASES THE POOL CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES FROM FAILURE BY SHORING, UNDERPINNING OR ANY OTHER METHOD IF REQUIRED. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR THE SAFETY OF EXISTING STRUCTURE.
7. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR POOL CONSTRUCTION IN EASEMENTS OR REQUIRED SETBACK AREAS. LOT PLANS NOT PREPARED FROM LEGAL SURVEYS OF THE EXISTING LOT AND RESIDENCE ARE SO INDICATED. POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND ESTABLISH LOT LINES IF NECESSARY. CONTRACTOR AND / OR OWNER SHALL VERIFY LAYOUT SHOWN AND ALL DIMENSIONS PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL ESTABLISH LOCATIONS OF UTILITIES AT THE SITE. MINIMUM CLEARANCE DIMENSIONS SHALL BE HELD AND SHALL BE AS REQUIRED BY THE LOCAL REGULATORY AGENCY IN GENERAL. HOLD A DISTANCE OF 10 FEET FROM OVERHEAD ELECTRIC LINES TO OPEN POOL WATER EDGE AND 5 FEET FROM UNDERGROUND ELECTRIC LINES.
9. POOL SLIDES TO BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF CONSUMER PRODUCTS SAFETY COMMISSION, U.S.C. AND FBC R424.192
10. MINIMUM 4'-0" HIGH FENCE RECOMMENDED AROUND ALL POOLS IN UNSCREENED AREAS. COMPLY WITH CHAPTER R450.1 OF THE 2014 F.B.C.
11. WHERE POOLS ADJUT OR ARE PLACED NEARBY SEAWALLS OR BULKHEADS SPECIAL CARE SHALL BE EMPLOYED. THE WALLS SHALL BE IN GOOD CONDITIONS NOT PERMITTING ANY SHIFTING OR REMOVAL OR LOOSENING OF THE SUPPORTING SOIL AWAY FROM THE POOL. IF THE WALLS DO NOT FULLY CONTAIN THE SOILS BEHIND THEM, THEY SHALL BE REPLACED OR REPAIRED. CONTINUAL MAINTENANCE OF THE WALLS IS REQUIRED OF THE PROPERTY OWNER WHEN EXCAVATING FOR THE POOL, THE SEAWALL TIEBACKS SHALL NOT BE CUT. WHERE CONCRETE DEAD-MEN FALL WITHIN THE EXCAVATION, NOTIFY THE ENGINEER FOR INSTRUCTIONS.
12. THE CONTRACTOR SHALL BACKFILL THE POOL SHELL WITH CAUTION. THE PUMPING SHALL NOT BE DISTURBED. BACKFILL SHALL BE ACCOMPLISHED WITH CLEAN SANDS FREE OF ORGANIC MATERIALS AND SHALL BE PLACED IN 12" THICK LAYERS. EACH LAYER SHALL BE COMPACTED TO 90% OF THE SOILS MAXIMUM DENSITY BY TAMPING SOLIDLY. SOILS BELOW THE PATIO SHALL BE PLACED IN A SIMILAR MANNER.
13. WHERE PATIOS ARE INDICATED BY OTHERS, THE PATIO DESIGN NOTES SHOWN ON THE TYPICAL WALL SECTION DO NOT APPLY. PATIO DESIGN SHALL BE BY OTHERS.
14. WARNING: TO EMPTY POOL AFTER CONSTRUCTION FOR REPAIRS OR ANY OTHER REASON, THE HYDROSTATIC UPLIFT PRESSURES BENEATH THE POOL MUST BE ELIMINATED TO PREVENT THE POOL FROM FLOATING UPWARD. THE OWNER MUST CONSULT AND POOL REPAIR CONTRACTOR EXPERIENCED IN ELIMINATING UPLIFT PRESSURES.
15. THIS PLANS REMAINS THE PROPERTY OF THE DESIGN ENGINEER. IT IS NOT TRANSFERABLE FROM ONE CONTRACTOR TO ANOTHER WITHOUT THE WRITTEN PERMISSION OF THE DESIGN ENGINEER AND THE BEST OF OUR PROFESSIONAL KNOWLEDGE AND BELIEF THEY HAVE BEEN PREPARED IN COMPLIANCE WITH THE ANSI/NSF-5-2003 AND 2014 FBC AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
16. CONCRETE POOL DECK SHALL BE PROVIDED 1/4" WIDE SAWCUT CRACK CONTROL JOINTS SPACED AT 5'-0" O.C. OR FOR AN EFFECTIVE CONCRETE AREA OF 150 SQ. FT. CRACK CONTROL JOINTS SHALL BE SAWCUT AT A DEPTH OF 1/3 THE SLAB THICKNESS.

