

ENGINEERED SWIMMING POOL CONSTRUCTION DRAWING FOR

One Seagrove Place Condo

SITE ADDRESS:
4100 E County Hwy 30A,
Santa Rosa Beach, FL 32459



PROJECT DIRECTORY:

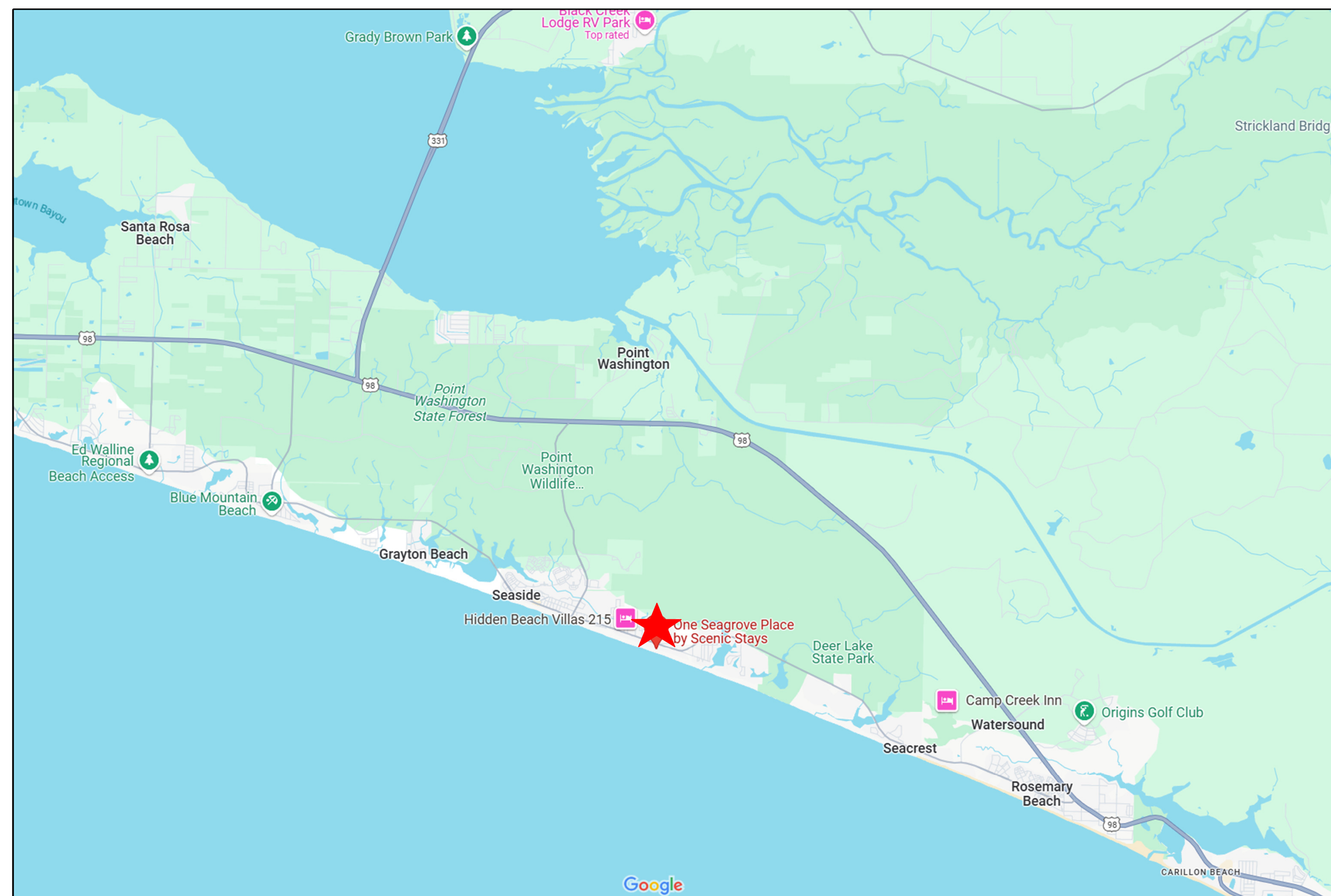
OWNER	ARCHITECT
One Seagrove Place Owner's Association, Inc. 4100 E County Hwy 30A Santa Rosa Beach, FL 32459 CONTACT: Dan Johnson 317.501.1240 djohnson@jpsconsultingengineers.com	DAG Architects, Inc. 850 S. Gadsden St Suite 140 Tallahassee, FL 32301 CONTACT: Alana Taylor, AIA 850.200.2834 ataylor@dagarchitects.com
MEP ENGINEER	STRUCTURAL
Watford Engineers 4452 Clinton St Marianna, FL 32446 CONTACT: Keith A Johnson, PE 850.526.3447 Keith@watford-engineering.com	Atlas Engineering and Consulting 1394 Co. Hwy 283 South #3 Santa Rosa Beach, Florida 32459 CONTACT: Cody Harden, ME, PE 850.708.5964 cody@atlaseng.us



DAG Architects
 DAG Architects AR0009694
 850 S Gadsden Street, Suite 140
 Tallahassee, FL 32301
 850.656.7506
 www.DAGarchitects.com

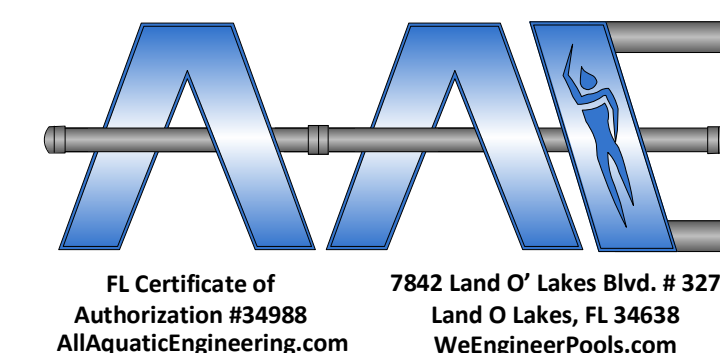
THE ONE SEAGROVE CONDO SERVES 129 NON-TRANSIENT UNITS. THIS POOL IS DESIGNED BASED ON THESE UNITS AND SIZED AS REQUIRED BY FAC-64E-9 AND FBC 454.1. THIS POOL IS DESIGNED TO SERVE THE RESIDENTS ONLY; NOT FOR GENERAL PUBLIC USE NOR FOR LEASE.

REFERENCE CODE/STANDARDS:
 THESE DRAWINGS HAVE BEEN DESIGNED TO BE IN ACCORDANCE WITH THE FOLLOWING CODES:
 - FLORIDA BUILDING CODE - 8TH EDITION, (2023)
 - SECTION 454 SWIMMING POOLS AND BATHING PLACES (PUBLIC AND PRIVATE)
 - FLORIDA BUILDING CODE - PLUMBING 8TH EDITION, (2023)
 - FLORIDA BUILDING CODE - RESIDENTIAL 8TH EDITION, (2023)
 - FLORIDA BUILDING CODE - MECHANICAL 8TH EDITION, (2023)
 - FLORIDA BUILDING CODE - ENERGY CONSERVATION 8TH EDITION, (2023)
 - FLORIDA BUILDING CODE - FUEL GAS 8TH EDITION, (2023)
 - BUILDING CODE - ACCESSIBILITY 8TH EDITION, (2023)
 - NATIONAL ELECTRICAL CODE NFPA 70 (2020)
 - FLORIDA FIRE PREVENTION CODE 8TH EDITION, (2023)



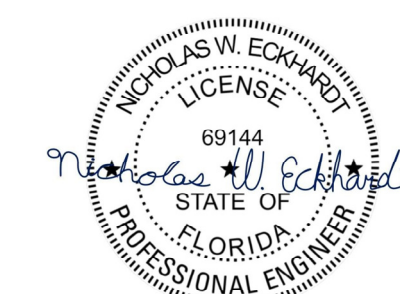
SITE LOCATION MAPS

Prepared By:
All Aquatic Engineering



FL Certificate of Authorization #34988
 AllAquaticEngineering.com
 7842 Land O' Lakes Blvd. # 327
 Land O Lakes, FL 34638
 WeEngineerPools.com

Nicholas W. Eckhardt, P.E.
 FL PE # 69144
 Phone (904) 451-0630
 Nick@AllAquaticEngineering.com



12/18/2025

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SIZING REQUIREMENTS:

- 1. THE BATHING LOAD AT TRANSIENT FACILITIES SHALL HAVE A MINIMUM 6 SQUARE FEET OF SURFACE AREA AND A MINIMUM OF 1 GALLON PER MINUTE OF RECIRCULATION FLOW PER LIVING UNIT.
2. THAT MEETS THE MINIMUM TRANSIENT FACILITIES SHALL HAVE A MINIMUM OF 4 SQUARE FEET OF SURFACE AREA AND A MINIMUM OF 0.75 GALLON PER MINUTE OF RECIRCULATION FLOW PER LIVING UNIT.
3. BATHING LOAD AT RECREATIONAL VEHICLE SITES, CAMPSITES AND BOAT SPLS DESIGNATED FOR LIVE ABOARD BOATS SHALL HAVE A MINIMUM OF 1 GALLON PER MINUTE OF RECIRCULATION FLOW PER LIVING UNIT.
4. FOR PROPERTIES WITH MULTIPLE POOLS, THIS REQUIREMENT INCLUDES THE CUMULATIVE TOTAL SURFACE AREA AND RECIRCULATION RATE OF ALL SWIMMING POOLS, SPAS, WADING POOLS AND INTERACTIVE WATER FEATURES. IF THE ONLY POOLS AT A FACILITY ARE SPA POOLS OR INTERACTIVE WATER FEATURES, THIS REQUIREMENT DOES NOT APPLY.
5. THE BATHING LOAD FOR CONVENTIONAL SWIMMING POOLS, WADING POOLS, INTERACTIVE WATER FEATURES, WATER ACTIVITY POOLS AND SPECIAL PURPOSE POOLS SHALL BE COMPUTED ON THE BASIS OF ONE PERSON PER 5 GPM OF RECIRCULATION FLOW.
6. THE BATHING LOAD FOR SPA TYPE POOLS SHALL BE BASED ON ONE PERSON PER EACH 10 SQUARE FEET OF SURFACE AREA.
7. ALL OTHER TYPES OF POOLS SHALL BE SIZED ACCORDING TO THE ANTICIPATED BATHING LOAD AND PROPOSED USES.
8. THE MINIMUM BATHING LOAD IS COMPUTED ON THE BASIS OF 1 PERSON PER EACH 5 GPM OF WATER RECIRCULATED.

CONSTRUCTION STANDARDS:

- 1. POOLS SHALL BE CONSTRUCTED OF CONCRETE OR OTHER IMPERVIOUS AND STRUCTURALLY RIGID MATERIAL. ALL POOLS SHALL BE WATERIGHT, SHALL BE FREE FROM STRUCTURAL CRACKS AND SHALL HAVE A NONTOXIC SMOOTH AND SLIP-RESISTANT FINISH. ALL ELEVATED POOLS CONSTRUCTED OF CONCRETE SHALL HAVE WATERPROOFING INTEGRAL TO THE MIX, OR APPLIED OVER THE SURFACE PRIOR TO THE FINAL SURFACE APPLICATION. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS UNLESS SUCH SPECIFICATIONS VIOLE CHAPTER 649.05, FLORIDA ADMINISTRATIVE CODE, RULE REQUIREMENTS OR THE APPROVAL CRITERIA OF NSF/ANSI STANDARD 50 OR NSF/ANSI STANDARD 500.
2. POOL FLOORS AND WALLS SHALL BE WHITE OR LIGHT PASTEL IN COLOR AND SHALL HAVE THE CHARACTERISTIC OF REFLECTING RATHER THAN ABSORBING LIGHT. THE INTERIOR FINISH COATING FLOORS AND WALLS SHALL BE COMPRISED OF A NON-TOXIC, NON-FLAMMABLE, NON-ABSORBENT COMPONENT TOGETHER WITH A SAND/AGGREGATE COMPONENT. THE FINISH COATING SHALL HAVE A DRY WEIGHT LOSS (CIE I VALUE) OF 80.0 OR GREATER AND A WET LUMINOUS REFLECTANCE VALUE (CIE Y VALUE) OF 50.0 OR GREATER, AS DETERMINED BY TEST RESULTS PROVIDED BY THE MANUFACTURER. UTILIZE THE TESTING METHOD FROM AMERICAN STANDARD ASTM D4086, ASTM E1477, ASTM E1434, TYPES CONSTRUCTED OF FIBERGLASS, THERMOPLASTIC, OR STAINLESS STEEL SHALL BE SUBJECT TO THE SAME INTERIOR FINISH COLOR REQUIREMENTS.
3. FLOORS AND WALLS IN LANE ENDING AREAS, AND IN POOLS WITH A MAXIMUM DEPTH OF 24 INCHES (610MM) OR LESS, ARE EXEMPT FROM THE COLOR REQUIREMENT.
4. HORIZONTAL TILE USED IN LESS THAN 2" OF WATER MUST BE SLIP RESISTANT. (FBC DEFINITIONS: "SLIP RESISTANT" MEANS HAVING A TEXTURED SURFACE WHICH IS NOT CONDUVE TO SLIPPING UNDER CONTACT OR BARE FEET UNLIKE GLAZED TILE OR MASONRY TERRAZZO AND NONTEXTURED PLASTIC MATERIALS. MANUFACTURER'S SPECIFICATIONS SHALL BE DESIGNATED BY THE MANUFACTURER AS SUITABLE FOR WALKING SURFACES IN WET AREAS.)
5. A MINIMUM 4-INCH TILE LINE, EACH TILE A MINIMUM SIZE OF 1 INCH ON ALL SIDES, SHALL BE INSTALLED AT THE WATER LINE, BUT NOT EXCEED 12 INCHES IN HEIGHT IF A DARK COLOR IS USED. GUTTER TILE POOLS MAY SUBSTITUTE 2-INCH TILE, EACH A MINIMUM SIZE OF 1-INCH ON ALL SIDES, ALONG THE POOL WALL EDGE OF THE GUTTER UP.
6. A MINIMUM 6" WATER LINE TILE SHALL BE PROVIDED ON ALL POOLS WITH AUTOMATIC SKIMMER SYSTEMS, EACH A MINIMUM SIZE OF 1" ON ALL SIDES. GLAZED TILE THAT IS SMOOTH AND EASILY CLEANABLE SHALL BE UTILIZED.
7. ONE-INCH SQUARE TILE MAY BE USED IF THE MANUFACTURER HAS SPECIFIED THE ADHESIVE FOR USE UNDERWATER TO ADHERE THE TYPE OF TILE USED, VITREOUS (GLASS) OR CERAMIC. TILES SHALL NOT HAVE SHARP EDGES EXPOSED THAT COULD CAUSE BATHING INJURY. THE GROUT LINE IS ALLOWED TO BE INCLUDED WHEN MEETING THE 1-INCH SQUARE TILE REQUIREMENTS, IF THE TILE IS SOLD AND DISTRIBUTED AS NOMINAL OR TRADE SIZE TILE.

