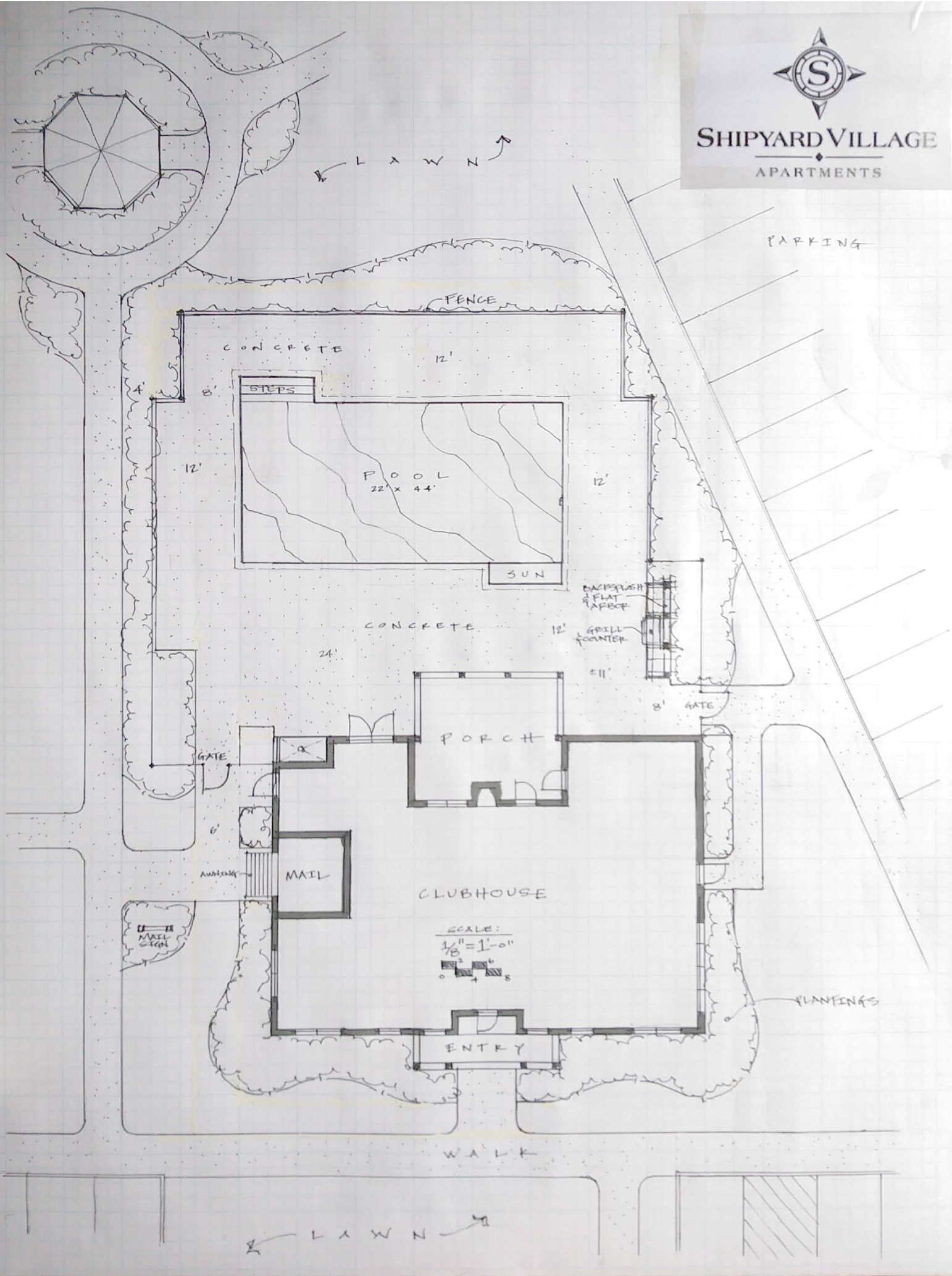




SHIPYARD VILLAGE  
APARTMENTS





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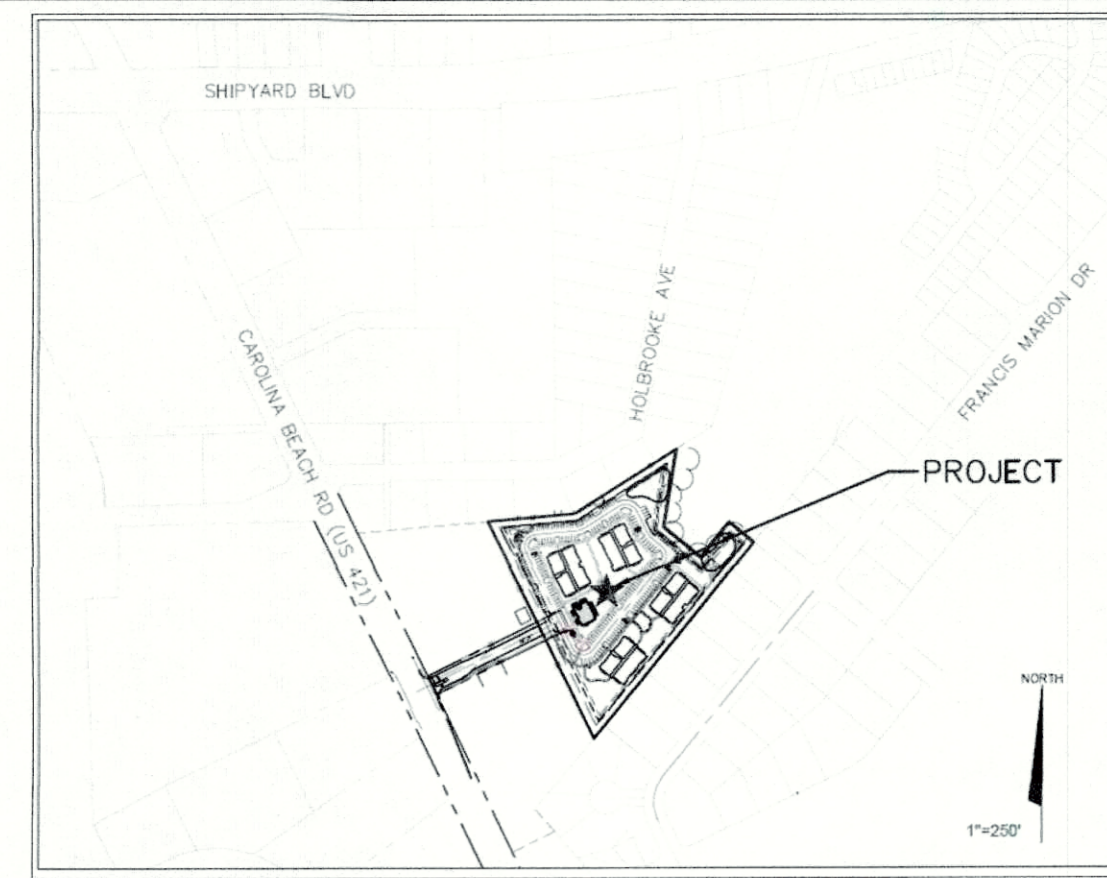
REVISIONS

- REVISED PER NEW HANOVER COUNTY 12-7-17
- REVISED PER NEW HANOVER COUNTY 10-11-17

NEW OUTDOOR COMMERCIAL POOL PLANS  
For  
**Shipyard Village**  
719 Galley Lane Wilmington NC 28412  
Wilmington, NC

**HOT SPRINGS POOLS & SPAS**  
Since 1989  
578 WOODRUFF ROAD  
GREENVILLE, SC 29607  
(864) 676-9400 (TELEPHONE)  
(864) 329-1548 (FAX)

DRAWN BY:  
RBH  
CHECKED BY:  
RRP  
DATE:  
7-14-17  
SCALE:  
AS NOTED  
OVER VIEW  
SP - 1



NOTE:  
ALL ELECTRICAL CIRCUITS WITHIN THE POOL AREA ARE TO BE PROVIDED WITH GROUND-FAULT-INTERRUPTERS (GFI).  
THE POOL AREA IS DEFINED AS INCLUDING THE TOILET FACILITIES, EQUIPMENT ROOM, CHEMICAL STORAGE, ETC.

NOTE:  
Pool to be constructed in accordance with 15A NCAC 18A.2500 and ASME/ANSI A112.19.8-2007  
Suction outlets will be installed in accordance with 3109.5 Entrapment Avoidance and ANSI/APSP-7 and ICC/ANSI A117.1-2009  
Handicap Lift is in accordance with NCBC Chapter 11 Accessibility and ICC/ANSI 117.1-2009

NOTE:  
OUTDOOR SEASONAL POOL  
NOT DESIGNED FOR NIGHT SWIMMING  
HOURS OF OPERATIONS FROM DAWN TO DUSK  
APRIL 1 UNTIL OCTOBER 31

NOTE:  
• HOSE BIBBS SUPPLY FROM COMMON FEED LINE CONNECTED TO A WILKINS 3/75 XL HIGH HAZARD RP2 BACKFLOW PREVENTER. SEE EQUIPMENT ROOM FOR LOCATION  
• HEIGHT OF HOSE BIBBS SHALL NOT BE LESS THAN TEN (10) INCHES ABOVE DECK.  
• HOSE BIB SHALL BE LOCATED AROUND PERIMETER OF DECK CAN BE REACHED WITH A 100' HOSE.  
• HOSE BIBB SHALL BE PROVIDED SUCH THAT ALL PARTS OF THE DRESSING FACILITY CAN BE REACHED WITH A 100 FOOT HOSE.  
• HOSE BIBB WITH AN APPROVED BACKFLOW PREVENTER DEVICE SHALL BE PROVIDED WITHIN 50 FOOT OF THE EQUIPMENT ROOM.

PER NC REGULATIONS:  
EMERGENCY PHONE:  
• THE PHONE SHALL BE AN INDEPENDENT LANDLINE PHONE, WITH NO LINE EXTENSIONS OR SWITCHBOARD OPERATOR, AND PERMANENTLY MOUNTED ON THE POOL DECK AREA.  
• NO DIRECT DIAL 911 PHONES WILL BE ALLOWED (PHONE WHICH HAVE NO DIAL PAD).  
• THE PHONE MUST HAVE A FUNCTIONING KEYPAD AND SHALL BE CAPABLE OF RECEIVING CALLS WITH AN AUDIBLE RINGER.  
• A SIGN SHALL BE POSTED STATING "EMERGENCY DIAL 911" ALONG WITH THE TELEPHONE NUMBER AND ADDRESS OF THE POOL.  
ALL OF THE ABOVE BY GENERAL CONTRACTOR

ALL GATES SHALL BE EQUIPPED WITH SELF-CLOSING AND POSITIVE SELF-LATCHING CLOSURE MECHANISMS AND SHALL BE EQUIPPED WITH LOCKING DEVICES. THE GATES SHALL OPEN AWAY FROM THE POOL EXCEPT WHEN NATURAL TOPOGRAPHY OR OTHER CONDITIONS DICTATE THAT IT OPEN INWARD. THE GATE SHALL BE LOCATED TO OPEN WHERE THE WATER IS NO GREATER THAN 5' DEEP. RELEASE OF LATCH ON THE SELF-LATCHING DEVICE SHALL BE ACTIVATED BY CARD READER, KEY OR COMBINATION LOCK.  
WHERE THE RELEASE MECHANISM OF THE SELF-LATCHING DEVICE IS LOCATED LESS THAN 54 INCHES FROM THE BOTTOM OF THE GATE, THE RELEASE MECHANISM SHALL BE LOCATED ON THE POOL SIDE OF THE GATE (3 INCHES OR MORE DOWN FROM THE TOP), AND THE GATE AND BARRIER SHALL HAVE NO OPENINGS GREATER THAN 0.5 INCH WITHIN 18 INCHES OF THE RELEASE MECHANISM.  
PER NC DENR, DEH ENVIRONMENTAL HEALTH SERVICES, SECTION 15A NCAC 18A.2528 BY GENERAL CONTRACTOR

NOTE:  
THERE SHALL BE NO HANDHOLDS OR FOOTHOLDS ADJACENT TO THE BARRIER OR WHERE THE FENCE MEETS THE BUILDING (MEASURED FROM OUTSIDE APPROACH). ANY 2 OBJECTS WITH LESS THAN 45 INCHES BETWEEN THEM WOULD BE CONSIDERED HANDHOLDS/FOOTHOLDS.  
PER NC DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH RULES AND REGULATIONS 15A NCAC 18A.2528 (a)

NOTE:  
• ALL SIGNS SHALL BE MOUNTED PERMANENTLY  
• ALL SIGNS SHALL BE POSTED IN A CONSPICUOUS LOCATION  
BY GENERAL CONTRACTOR

NOTE:  
IF CARD READERS ARE USED, CARD READER LOCKS WILL COMPLY WITH 1008.1.3.4 NCSBC TYP. ALL LOCATIONS  
BY GENERAL CONTRACTOR

NOTE:  
• EQUIPMENT & CHEMICAL ROOMS EXHAUST FANS MUST BE WIRED TO OPERATE CONTINUOUSLY.  
• VENTED TO THE OUTSIDE AND AWAY FROM THE POOL.  
BY GENERAL CONTRACTOR

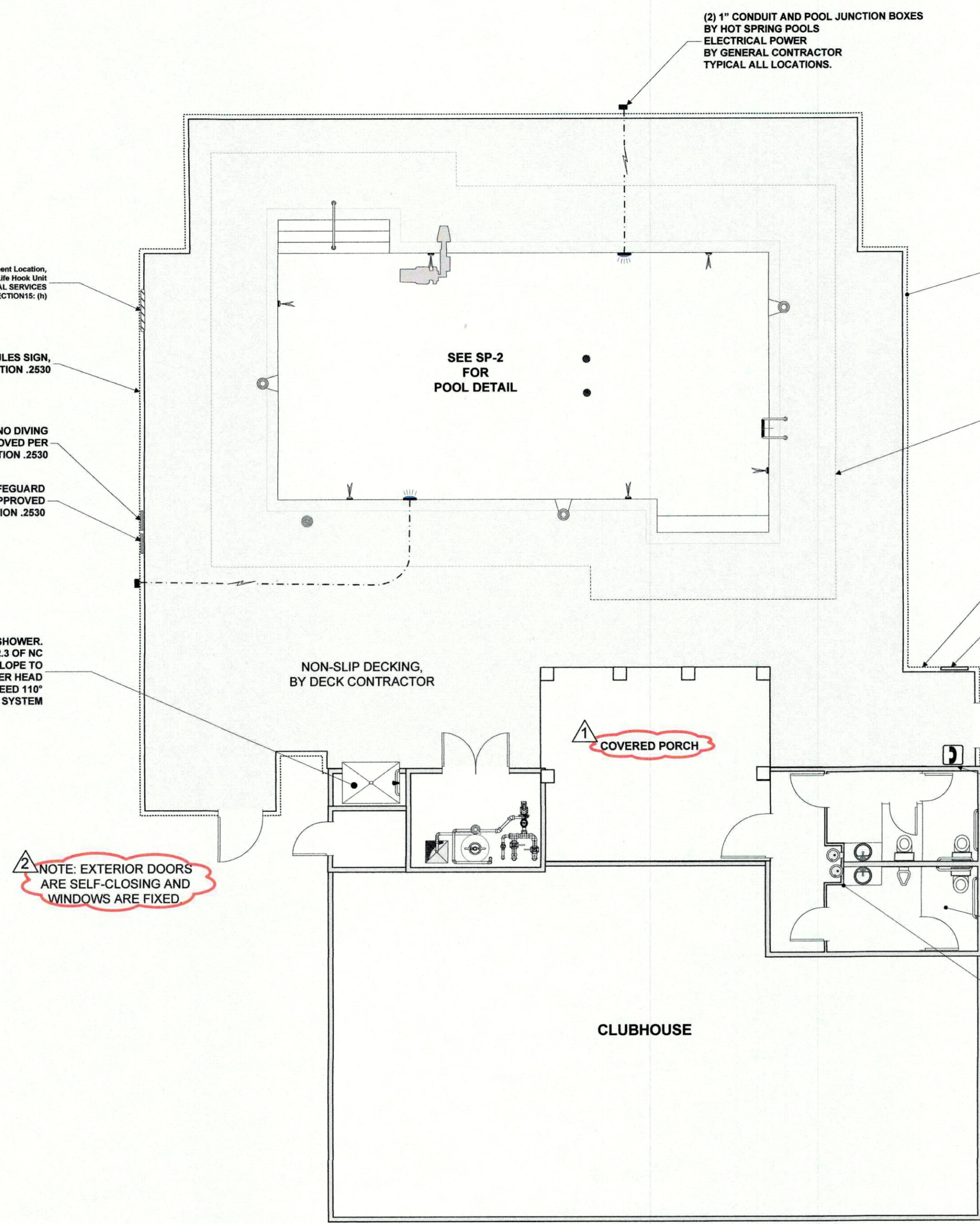
NORTH CAROLINA RULES GOVERNING PUBLIC SWIMMING POOLS  
15A NCAC 18A .2500  
SECTION 15A NCAC 18A .2526 DRESSING AND SANITARY FACILITIES