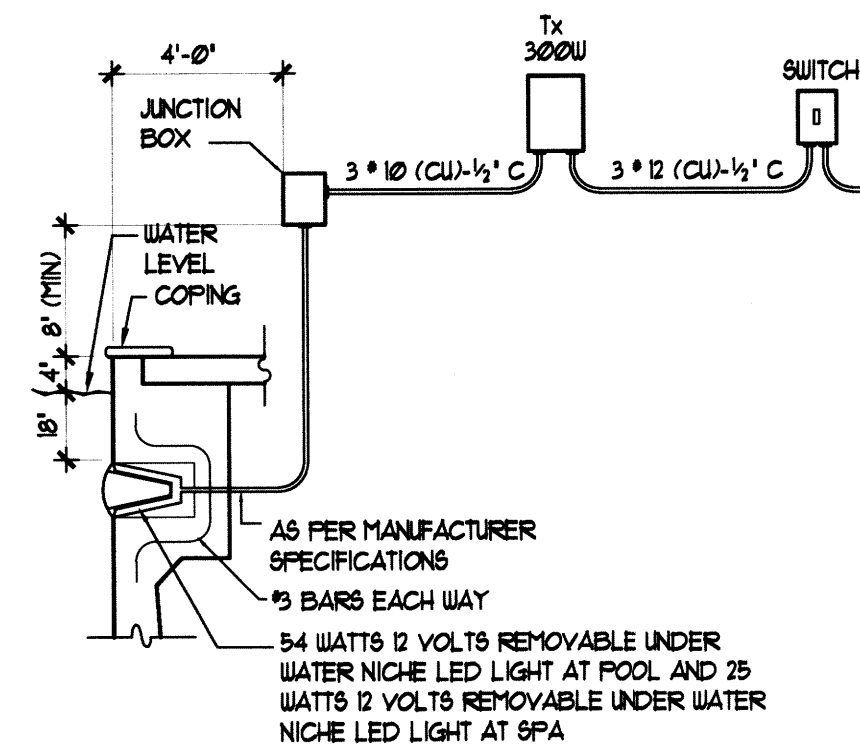


ELECTRICAL RISER DIAGRAM

POOL PUMP SHOWN ON THIS SET OF PLANS IS IN COMPLIANCE WITH FBC E403.9 swimming pool

THIS SETS OF PLANS HAS BEEN DESIGNED UNDER 680226 N.E.C. 2011 EDITION AND RESIDENTIAL 2014 FBC 5th EDITION

ELECTRICAL DATA EXISTING 200A PANEL "C"					120 / 240v 1N 3W NEMA 3R
CKTS	SERVICES	C.B.	P	KW	WIRE - COND.
CKT- 1, 3	POOL PUMP (GFCI)	20	2	3.2	* 12 - 1/2" C
CKT- 2, 4	POOL HEATER	60	2	10.0	* 6 - 3/4" C
CKT- 5, 1	BLOWER	20	2	2.25	* 12 - 1/2" C
CKT- 6	POOL LIGHTS	20	1	0.3	* 12 - 1/2" C
(GFCI) GROUND FAULT CIRCUIT INTERRUPTER 15.75 KW @ 100% / 240 V = 66 AMP					