DIMENSION STANDARDS:

- 1. ALL POOL WALLS SHALL HAVE A CLEARANCE OF 15 FEET PERPENDICULAR TO THE EDGE (AS MEASURED AT DESIGN WATER LEVEL FROM GUTTER LIP TO GUTTER LIP, OR ON SKIMMER POOLS, FROM VERTICAL WALL TO VERTICAL WALL). OFFSET STEPS, SPA POOLS AND WADING POOLS ARE EXEMPT FROM THIS CLEARANCE REQUIREMENT. (FBC DEFINITIONS: "OFFSET" MEANS SET BACK INTO THE DECK FROM THE NORMAL POOL WALL PERIMETER (THREE SIDES MUST BE MEASURED BY POOL DECK).
2. WHERE INTERIOR STAIRS OR A SUN SHELF PROTRUDE INTO THE POOL, THE REMAINING WIDTH FROM THE JUNCTION OF THE STEP OR RISER AND THE FLOOR TO THE OPPOSITE WALL SHALL BE 10 FEET (3048 MM) OR MORE.
3. THE UPPER PART OF POOL WALLS IN AREAS 5 FEET DEEP OR LESS SHALL BE WITHIN 5 DEGREES VERTICAL FROM A MINIMUM DEPTH OF 25 FEET FROM THE GUTTER LIP TO THE BOTTOM OF THE DOOR WITH A MAXIMUM RADIIUS EQUAL TO THE DIFFERENCE BETWEEN THE POOL DEPTH AND 2 FEET. THE UPPER PART OF POOL WALLS IN AREAS OVER 5 FEET DEEP SHALL BE WITHIN 5 DEGREES VERTICAL FOR A MINIMUM DEPTH EQUAL TO THE POOL WATER DEPTH MINUS 2½ FEET FROM WHICH POINT THE WALL MAY JOIN THE FLOOR WITH A MAXIMUM RADIIUS OF 2 FEET.
4. ALL INTERIOR CORNERS SHALL BE A MINIMUM 90-DEGREE ANGLE (INTERNAL ANGLE).
5. THE CORNER INTERSECTIONS OF WALLS WHICH PROTRUDE OR ANGLE INTO THE POOL WATER AREA SHALL BE ROUNDED WITH A MINIMUM RADIIUS OF 2 INCHES (51 MM). THIS RADIIUS SHALL BE CONTINUED THROUGH THE TOP OF THE TREAD OR RISER.
6. POOL COINGS SHALL NOT OVERHANG INTO THE POOL MORE THAN 1½ INCHES.
7. MULTIPLE FLOOR LEVELS IN POOLS ARE PROHIBITED, HOWEVER, AN AREA MEETING ALL OF THE REQUIREMENTS OF A SUN SHELF SHALL NOT BE CONSIDERED A VIOLATION OF THIS REQUIREMENT.
8. FLOOR SHALL BE WITHIN 1 UNIT VERTICAL IN 10 UNITS HORIZONTAL IN AREAS 5 FEET DEEP OR LESS, THE FLOOR SLOPE SHALL BE A MAXIMUM 1 UNIT VERTICAL IN 3 UNITS HORIZONTAL IN AREAS MORE THAN 5 FEET (1524 MM) DEEP.
9. IN THE SLOPE CHANGES, THE TRANSITION FROM A POOL FLOOR OF 0.1" IN 12" TO A GREATER FLOOR SLOPE HAS A 3-INCH BREAK IN THE SLOPE LINE.
10. SLOPE RAKE (WHERE APPLICABLE) SHALL BE AT 2" DEPTH OR GREATER, HAVE A 10" x 6" WIDER CONTRASTING TILE MARKING ACROSS BOTTOM AND UP BOTH SIDES AT THE TRANSITION POINT.
11. SLOPE RAKE (IF APPLICABLE) HAS SAFETY LINE MOUNTED WITH RECESSED CUP ANCHORS 2" BEFORE CONTRASTING MARKING, TOWARD SHALLOW END. THE SAFETY LINE SHALL HAVE VISIBLE FLOATS AT MAXIMUM 7" INTERVALS.
12. DIMENSIONAL STANDARDS FOR COMPETITION TYPE POOLS SHALL BE THOSE PUBLISHED BY THE NATIONAL COLLEGIATE ATHLETIC ASSOCIATION, 2019-20 AND 2020-21; FEDERATION INTERNATIONALE DE NATATION AMATEUR (FINA), 2020 HANDBOOK; USA SWIMMING 2021; AND NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS 2021-22, WHICH ARE INCORPORATED BY REFERENCE IN THIS CODE.
13. THE MINIMUM WATER DEPTH SHALL BE 3 FEET, EXCEPT IN SUN SHELVES, WADING POOLS, WATER ACTIVITY POOLS, SPAS AND ZERO ENTRY AREAS.
14. MARKINGS:

- 1. PERMANENT DEPTH MARKINGS FOLLOWED BY THE APPROPRIATE FULL OR ABBREVIATED WORDS "FEET," "FT," OR "INCHES," "IN," SHALL BE INSTALLED IN MINIMUM 4" HIGH NUMBERS AND LETTERS ON A CONTRASTING BACKGROUND.
2. DEPTH MARKINGS SHALL INDICATE ACTUAL DEPTH WITHIN 2" WHEN MEASURED AT NORMAL OPERATING WATER LEVEL AND WHEN MEASURED 3' FROM THE POOL WALL.
3. AT A MINIMUM, THE MARKINGS SHALL BE LOCATED ON BOTH SIDES OF THE POOL AT THE SHALLOW END, SLOPE RAKE, DEEP-END WALL AND DEEP POINT, IF LOCATED MORE THAN 5 FEET FROM THE DEEP-END WALL.
4. DEPTH MARKINGS SHALL BE LEGIBLE FROM INSIDE THE POOL AND ALSO FROM THE POOL DECK.
5. THE MAXIMUM PERIMETER DISTANCE BETWEEN DEPTH MARKINGS SHALL BE 25'. POOL SIZE AND GEOMETRY MAY NECESSITATE ADDITIONAL DEPTH MARKING PLACEMENTS ABOUT ALL SIDES OF THE POOL TO MEET THIS REQUIREMENT.
6. WHERE CURBS ARE PROVIDED, DEPTH MARKINGS SHALL BE INSTALLED ON THE INSIDE AND OUTSIDE OR TOP OF THE POOL CURB.
7. WHERE A POOL CURB IS NOT PROVIDED, THE DEPTH MARKINGS SHALL BE LOCATED ON THE INSIDE VERTICAL WALL AT, OR ABOVE, THE WATER LEVEL AND ON THE EDGE OF THE DECK, WITHIN 2" OF THE POOL WATER.
8. WHEN OPEN TYPE GUTTER DESIGNS ARE UTILIZED, DEPTH MARKERS SHALL BE LOCATED ON THE BACK OF THE GUTTER WALL.
9. WHEN A COPING STONE WITH CURVED OR ANGLED UNDERLINE IS PROVIDED, THE DEPTH MARKERS MAY BE INSTALLED ON THE CURVED OR ANGLED COPING UNDERLINE, AND OUTSIDE OR TOP OF THE POOL CURB.
10. WHERE DECK LEVEL PERIMETER OVERFLOW SYSTEMS ARE UTILIZED, ADDITIONAL DEPTH MARKING SIGNS SHALL BE POSTED AND PLACED ON ADJACENT FENCING OR WALLS AND THE SIZE SHALL BE INCREASED SO THEY ARE RECOGNIZABLE FROM INSIDE THE SWIMMING POOL.
11. TILE DEPTH MARKERS MAY BE PLACED AT THE TOP OF THE POOL WALL JUST UNDER THE WATER LEVEL. DEPTH MARKERS PLACED ON THE POOL DECK SHALL BE WITHIN 3" OF THE WATER.
12. IN AREAS NOT PART OF AN APPROVED DIVING BOY, THE "NO DIVING" MARKINGS SHALL BE ON THE CURB TOP OR DECK WITHIN 2" OF WATER EDGE ON EACH SIDE OF POOL WITH A MAXIMUM DISTANCE BETWEEN MARKINGS OF 25'.
13. THE "NO DIVING" MARKINGS SHALL BE AT LEAST 4" HIGH (102 MM) HIGH AND CONTRASTING, OR A 6" TILE WITH MIN. 4" OUTLIER OR LARGER INTERNATIONAL "NO DIVING" SYMBOL. "NO DIVING" MARKINGS ARE NOT REQUIRED WITHIN THE SWIMMING POOL.
14. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES HAVE A SLIP-RESISTANT FINISH.
15. ALL MARKINGS SHALL BE TILE. MARKINGS SHALL BE FLUSH WITH THE SURROUNDING AREA WHERE PLACED AND RECESSED IF NECESSARY TO PROVIDE A SMOOTH FINISH THAT WILL AVOID CREATION OF AN INJURY HAZARD TO BATHERS.
16. POOLS CONSTRUCTED OF FIBERGLASS, THERMOPLASTIC OR STAINLESS STEEL MAY SUBSTITUTE OTHER TYPE MARKINGS WHEN IT CAN BE SHOWN THAT SMOOTH MARKINGS ARE PERMANENT AND WILL NOT FADE OVER TIME. THIS SUBSTITUTION DOES NOT EXTEND TO CONCRETE POOLS THAT ARE COATED WITH FIBERGLASS. THE ALTERNATIVE EXAMPLES INCLUDE STONE OR MANUFACTURED PLAQUES WITH ENGRAVED OR SANDBLASTED NUMBERS AND CHARACTERS WITH PERMANENT PANT. PERMANENT APPLICATIONS MAY BE USED FOR FIBERGLASS, THERMOPLASTICS OR STAINLESS STEEL POOLS.
17. POOLS THAT ARE NOT CONSTRUCTED TO TILE CAN EMPLOY OTHER EQUIVALENT MARKINGS AS APPROVED BY THE EOR AND FL-DOH.
18. ANY DESIGN OR LOGO ON THE POOL FLOOR OR WALLS SHALL BE SUCH THAT IT WILL NOT HINDER THE DETECTION OF A HUMAN IN DISTRESS, ALLEGED, SEDIMENT, OR OTHER OBJECTS IN THE POOL.

POOL WASTEWATER:

- 1. POOL WASTEWATER SHALL BE DISCHARGED THROUGH AN AIR GAP.
2. POOL WASTEWATER DISPOSAL SHALL BE TO SANITARY SEWER, STORM SEWERS, DRAIN FIELDS, OR BY OTHER MEANS, IN ACCORDANCE WITH LOCAL REQUIREMENTS INCLUDING ALL NECESSARY PERMITS.
3. LINES SHALL BE SIZED TO HANDLE THE EXPECTED FLOW.
4. THERE SHALL NOT BE A DIRECT PHYSICAL CONNECTION BETWEEN ANY DRAIN FROM A POOL OR RECIRCULATION SYSTEM AND A SEWER LINE.

POOL RULES:

- 1. THE BATHING LOAD WILL BE POSTED AT THE POOL AS REQUIRED IN THE BATHING RULES.
2. UNLESS OTHERWISE NOTED, THE LETTERING FOR THE POOL RULES SIGN IS AT LEAST 1" HIGH.

THE FOLLOWING RULES IN RED/UNDERLINED WILL BE POSTED AT OR NEAR POOLSIDE AND WILL BE LEGIBLE FROM POOL DECK:

- 1. NO FOOD OR BEVERAGES IN THE POOL OR ON POOL WET DECK. COMMERCIALY BOTTLED WATER IN PLASTIC BOTTLES IS ALLOWED ON THE POOL WET DECK FOR POOL PATRON HYDRATION.
EXCEPTION: FOOD AND BEVERAGES SERVED IN ACCORDANCE WITH SWIM-UP BAR REQUIREMENTS FOUND IN DEPARTMENT OF HEALTH (DOH) RULE 64C-9.004 FLORIDA ADMINISTRATIVE CODE.
FOOD AND DRINK ARE CONSUMED IN THIS POOL. ALL DRINKS SHALL BE IN PLASTIC OR ALUMINUM CONTAINERS.
EXCEPTION: SERVICE ANIMALS AS DEFINED INS. 413.08, F.S. ALL ANIMALS ARE PROHIBITED TO ENTER THE POOL WATER OR ON THE DRAINED AREA OF AN INTERACTIVE WATER FEATURE.
3. BATHING LOAD: 20 PERSONS.
4. POOL HOURS: ___ A.M. TO ___ P.M. (DOWN TO DUSK IS APPROVED FOR POOL HOURS IF THE POOL IS NOT CERTIFIED FOR NIGHT USAGE).
5. SHOWER BEFORE ENTERING.
6. NO DIVING" (IN 4-INCH ETTERS IS REQUIRED FOR POOLS OF 200 SQUARE FEET IN AREA OR GREATER WITHOUT AN APPROVED DIVING WELL CONFIGURATION).

- 7. DO NOT SWIMLOW THE POOL WATER. (THIS STATEMENT SHALL BE ADDED TO SIGNS AT POOLS THAT CONDUCT ALTERATIONS AS THAT TERM IS DEFINED)
8. POOL MAXIMUM DEPTH: 4 FEET 0 INCHES. (IN 2-INCH LETTERS)
THE FOLLOWING RULES IN RED/UNDERLINED MUST BE POSTED AT POOLS WITH A SUN SHELF AND WILL BE LEGIBLE FROM POOL DECK:

- 1. "WARNING: SHALLOW ON SUN SHELF EDGE IS ___ FEET ___ INCHES DEEP (IN 4-INCH (102 MM) LETTERS).
2. "WARNING: DROP OFF SUN SHELVES TRANSITION TO STEPS".
10. DO NOT PLACE FURNITURE IN POOL. IN 1-INCH LETTERS. (NOT REQUIRED WITH ALL MOVABLE FURNITURE ON THE DECK OR IN THE POOL. IT IS ENTIRELY MADE FROM UV-RESISTANT, INERT PLASTIC).