- (a) Dressing and sanitary facilities shall be provided at all pools, except for pools at hotels, motels, condominiums, and apartments where pool use is restricted to residents or guests. At hotels, motels, condominiums and apartments where the farthest unit is more than 300 feet from the pool, as measured along walkways provided for access by residents or guests to the pool area, a toilet and lavatory shall be provided. All public swimming pools shall post a sign visible upon entering the pool enclosures directing pool users to shower before entering the pool.
- (b) Partitions shall be of material, not subject to damage by water and shall be designed so that a waterway is provided between partitions and floor to permit thorough cleaning of the walls and floor area with hoses and brooms.
- (c) Dressing facility floors shall be continuous throughout the areas. Floors shall have a slip-resistant surface that shall be smooth, to insure complete cleaning. Floor drains shall be provided, and floors shall be sloped not less than 1/4 inch per foot toward the drains to insure positive drainage.
- (d) Hose bibs shall be provided such that all parts of the dressing facility interior can be reached with a 50 foot hose.
- (e) The minimum number of fixtures required in dressing and sanitary facilities shall be based upon the maximum bather load.
- (f) One water closet, one lavatory and one urinal shall be provided for the first 100 male users. One additional water closet, lavatory and urinal shall be provided for each additional 200 male users up to a total of 500 users. Where user load exceeds 500 male users, two additional water closets or urinals and one lavatory shall be provided for each additional 250 male users. Where the maximum bather load includes less than 50 male users, one water closet and one lavatory will be sufficient.
- (g) Two water closets and two lavatories shall be provided for the first 100 female users. One additional water closet and lavatory shall be provided for each additional 100 female users up to a total of 500 users. Where user load exceeds 500 female users, two additional water closets and one lavatory shall be provided for each additional 250 female users. Where the maximum bathers load include less than 50 female users, one water closet and one lavatory will be sufficient.
- (h) Showers shall be provided in the proportion of one for each 200 persons at the time of maximum bather load.
- (i) The water heater shall be inaccessible to users. The system shall be designed such that water temperature at the shower heads at lavatories cannot exceed 110° Fahrenheit.
- (j) Soap dispensers with either liquid or powdered soap shall be provided at each lavatory or required shower. The dispenser shall be of all metal or plastic type, with no glass permitted in these units.
- (k) If mirrors are provided, they shall be of shatterproof materials.
- (l) Toilet paper holders with toilet paper shall be provided at each water closet.
- (m) Dressing and sanitary facilities shall be kept clean and in good repair.

BY GENERAL CONTRACTOR

NOTE:  
ADA LIFT BATTERY CHARGING LOCATION TO BE LOCATED IN CLUBHOUSE.  
• ACCESS MUST REMAIN AVAILABLE DURING POOL HOURS  
• IT CAN NOT BE LOCATED IN A LOCKED ROOM  
• IT CAN NOT BE LOCATED STORAGE ROOM OR ANY LOCATION WHERE THERE ARE CAUSTIC CHEMICALS.

NOTES:  
EGRESS GATES/DOORS CANNOT USE LOCKS THAT REQUIRE SPECIAL KNOWLEDGE OR USE OF KEYS/KEYCARDS, MUST BE READILY ACCESSIBLE FOR IMMEDIATE EXIT.  
PANIC HARDWARE MUST BE PROVIDED ON EGRESS DOORS PER SECTION 1008.1.9 #3 NC. BUILDING CODE  
GATES/DOORS ARE REQUIRED TO SWING IN THE DIRECTION OF THE EGRESS. IBC 1014.2.1  
EXIT ACCESS GATES/DOORS ARE REQUIRED TO BE SEPARATED AT LEAST 1/2 THE LENGTH OF THE OVERALL DIAGONAL DIMENSION OF THE AREA SERVED. IBC 1014.2.1  
ACCESS/EGRESS SURFACE AREA BETWEEN THE BUILDING AND PUBLIC WAY IS REQUIRED TO BE STABLE, FIRM AND SLIP RESISTANT. ANSI 117.1.302.1 & IBC 1104.1  
GROUND LEVEL DOORS AND WINDOWS OPENING INSIDE THE POOL ENCLOSURE MUST BE SELF-CLOSING AND SELF LATCHING OR CHILD PROTECTED BY MEANS OF A BARRIER OR AUDIBLE ALARM. PER SECTION 3109.4.1.8.3 OF 2006 IBC, TYP. ALL LOCATIONS  
AS APPLICABLE, ALL GLAZING SURROUNDING INDOOR POOL, POOL RESTROOMS, AND POOL SHOWER SHALL MEET SECTION 2408.3  
BY GENERAL CONTRACTOR



OVERVIEW  
1/8" = 1'-0"

POOL ENCLOSURE  
PER NC DENR, DEH ENVIRONMENTAL HEALTH SERVICES, SECTION 15A NCAC 18A.2528  
SEE SPECIFICATIONS LISTED ON SP-8  
BY GENERAL CONTRACTOR

6'-0" CLEAR UNOBSTRUCTED SPACE  
ANY FURNITURE OR PLANTERS AND OTHER LANDSCAPING WITHIN THE POOL ENCLOSURE SHALL NOT INFRINGE ON THE REQUIRED MINIMUM 6 FEET OF CLEAR WALKING SPACE ALL THE WAY AROUND THE PERIMETER OF THE POOL PER NC DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH RULES AND REGULATIONS, 15A NCAC 18A.2522 (a)

(1) HOSE BIBB  
SUPPLIED FROM COMMON LINE  
SEE EQUIPMENT ROOM DETAIL  
BY GENERAL CONTRACTOR

(1) "SHOWER BEFORE ENTERING" SIGN  
N.C. APPROVED PER SECTION .2530

ALL GATES/DOORS SHALL BE EQUIPPED WITH SELF-CLOSING AND POSITIVE SELF-LATCHING CLOSURE MECHANISMS AND SHALL BE EQUIPPED WITH LOCKING DEVICES. RELEASE OF LATCH ON THE SELF-LATCHING DEVICE SHALL BE ACTIVATED BY CARD READER, KEY OR COMBINATION LOCK. TYP. ALL LOCATIONS, SEE EGRESS NOTES

EMERGENCY PHONE,  
WIRING PER N.C. SECTION .2530(f). SEE NOTE  
BY GENERAL CONTRACTOR

NOTE:  
DRESSING AND SANITARY FACILITIES  
PER NC DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH RULES AND REGULATIONS - SEE NOTE  
BY GENERAL CONTRACTOR

DRINKING FOUNTAIN,  
BY GC

CONTACT INFORMATION	
GENERAL CONTRACTOR	
Classic Construction	
Project Manager	Robin Yaun 336-669-7651
Site Supervisor	TBD
POOL CONTRACTOR	
Hot Springs Pools	
	Robbie Elias
OWNER	
Shipyard Village Wilmington, LLC	
PO BOX 29169	
Greensboro, NC 27429-9169	

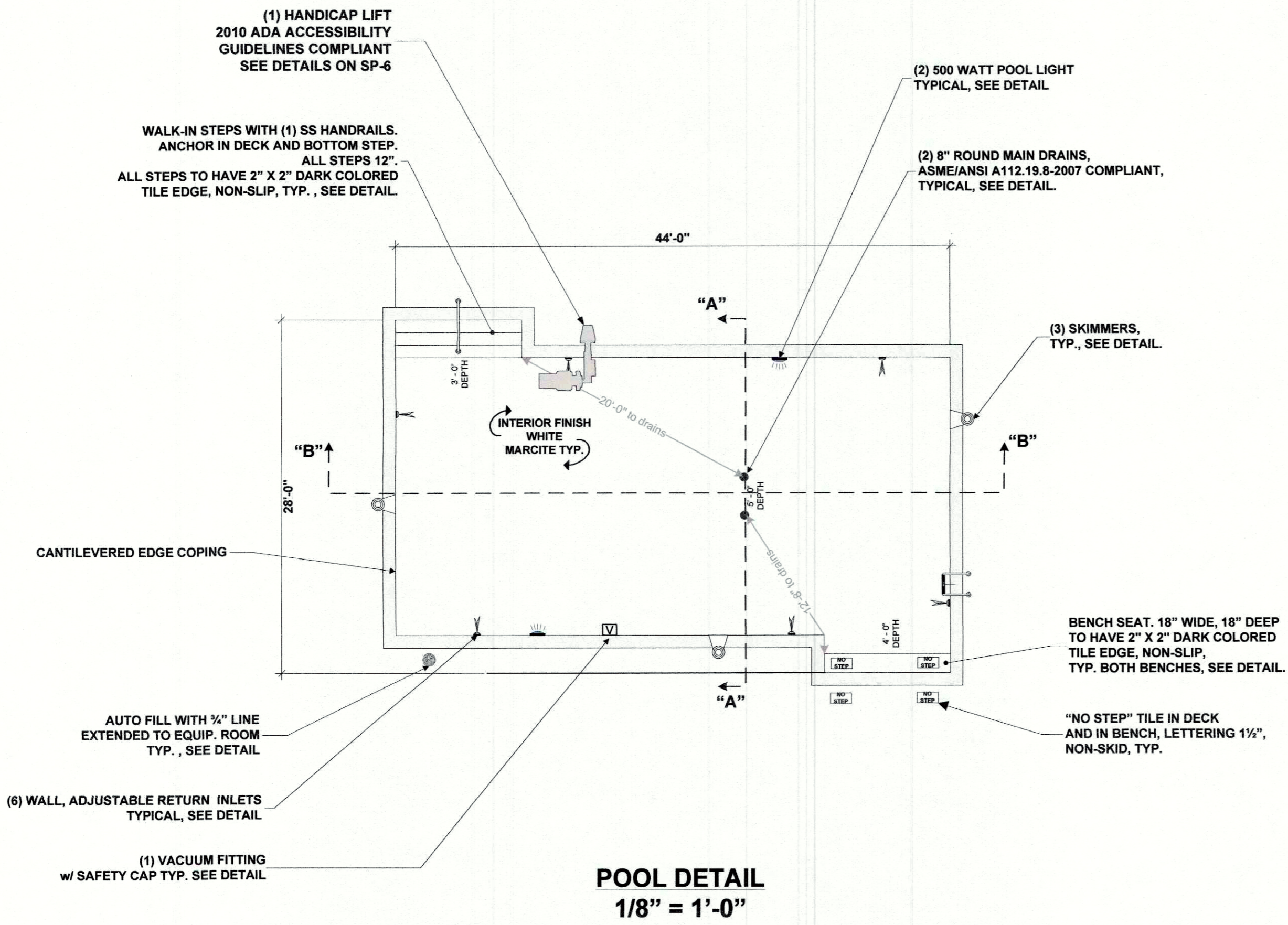
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NOTE:  
TO AVOID ENTRAPMENT, ALL SUCTION OUTLETS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ANSI/APSP-7

NOTE:  
ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTION AND SPECIFICATIONS

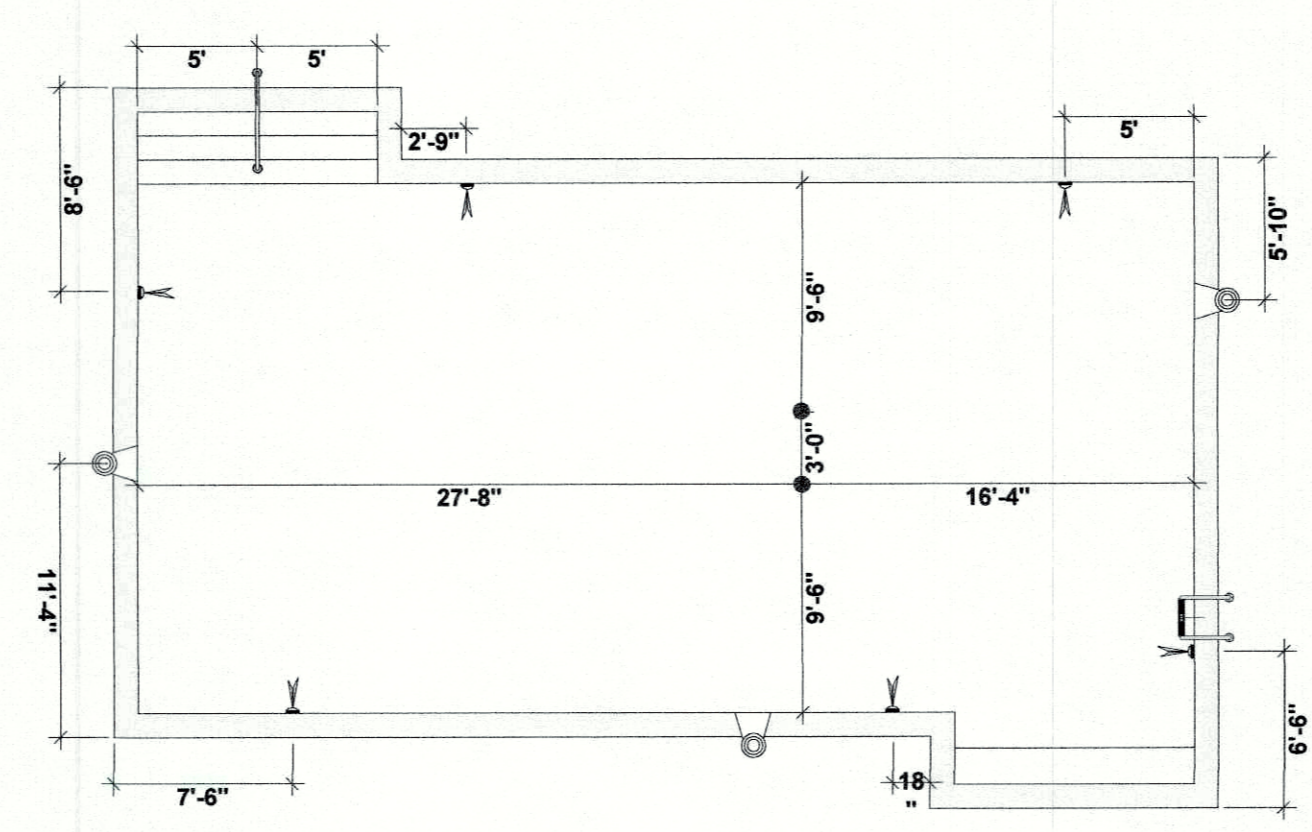
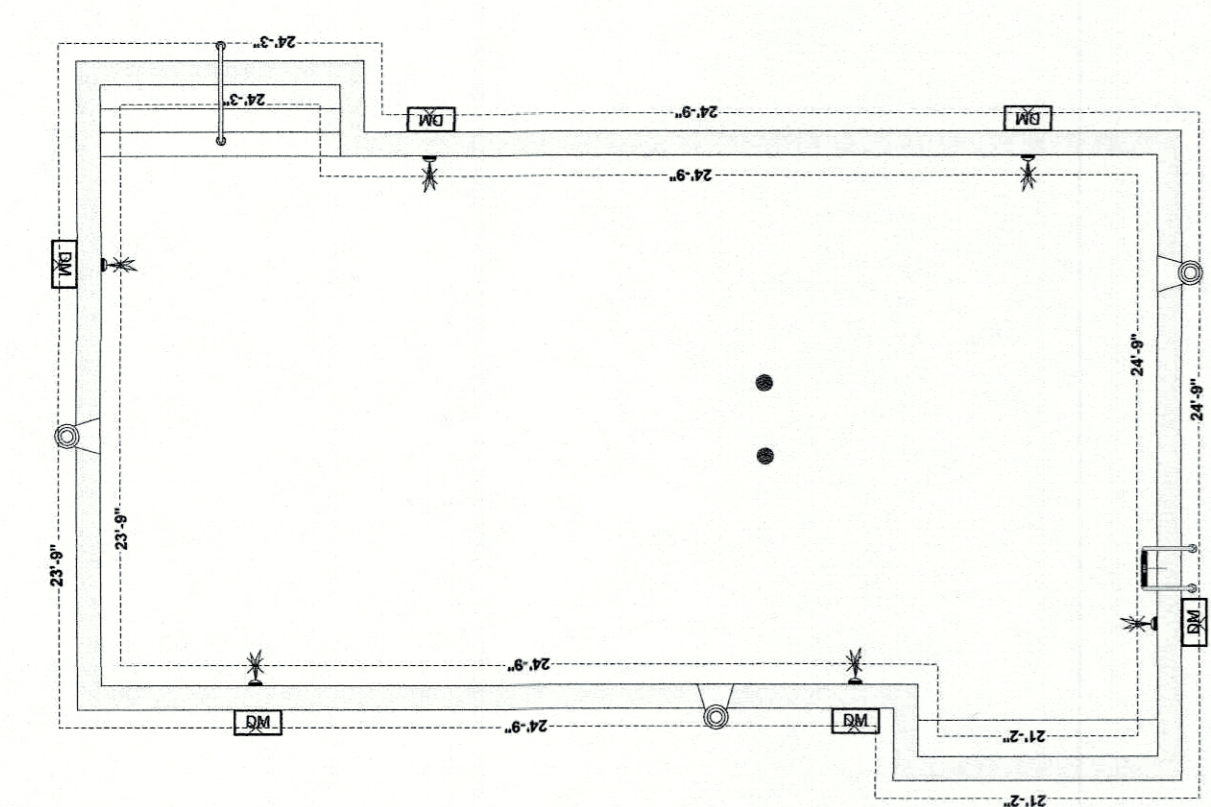
**POOL LEGEND**