UNDERWATER LAMP DETAIL

2014 FBC ENERGY CODE FOR SWIMMING POOLS

R402.9 Swimming pools, inground spas and portable spas (Mandatory).
The energy requirements for residential pools and inground spas shall be as specified in Sections R402.9.1 through R402.9.3 and in accordance with ANSI/APSP-5. The energy requirements for portable spas shall be in accordance with ANSI/APSP-14.
R402.9.1 Pool and spa heaters.
All pool heaters shall be equipped with a readily accessible on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting.
R402.9.1.1 Gas and oil-fired pool and spa heaters.
All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013 when tested in accordance with ANSI Z 2156. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
R402.9.1.2 Heat pump pool heaters.
Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
R402.9.2 Time switches.
Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this requirement.
Exceptions:
1. Where public health standards require 24-hour pump operation.
2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

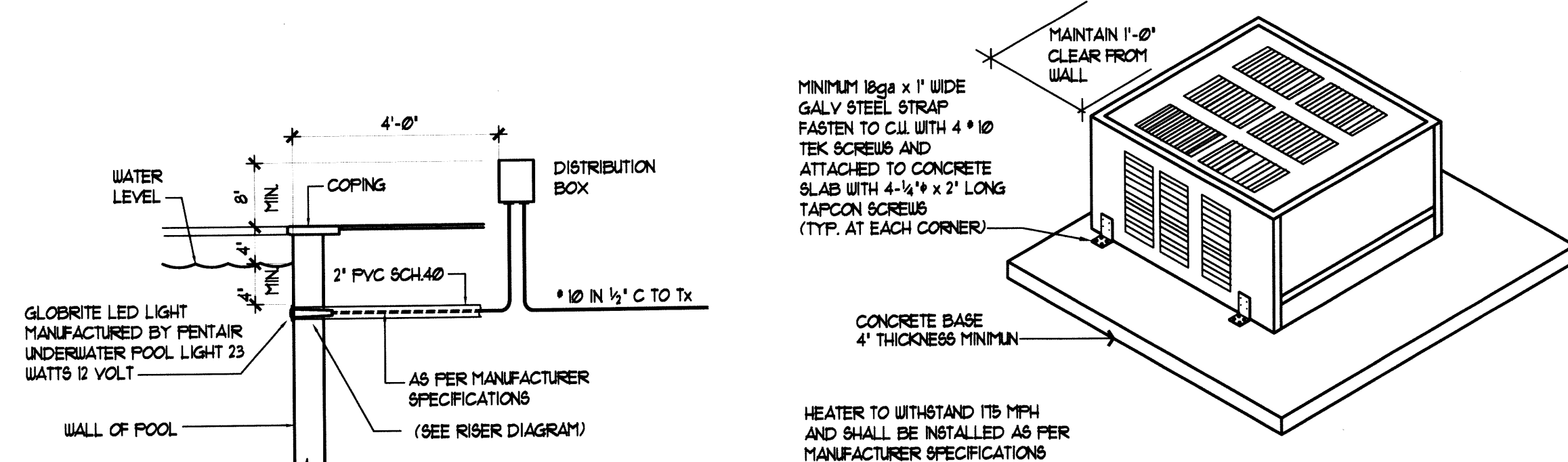
LEGAL DESCRIPTION

Folio: 32-20B-005-0210
LOT 6 BLOCK 11, FOURTH ADDITION TO ROYAL OAKS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 181 AT PAGE 53, OF THE PUBLIC RECORD OF MIAMI-DADE COUNTY, FLORIDA

BARRIER SCHEDULE

F.B.C. 2014 - R450.1 Residential swimming barrier requirement.