POOL ACCESS:

- 1. ALL POOLS SHALL HAVE A MEANS OF ACCESS EVERY 75 FEET OF POOL PERIMETER WITH A MINIMUM OF TWO, LOCATED SO AS TO SERVE BOTH ENDS OF THE POOL, EXCEPT FOR SWIMMING POOLS WITH LIGHT (B) OR MORE LAP LANE, WHICH SHALL HAVE MEANS OF ACCESS EVERY 50 FEET OF POOL PERIMETER IN THE LAP LANE AREA. IN ADDITION, AN ACCESS POINT SHALL BE PROVIDED AT THE DEEP PORTION, IF THE DEEP PORTION IS NOT AT ONE END OF THE POOL.
2. WHEN THE DEEP PORTION OF THE POOL IS 10 OR 30 FEET WIDE, BOTH SIDES OF THIS AREA SHALL HAVE MEANS OF ACCESS. ACCESS SHALL CONSIST OF LADDERS, STAIRS, RECESSED TREADS, SUN SHELVES OR SWIMTOWS AND MAYBE USED IN COMBINATION. ALL TREADS SHALL HAVE A SLIP RESISTANT SURFACE.
3. THE POOL WATER AREA SHALL BE UNOBSTRUCTED BY ANY TYPE STRUCTURE UNLESS JUSTIFIED BY ENGINEERING DESIGN AS A PART OF THE RECIRCULATION SYSTEM. ENGINEERING DESIGN AND MATERIAL SPECIFICATIONS SHALL SHOW THAT SUCH STRUCTURES WILL NOT ENDANGER THE POOL PATRON, CAN BE MAINTAINED IN A SANITARY CONDITION AND WILL NOT CREATE A PROBLEM FOR SANITARY MAINTENANCE OF ANY PART OF THE POOL, POOL WATER, OR POOL FACILITIES. STRUCTURES IN ACCORD WITH THE ABOVE SHALL NOT BE LOCATED IN A DIVING BOY, AREA OR WITHIN 15 FEET OF ANY POOL CURB, STAIRS, LADDERS AND RAMP, NECESSARY FOR ENTRANCE/EXIT FROM THE POOL. ARE NOT CONSIDERED OBSTRUCTIONS.
4. LADDERS SHALL BE OF THE CROSS BRACED TYPE AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIALS AND BE SECURELY ANCHORED TO THE POOL DECK.
5. CLEARANCE BETWEEN THE LADDER AND POOL WALL SHALL BE BETWEEN 3 TO 6 INCHES.
6. LADDERS SHALL EXTEND AT LEAST 28 INCHES AND NO MORE THAN 40 INCHES ABOVE THE POOL DECK.
7. LADDER BOTTOM BRACES SHALL HAVE IMPACT END CAPS OR BUMPERS THAT REST FIRMLY AGAINST THE POOL WALL.
8. THE TOP RUNG OF THE LADDER SHALL BE AT, OR BELOW, THE WATER LEVEL ON OPEN GUTTER POOLS AND NOT MORE THAN 12 INCHES BELOW THE DECK OR CURB TOP ON ALL OTHER TYPE POOLS.
9. LADDERS WITH RECESSED TREADS SHALL BE INSTALLED FLUSH WITH THE WALL AND SHALL HAVE A CONTINUOUS 5 INCHES WIDE, 10 INCHES LONG, WITH A MAXIMUM VERTICAL DISTANCE OF 32 INCHES BETWEEN TREADS.
10. STAIRS SHALL HAVE A MINIMUM TREAD WIDTH OF 10" AND A MAXIMUM WIDTH OF 48" FOR A MINIMUM TREAD LENGTH OF 24" AND A MAXIMUM RISER HEIGHT OF 10".
11. TREADS AND RISERS BETWEEN THE TOP AND BOTTOM TREADS SHALL BE UNIFORM TO WITHIN 1/2" IN WIDTH AND HEIGHT.
12. THE RISER HEIGHTS SHALL BE MEASURED AT THE MARKED STEP EDGES AND THE DIFFERENCES IN ELEVATION SHALL BE CONSIDERED AT RISER HEIGHTS. EXCEPTION: WHERE GUTTER IS USED AS A TOP STEP, THE RISER'S 2" SLOPE FROM LIP TO THE DRAIN SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE STAIRS, AND THE RISER FROM THE GUTTER TO THE NEXT TREAD NEED NOT BE UNIFORM WITH THE REMAINING RISERS AND TREADS.
13. THE FRONT ¾ TO 2 INCHES OF THE TREAD AND THE TOP 2 INCHES OF THE RISER SHALL BE TILE, DARK IN COLOR, CONTRASTING WITH THE INTERIOR OF THE POOL. TILE SHALL BE SLIP RESISTANT.
14. BULLNOSE TILE THAT IS SLIP RESISTANT MAY BE USED WHEN THE ¾-INCH SEGMENT IS PLACED ON THE TOP OR HORIZONTAL SURFACE AND THE 2-INCH SEGMENT IS PLACED ON THE RISER OR VERTICAL SURFACE. VINYL LINER AND FIBERGLASS POOLS MAY USE OTHER MATERIAL FOR THE STEP EDGE MARKING, PROVIDED THE MATERIAL IS PERMANENT, PERMANENTLY SECURED, DARK IN COLOR, NONFADING AND SLIP RESISTANT.
15. WHERE "FIGURE 4" DECK MOUNTED TYPE HANDRAILS ARE USED, THEY SHALL BE ANCHORED TO THE DECK AS THE TOP STEP, THE TILE ON THE GUTTER FOR THE WIDTH OF THE STEPS SHALL BE SLIP RESISTANT.
16. SWIMTOWS
17. SWIMTOWS SHALL EXTEND 18" MINIMUM TO 24" MAXIMUM BACK FROM THE POOL WALL. THEY ARE REQUIRED TO BE 10" WIDE, WITH A MAXIMUM OF 12" BELOW THE DECK (UNLESS STAIRS ARE PROVIDED IN THE SWIMTOW).
17. SWIMTOWS MAY ONLY BE LOCATED IN AN AREA OF THE POOL WITH A DEPTH EXCEEDING 5 FEET.
18. IF THE POOL IS ON SKIMMERS, A WALL INLET SHALL BE PROVIDED WITHIN THE SWIMTOW FOR ADD LIFTS

- 19. A DARK, CONTRASTING COLORED, SLIP RESISTANT TILE BAND IS LOCATED ALONG THE INTERSECTION OF THE POOL WALL AND THE SWIMTOW, EXTENDING 2" ON HORIZONTAL AND VERTICAL SURFACES. TILE MUST BE SLIP RESISTANT.
20. WHERE "FIGURE 4" DECK MOUNTED TYPE HANDRAILS ARE USED, THEY SHALL BE ANCHORED TO THE TREAD OR HORIZONTAL SURFACE AND THE 2" SEGMENT IS PLACED ON THE RISER OR VERTICAL SURFACE.
21. HANDRAILS FOR THE STAIRS SHALL MOUNT IN POOL DECK OR BEAM, AND BOTTOM STEP.
22. WHERE "FIGURE 4" DECK MOUNTED TYPE HANDRAILS ARE USED, THEY SHALL BE ANCHORED IN THE DECK AND EXTEND LATERALLY TO ANY POINT VERTICALLY ABOVE THE BOTTOM STEP.
23. GRABRAILS SHALL BE MOUNTED IN THE POOL DECK AT EACH SIDE OF RECESSED STEPS.
24. HANDRAILS AND GRABRAILS SHALL EXTEND BETWEEN 28 AND 40 INCHES ABOVE THE STEP EDGE AND 2 INCHES BELOW.
25. UNDERWATER SEAT BENCHES MAY ONLY BE INSTALLED IN AREAS LESS THAN 5 FEET WATER DEEP.
26. BENCH SEATS MUST BE 14 MINIMUM TO 18 INCHES MAXIMUM WIDE AND MUST HAVE A DARK CONTRASTING TILE MARKING ON THE SEAT EDGE EXTENDING 2 INCHES ON THE HORIZONTAL AND VERTICAL SURFACE. ALL TILE SHALL BE SLIP RESISTANT. BULLNOSE TILE MUST BE SUBSTITUTED.
27. BENCHES SHALL NOT PROTRUDE INTO THE 15-FOOT CLEARANCE REQUIREMENT NOR PROTRUDE INTO A DIVING BOY.
28. PERMANENT OR PORTABLE STEPS, RAMPS, HANDRAILS, LIFTS OR OTHER DEVICES DESIGNED TO ACCOMMODATE HANDICAPPED INDIVIDUALS IN SWIMMING POOLS MAY BE PROVIDED, EXCLUDING ALL ADA POOL ACCESS AREAS) AND THEIR CLEAR DECK AREAS), THE HEIGHT OF THE POOL WALL ABOVE WET DECK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPROVED FOR SUCH USE BY UL OR NSF, AND WILL BE REVIEWED BY BUILDING DEPT.
29. ALLOWANCES FOR OVERHEAD CONDUCTOR CLEARANCES TO POOLS THAT MEET THE SAFETY STANDARDS IN THE NATIONAL ELECTRICAL CODE MAY BE USED INSTED. ELECTRICAL EQUIPMENT WITHIN 18 INCHES OF THE POOL PERIMETER, IF PROVIDED, LIFTS MOUNTED INTO THE POOL DECK SHALL HAVE A MINIMUM 4-FOOT-WIDE (1,219 MM) DECK BEHIND THE LIFT MOUNT.

SAND FILTER SYSTEMS:

- 1. THE SAND FILTER IS SIZED SUCH THAT THE FILTRATION RATE DOES NOT EXCEED 3 GPM/FT² FOR DEPART MEDIUM FILTER OR 20 GPM/FT² FOR HIGH RATE SAND FILTERS OR 20 GPM/FT² IF SO APPROVED.
2. PRESSURE SAND FILTER SYSTEMS SHALL BE EQUIPPED WITH AN AIR RELIEF VALVE, INFLUENT AND EFFLUENT PRESSURE GAUGES WITH MINIMUM FACE SIZE OF 2 INCHES READING 0-60 PSI, AND A SIGHT GLASS WHEN A BACKWASH LINE IS REQUIRED.
3. THE SAND FILTER AND FILTER MEDIA SHALL HAVE THE NECESSARY VALVES AND PIPING TO ALLOW FILTERING TO POOL, VACUUMING TO WASTE, VACUUMING TO FILTER, COMPLETE DRAINAGE OF THE FILTER TANK, BACKWASHING FOR SAND FILTERS.
ADDITION OF CHEMICALS:
1. AUTOMATED ORP 8 PH CONTROLLERS WITH SENSING PROBES SHALL BE PROVIDED ON ALL NEWLY BUILT PUBLIC SWIMMING POOLS TO ASSIST IN MAINTAINING PROPER DISINFECTION AND PH LEVELS.
2. ONLY NSF 60 APPROVED CHEMICALS SHALL BE PROVIDED.
3. FEEDERS MAY BE PROVIDED FOR THE USE OF FREE ACTIVE HALOGENS, TOTAL OR COMBINED AVAILABLE CHLORINE AND PH. NSF CERTIFIED TO LEVEL 1 ACCURACY.
4. IF A CYANURATE TYPE FEEDER IS USED, A CYANURIC ACID TEST KIT IS PROVIDED.
5. IF A SALT SOLUTION IN THE POOL WATER IS NECESSARY FOR A CHLORINE GENERATOR, A SODIUM CHLORIDE TEST KIT IS REQUIRED.
6. DISINFECTION AND PH ADJUSTMENT SHALL BE ADDED TO THE POOL RECIRCULATION FLOW USING AUTOMATIC FEEDERS MEETING THE REQUIREMENT OF ANSI/NSF 50.
7. ALL CHEMICALS SHALL BE FED INTO THE RETURN LINE AFTER THE PUMP, HEATER, AND FILTERS UNLESS THE FEEDER WAS DESIGNED BY THE MANUFACTURER AND APPROVED BY THE NSF TO FEED TO THE COLLECTOR TANK OR TO THE SUCTION SIDE OF THE PUMP.

SUN SHELF:

- 1. WHERE STAIRS ARE USED AS AN ACCESS POINT BETWEEN A SUN SHELF AND POOL AREA, A HANDRAIL SHALL BE PROVIDED. THE HANDRAIL SHALL BE ANCHORED INTO THE BOTTOM STEP AND THE SUN SHELF. THE HANDRAIL AND GRABRAILS SHALL EXTEND BETWEEN 28 AND 40 INCHES ABOVE THE SUN SHELF FLOOR AND DECK.
2. WHERE "FIGURE 4" DECK MOUNTED TYPE HANDRAILS ARE USED, THEY SHALL BE ANCHORED IN THE SUN SHELF AND/OR EXTEND LATERALLY TO ANY POINT VERTICALLY ABOVE THE BOTTOM STEP.
3. WHERE STAIRS ARE TRAE INTO THE SUN SHELF, A HANDRAIL SHALL BE PLACED ADIACENT TO EACH EDGE OF THE SUN SHELF.
4. A SUN SHELF MAY BE INSTALLED IN POOL AREAS WITH NO MORE THAN 4 FEET OF WATER DEPTH, OR LESS, WHERE THE ENTIRE SUN SHELF TRANSITIONS TO STEPS, WHERE THE DEPTH AT THE BOTTOM OF THE POOL DECK AREA THAT IS UP TO THREE TIMES THE AREA OF THE POOL DECK AREA.
5. A SUN SHELF SHALL NOT PROTRUDE INTO THE 15-FOOT (4572 MM) CLEARANCE REQUIREMENT OF SECTION 454.1.2.6. A SUN SHELF SHALL NOT PROTRUDE INTO THE DIVING BOY.
6. A SUN SHELF MUST HAVE THE SAME MARKINGS AT THE EDGE AS A BENCH.
7. A SUN SHELF SHALL NOT PROTRUDE INTO THE DIVING BOY.
8. A SUN SHELF SHALL NOT PROTRUDE INTO THE DIVING BOY.
9. A SUN SHELF SHALL NOT PROTRUDE INTO THE DIVING BOY.
10. FURNITURE THAT IS NON-CORROSIVE, WILL NOT INTRODUCE CONTAMINANTS INTO THE POOL WATER, AND IS ACCEPTABLE TO THE HEALTH DEPARTMENT MAY BE PLACED IN A POOL. MEANS SHALL BE TAKEN TO PROTECT FINISH SURFACING OF THE POOL SHELL THAT IS IN CONTACT WITH THE FURNITURE. FURNITURE SHALL NOT OBSTRUCT ANY RECIRCULATION INLET POINTS OR OBSCURE DEPTH AND "NO DIVING" MARKERS
11. SUN SHELF AREAS SHALL BE A MINIMUM OF 20 INCHES WIDE AND PROVIDE A MINIMUM OF 10 SQUARE FEET OF HORIZONTAL SURFACE ADJOINING ON THE EDGE OF THE POOL. THREE SIDES OF SUN SHELF MUST BE SURROUNDED BY POOL DECK.
12. THE SUN SHELF EDGE THAT ADDS THE POOL EDGE MUST BE CONTINUOUS.
13. SUN SHELF SHALL BE CONSTRUCTED OF CONCRETE, FIBERGLASS, AERIAL PHOTOGRAPHS, WATER MANAGEMENT GEOTECHNICAL STANDARDS AND SPECIFICATIONS, AND ANY OTHER SIMILAR DOCUMENTATION TO VERIFY AT MINIMUM, THE FOLLOWING: THE BARRIER FEATURE IS NOT SUBJECT TO NATURAL CHANGES, DEVIATIONS OR ALTERATIONS AND IS CAPABLE OF PROVIDING AN EQUIVALENT LEVEL OF PROTECTION AS THE BARRIER FEATURE. THE BARRIER FEATURE CLEARLY IMPEDES, PROHIBITS OR RESTRICTS ACCESS TO THE POOL.
14. SCREENED POOL ENCLOSURES MUST BE HARDENED ON THE BOTTOM 3 FEET (914 MM).
15. BRIDGES AND OVERHEAD OBSTRUCTIONS OVER THE POOL SHALL BE DESIGNED SO THEY WILL NOT INTRODUCE ANY CONTAMINATION TO THE POOL WATER.
16. THE MINIMUM HEIGHT OF THE BRIDGE OR OBSTRUCTION SHALL BE AT LEAST 4 FEET ABOVE THE SURFACE OF THE POOL IN ALL CASES EXCEPT WHEN THE POOL IS A RIVER RIDE WHERE IT SHALL BE AT LEAST 5 FEET ABOVE THE SURFACE OF THE POOL.
17. THE MINIMUM CLEARANCE FROM THE BRIDGE OR OBSTRUCTION SHALL BE PROVIDED ALONG EACH SIDE OF THE BRIDGE.
18. THE WALKING SURFACES SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NON-ABSORBENT MATERIAL HAVING A SMOOTH SLIP RESISTANT FINISH.
14. ALL SWIMMING POOLS SHALL BE INSTALLED WITH A SHEPHERD'S HOOK SECURELY ATTACHED TO A ONE INCH PILE NOT LESS THAN 16 FEET IN LENGTH, AND AT LEAST ONE 16-24 INCH DIAMETER LIFESAVING RING, APPROVED OR CERTIFIED UNDER A NATIONALLY RECOGNIZED WATER SAFETY DEVICE STANDARD, WITH SUFFICIENT ROPE ATTACHED TO REACH ALL PARTS OF THE POOL FROM THE POOL DECK.
15. SAFETY EQUIPMENT SHALL BE MOUNTED IN A CONSPICUOUS PLACE AND BE READILY AVAILABLE FOR USE.
16. POOLS GREATER THAN 50 FEET IN LENGTH SHALL HAVE MULTIPLE UNITS WITH AT LEAST ONE SHEPHERD'S HOOK AND ONE LIFE SAVING RING LOCATED ALONG EACH OF THE LONGER SIDES OF THE POOL.
17. IF A POOL COVER OR SOLAR BLANKET IS INSTALLED, IT SHALL BE SECURED AROUND THE ENTIRE PERIMETER AND DESIGNED TO SUPPORT A LIVE LOAD OF AN ADULT PERSON; OR, THE POOL AREA SHALL BE INACCESSIBLE TO UNAUTHORIZED INDIVIDUALS DURING TIMES OF COVER OR BLANKET USE.
18. A ROOM OR SPACE SHALL BE PROVIDED FOR CHEMICALS TO BE STORED, AND THE AREA SHALL BE INACCESSIBLE TO THE PUBLIC.
17. SWIMMING POOL SOUNDS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND SOUND ENGINEERING PRACTICE, TO INCLUDE WATER DEPTH, HEIGHT ABOVE WATER, DISTANCE FROM POOL STRUCTURE, AND ISOLATION OF LANDING AREA FROM OTHER POOL PATRONS. IF AN UNCLOSED LADDER IS USED, IT SHALL HAVE HANDRAILS BEGINNING AT THE BOTTOM STEP AND BE NO TALLER THAN 6 FEET. POOLS WITH SLIDES DESIGNED FOR SWIMMING POOLS ARE NOT REQUIRED TO SATISFY THOSE OF SLIDE PLUNGE POOLS.

POOL APURTANCES/POOL DECKS:

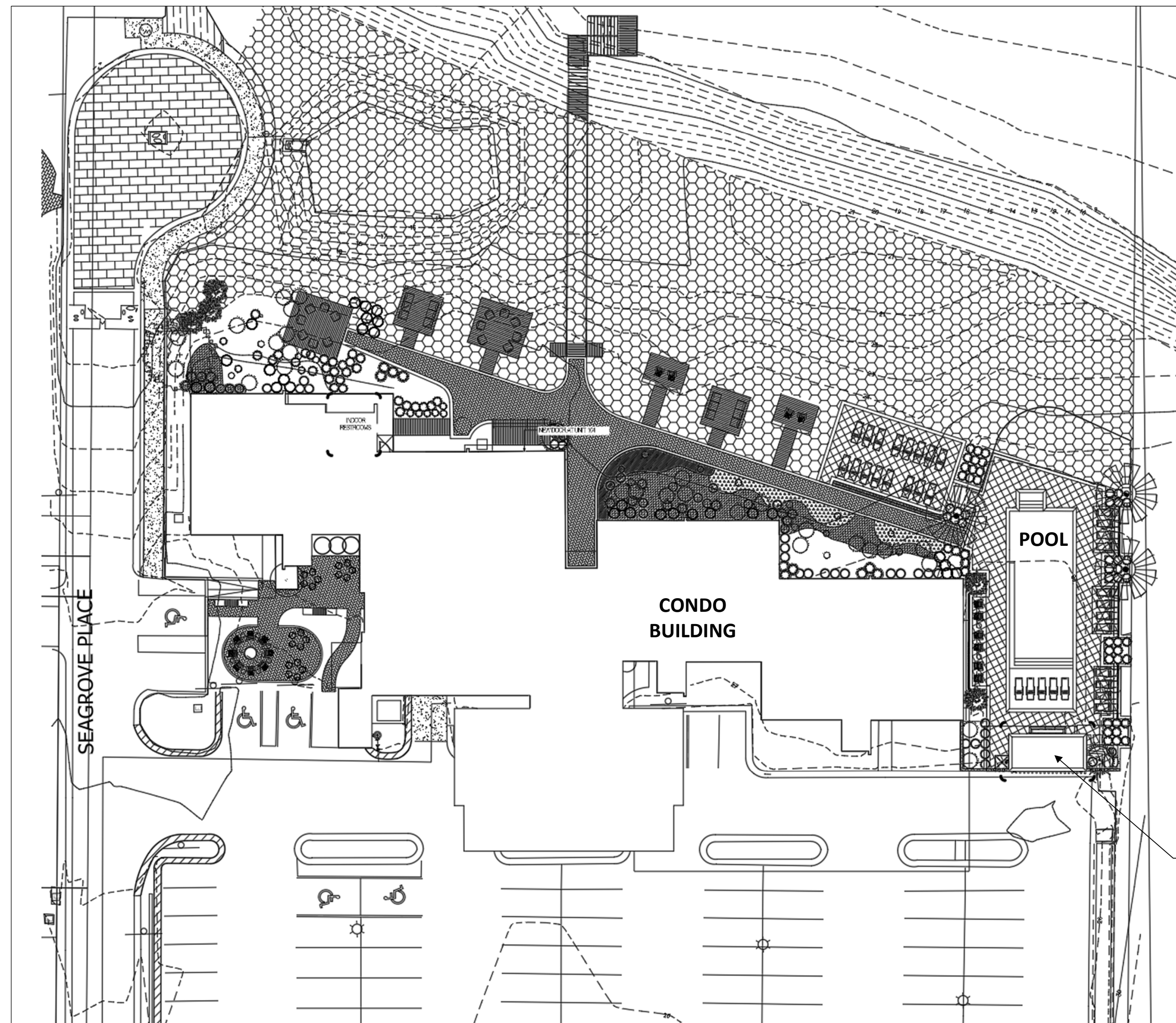
- 1. POOL WET DECKS SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NONABSORBENT MATERIAL HAVING A SMOOTH SLIP RESISTANT FINISH.
2. POOL WET DECKS SHALL BE UNIFORMLY SLOPED AWAY FROM THE POOL, USING DECK DRAINS AS MEANS TO PREVENT STANDING WATER.
3. THE MINIMUM SLOPE FOR THE WET DECK IS 2%, BUT IN THE PORTIONS OF THE DECK INTENDED TO BE ACCESSIBLE TO DISABLED PERSONS, IT MAYBE 1% LESS THAN THE MAXIMUM ALLOWABLE CROSS SLOPE GIVEN BY THE FLORIDA BUILDING CODE. ACCESSIBILITY: THE MAXIMUM SLOPE IS 4%. A MINIMUM OF 1% SLOPE IS ALLOWABLE FOR PAVES TILE DECK.
4. TEXTURED DECK FINISHES THAT PROVIDE TRIFLING AND CREVICES OF MORE THAN 3/16 INCH DEPTH THAT ACCUMULATE SOIL ARE PROHIBITED.
5. IF SETTLING OR WEATHERING OCCURS THAT WOULD CAUSE STANDING WATER, THE ORIGINAL SLOPE SHALL BE MAINTAINED.
6. WHEN A CURB IS PROVIDED, THE DECK SHALL NOT BE MORE THAN 10 INCHES BELOW THE TOP OF THE CURB.
7. OVER LEAK PERIMETER OVERFLOW SYSTEMS MAY BE SLOPED AT A MAXIMUM OF 4% TOWARD THE ROOM OR SLOT DRAINS AT A MINIMUM DISTANCE OF 18 INCHES WHERE DECK LEVEL PERIMETER OVERFLOW SYSTEMS ARE UTILIZED. DRAINS MUST BE 18 INCHES. THIS DISTANCE IS NOT APPLICABLE TO ZERO DEPTH ENTRANCES. A WET DECK AREA SHALL BE PROVIDED BEYOND THE TRENCH GRADE OR SLOT DRAIN.
8. ADDITIONAL OVERFLOWING EDGE IS PROVIDED, UP TO 40% OR 65 FEET, WHICHEVER IS LESS, OF THE WET DECK MAY BE LOWERED. LOWERED PORTIONS OF WET DECK SHALL BE AT LEAST 10 INCHES BUT NOT MORE THAN 36 INCHES ABOVE THE POOL WATER LEVEL OR CURB HEIGHT. LOWERED PORTIONS OF WET DECK SHALL BE ADJACENT TO THE REST OF THE WET DECK VIA A SET OF STAIRS OR A RAMP AT EACH END.
9. THE POOL DECK SHALL BE ADJACENT TO A TRANSFER WALL (SEE ADA CODE). ONE END OF THE LOWERED DECK MUST BE CONNECTED TO THE REST OF THE WET DECK VIA AN ACCESSIBILITY RAMP.
9. POOL WET DECKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET AROUND THE PERIMETER OF THE POOL, POOL CURB, LADDERS, HANDRAILS, DIVING BOARDS, DIVING TOWERS AND OTHER NON-ABSORBENT MATERIAL HAVING A SMOOTH SLIP RESISTANT FINISH AND HAVE POSITIVE DRAINAGE, INCLUDING A SUMP PUMP, IF NECESSARY.
10. TRAFFIC BARRIERS SHALL BE PROVIDED, AS NEEDED, SO THAT PARKED VEHICLES DO NOT EXTEND OVER INTO THE DECK AREA.
11. EQUIPMENT DESIGNATED BY THE MANUFACTURER FOR OUTDOOR USE MAY BE LOCATED IN AN EQUIPMENT AREA. ALL OTHER EQUIPMENT MUST BE LOCATED IN AN EQUIPMENT ROOM OR ENCLOSURE.
12. AN EQUIPMENT AREA SHALL BE SURROUNDED WITH A FENCE AT LEAST 4 FEET HIGH ON ALL SIDES NOT CONFINED BY A BUILDING OR EQUIVALENT STRUCTURE. A SELF-CLOSING AND SELF-LATCHING GATE WITH A PERMANENT LOCKING DEVICE SHALL BE PROVIDED IF NECESSARY, FOR ACCESS. AN EQUIPMENT ROOM OR ENCLOSURE SHALL BE PROVIDED WITH A SMOOTH SLIP RESISTANT FINISH AND HAVE POSITIVE DRAINAGE, INCLUDING A SUMP PUMP, IF NECESSARY.
13. ALL BELOW GRADE EQUIPMENT ROOMS SHALL HAVE A STAIRWAY ACCESS WITH FORCED DRAFT VENTILATION OR A FULLY LOUVERED DOOR AND POWERED INTAKE WITHIN 6 INCHES OF THE FLOOR.
14. WHERE STAIRWAY ACCESS IS NOT NECESSARY TO CARRY HEAVY ITEMS INTO THE BELOW GRADE ROOM OR VAULT, THE STAIRWAY SHALL BE USED IF SPECIFIED BY THE DESIGN ENGINEER. DESIGNER SHALL CONSIDER ANTICIPATED WORKLOAD INCLUDING EQUIPMENT REMOVAL; AND THE LADDER SLOPE, TREAD HEIGHT AND WIDTH; AND CONSTRUCTION MATERIAL OF THE LADDER.
13. THE OPENING TO AN EQUIPMENT ROOM OR AREA SHALL BE A MINIMUM 3 FEET BY 6 FEET AND SHALL PROVIDE EASY ACCESS TO THE EQUIPMENT.
12. THE SIZE OF THE EQUIPMENT ENCLOSURE, ROOM OR AREA SHALL PROVIDE WORKING SPACE TO PERFORM ROUTINE OPERATIONS.
13. CLEARANCE SHALL BE PROVIDED FOR ALL EQUIPMENT AS PRESCRIBED BY THE MANUFACTURER TO ALLOW NORMAL MAINTENANCE OPERATION AND REMOVAL WITHOUT DISTURBING OTHER PIPING OR EQUIPMENT.
14. IN ROOMS WITH FIXED CEILINGS, THE MINIMUM HEIGHT SHALL BE 7 FEET.
15. THE EQUIPMENT ROOM IS LIGHTED TO PROVIDE A MINIMUM 30 FC (300 LUX) OF ILLUMINATION AT FLOOR LEVEL.
16. EQUIPMENT ENCLOSURES, ROOMS OR AREAS SHALL NOT BE USED FOR STORAGE OF CHEMICALS EMITTING CORROSIVE FUMES OR FOR STORAGE OF OTHER ITEMS TO THE EXTENT THAT ENTRANCE TO THE ROOM FOR INSPECTION OR OPERATION OF THE EQUIPMENT IS IMPAIRED.
17. A HOSE BIBB WITH WATER BREAKER SHALL BE LOCATED IN THE EQUIPMENT ROOM OR AREA.
2. OUTDOOR POOL LIGHTING: LIGHTING SHALL PROVIDE A MINIMUM OF 3 FOOT-CANDLES (30 LUX) OF ILLUMINATION AT THE POOL WATER SURFACE AND THE POOL WET DECK SURFACE. UNDERWATER LIGHTING SHALL BE A MINIMUM OF 0.7 WATT INCANDESCENT, LED EQUIVALENT, OR 10 LUMENS, PER SQUARE FOOT OF POOL WATER SURFACE AREA.
3. OUTDOOR POOL LIGHTING: LIGHTING SHALL PROVIDE A MINIMUM OF 3 FOOT-CANDLES (30 LUX) OF ILLUMINATION AT THE POOL WATER SURFACE AND THE POOL WET DECK SURFACE. UNDERWATER LIGHTING SHALL BE A MINIMUM OF 0.7 WATT INCANDESCENT, LED EQUIVALENT, OR 10 LUMENS, PER SQUARE FOOT OF POOL WATER SURFACE AREA.
4. THE LOCATION OF THE UNDERWATER LUMINAIRES SHALL BE SUCH THAT THE UNDERWATER ILLUMINATION IS AS UNIFORM AS POSSIBLE.
5. UNDERWATER LIGHTING REQUIREMENTS CAN BE WAIVED WHEN THE OVERHEAD LIGHTING PROVIDES 30 FOOT-CANDLES (300 LUX) OF ILLUMINATION AT THE POOL WATER SURFACE AND POOL WET DECK SURFACE.
6. IF SIGNAGE CLEARLY INDICATES THAT NIGHT SWIMMING IS PROHIBITED, UNDERWATER LIGHTS SUPPLYING LESS THAN MINIMUM ILLUMINATION REQUIRED FOR NIGHT SWIMMING MAY BE INSTALLED IN AREAS WHERE PATRONS ARE ELIMINATED, HANDHOLDS SHALL BE PROVIDED WITHIN 9" OF THE WATER SURFACE. HANDHOLD DESIGN SHALL BE APPROVED BY THE JURISDICTIONAL BUILDING DEPARTMENT.
7. OVERHEAD WIRING: OVERHEAD SERVICE WIRING SHALL NOT PASS WITHIN AN AREA EXTENDING 4 FEET FROM THE WATER SURFACE TO THE DEEPEST PART OF THE POOL, WALLS, DIVING STRUCTURES, OBSERVATION STANDS, TOWERS OR PLATFORMS.
8. ALLOWANCES FOR OVERHEAD CONDUCTOR CLEARANCES TO POOLS THAT MEET THE SAFETY STANDARDS IN THE NATIONAL ELECTRICAL CODE MAY BE USED INSTED. ELECTRICAL EQUIPMENT WITHIN 18 INCHES OF THE POOL PERIMETER, IF PROVIDED, LIFTS MOUNTED INTO THE POOL DECK SHALL HAVE A MINIMUM 4-FOOT-WIDE (1,219 MM) DECK BEHIND THE LIFT MOUNT.