- SKIMMER
- MAIN DRAIN
- RETURN FITTING
- VACUUM FITTING
- DEPTH MARKER **NO DIVING TYP.**
- AUTOMATIC FILL
- FLOOR INLET



**DM**

NOTE:  
DETAIL IS DESIGNED FOR PLACEMENT WITHIN CODE REGULATIONS. DEPTH AND SLOPE ARE INCLUDED ON PLANS. POOL DEPTH IS MEASURED IN THE FIELD AND THE MARKERS ARE SET TO THE CLOSEST 1/4 FOOT.



NOTE:  
"NO DIVING" TILES MUST BE 4" LETTERS

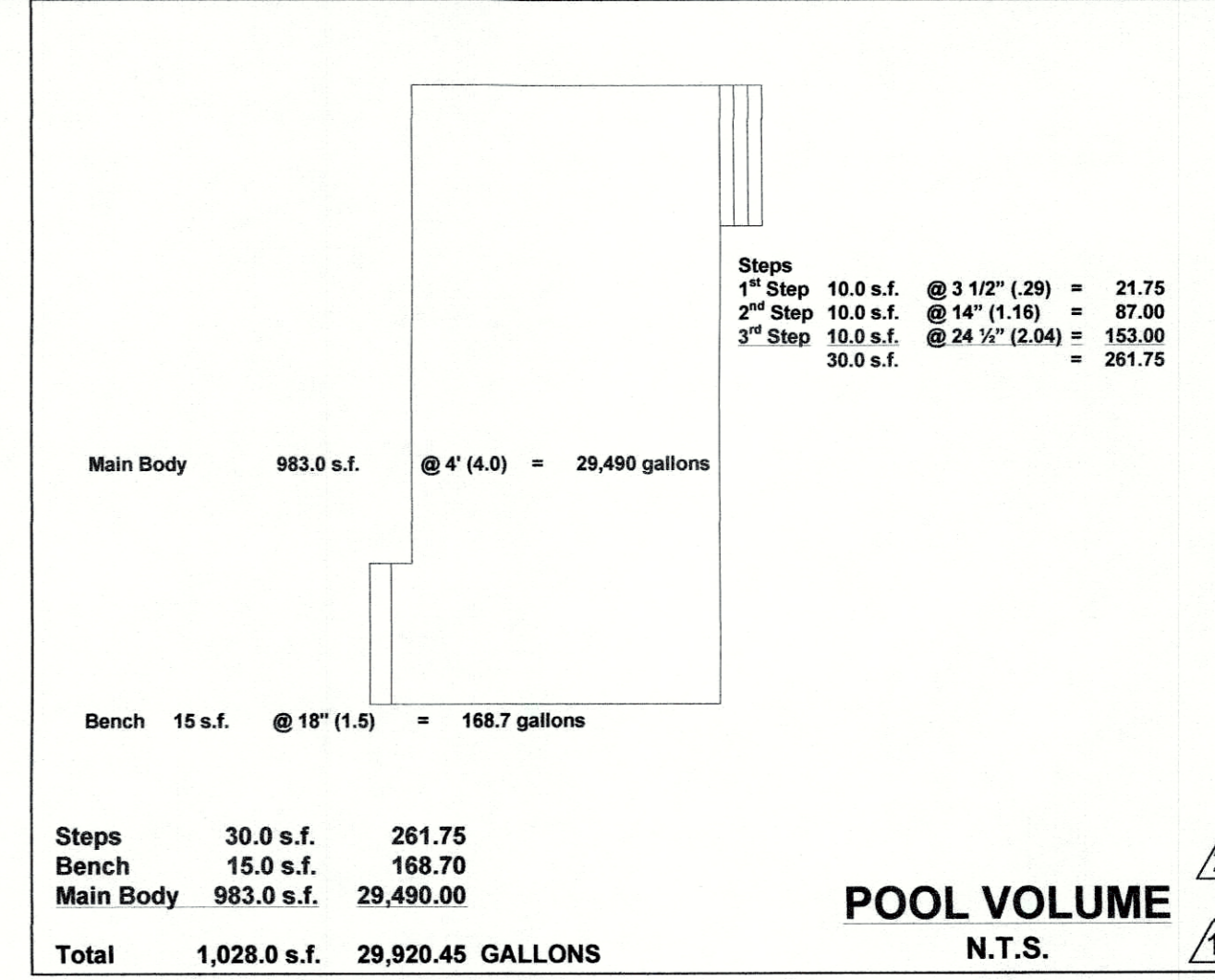
NOTE:  
DIMENSIONS ARE MEASURED BY FOLLOWING POOL WALL PERIMETER

DEPTH MARKER PLACEMENT  
1/8" = 1'-0"

RETURN PLACEMENT  
1/8" = 1'-0"

RETURN LAYOUT  
1/8" = 1'-0"

NOTE:  
OUTDOOR SEASONAL POOL  
NOT DESIGNED FOR NIGHT SWIMMING  
HOURS OF OPERATIONS FROM DAWN TO DUSK  
APRIL 1 UNTIL OCTOBER 31



IBC SPECIFICATIONS		SPECIFICATIONS-N.C. COMMERCIAL POOL	
POOL & DECK EGRESS TABLE		SURFACE AREA:	1,028 S.F.
POOL SURFACE AREA:	1,028 S.F.	PERIMETER:	144 L. F.
POOL LIMIT: 1 PER 50 S.F.	20 PERSONS	POOL VOLUME:	29,920 GALLONS
TOTAL DECK AREA	2,726 S.F.	REQUIRED TURN-OVER RATE:	83.1 GPM
DECK LIMIT: 1 PER 15 S.F.	181 PERSONS	DESIGN TURN-OVER RATE:	84 GPM
		POOL LIMIT:	68 PERSONS
		POOL DECK AREA	2,726 S. F.

POOL - EQUIPMENT SCHEDULE			
QTY	DESCRIPTION	MODEL	MANUFACTURER
2	StarGuard® 8" Round Main Drain, Anti-Entrapment Suction Outlet Cover with Sump, Open Area 15.35 sq. in., Flow Rate: Floor 144 GPM, VGB compliant (ASME/ANSI A112.19.8a-2008)	500120	PENTAIR
2	Hydrostatic Relief Valve	SP-1057	HAYWARD
3	Bermuda™ Gunite Skimmer, NSF rated @ 55 gpm (28.0 GPM ea.)	506370	PENTAIR
6	Adjustable Directional Flow Wall Inlets (14.0 GPM ea.)	SP-1419D	HAYWARD
2	Amerlite® Incandescent Light with SS Face Ring, 500 Watt, 120 volt	78456100	PENTAIR
2	Large Stainless Steel Niche	78210500	PENTAIR
1	Automatic Water Level Controller with Fluidmaster Valve	T40FW	PENTAIR
POOL FILTRATION			
QTY	DESCRIPTION	MODEL	MANUFACTURER
1	Trilon Sand Filter (98 GPM)	TR100C	PENTAIR
1	2" Multi-Port Valve	261050	PENTAIR
1	2 HP Challenger®, Single Speed, High Pressure Pump & Motor, (84 gpm @ 65' TDH)	CFII-NI-2F	PENTAIR
1	2" Inline Flowmeter	F30200	BLUE & WHITE
1	Saline System	CHLOR3.0MSM	CHLORKING
1	Chlorine Erosion Feeder, Rainbow, capable of 67 pounds per day	HC-3315	Pentair
1	Spare Pump Strainer Basket	353318	PENTAIR
1	Spare Skimmer Basket	355901	PENTAIR
1	Vacuum Fitting	SP1022	HAYWARD
1	Vacuum Cover	W400BWHP	HAYWARD
DECK EQ			
QTY	DESCRIPTION	MODEL	MANUFACTURER
1	4" handrail, 1.90" OD x .065 wall, 304 Stainless Steel Tube, Polished and buffed, salt friendly	3HR-4-065 - MG	SRSMITH
1	24" Ladder, 1.90" O.D x .065 wall, 304 Stainless Steel Tube, Polished and buffed Finiswith 3 Non-Slip Treads, Salt Friendly	LF-24-3B - MG	SRSMITH
1	ADA LIT	575-000	SRSMITH
4	4" Cast Bronze Anchor Socket with Cast Bronze Wedge Assembly	IAS-100	SRSMITH
4	Oblong Escutcheon, with Set Screw	IEP-100	SRSMITH
2	Junction Box	783107	PENTAIR
As req	"No-Diving" Tile		Tile Specialties
As req	"No-Step" Tile		Tile Specialties
As req	Depth Markers - 3 - 5ft (spacing per NC specs.)		Classic
MAINTENANCE EQUIPMENT			
QTY	DESCRIPTION	MODEL	MANUFACTURER
1	Hand Skimmer, Solid Aluminum Rod	R121196	Pentair
1	Curved - Aluminum Back 18" Wall Brush	R111316	Pentair
1	ProVac 14" Gunite Flex Vacuum Head	R201276	Bio-Lab
1	1 1/2" X 30' Vacuum Hose	25918	Bio-Lab
1	8' - 16' Metal Cam Telescopic Pole	32062	Taylor
1	Saline Test Kit		
1	Service Complete Test Kit	1766	LaMotte
SAFETY EQUIPMENT			
QTY	DESCRIPTION	MODEL	MANUFACTURER
1	US Coast Guard Approved Ring Buoy, 20" diameter with / 50' Max. Throwing Line	R221028, R221030 and R191116	Pentair
1	Safety Pool Hook Permanently Attached to 12' Straight Pole	R234100	Pentair
1	POOL RULES Sign - NC Approved	R235300	Pentair
1	"WARNING NO LIFEGUARD ON DUTY" Sign-NC Approved	R233800	Pentair
1	"SHALLOW WATER NO DIVING" Sign-NC Approved		Pentair
1	"SHOWER REQUIRED" Sign - NC Approved		Pentair

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RUSSELL R. PRINCE P.E.  
436 Rocky Slope Rd., Greenville, SC, 29607  
OFFICE: (864) 627-4260 FAX: (864) 627-4260

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719 Galley Lane Wilmington NC 28412  
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Since 1989  
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578 WOODRUFF ROAD  
GREENVILLE, SC 29607

DRAWN BY:  
RBH

CHECKED BY:  
RRP

DATE:  
7-14-17

SCALE:  
AS NOTED

POOL DETAIL  
SP - 2

NOTE:  
ARCHITECT, ENGINEER OR GENERAL  
CONTRACTOR RESPONSIBLE FOR CONFIRMING  
LOCATION OF POOL AND ALL CLEARANCES,  
SETBACKS AND/OR EASEMENTS.

NOTE:  
DIMENSIONS ARE TO THE  
BACK OF 12" BEAM

RUSSELL R. PRINCE P.E.  
436 Rocky Slope Rd., Greenville, SC, 29607  
OFFICE: (864) 627-4260 FAX: (864) 627-4260