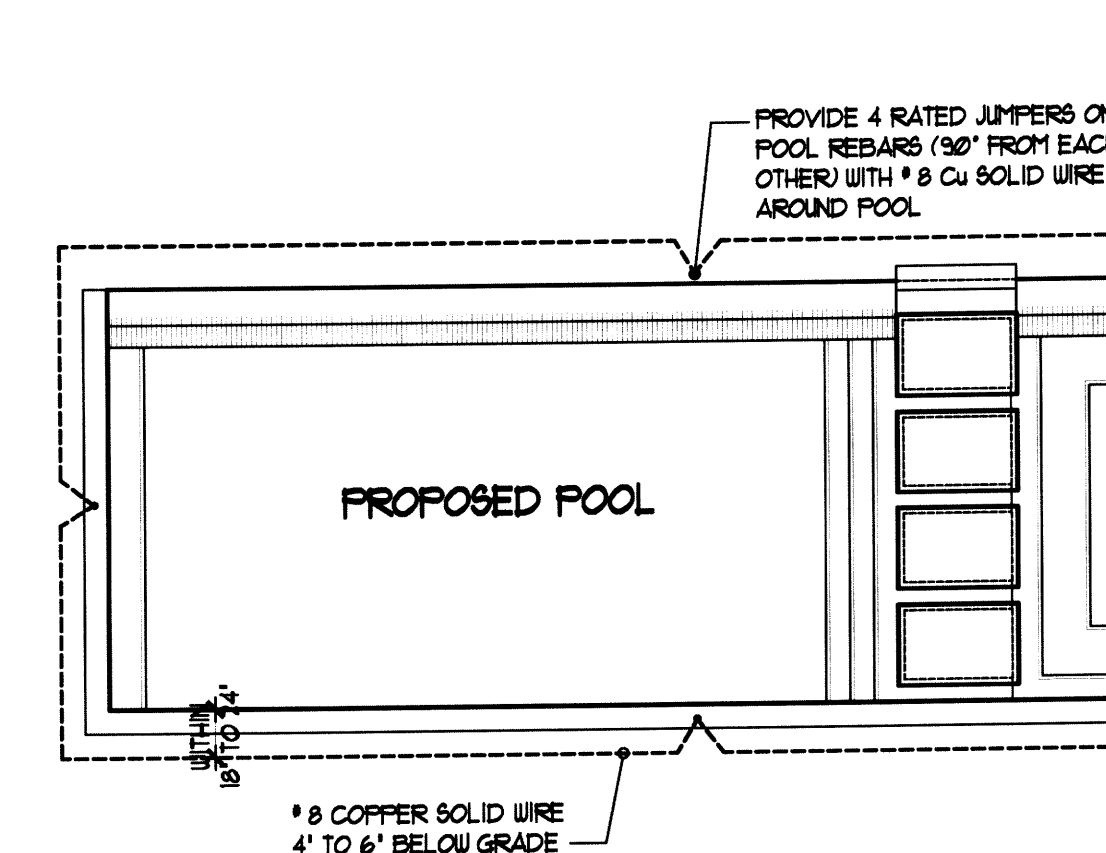
BARRIER	DESCRIPTION
CHILD FENCE	48" HIGH ALL AROUND POOL
R450.1.1.1.3 Removable child barriers must be placed sufficiently away from the water's edge to prevent a young child or medically frail elderly person who may manage to penetrate the barrier from immediately falling into the water. Sufficiently away from the water's edge shall mean no less than 20 inches (508 mm) from the barrier to the water's edge. Dangling or non-dangling walls including screen enclosures, when used as part or all of the barrier and meeting the other barrier requirements, may be as close to the water's edge as permitted by this code. R450.1.1.1.1 - Removable child barriers shall have one end of the barrier non-removable without the aid of tools	