LIGHTING:

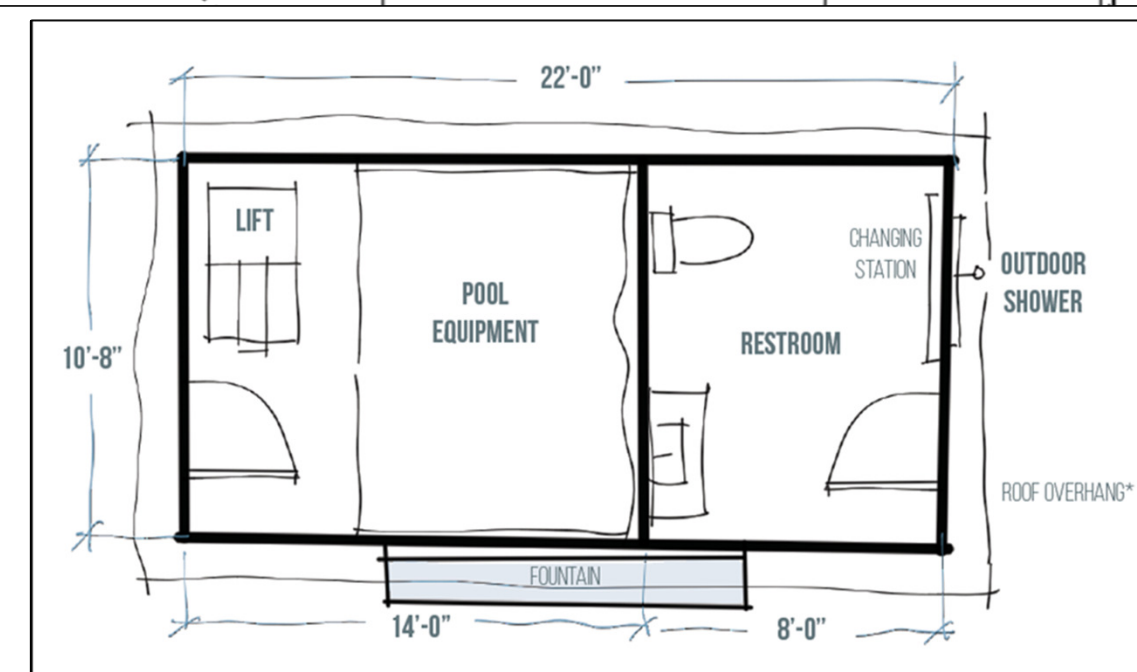
- 1. ARTIFICIAL LIGHTING SHALL BE PROVIDED AT ALL SWIMMING POOLS WHICH ARE TO BE USED AT NIGHT OR WHICH DO NOT HAVE ADEQUATE NATURAL LIGHTING SO THAT ALL PORTIONS OF THE POOL, INCLUDING THE DEEPEST PART OF THE POOL, ARE FULLY ILLUMINATED.
2. OUTDOOR POOL LIGHTING: LIGHTING SHALL PROVIDE A MINIMUM OF 3 FOOT-CANDLES (30 LUX) OF ILLUMINATION AT THE POOL WATER SURFACE AND THE POOL WET DECK SURFACE. UNDERWATER LIGHTING SHALL BE A MINIMUM OF 0.7 WATT INCANDESCENT, LED EQUIVALENT, OR 10 LUMENS, PER SQUARE FOOT OF POOL WATER SURFACE AREA.
4. THE LOCATION OF THE UNDERWATER LUMINAIRES SHALL BE SUCH THAT THE UNDERWATER ILLUMINATION IS AS UNIFORM AS POSSIBLE.
5. UNDERWATER LIGHTING REQUIREMENTS CAN BE WAIVED WHEN THE OVERHEAD LIGHTING PROVIDES 30 FOOT-CANDLES (300 LUX) OF ILLUMINATION AT THE POOL WATER SURFACE AND POOL WET DECK SURFACE.
6. IF SIGNAGE CLEARLY INDICATES THAT NIGHT SWIMMING IS PROHIBITED, UNDERWATER LIGHTS SUPPLYING LESS THAN MINIMUM ILLUMINATION REQUIRED FOR NIGHT SWIMMING MAY BE INSTALLED IN AREAS WHERE PATRONS ARE ELIMINATED, HANDHOLDS SHALL BE PROVIDED WITHIN 9" OF THE WATER SURFACE. HANDHOLD DESIGN SHALL BE APPROVED BY THE JURISDICTIONAL BUILDING DEPARTMENT.
7. OVERHEAD WIRING: OVERHEAD SERVICE WIRING SHALL NOT PASS WITHIN AN AREA EXTENDING 4 FEET FROM THE WATER SURFACE TO THE DEEPEST PART OF THE POOL, WALLS, DIVING STRUCTURES, OBSERVATION STANDS, TOWERS OR PLATFORMS.
8. ALLOWANCES FOR OVERHEAD CONDUCTOR CLEARANCES TO POOLS THAT MEET THE SAFETY STANDARDS IN THE NATIONAL ELECTRICAL CODE MAY BE USED INSTED. ELECTRICAL EQUIPMENT WITHIN 18 INCHES OF THE POOL PERIMETER, IF PROVIDED, LIFTS MOUNTED INTO THE POOL DECK SHALL HAVE A MINIMUM 4-FOOT-WIDE (1,219 MM) DECK BEHIND THE LIFT MOUNT.
10. VOLTAGE INSTALLATION: UNDERWATER LIGHTING, OR LIGHTING THAT MAY BE EXPOSED TO NOZZLE DIRECTED POOL WATER, SHALL NOT EXCEED 30 VOLTS DC OR 15 VOLTS AC. SUCH LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPROVED FOR SUCH USE BY UL OR NSF, AND WILL BE REVIEWED BY BUILDING DEPT.
ADDITION OF CHEMICALS:
1. AUTOMATED ORP 8 PH CONTROLLERS WITH SENSING PROBES SHALL BE PROVIDED ON ALL NEWLY BUILT PUBLIC SWIMMING POOLS TO ASSIST IN MAINTAINING PROPER DISINFECTION AND PH LEVELS.
2. ONLY NSF 60 APPROVED CHEMICALS SHALL BE PROVIDED.
3. FEEDERS MAY BE PROVIDED FOR THE USE OF FREE ACTIVE HALOGENS, TOTAL OR COMBINED AVAILABLE CHLORINE AND PH. NSF CERTIFIED TO LEVEL 1 ACCURACY.
4. IF A CYANURATE TYPE FEEDER IS USED, A CYANURIC ACID TEST KIT IS PROVIDED.
5. IF A SALT SOLUTION IN THE POOL WATER IS NECESSARY FOR A CHLORINE GENERATOR, A SODIUM CHLORIDE TEST KIT IS REQUIRED.
6. DISINFECTION AND PH ADJUSTMENT SHALL BE ADDED TO THE POOL RECIRCULATION FLOW USING AUTOMATIC FEEDERS MEETING THE REQUIREMENT OF ANSI/NSF 50.
7. ALL CHEMICALS SHALL BE FED INTO THE RETURN LINE AFTER THE PUMP, HEATER, AND FILTERS UNLESS THE FEEDER WAS DESIGNED BY THE MANUFACTURER AND APPROVED BY THE NSF TO FEED TO THE COLLECTOR TANK OR TO THE SUCTION SIDE OF THE PUMP.

POOL FENCE & BARRIERS AND POOL SIDE SAFETY EQUIPMENT

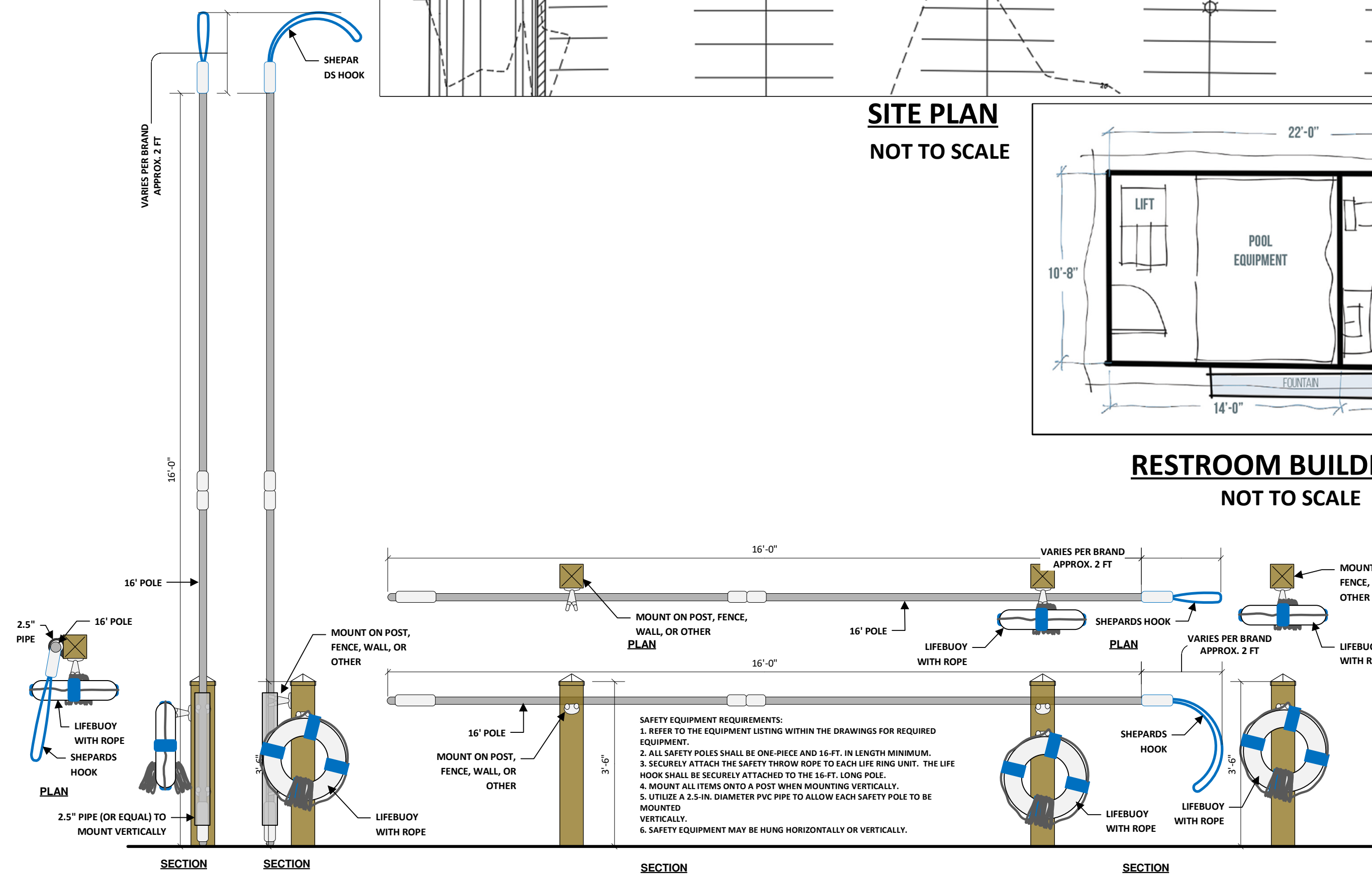
- 1. ALL PUBLIC POOLS SHALL BE SURROUNDED BY A MINIMUM 48 INCH HIGH FENCE OR OTHER APPROVED SUBSTITUTION BARRIER. THE FENCE SHALL BE CONTINUOUS AROUND THE PERIMETER OF THE POOL AREA AND IS NOT OTHERWISE BLOCKED OR OBSTRUCTED BY ADJACENT BUILDINGS OR STRUCTURES AND SHALL ADJOIN WITH ITSELF OR BARRIER TO THE ADJACENT MEMBERS.
2. ACCESS THROUGH THE BARRIER OR FENCE FROM DWELLING UNITS, SUCH AS HOMES, APARTMENTS, MOTEL ROOMS AND HOTEL ROOMS, SHALL BE THROUGH SELF-CLOSING, SELF-LATCHING LOCKABLE GATES OF 48 INCH MINIMUM CLEARANCE FROM THE FLOOR OR GROUND WITH THE LOCK LOCATED A MINIMUM OF 54 INCHES FROM THE BOTTOM OF THE GATE OR AT LEAST 3 INCHES BELOW THE TOP OF THE GATE ON THE POOL SIDE.
3. IF THE FENCE IS SELF-CLOSING, SELF-LATCHING GATE IS ALSO SELF-LOCKING AND IS OPERATED BY A KEY LOCK, ELECTRONIC OPERER OR INTERIOR COMBINATION LOCK, THEN THE OPERABLE PARTS OF SUCH LOCKS OR OPENERS SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND.
4. DOOR/DOOR ACCESS POINTS FROM PUBLIC ROOMS SUCH AS LOBBIES OR CLUB HOUSES NEED NOT BE THROUGH GATES IF THE DOOR(S) MEET THE SAME SELF-CLOSING, SELF-LATCHING REQUIREMENTS AS A GATE. OPERABLE PARTS USED FOR OPENING DOORS AT THESE ACCESS POINTS SHALL BE 45 INCHES MINIMUM TO 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
5. GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AREA.
6. PERMANENT NATURAL OR MANMADE FEATURES SUCH AS BULKHEADS, CANALS, LAKES, NAVIGABLE WATERWAYS, ETC., ADJACENT TO A POOL MAY BE PERMITTED AS A BARRIER WHEN APPROVED. WHEN EVALUATING SUCH BARRIER FEATURES, THE APPLICABLE GOVERNING BODY MAY PERFORM ONSITE INSPECTIONS, AND REVIEW EVIDENCE INCLUDING: AERIAL PHOTOGRAPHS, WATER MANAGEMENT GEOTECHNICAL STANDARDS AND SPECIFICATIONS, AND ANY OTHER SIMILAR DOCUMENTATION TO VERIFY AT MINIMUM, THE FOLLOWING: THE BARRIER FEATURE IS NOT SUBJECT TO NATURAL CHANGES, DEVIATIONS OR ALTERATIONS AND IS CAPABLE OF PROVIDING AN EQUIVALENT LEVEL OF PROTECTION AS THE BARRIER FEATURE. THE BARRIER FEATURE CLEARLY IMPEDES, PROHIBITS OR RESTRICTS ACCESS TO THE POOL.
7. SCREENED POOL ENCLOSURES MUST BE HARDENED ON THE BOTTOM 3 FEET (914 MM).
8. BRIDGES AND OVERHEAD OBSTRUCTIONS OVER THE POOL SHALL BE DESIGNED SO THEY WILL NOT INTRODUCE ANY CONTAMINATION TO THE POOL WATER.
9. THE MINIMUM HEIGHT OF THE BRIDGE OR OBSTRUCTION SHALL BE AT LEAST 4 FEET ABOVE THE SURFACE OF THE POOL IN ALL CASES EXCEPT WHEN THE POOL IS A RIVER RIDE WHERE IT SHALL BE AT LEAST 5 FEET ABOVE THE SURFACE OF THE POOL.
10. THE MINIMUM CLEARANCE FROM THE BRIDGE OR OBSTRUCTION SHALL BE PROVIDED ALONG EACH SIDE OF