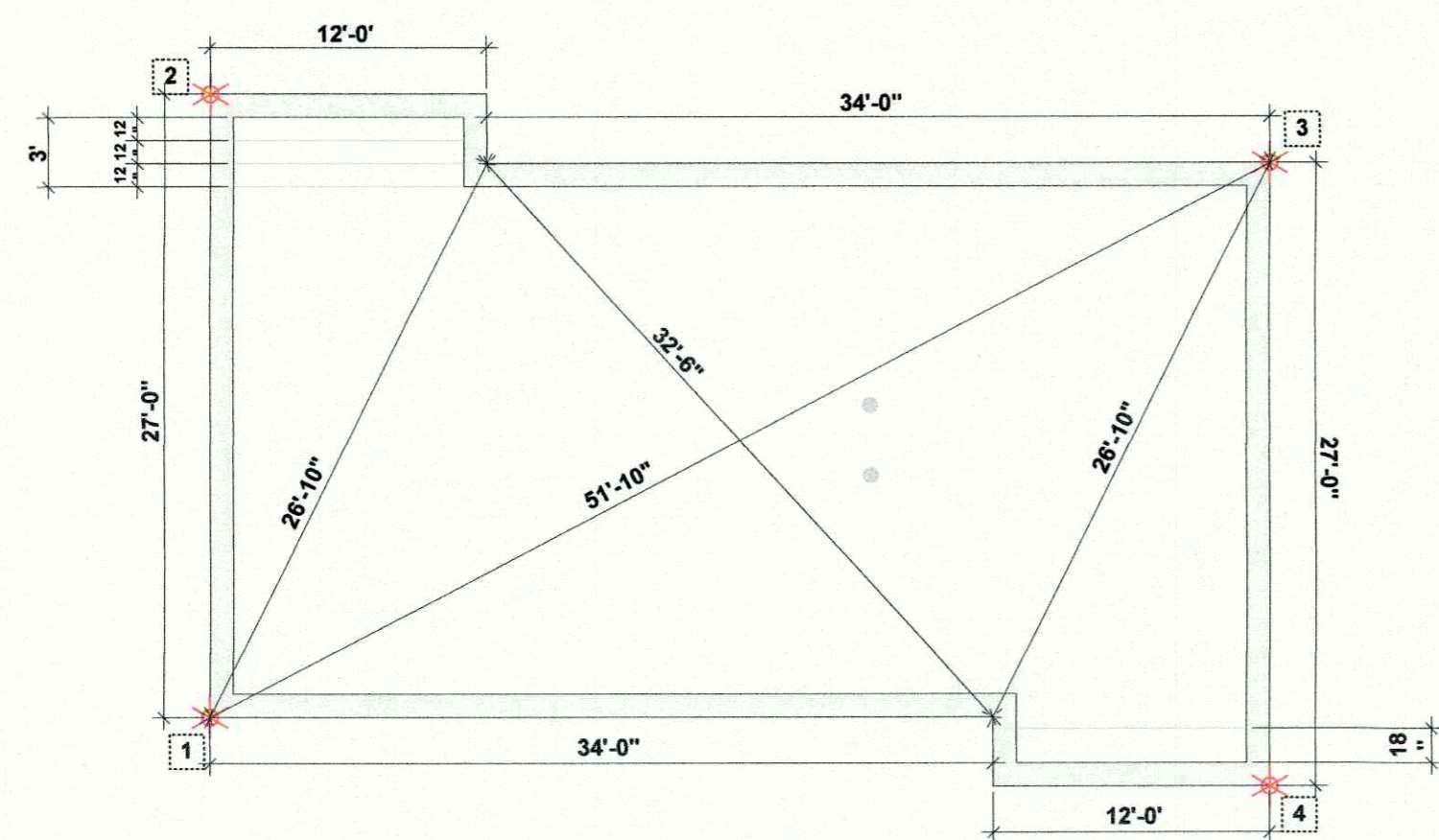


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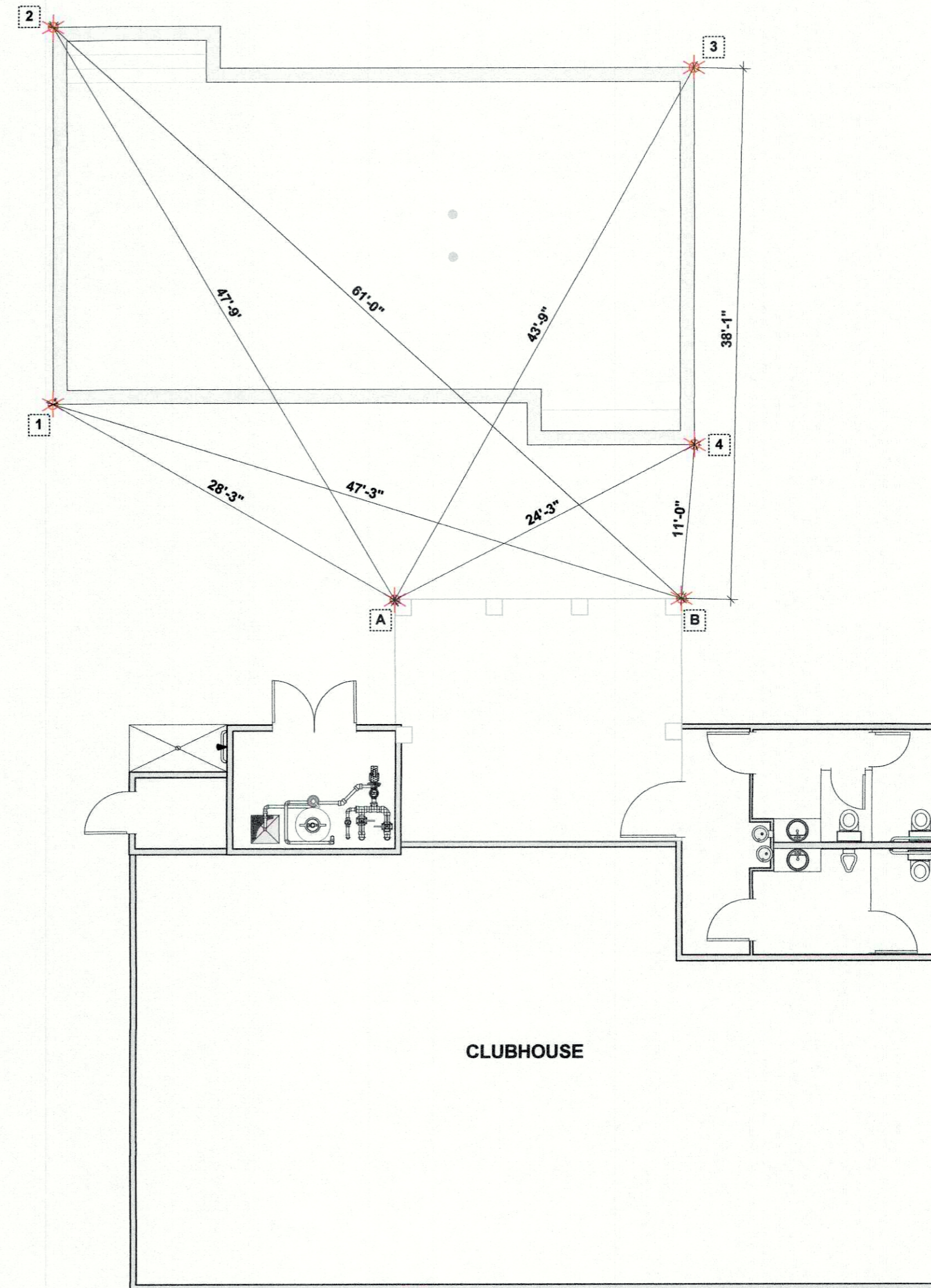
REVISIONS

REVISOR: [Signature]  
DATE: 10-11-17  
REVISION: REVISED PER NEW HANOVER COUNTY 10-11-17

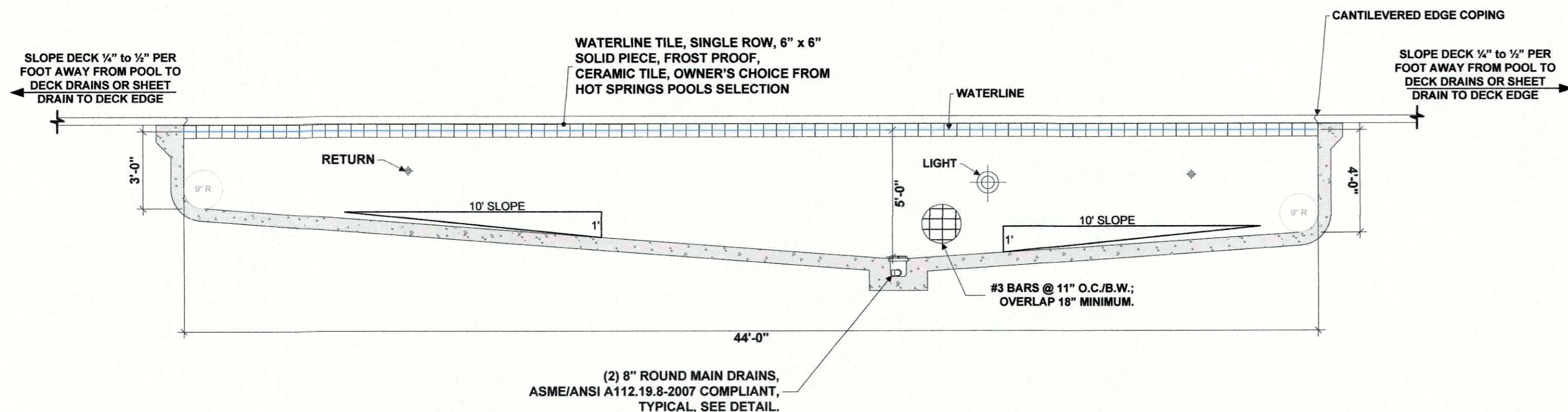
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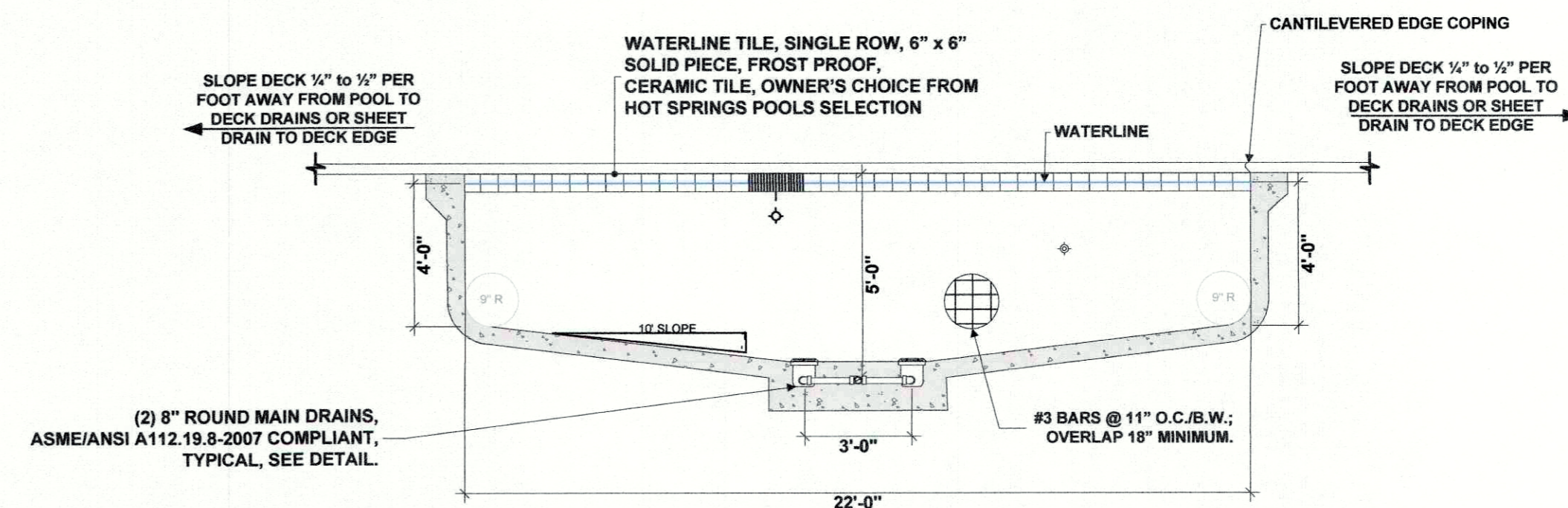
**POOL LAYOUT - DETAIL B**  
1/8" = 1'-0"



**POOL LAYOUT - DETAIL A**  
1/8" = 1'-0"



**SECTION "B - B"**  
1/4" = 1'-0"



**SECTION "A - A"**  
1/4" = 1'-0"

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DRAWN BY:  
RBH  
CHECKED BY:  
RRP  
DATE:  
7-14-17  
SCALE:  
AS NOTED  
POOL LAYOUT & SECTIONS  
**SP - 3**



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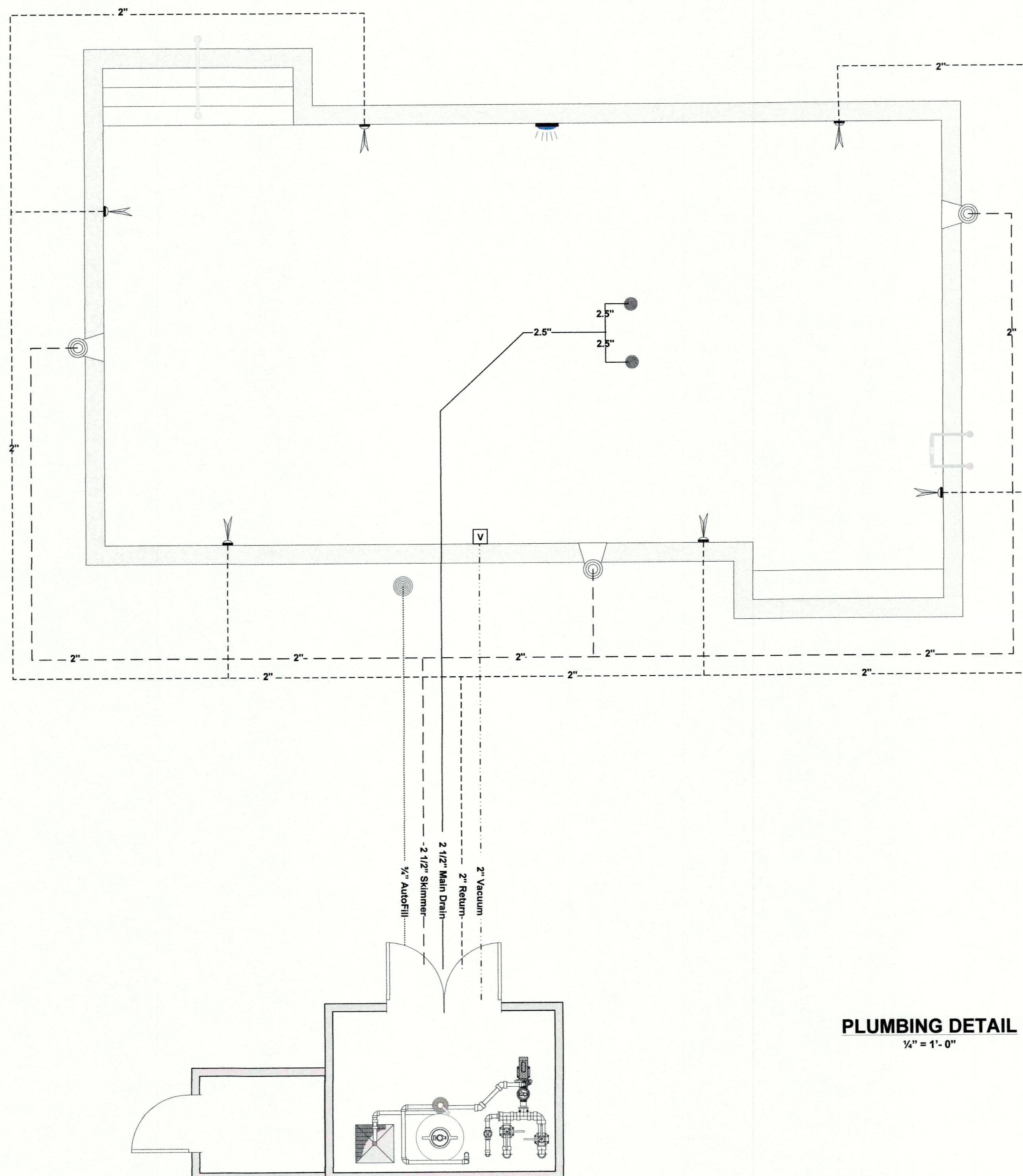
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 For  
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 719 Galley Lane Wilmington NC 28412  
 Wilmington, NC

**HOT SPRINGS POOLS & SPAS**  
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DRAWN BY:  
 RBH  
 CHECKED BY:  
 RRP  
 DATE:  
 7-14-17  
 SCALE:  
 AS NOTED

POOL PLUMBING & SECTIONS  
**SP - 4**



**PLUMBING DETAIL**  
 1/4" = 1'-0"

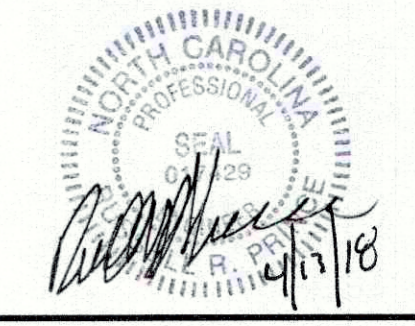
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**REVISIONS**

2	REVISED PER NEW HANOVER COUNTY 12-7-17
1	REVISED PER NEW HANOVER COUNTY 10-11-17

NEW OUTDOOR COMMERCIAL POOL PLANS  
For  
**Shipyard Village**  
719 Galley Lane Wilmington NC 28412  
Wilmington, NC

**HOT SPRINGS POOLS & SPAS**  
Since 1989  
578 WOODRUFF ROAD  
GREENVILLE, SC 29607  
(864) 676-9400 (TELEPHONE)  
(864) 329-1548 (FAX)

DRAWN BY:  
RBH  
CHECKED BY:  
RRP  
DATE:  
7-14-17  
SCALE:  
AS NOTED  
**EQUIPMENT ROOM LAYOUT  
SP-5**

**NOTE:**  
ALL ELECTRICAL CIRCUITS WITHIN THE POOL AREA ARE TO BE PROVIDED WITH GROUND-FAULT-INTERRUPTERS (GFI).  
THE POOL AREA IS DEFINED AS THE FENCED IN AREA INCLUDING THE TOILET FACILITIES, EQUIPMENT ROOM, CHEMICAL STORAGE, ETC.