POOL HEATER MOUNTING DETAIL

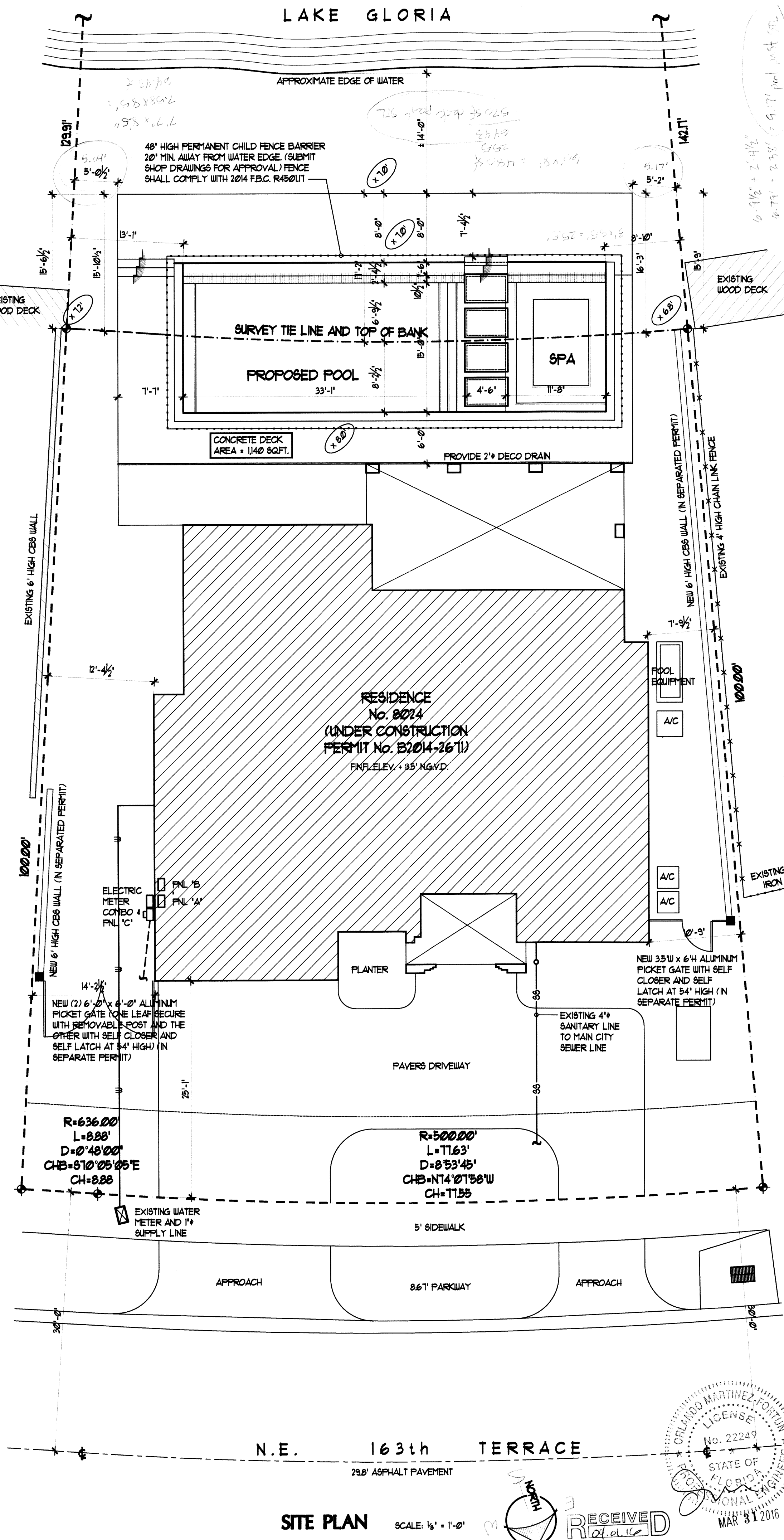
R410.1.4.4 Connections.
All water heating equipment shall be installed with flanges or union connection adjacent to the heater.

UNDERWATER LAMP DETAIL AT 4" BELOW WATER



EQUIPOTENTIAL BONDING DETAIL

680226 N.E.C. 2011 EDITION
ALTERNATE EQUAL POTENTIAL BONDING GRID OF ONE # 8 SOLID COPPER PLACED 18" TO 24" FROM THE INSIDE EDGE OF POOL ENCOMPASSING 360 DEGREES WITH 4 EQUAL BONDING POINTS TO THE POOL STEEL. THE EQUAL POTENTIAL BONDING NEEDS TO BE 4" TO 6" BELOW GRADE AND SECURED IN PLACE



SITE PLAN

SCALE: 1/8" = 1'-0"

REVISIONS	BY

JOB NUMBER
15-01651

Orlando m. forum
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TEL: (305) 262-6225 FAX: (305) 262-2014
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Antonia / alvarez
305 559 1476