SITE PLAN
NOT TO SCALE



RESTROOM BUILDING PLAN
NOT TO SCALE



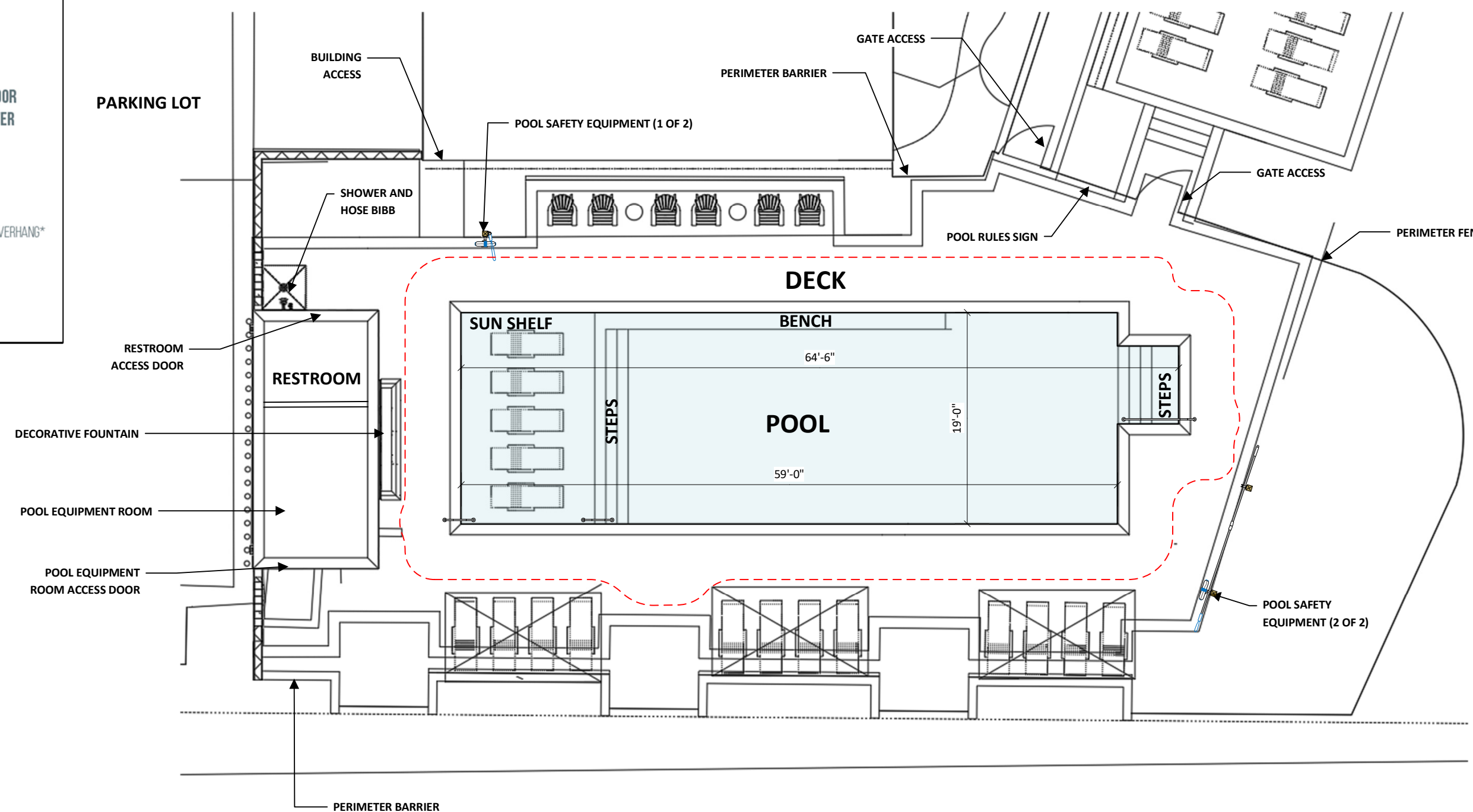
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CONTRACTOR NOTES

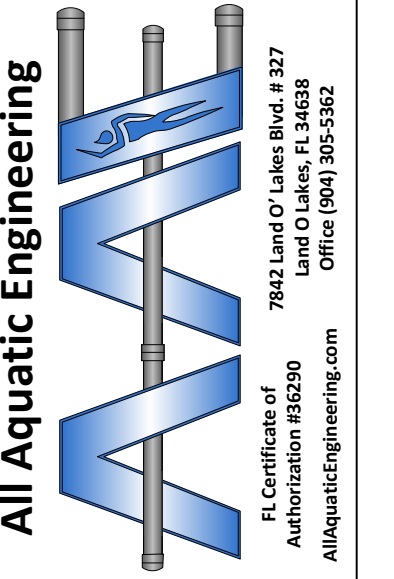
1. THE POOL CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION TO BECOME FAMILIAR WITH THE SITE, ACCESS, AND FIELD CONDITIONS.
2. THE POOL CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE ALL POOL ASSOCIATED PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION AND ANY REQUIRED AGENCY INSPECTIONS ARE SCHEDULED AND PASSED. THESE INCLUDE BUT ARE NOT LIMITED TO THE DEPARTMENT OF HEALTH PERMIT AND THE BUILDING DEPARTMENT PERMIT.
3. THE POOL CONTRACTOR SHALL LOCATE ALL EXISTING SUBSURFACE UTILITIES IN THE AREA USING ONE CALL OF FLORIDA, PRIOR TO POOL EXCAVATION. IF ANY UTILITIES ARE LOCATED WITHIN 15FT OF THE POOL OR EQUIPMENT EXCAVATION THAN COORDINATE WITH THE GENERAL CONTRACTOR FOR RELOCATION OF THE UTILITIES. ANY EXISTING UTILITIES NOT LOCATED AND DAMAGED BY THE POOL CONTRACTOR SHALL BE REPAIRED AT THE POOL CONTRACTOR'S EXPENSE. IF SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, THE POOL CONTRACTOR SHALL CONSULT WITH THE GENERAL CONTRACTOR.
4. ANY AREAS OUTSIDE OF POOL AREA THAT IS DISTURBED BY THE POOL CONSTRUCTION SHALL BE RESTORED TO GRADE AND SOODED.
5. POOL CONTRACTOR SHALL INSTALL EROSION CONTROL METHODS TO PREVENT SEDIMENT RUNOFF DURING STORM EVENTS OR CONSTRUCTION ACTIVITY. SILT FENCES AND INLET PROTECTION (WHERE APPLICABLE) SHALL BE INSTALLED PRIOR TO CONSTRUCTION BEGINS AND REPAIRED/REPLACED AS NEEDED DURING THE CONSTRUCTION PERIOD.
6. DEWATERING DISCHARGE REQUIRED FOR THE EXCAVATION SHALL BE DISCHARGED TO AN APPROVED LOCATION. POOL CONTRACTOR SHALL OBTAIN A DEWATERING PERMIT FOR THE POOL EXCAVATION, IF THE POOL CONSTRUCTION IS NOT ALREADY COVERED BY THE GENERAL CONTRACTOR'S SITE DEWATERING PERMIT.
7. ALL PIPING FOR THE POOL SHALL BE SCHEDULE 40 PVC. SEE POOL PLUMBING DRAWING FOR PIPE SIZE REQUIREMENTS. CHANGE IN PIPE DIRECTION SHALL BE VIA THE USE OF FITTINGS, WITH PIPE JOINT DEFLECTION ALLOWED FOR MINOR CHANGES IN DIRECTION. PIPE JOINT DEFLECTION SHALL NOT BE EXCEED 50% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION. PIPE COMING INTO CONTACT WITH POOL WATER SHALL BE NSF APPROVED AND LEAD-FREE. POOL CONTRACTOR SHALL USE COLORED PIPE CLEANER AND COLORED PIPE GLUE AT ALL PIPE CONNECTIONS; GLUE SHALL BE SPECIFICALLY DESIGNED FOR USE IN SWIMMING POOL PIPE INSTALLATION.
8. ALL POOL PIPING SHALL BE PRESSURE TESTED PRIOR TO COVER. RETURN (PRESSURE) AND VACUUM PIPING SHALL BE TESTED AT 40 PSI; MAIN DRAIN, SKIMMER, GUTTER (ALL GRAVITY LINES) SHALL BE TESTED AT 5PSI MINIMUM.
9. MAINTAIN AT LEAST 10-FT HORIZONTAL SEPARATION BETWEEN ANY NEW WATER AND SEWER LINES. WHERE WATER AND SEWER LINES CROSS, THE WATER LINE SHALL BE AT LEAST 18-INCHES ABOVE THE SEWER LINE. WHERE THE MINIMUM SEPARATIONS CAN NOT BE MAINTAINED THE JOINTS SHALL BE OFFSET TO BE TEN LINEAR FEET APART, OR ENCASED IN CONCRETE OR PIPE CASING.
10. ANY NEW WATERLINES EXTENDED FOR THE POOL POTABLE WATER FEED SHALL BE CLEANED, FLUSHED, DISINFECTED, AND TESTED FOR BACTERIOLOGICAL CONTAMINATION. PROCEDURES FOR CLEANING AND TESTING SHALL BE PER THE LATEST FDEP REQUIREMENTS.

1. SITE BACKGROUND BASED ON DEVELOPMENT DESIGN BY OTHERS. REFER TO BUILDING PERMIT FOR POOL DECK, FENCE, AND RESTROOM DESIGN, SHOWN HERE FOR REFERENCE AND COORDINATION.
2. DECK SHOWN HAS THE REQUIRED 4FT PERIMETER, THE POOL CONTRACTOR SHALL COORDINATE THE DECK DESIGN WITH THE GENERAL CONTRACTOR TO MAKE SURE IT IS IN COMPLIANCE WITH THE POOL CODE REQUIREMENTS.
3. PERIMETER FENCE AS SHOWN HAS MULTIPLE ACCESS GATES AND ACCESS FROM THE AMENITY CENTER, POOL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO MAKE SURE THE FENCE DESIGN IS IN COMPLIANCE WITH THE POOL CODE REQUIREMENTS. GATES SHALL BE SELF CLOSING - SELF LATCHING TYPE TO CONFORM WITH THE POOL CODE. SEE GENERAL NOTES FOR ADDITIONAL FENCE AND GATE REQUIREMENTS.
4. GENERAL CONTRACTOR TO PROVIDE POTABLE WATER, A SEWER CONNECTION, AND POWER TO THE POOL EQUIPMENT LOCATION.
 WATER - 1" POTABLE WATER FROM A PROTECTED SOURCE TO THE EQUIPMENT LOCATION AND TO THE COLLECTOR TANK.
 SEWER - WASTE PIPE SIZED TO HANDLE UP TO 100 GPM FOR 5 MINUTES, ONCE A WEEK DURING THE BUSY SEASON.
 PROVIDE CATCH BASIN/DRAIN IN EQUIPMENT AREA.
 POWER - 1 PHASE 208Y/120V TO EQUIPMENT LOCATION.