**NOTE:**  
EQUIPMENT ROOM IS FOR RECIRCULATION SYSTEM EQUIPMENT ONLY AND STORAGE OF ANY OTHER MATERIAL OR EQUIPMENT IS PROHIBITED.  
ONLY CHEMICALS USED IN THE OPERATION OF THE POOL SHALL BE STORED IN THE CHEMICAL ROOM.

**NOTE:**  
PER SECTION 2534  
A SEPARATE ROOM FOR STORAGE OF POOL CHEMICALS MUST BE PROVIDED.  
MINIMUM REQUIRED STORAGE SPACE 12 S.F.  
PROVIDED STORAGE SPACE 32.5 S.F.  
ONLY CHEMICALS USED IN THE OPERATION OF THE POOL SHALL BE STORED IN THE CHEMICAL ROOM.

FIELD LOCATE ALL EQUIPMENT TO PROVIDE 3 FOOT SERVICE CLEARANCE PER NC REGULATIONS

**MINIMUM ROOM SIZE CALCULATIONS  
CHEMICAL ROOM**

POOL VOLUME	29,920
5 S.F.	1ST 10,000
	19,920
6 S.F.	+ 3,000 GALLONS 18,000
1 S.F.	BALANCE GALLONS 1,920
12 S.F.	MIN. REQ. STORAGE SPACE

**VENTING REQUIREMENTS**

EQUIPMENT ROOM VOLUME:	892 CF
EQUIPMENT ROOM EXHAUST:	149 CFM FAN
CHEMICAL ROOM VOLUME:	293 CF
CHEMICAL ROOM EXHAUST:	48 CFM FAN

**VENTILATION CALCULATIONS  
POOL EQUIPMENT ROOM**

11'-8" X 8'-6"	
11'-65" X 8'-5"	99.11
9' CEILING HEIGHTS	x 9
CUBIC FEET	891.90
MINUS CHEM. ROOM	n/a
	891.90
10 AIR CHANGES PER HOUR	= 6
EQUIPMENT ROOM EXHAUST	148.7 CFM FAN

**CHEMICAL ROOM**

5'-0" X 6'-6"	
5'-0" X 6'-5"	32.5
9' CEILING HEIGHTS	x 9
CUBIC FEET	292.5
10 AIR CHANGES PER HOUR	= 6
CHEMICAL ROOM EXHAUST	48.75 CFM FAN

**EQUIPMENT & CHEMICAL ROOMS EXHAUST FANS**  
EXHAUST FANS SIZED FOR 10 AIR CHANGES/HOUR VENT TO ROOF AND AWAY FROM POOL AREA.  
NATURAL OF FORCED AIR VENTILATION IS REQUIRED. CROSS DRAFT VENTILATION IS RECOMMENDED.  
FANS MUST BE WIRED TO OPERATE CONTINUOUSLY. DO NOT WIRE FAN WITH LIGHT SWITCH.  
THE ABOVE BY GENERAL CONTRACTOR

TO ENSURE PROPER VENTILATION OF EQUIPMENT AND CHEMICAL ROOMS IN ADDITION TO THE EXHAUST FANS THE DOORS MAY NEED TO BE PROVIDED WITH LOUVERS BY GENERAL CONTRACTOR

**NOTE:**  
ALL PIPING IN PUMP/EQUIPMENT ROOM SHALL BE SCH 40 PVC, 2" LINE SIZE UNLESS NOTED OTHERWISE.  
VALVES SHALL BE PERMANENTLY TAGGED AND VALVE OPERATION INSTRUCTIONS AND SCHEDULE SHALL BE PERMANENTLY POSTED ON EQUIPMENT ROOM WALL IN WATERPROOF ENCLOSURE.

**EQUIPMENT ROOM NOTES:**

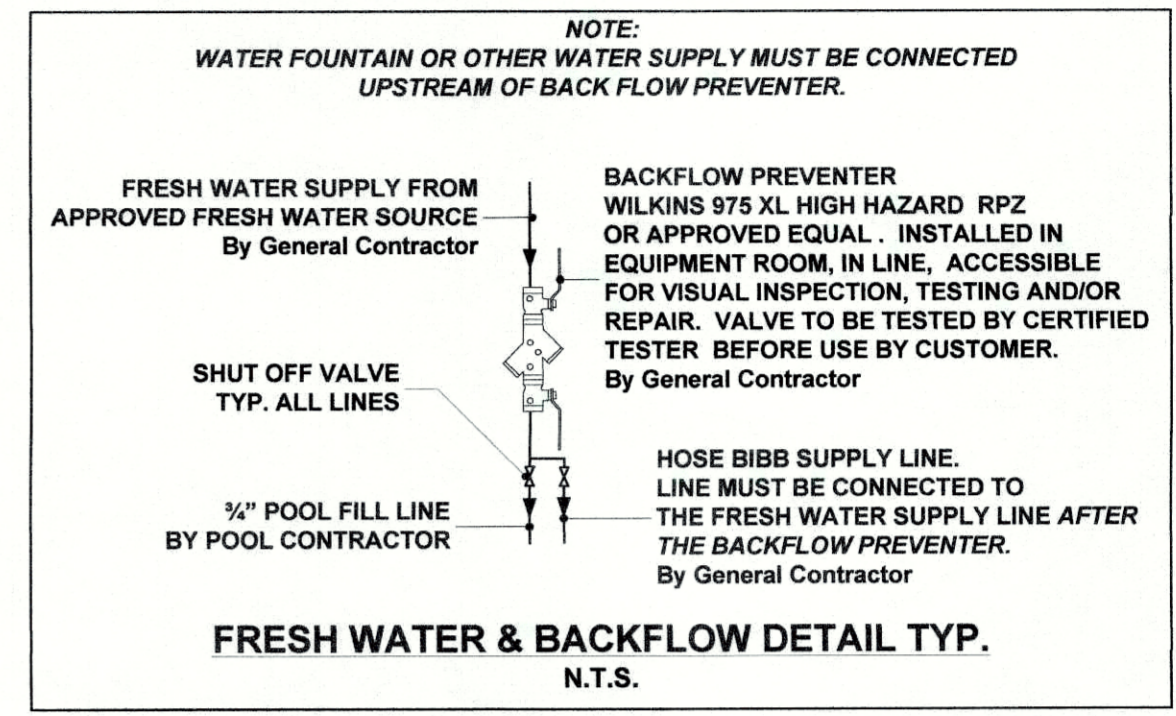
- FLOOR DRAIN SHALL BE CONNECTED TO SANITARY SEWER SYSTEM
- AN ON/OFF SWITCH SHALL BE PROVIDED WITHIN ARMS LENGTH OF EACH PUMP. PUMPS SHALL NOT BE ACTIVATED BY PANEL CIRCUIT BREAKER
- LIGHT FIXTURES REQUIRED - MINIMUM EQUIPMENT ROOM - MINIMUM TEN (10) FOOT CANDLES IN ALL AREAS AND ON ALL GAUGES AND VALVES PER NC REGS CHEMICAL STORAGE ROOM - 100 WATTS
- EQUIPMENT AND CHEMICAL STORAGE ROOMS TO HAVE A MINIMUM SEVEN FOOT CEILING HEIGHT

BY GENERAL CONTRACTOR

**EQUIPMENT ROOM LEGEND**

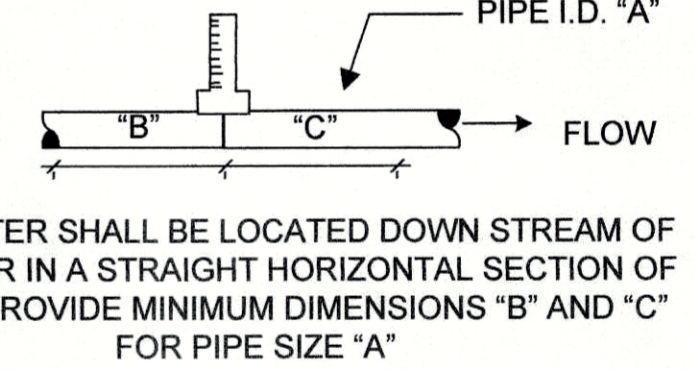
A	Filter with ARV & PI, Typ.
B	MultiPort Valve
C	Circulation Pump & Motor
D	Flowmeter
F	Sight Glass
G	Saline System
H	Erosion Feeder

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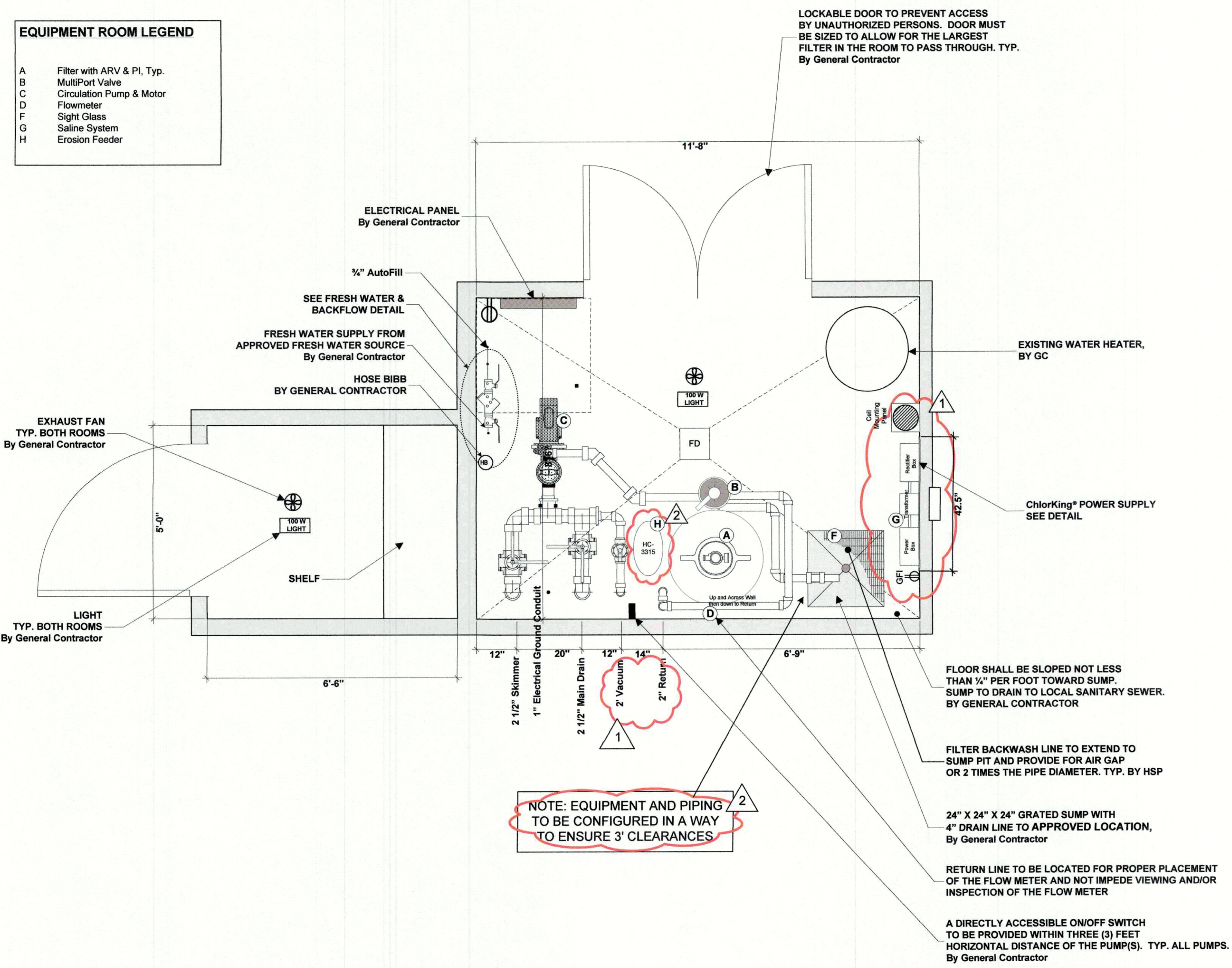


**SCHEDULE**

"A"	"B"	"C"
1 1/2"	15"	6"
2"	20"	8"
2 1/2"	25"	10"
3"	30"	12"
4"	40"	16"
6"	60"	24"
8"	80"	32"



**FLOWMETER DETAIL**  
N.T.S.



EQUIPMENT BONDING PER NEC ARTICLE 680 AND RELEVANT LOCAL ELECTRICAL CODES. COPPER CONDUCTOR NOT LESS THAN 8 AWG

**NOTE:** ALL PUMPS SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC)

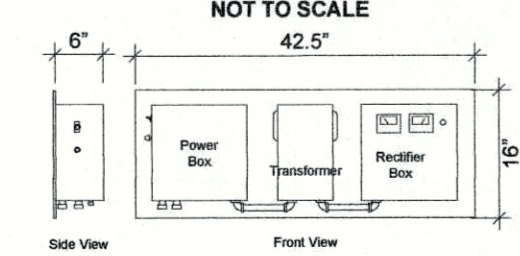
**NOTE:** ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS

**NOTE:**  
ELECTRICAL DATA IS FOR COORDINATION AND INFORMATION ONLY

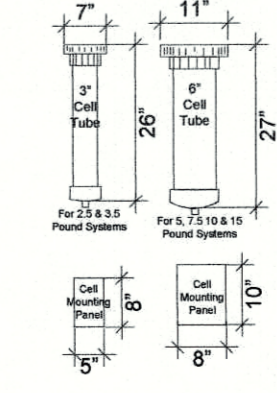
**EQUIPMENT ELECTRICAL REQUIREMENTS**

QTY	DESCRIPTION	VOLTS	FULL LOAD AMPS	SERVICE FACTOR
2	500 Watt Underwater Pool Light	120	4.2	
<b>Pool Filtration</b>				
QTY	DESCRIPTION	VOLTS	FULL LOAD AMPS	SERVICE FACTOR
1	2 HP Challenger CFII-N1-2F	208-230	11.5-11.0	1.3

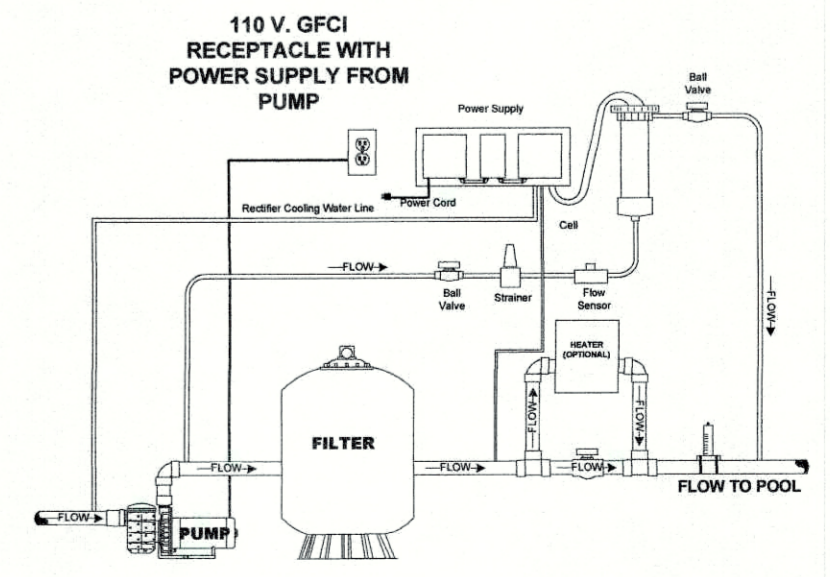
**Power Supply Horizontal-Dimensions**  
2.5, 3.5, 5, 7.5, 10 Pound System  
NOT TO SCALE