PROPOSED POOL PLAN FOR:
MR. & Mrs. Ibrahim Remedios
LOCATED AT:
8024 NW 163 TERRACE MIAMI LAKES, FLORIDA, 33016

DRAWN: R.M.G.
CHECKED: O.M.F.
DATE: November '15
SCALE: SHOWN
JOB NO: 15-01651

SHEET
1
OF 3 SHEETS

REVISIONS	BY

JOB NUMBER

15-016151

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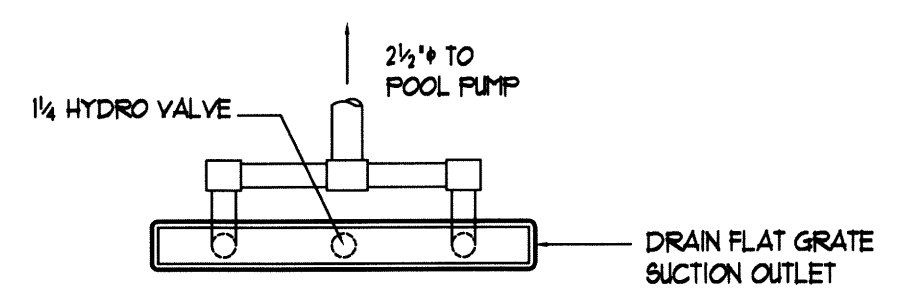
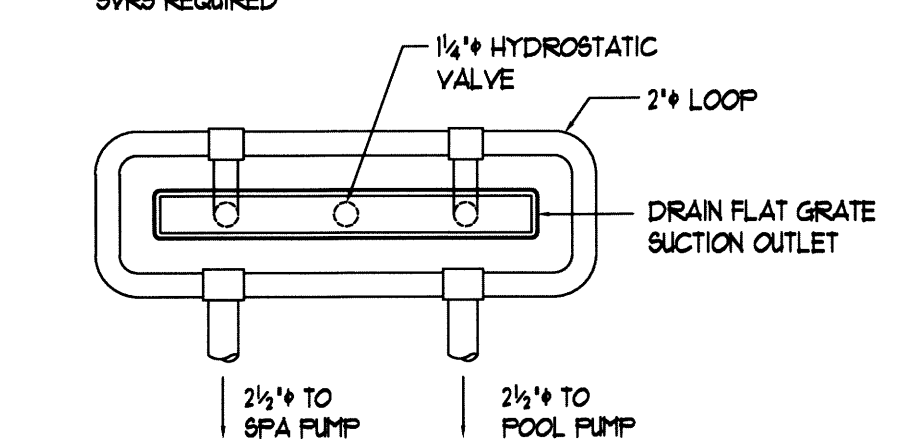
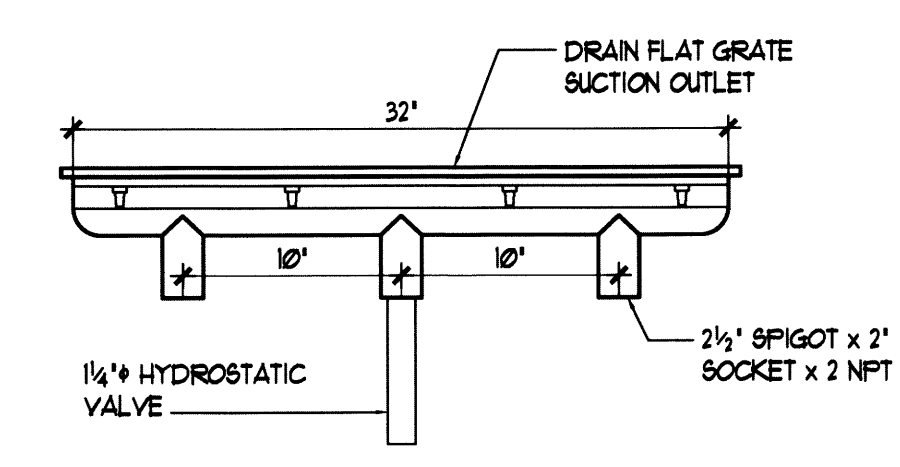
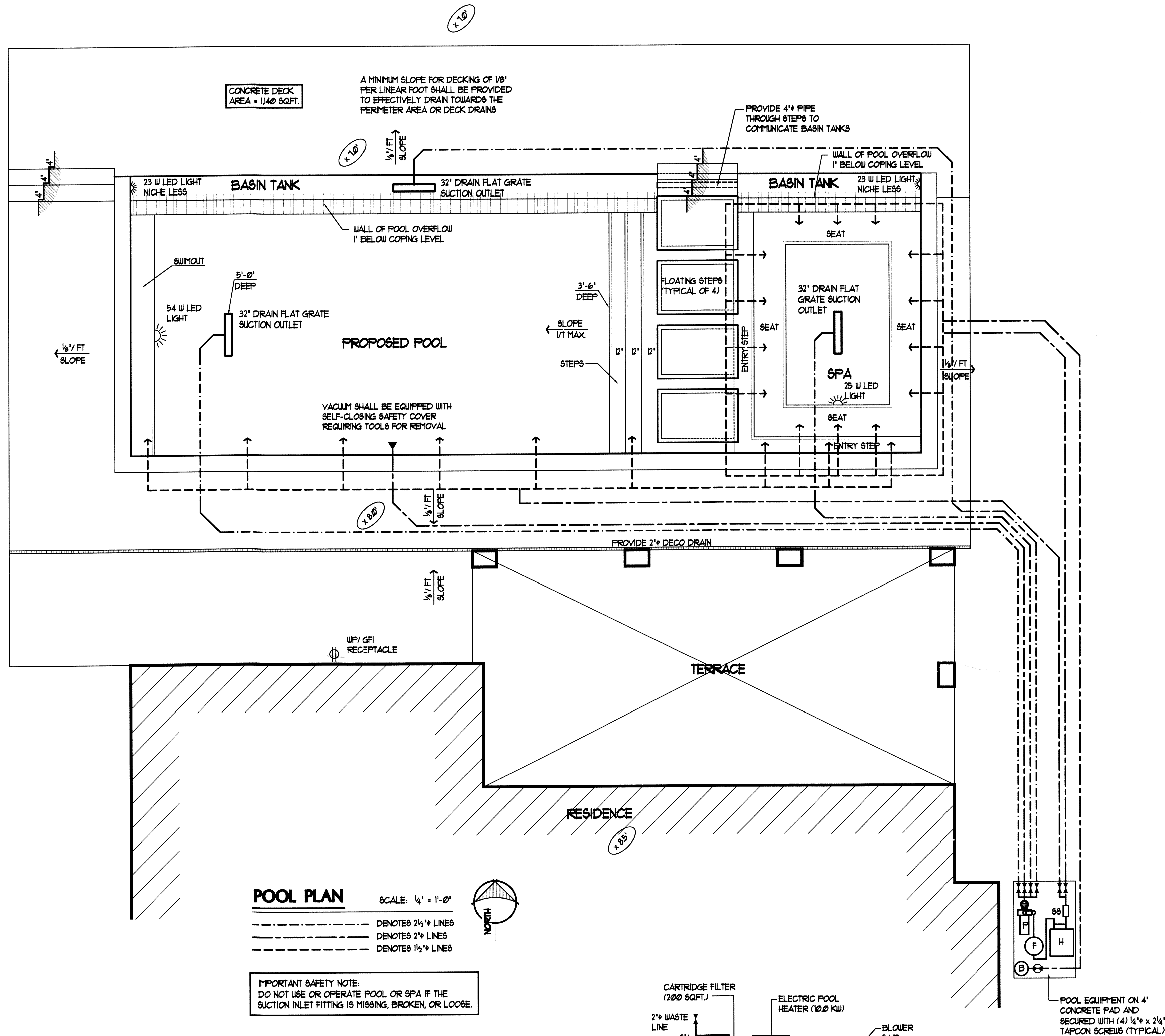
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MR. & Mrs. Ibrahim Remedios