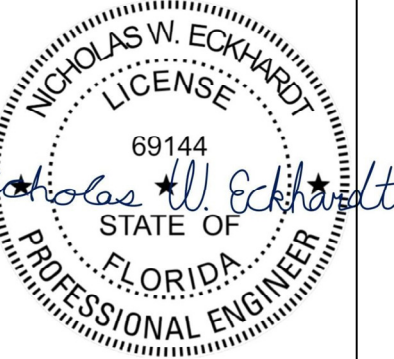
- Outdoor Pool/Spa Night Use:**
454.1.4.2.1 FBC: Outdoor pool/spa lighting shall provide a minimum of 3 foot-candles of illumination at the pool water surface and the pool wet deck surface. Underwater lighting shall be a minimum of 1/2 watt per square foot of pool water surface area. *
- Pool with a Zero-Depth Entry Portion:**
454.1.9.6.7 FBC: Those portions of the zero-depth entry pool, where the water depth will not allow for the proper installation of underwater lighting, shall be provided with 6 foot-candles of lighting on the deck and the water surface.
- Wading Pool:**
454.1.7.8 FBC: Wading pools are exempt from underwater lighting requirements but shall have lighting installed for night use of 10-foot candles if indoors or 6 foot-candles for outdoor night use. Such illumination shall be provided over the pool water surface and the pool deck surface.
- WAP/IWE:**
WAP 454.1.9.3.4 FBC: Those portions of the activity pool where the water depth will not allow for the proper installation of underwater lighting shall be provided with 6 foot-candles of lighting on the deck and water surface.
IWF 454.1.9.8.4 FBC: If night operation is proposed, 6 foot-candles of light shall be provided on the pool deck and the water feature area.
- Indoor Pool Lighting:**
454.1.4.2.2 FBC: Indoor pool lighting shall provide a minimum of 10-foot candles of illumination at the pool water surface and the pool wet deck surface. Underwater lighting shall be a minimum of 8/10 watt per square foot of pool surface area. *



POOL PLAN
1:10



Nicholas W. Eckhardt, FL P.E. # 69144
 Nick@allaquaticengineering.com



12/18/2025

CONSTRUCTION DRAWINGS FOR
One Seagrove Place Condo
 4100 E County Hwy 30A,
 Santa Rosa Beach, FL 32459
 WALTON COUNTY USA

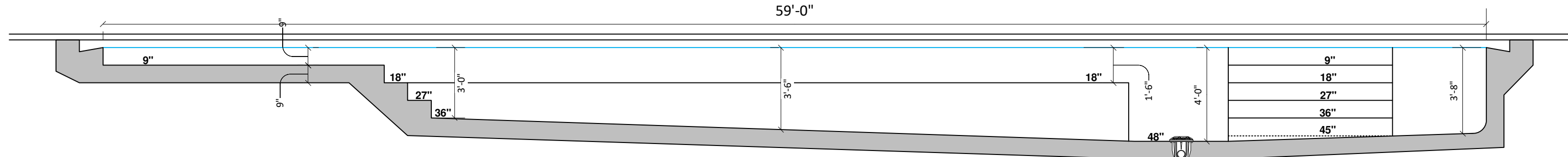
Sheet Title
Pool Site
Plan

Drawing Release Date(s):
 2025, Dec 18
 PN - Y25-0001
 Engineer - N. Eckhardt
 Builder - tbd
 Checked - DAG
 Date - Dec 2025
 Scale: 1:10

Drawing #
C1.0
 3 of 9

POOL SIZING DATA AND CALCULATIONS

SERVICE TYPE/UNITS: 129 UNITS (NON-TRANSIENT)
 UNIT FACTORS: 4.5 SF/UNIT & 0.75 GPM/UNIT NON-TRANSIENT
 MIN FLOW: 129 X 0.75 = 96.75 GPM (NT)
 POOL AREA: 1,160 SQ. FT.
 POOL PERIMETER: 167 FT.
 POOL DEPTHS: 3' TO 4' AND 9" SUN SHELF
 POOL VOLUME: 25,679 GALLONS
 POOL FLOW RATE: 100 GPM
 FEATURE FLOW: NONE
 INLETS: 6 REQUIRED PER FLOW, 8 BASED ON POOL DESIGN, 12.5 GPM PER INLET
 SUN SHELF 1: 228 SF @ 9" DEEP = 1,279 GALLONS @ 60 MIN TURNOVER, 21.32 GPM MIN, 2 INLETS REQUIRED, 2 PROVIDED AT 25.0 GPM, 1,279 GAL/25 = 51.16 MINUTE TURNOVER
 MAIN POOL: 932 SF @ 3.5' DEEP = 24,400 GALLONS @ 6 HR TURNOVER, 67.78 GPM MIN, 6 INLETS PROVIDED AT 75 GPM OR 5.42 HRS, 25,679 GALLONS WITH AN AVERAGE TURNOVER OF 4.28 HRS
 POOL CAPACITY: 25,679 GALLONS WITH AN AVERAGE TURNOVER OF 4.28 HRS
 GUTTER INLETS AT 10FT SPACING: 17 UNITS REQUIRED BASED ON PERIMETER, 20 UNITS PROVIDED AT 8.75FT SPACING (BACK OF GUTTER)
 MAIN DRAINS: 0.37 SF REQUIRED BASED ON RECIRCULATION FLOW, 1.0 SF PROVIDED
 FILTER SIZING: 5.0 SF/6.67 SF SAND FILTER AT 15/20 GPM/SF MIN, 6.31 SF SAND FILTER PROVIDED, 34" SAND FILTER
 CHEMICAL DOSING: 6 PPM DOSE CHLORINE AND 1 PPM ACID CHLORINE - 7.2 LB/DAY OR 8.6 GAL/DAY (@ 10% CHLORINE), 4.3 GALLON MINIMUM CHLORINE STORAGE ON SITE, ACID - 1.2 LB/DAY OR 4.5 GAL/DAY (@31.5% HCL), 2.3 GAL RECOMMENDED ACID STORAGE ON SITE
 UNDERWATER LIGHTING AT 1/2 WATT PER SF OR 10 LUMENS PER SF (OUTDOOR), 1,160 X 1/2 = 580 WATT MINIMUM, 2 X 300 WATT LIGHTS INCANDESCENT, 11,600 LUMENS MINIMUM BRIGHT WHITE LED, NO NIGHT SWIMMING UNLESS CERTIFIED.
 ACCESS, ONE PER EACH 75 LFT STEPS AT SUN SHELF AND STEPS AT DEEP END EGRESS.
 BATHING LOAD: ONE BATHER PER 5 GPM RECIRCULATION FLOW = 20, ONE BATHER PER 20 SF POOL SURFACE AREA = 58, 20 BATHERS MAX - LESSER OF THE TWO



PER FBC 454.1, THE FLOOR SLOPES SHALL BE A MAXIMUM 1 UNIT VERTICAL TO 10 UNITS HORIZONTAL (1:10 OR 10% SLOPE) AND A MINIMUM OF 1 UNIT VERTICAL TO 60 UNITS HORIZONTAL (1:60 OR 1.67% SLOPE) IN AREAS OF 5FT DEEP OR LESS. IN AREAS OF 5FT DEEP OR GREATER THE MAXIMUM SLOPE SHALL BE 1 UNIT VERTICAL TO 3 UNITS HORIZONTAL (1:3 OR 33.3% SLOPE).

DESIGN FLOOR SLOPES:

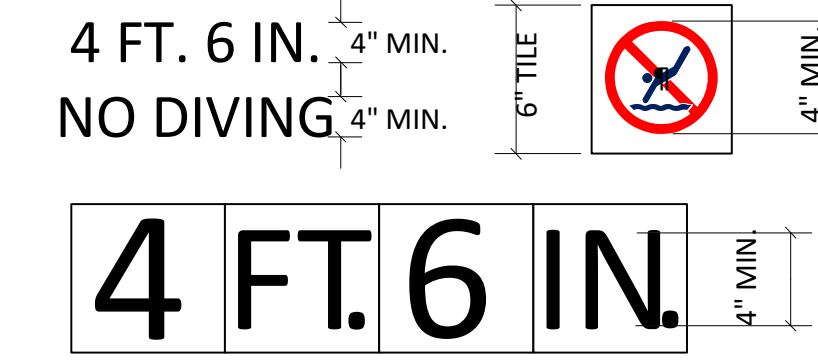
DEPTH 1	DEPTH 2	DISTANCE	SLOPE
3'-0"	4'-0"	30'-0"	1:30
4'-0"	3'-8"	11'-0"	1:30

POOL EQUIPMENT

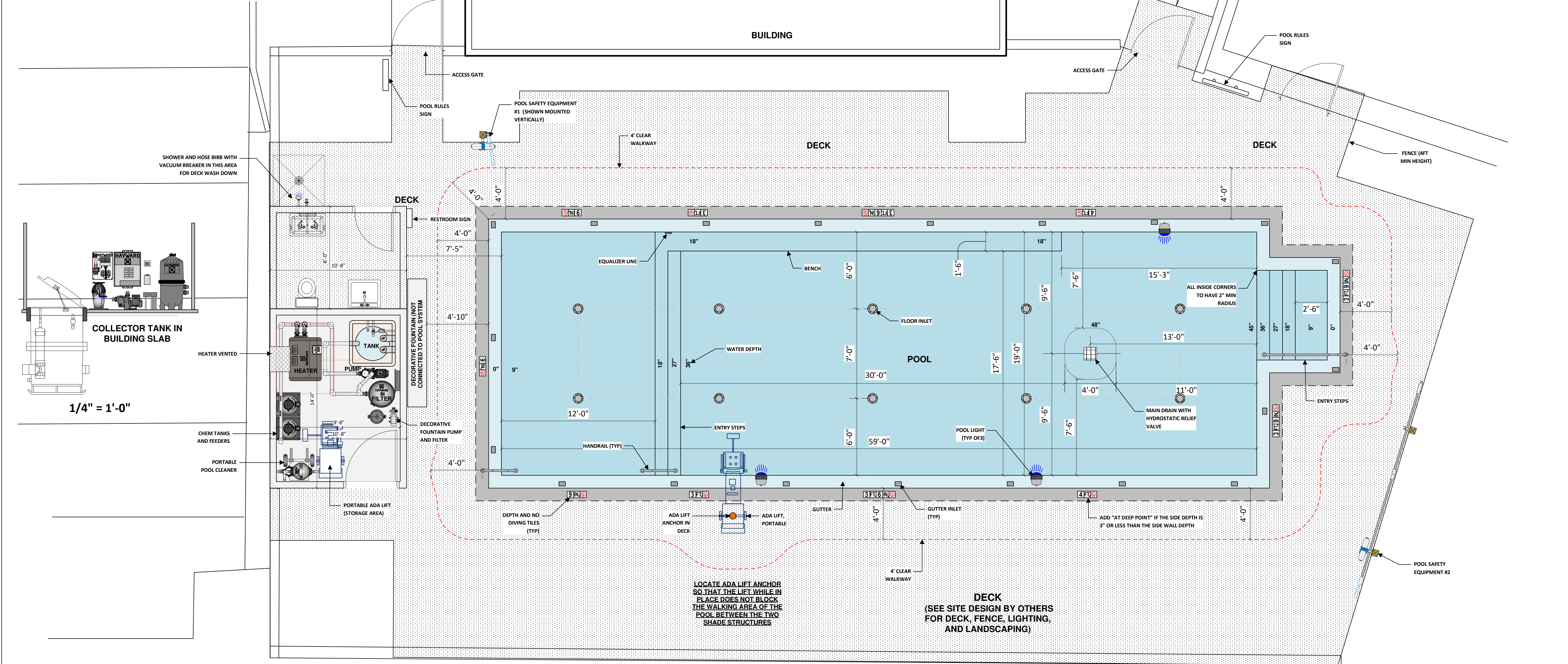
QUANTITY	ITEM	MANUF./SUPPLIER	MODEL NUMBER	DESCRIPTION
1	MAIN DRAIN	HAYWARD	WG1032	ANTI-ENTRAPMENT, 12"X12" SQUARE, 41.07 SQ. IN. OPEN (192 GPM@1.5FPS)
20	GUTTER DRAIN	HAYWARD	SP-1019	4" GUTTER DRAIN, 2.87 SQ. IN. OPEN, 2" SOCKET
8	FLOOR RETURN	HAYWARD	SP-1425	FLUSH MOUNT, ADJUSTABLE FLOOR INLET, 1 1/2" SOCKET
1	EQUALIZER LINE	HAYWARD	SP-1019	COVER FOR EQUALIZER PENETRATION, 2" SOCKET
1	HYDROSTATIC	RECREONICS	34-601	HYDROSTATIC RELIEF VALVE WITH TUBE, 2" SOCKET
3	HANDRAIL	SPECTRUM	350xx	3-BEND, 1.9" OD, .065" WALL THICKNESS, STAINLESS STEEL, ADA
3	LIGHT	HAYWARD	LPWUS220XX	WHITE LED, 12-15VOLT, 500 WATT EQUIVALENT, 4900 LUMENS, WITH NICHE
3	LIGHT NICHE	HAYWARD	LFGUY1000	UNIVERSAL CRYSTALOGIC (UCL) PLASTIC POOL NICHE
1	JUNCTION BOX	HAYWARD	LTBUY11300	POOL LIGHT, 120VAC TO 12V-15V, 300 WATT TRANSFORMER
1	VACUUM	ALADDIN EQ. CO.	THE SCAMP	PORTABLE VAC SYSTEM, 3/4HP HAYWARD PUMP WITH 75SF HAYWARD CARTRIDGE FILTER ON CART W/HOSES
1	HANDICAP LIFT	AQUA CREEK	MIGHTY 400	POOL LIFT WITH ANCHOR, VITO BATTERY WITH CHARGER, AND F-MTTC TRANSPORT CART

DEPTH MARKING TILES AND NO DIVING TILES SHALL BE PROVIDED AT THE LOCATIONS SHOWN, WITH A MAXIMUM SPACING OF 25FT, 20FT MAXIMUM SPACING AT THE SUN SHELF. LETTERING SHALL BE A MINIMUM OF FOUR INCHES HIGH AND MADE OF A DARK COLOR WITH A CONTRASTING BACKGROUND. DEPTH AND NO DIVING MARKINGS SHALL BE WITHIN TWO FEET OF THE WATER'S EDGE ON THE COPING OR DECK WITH THE SAME MARKING IN THE POOL WALL ABOVE THE WATER LEVEL. MARKINGS SHALL BE NON-SKID TYPE.

"NO ENTRY, SHALLOW WATER" SIGNS SHALL BE PROVIDED ALONG THE POOL WALL EDGE WHERE THE WATER IS LESS THAN 4FT DEEP. NO ENTRY SIGNS SHALL BE SLIP RESISTANT, AND HAVE 4-INCH-HIGH LETTERS, LOCATED WITHIN 2FT FROM THE POOL EDGE, SPACED NO MORE THAN 15FT APART.



DEPTH SHALL BE DETERMINED BY MEASURING THE NORMAL WATER OPERATING LEVEL AT 3'-R OUT FROM THE INSIDE WALL. NO DIVING TILES SHALL EITHER BE SPELLED OUT ON 6" TILES WITH 4" LETTERING OR BY USING THE RED INTERNATIONAL NO DIVING SYMBOL AS SHOWN.