**Cell Tube Dimensions**  
NOT TO SCALE



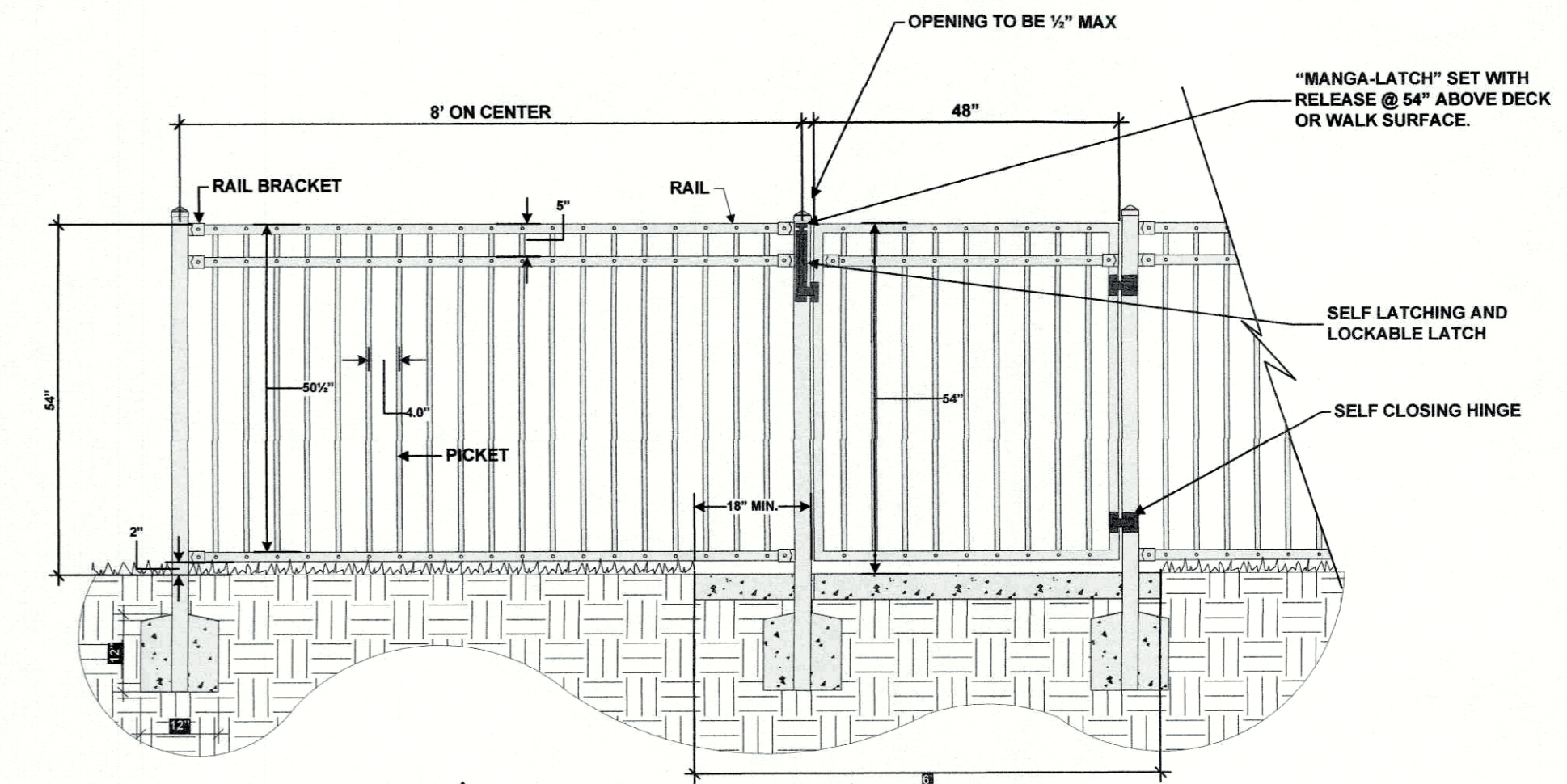
THE SYSTEM MUST BE WIRED TO THE RECIRCULATION PUMP, WHEN THE RECIRCULATION STOPS, THE CELL IS SWITCHED OFF.



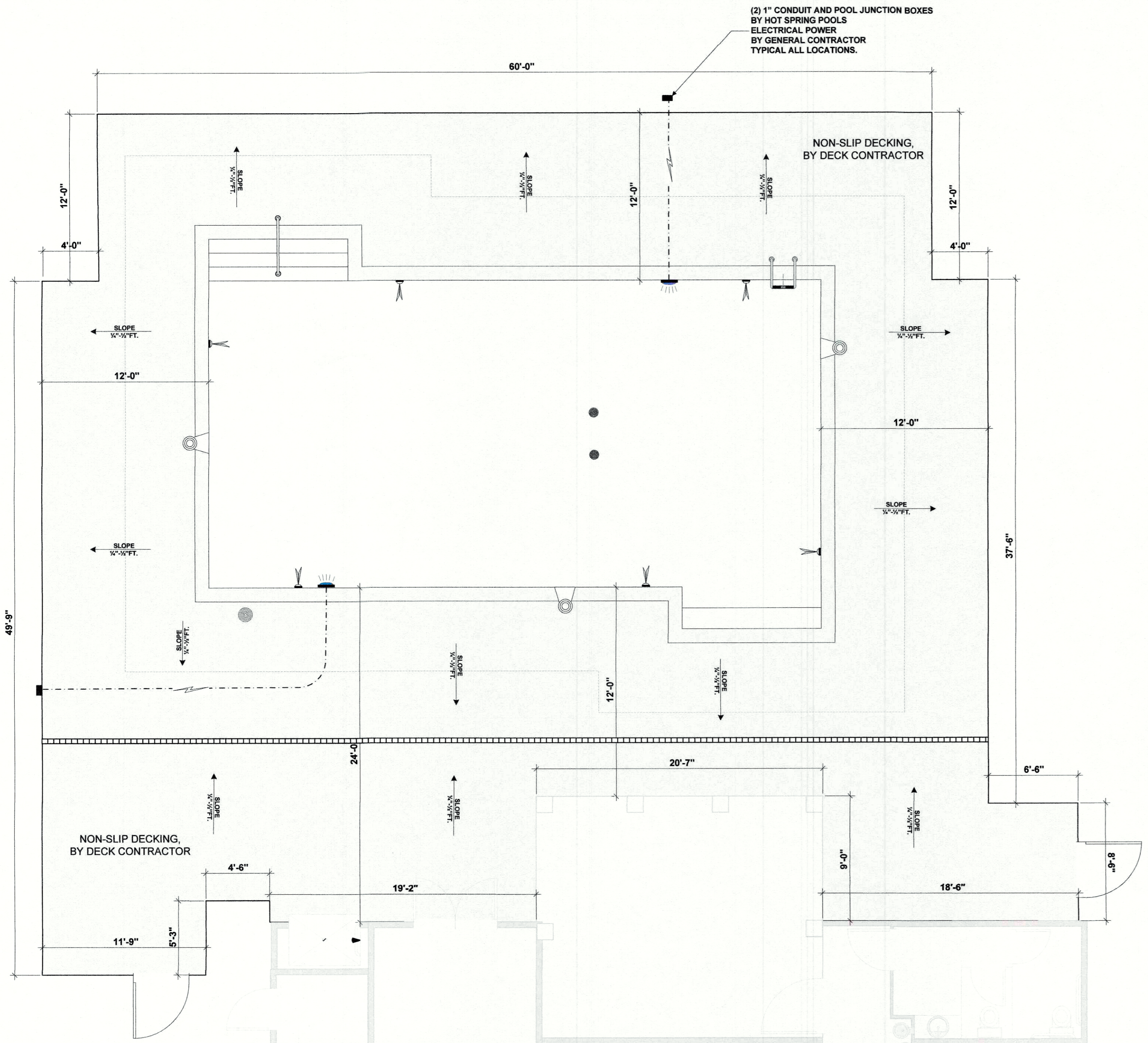


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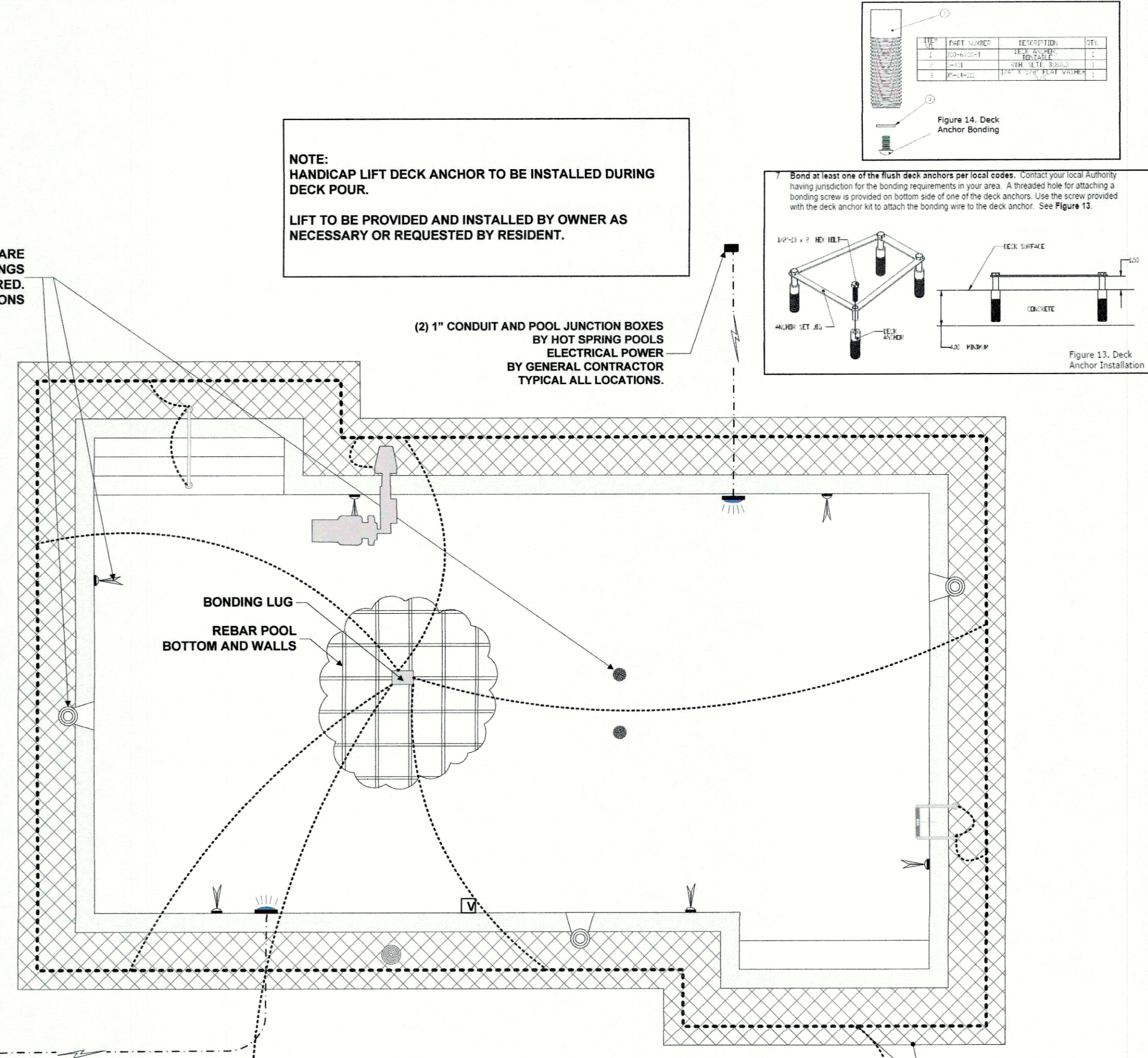
NO.	REVISIONS
1	REVISED PER NEW HANOVER COUNTY 12-7-17
2	REVISED PER NEW HANOVER COUNTY 10-11-17



**FENCE & GATE DETAIL**  
1/4" = 1'-0"



**DECK LAYOUT**  
1/8" = 1'-0"



**TYPICAL POOL BONDING DETAIL**  
N.T.S.

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FENCE BONDING NOT REQUIRED - 3' EQUIPOTENTIAL BONDING GRID DOES NOT COME CLOSE TO THE FENCE

NOTE:  
BATTERY CHARGING LOCATION AND ACCESS MUST REMAIN AVAILABLE DURING POOL HOURS.  
THE BATTERY RECHARGING STATION CAN BE IN CLUBHOUSE/LEASING OFFICE OR OUTDOOR CABINET.  
IT CAN NOT BE LOCATED IN A LOCKED ROOM.  
IT CAN NOT BE LOCATED IN THE POOL EQUIPMENT ROOM, POOL CHEMICAL STORAGE ROOM OR ANY LOCATION WHERE THERE ARE CAUSTIC CHEMICALS.

ALL ELECTRICAL WORK, GROUNDING, AND BONDING SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.

EQUIPMENT BONDING PER NEC ARTICLE 680 AND RELEVANT LOCAL ELECTRICAL CODES. COPPER CONDUCTOR NOT LESS THAN 8 AWG

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DRAWN BY:  
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7-14-17  
SCALE:  
AS NOTED  
DECK BONDING  
**SP - 6**



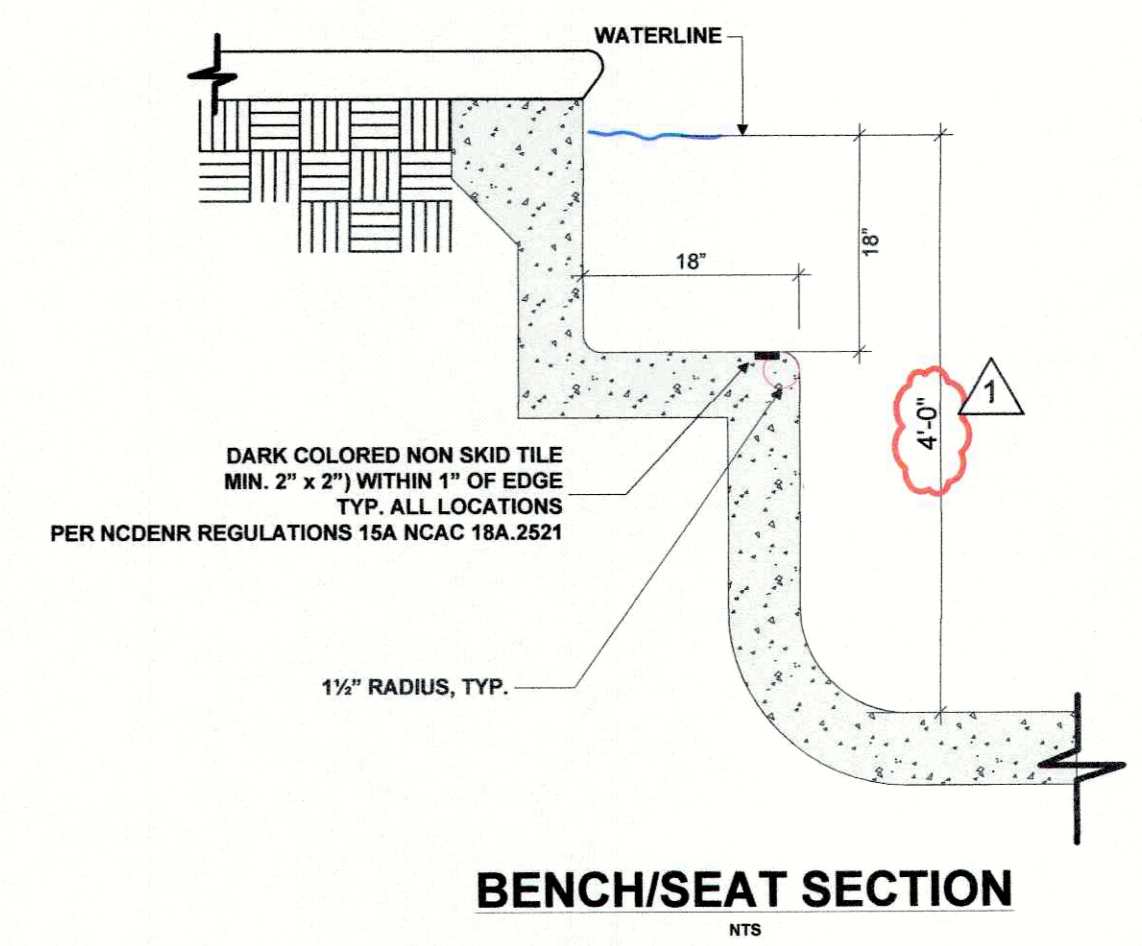
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REVISIONS	
1	REVISED PER NEW HANOVER COUNTY 10-11-17