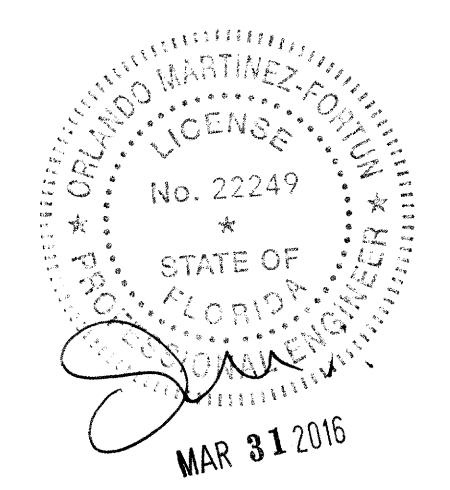
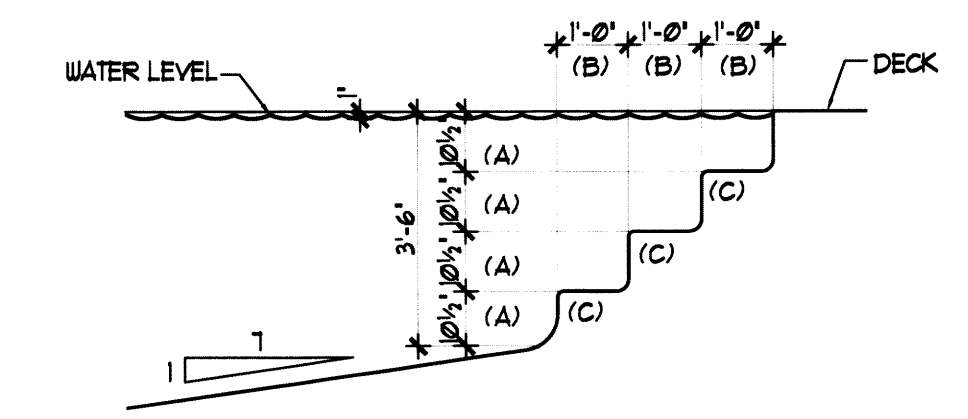
LOCATED AT:

8024 NW 163 TERRACE MIAMI LAKES, FLORIDA, 33016

DRAWN : RMG.
CHECKED : OMF.
DATE : November '15
SCALE : SHOWN
JOB NO: 15-016151
SHEET
2
OF 3 SHEETS



- PLUMBING NOTES:**
- ALL POOL AND EQUIPMENT PIPING SHALL BE SCHEDULE 40, PVC-RW, NON-THREADED, NSF APPROVED SUPPORTED CONTINUOUSLY ON GROUND OR ON MAXIMUM 4'0" CENTERS WITH CLEVIS HANGERS.
 - ALL SUCTION PIPING SHALL BE 2" DIAMETER AND ALL PRESSURE PIPING 1 1/2" DIAMETER UNLESS OTHERWISE NOTED.
 - POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS.
 - ANTI VORTEX MAIN DRAIN SHALL HAVE ITS PLATE SECURELY FASTENED WITH TAMPERPROOF SCREWS.
 - POOL VACUUM SHALL HAVE SPRING LOADED CAP IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
 - ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-PLUMBING SECTION 309
 - THE WATER VELOCITY THROUGH ALL SUCTION PIPING SHALL BE LESS THAN 8 FEET PER SECOND.
 - THE WATER VELOCITY THROUGHOUT ALL PRESSURE PIPING SHALL BE LESS THAN 10 FEET PER SECOND.
 - ALL PIPING SHALL BE SUITABLE FOR EXPOSURE TO ULTRA VIOLET RADIATION AND NORMAL OPERATING TEMPERATURES.
 - VACUUM SHALL BE EQUIPPED WITH SELF-CLOSING SAFETY COVER REQUIRING TOOLS FOR REMOVAL.



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11/16/15

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15-016151

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MR. & Mrs. Ibrahim Remedios

8024 NW 163 TERRACE MIAMI LAKES, FLORIDA, 33016

RAUN : RM.G.
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MEET

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3 SHEETS