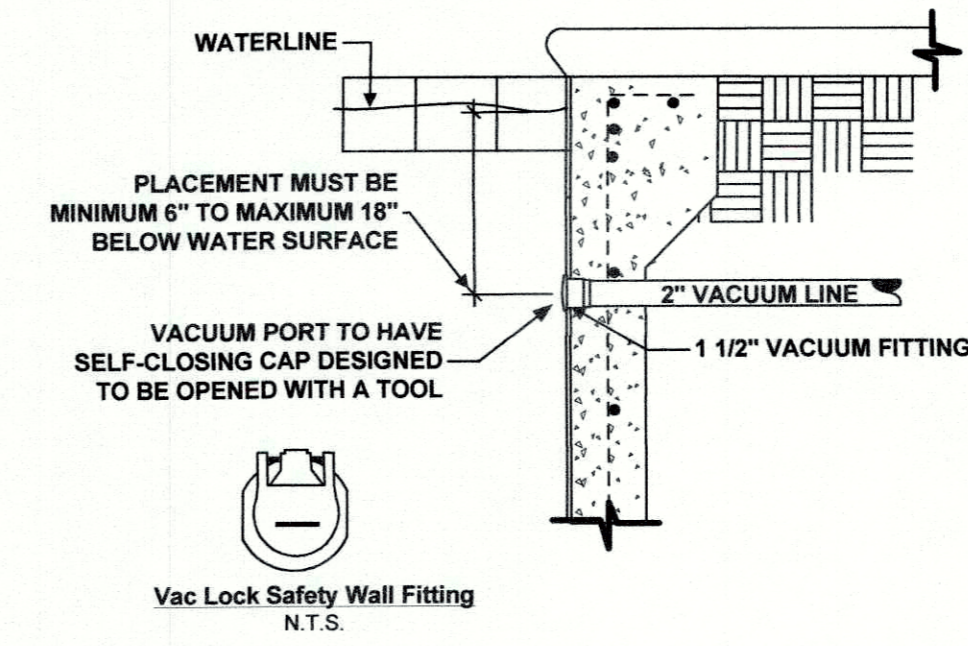
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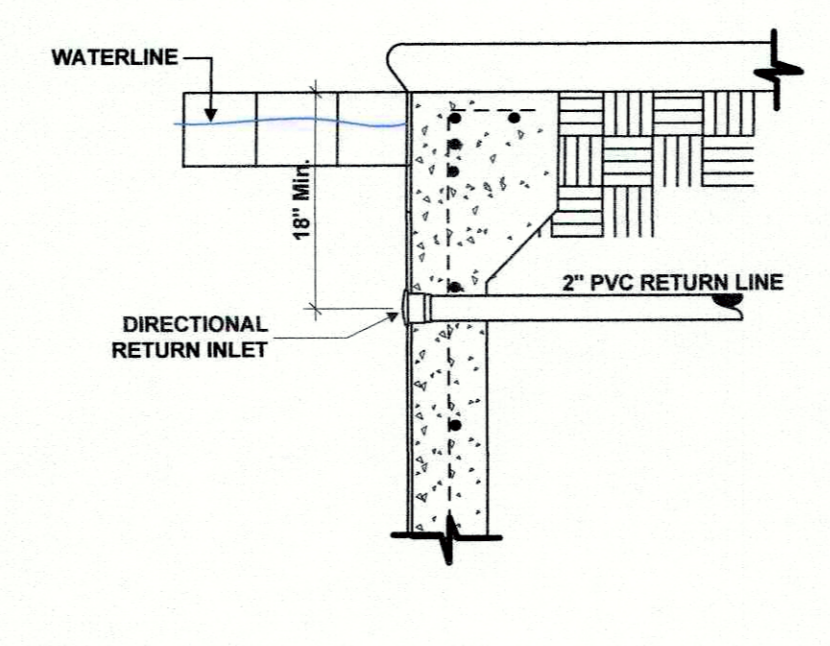
DRAWN BY: RBH
CHECKED BY: RRP
DATE: 7-14-17
SCALE: AS NOTED
DETAILS SP - 7



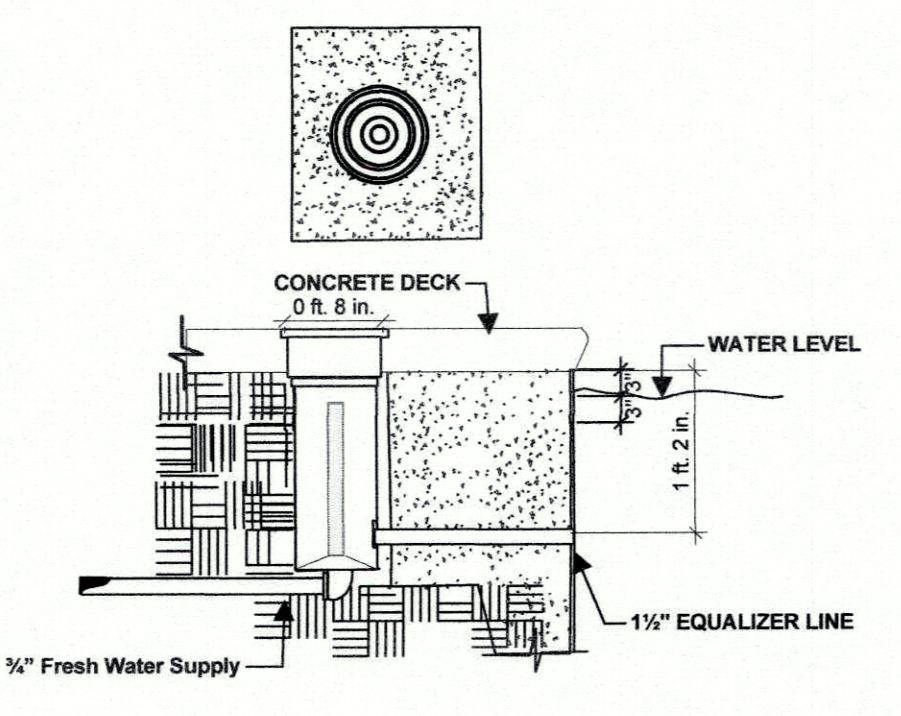
**BENCH/SEAT SECTION**  
N.T.S.



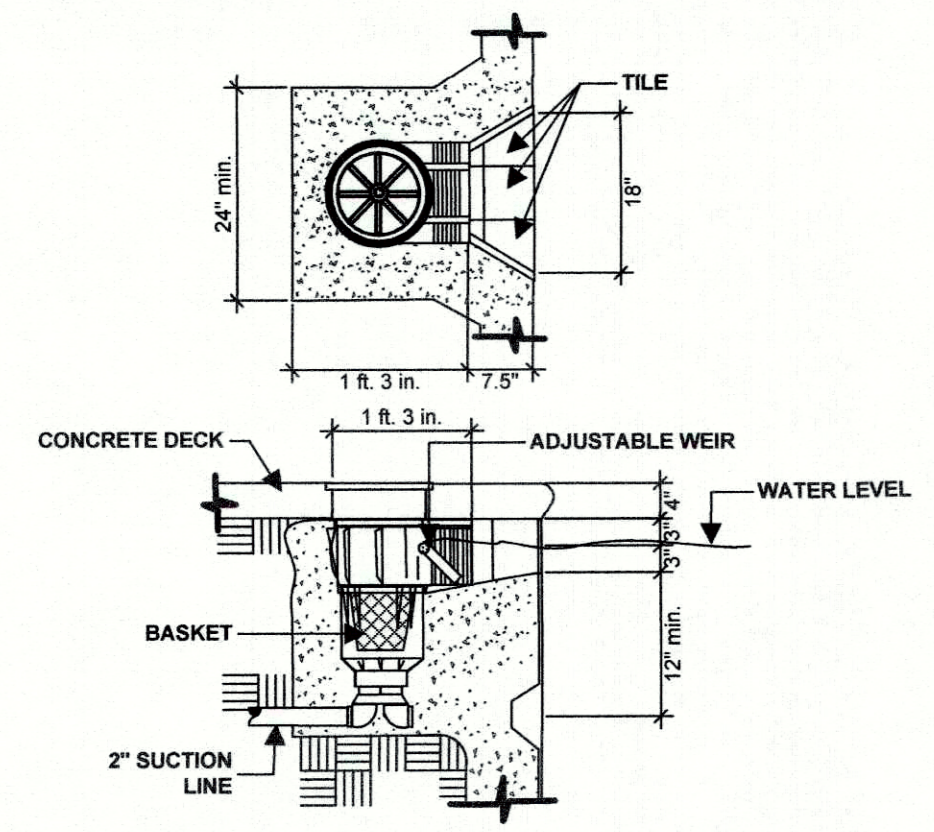
**VACUUM FITTING DETAIL**  
N.T.S.



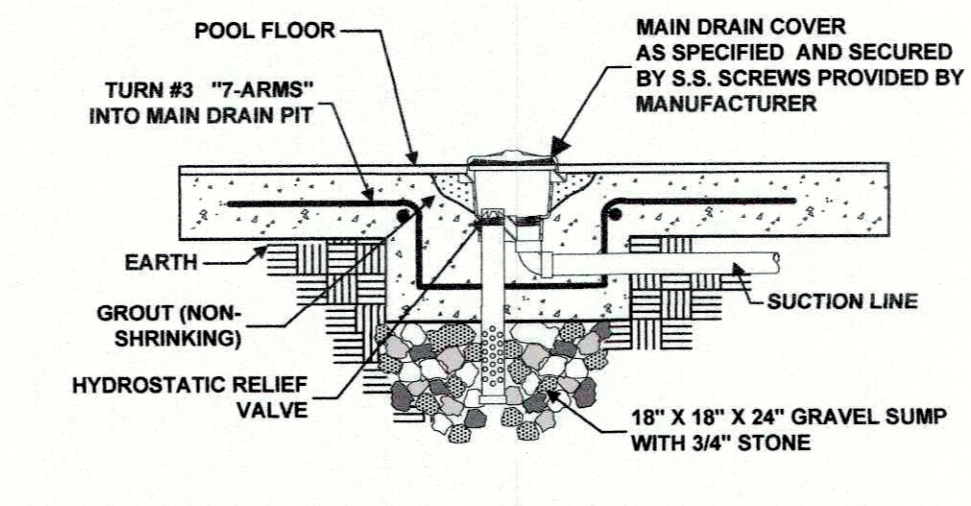
**RETURN INLET DETAIL**  
3/4" = 1'-0"



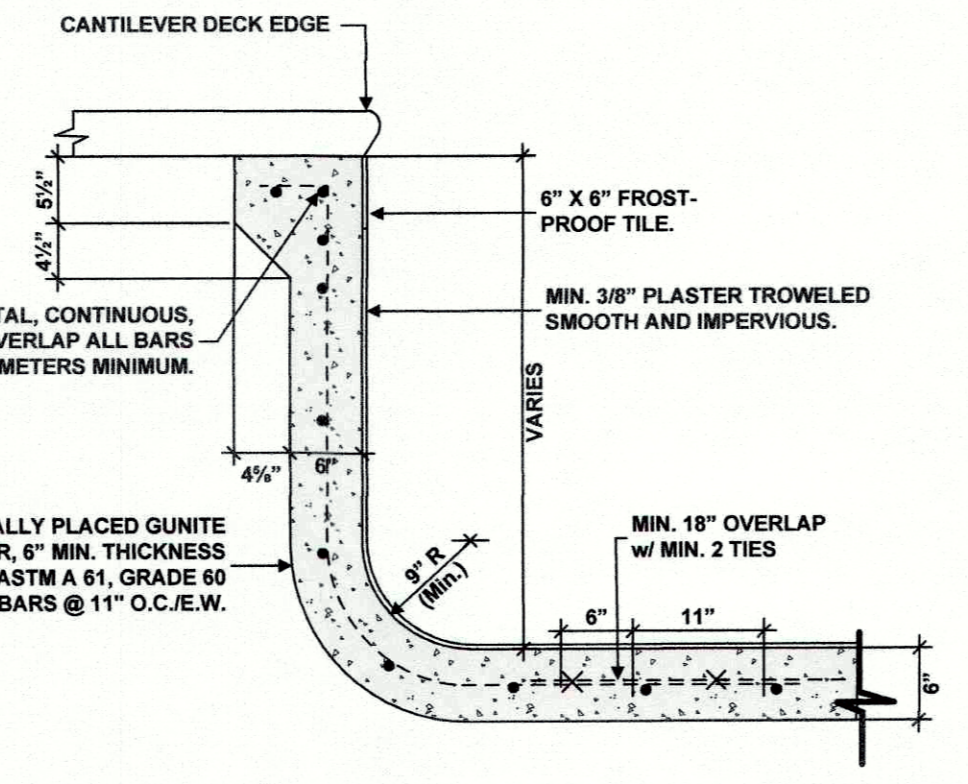
**AUTOMATIC FILL DETAIL**  
N.T.S.



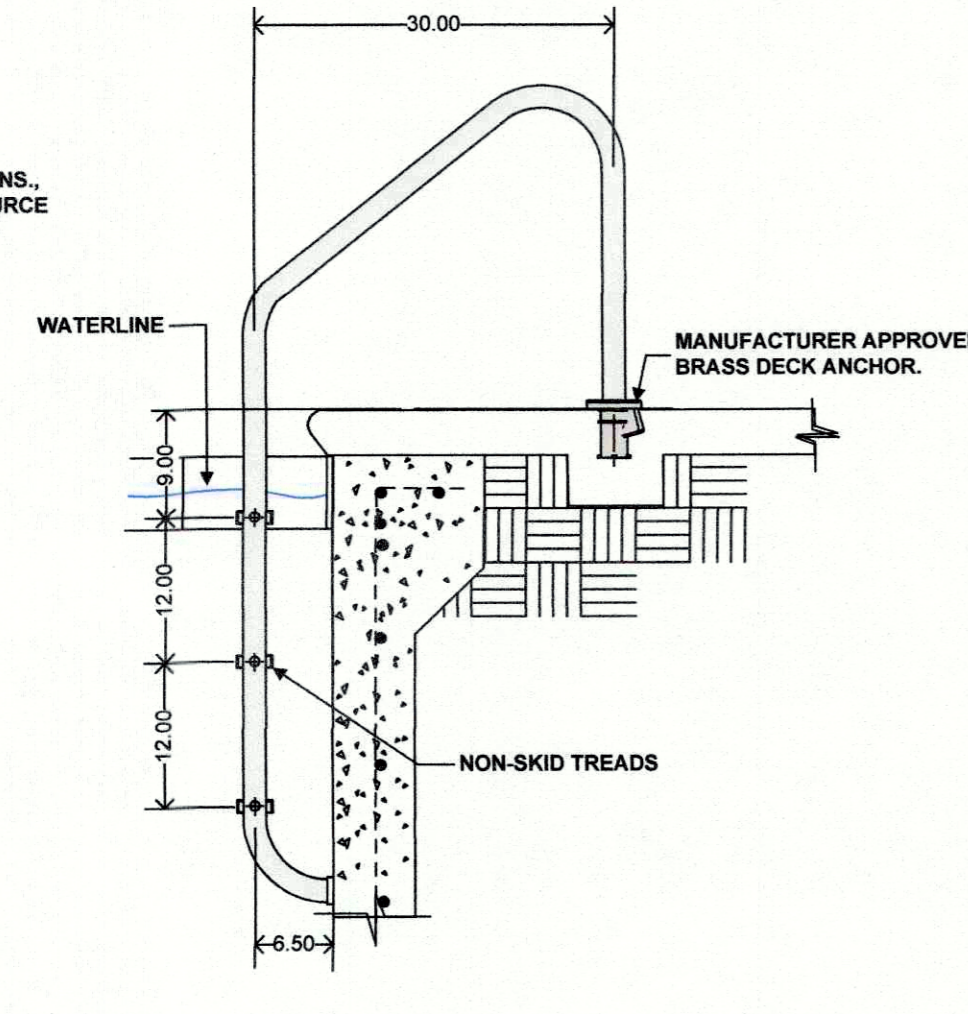
**SURFACE SKIMMER DETAIL**  
N.T.S.



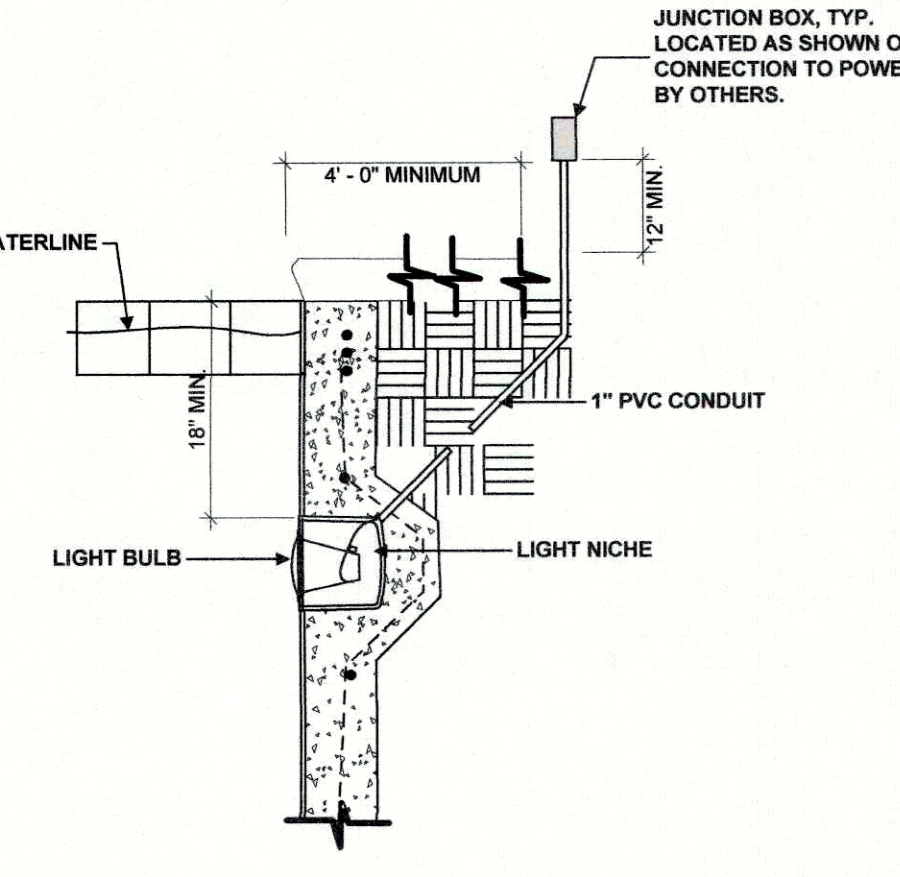
**MAIN DRAIN DETAIL**  
N.T.S.



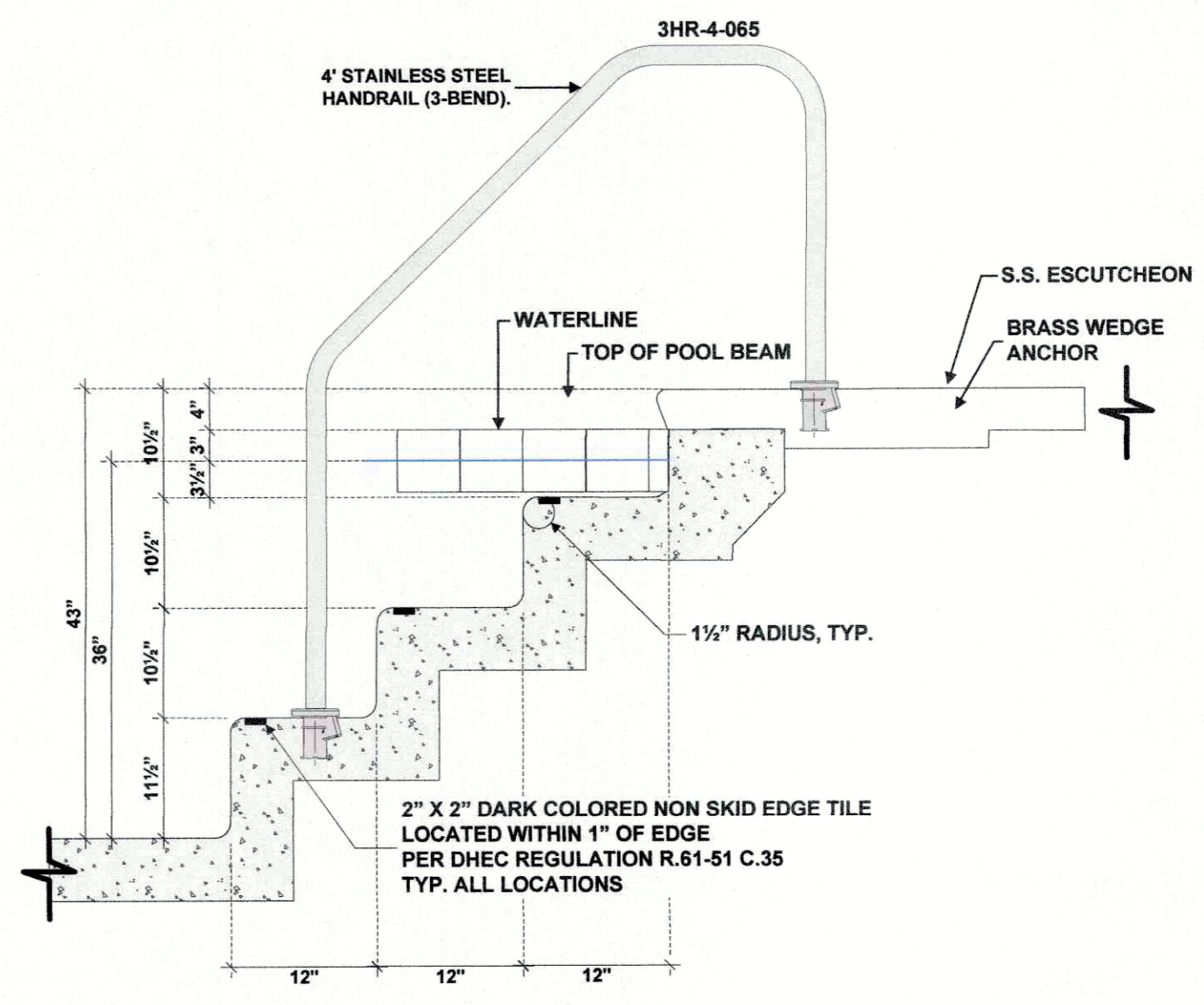
**BOND BEAM DETAIL**  
3/4" = 1'-0"



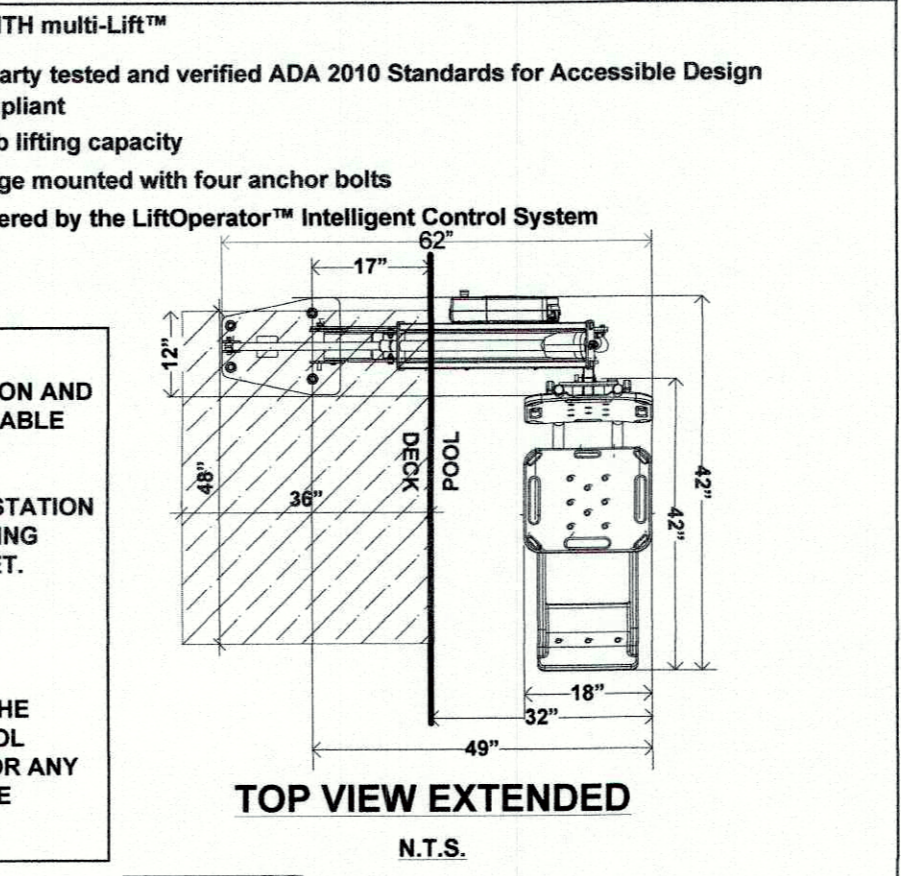
**LADDER DETAIL**  
3/4" = 1'-0"



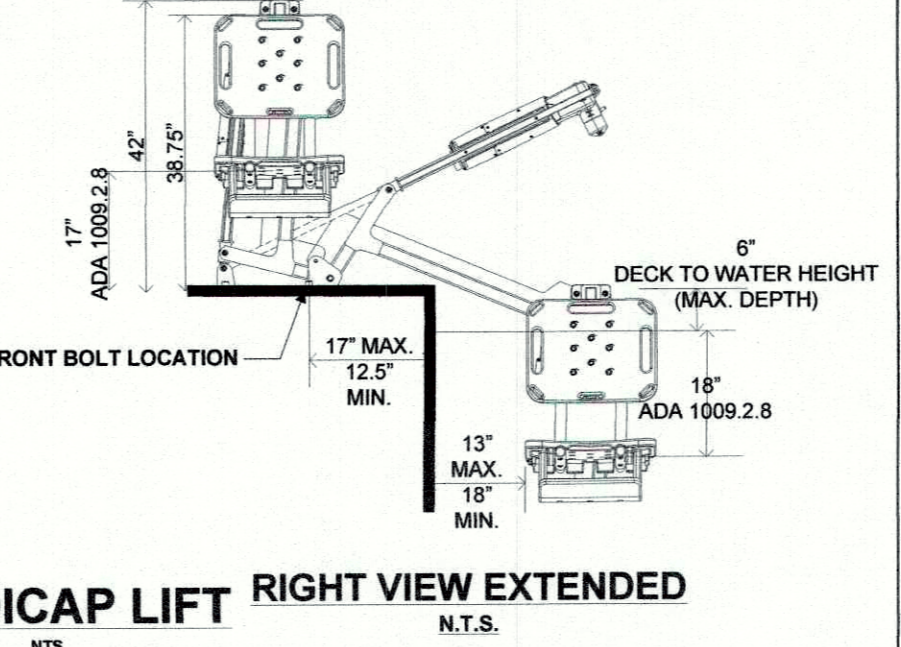
**LIGHT DETAIL**  
3/4" = 1'-0"



**STEP DETAIL**  
3/4" = 1'-0"



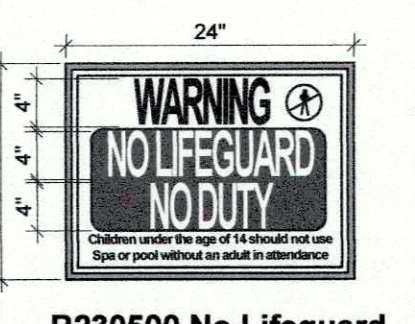
**TOP VIEW EXTENDED**  
N.T.S.



**RIGHT VIEW EXTENDED**  
N.T.S.

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- S. R. SMITH multi-Lift™
- 3<sup>rd</sup> Party tested and verified ADA 2010 Standards for Accessible Design Compliant
- 350lb lifting capacity
- Flange mounted with four anchor bolts
- Powered by the LiftOperator™ Intelligent Control System



**R230500 No Lifeguard On Duty**  
24" X 18"



**40320 Please Shower Before Entering Pool**  
12" X 18"



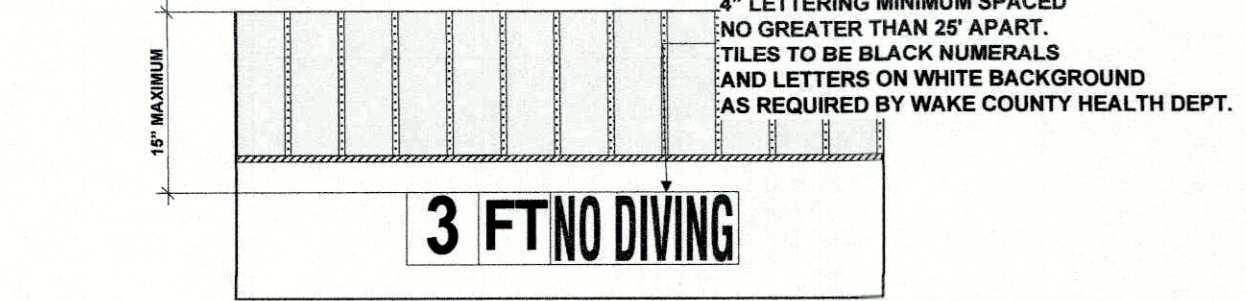
**R233800 No Diving**  
24" X 24"  
(4 in. X 6 in. letters)



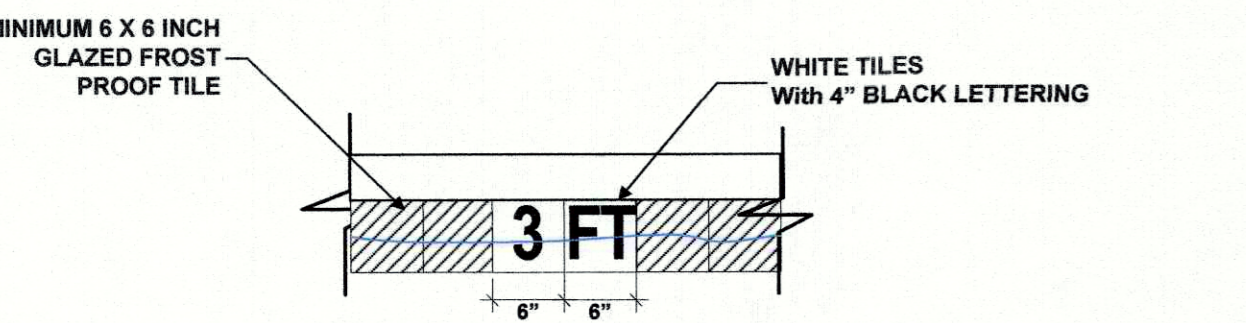
**R234100 Pool Rules**  
(N. Carolina), 24" X 36"

Painted Pool & Spa Signs  
Rainbow's commercial quality pool and spa signs meet specifications and safety requirements of state, county and city health codes. Each sign is constructed of weather-resistant, high impact plastic, screened with permanent inks and finished with brass grommets for easy, secure hanging.

DECK DEPTH MARKERS ARE TO BE NON-SLIP AND LOCATED WITHIN 15 INCHES OF POOL EDGE



**TOP VIEW TO DECK**



**DEPTH MARKER DETAIL**  
N.T.S.

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