All Aquatic Engineering
 Nicholas W. Eckhardt, FL P.E. # 69144
 Nick@allaquaticengineering.com

NICHOLAS W. ECKHARDT
 69144
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 12/18/2025

CONSTRUCTION DRAWINGS FOR
One Seagrave Place Condo
 4100 E County Hwy 30A,
 Santa Rosa Beach, FL 32459
 WALTON COUNTY USA

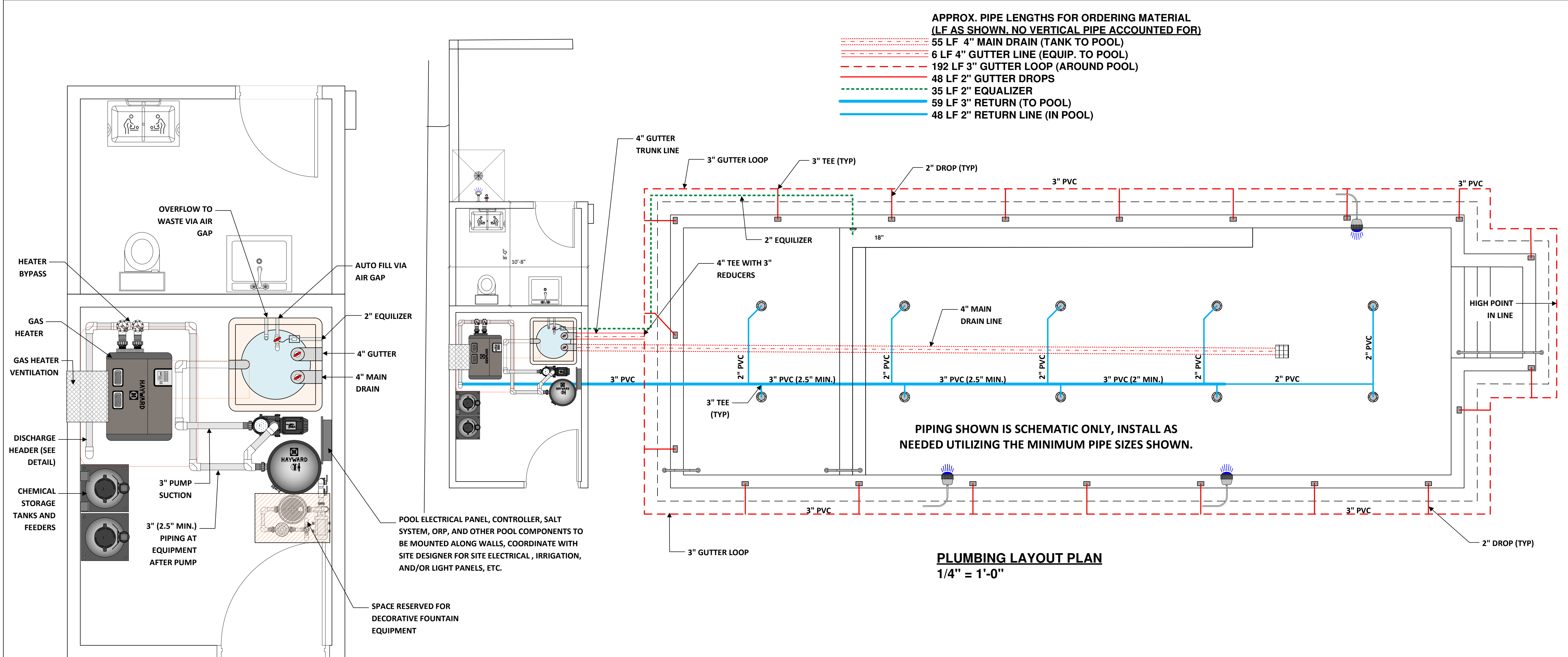
Sheet Title
Pool Dimension Plan

Drawing Release Date(s):
 2025, Dec 18
 PN - Y25-0001
 Engineer - N. Eckhardt
 Builder - tbd
 Checked - DAG
 Date - Dec 2025
 Scale: 1/4" = 1'-0"

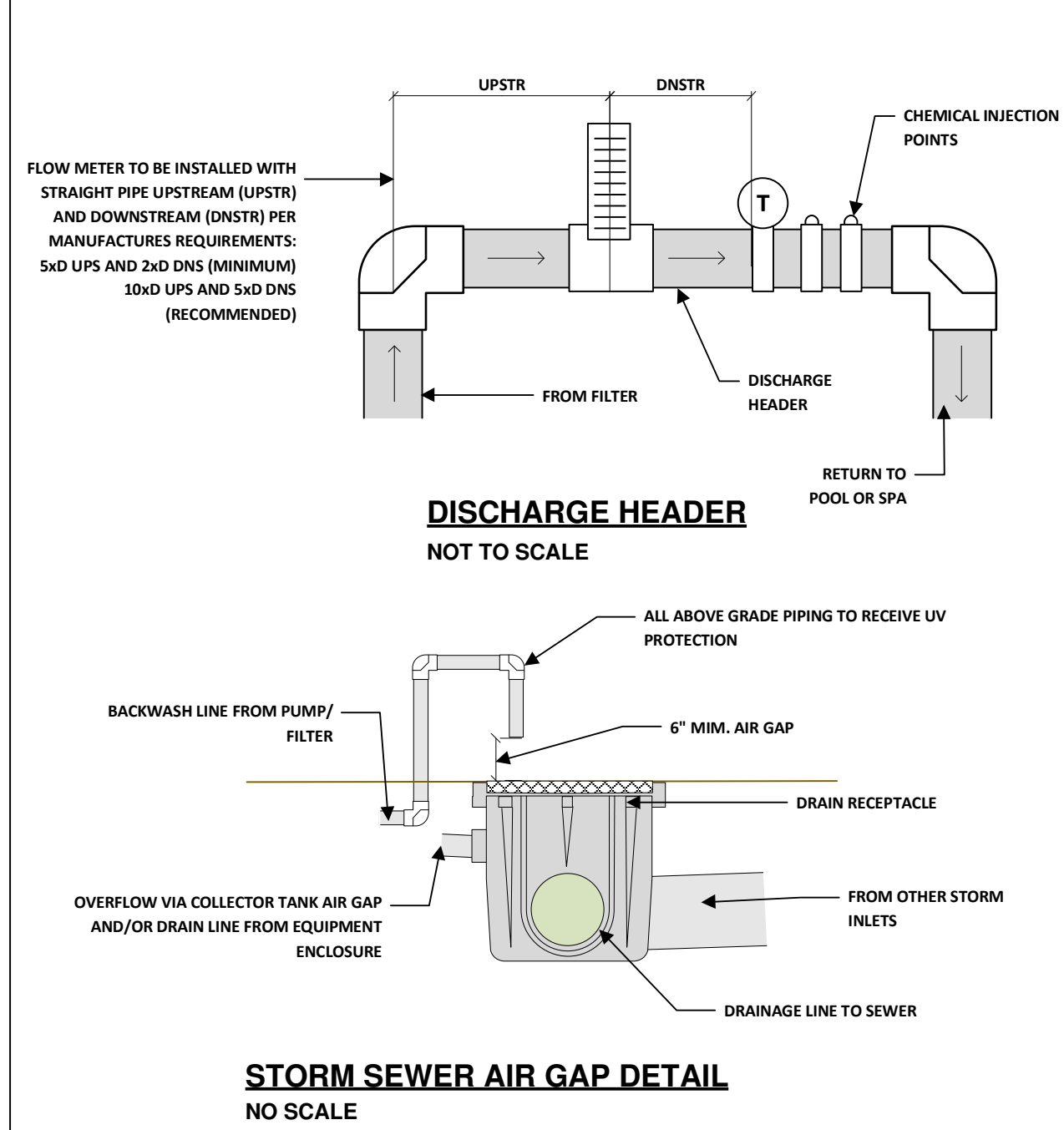
Drawing #
C1.1
 4 of 9

**APPROX. PIPE LENGTHS FOR ORDERING MATERIAL
 (LF AS SHOWN, NO VERTICAL PIPE ACCOUNTED FOR)**

- 55 LF 4" MAIN DRAIN (TANK TO POOL)
- 6 LF 4" GUTTER LINE (EQUIP. TO POOL)
- 192 LF 3" GUTTER LOOP (AROUND POOL)
- 48 LF 2" GUTTER DROPS
- 35 LF 2" EQUALIZER
- 59 LF 3" RETURN (TO POOL)
- 48 LF 2" RETURN LINE (IN POOL)



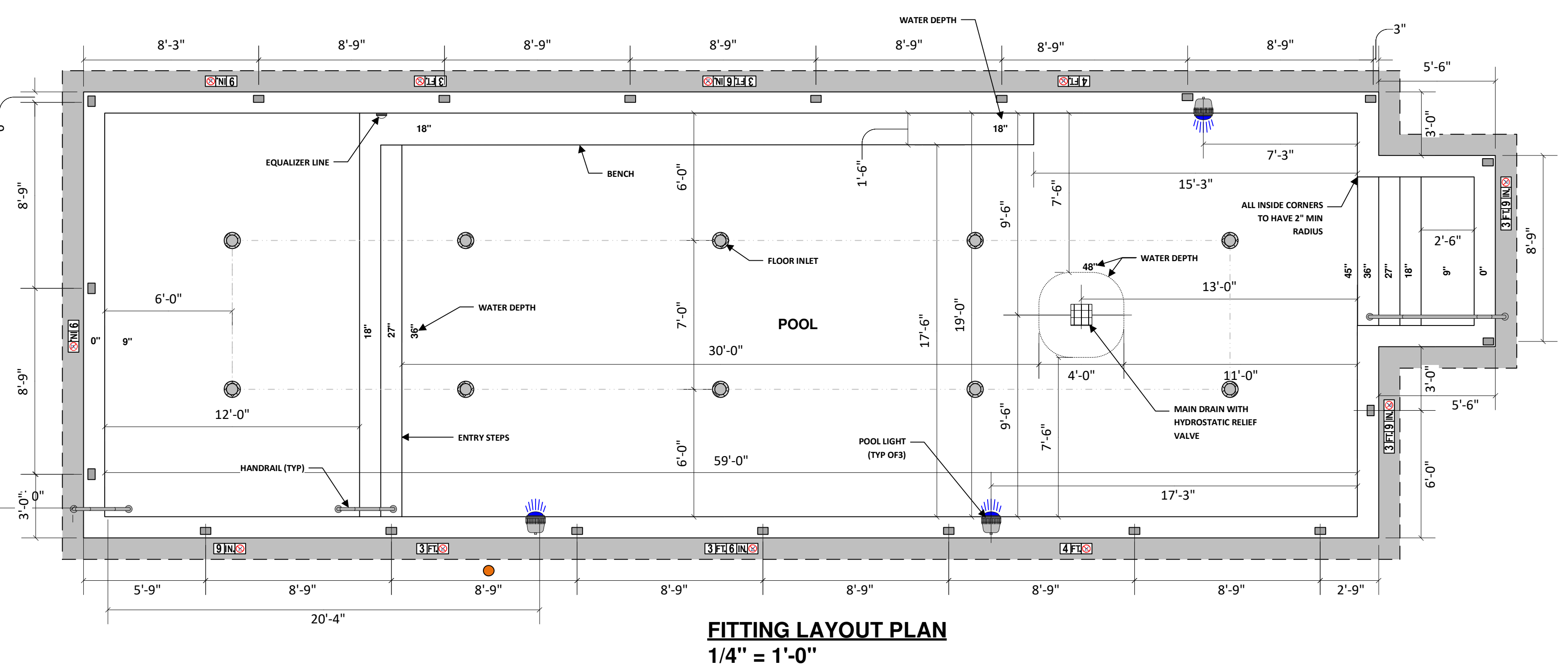
EQUIPMENT ROOM LAYOUT
 1/2" = 1'-0"



PIPE VELOCITY
 3FT/S MAX GRAVITY, 6FT/S SUCTION, & 8FT/S RETURN

100 GPM	GUTTER LINE	4" PIPE	= 2.56 FT/S
50 GPM	GUTTER LOOP	3" PIPE	= 2.21 FT/S
100 GPM	MAIN DRAIN	4" PIPE	= 2.56 FT/S
100 GPM	RETURN	3" PIPE	= 4.42 FT/S
50 GPM	RETURN	2" PIPE	= 4.88 FT/S
25 GPM	RETURN	1.5" PIPE	= 4.04 FT/S
12.5 GPM	RETURN	1" PIPE	= 4.82 FT/S
100 GPM	RECIRC SUCTION	3" PIPE	= 4.42 FT/S

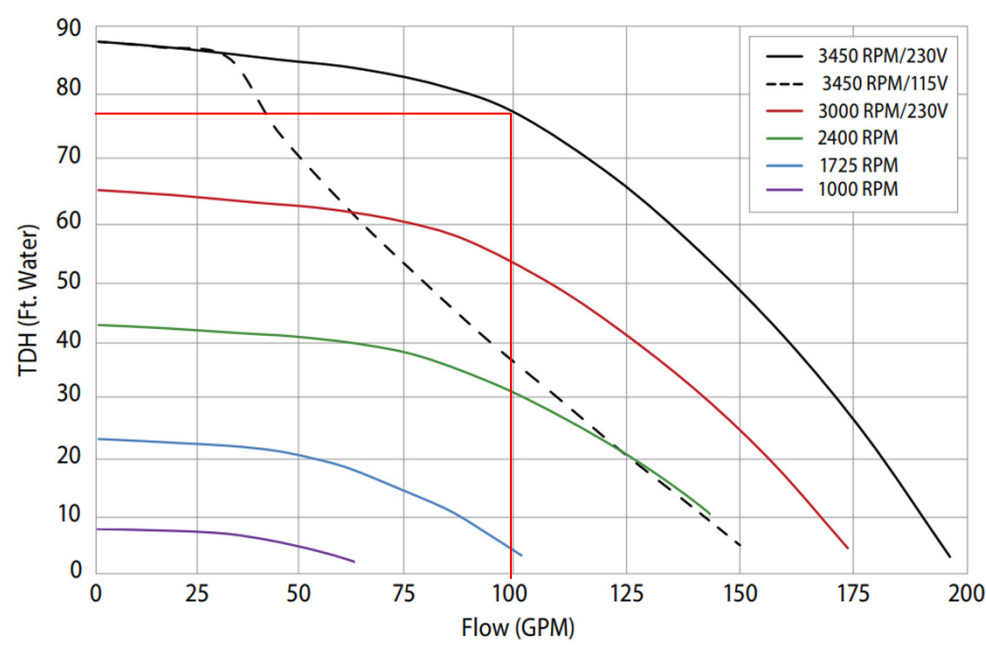
MAX VELOCITY	MAXIMUM FLOW RATE (GPM)			
	3 FT/S	6 FT/S	8 FT/S	10 FT/S
PIPE DIA.	GRAVITY	SUCTION	PRESSURE	PRESSURE
1"	7	15	20	24
1.5"	17	33	49	55
2"	29	59	82	98
2.5"	46	92	122	153
3"	66	132	181	220
4"	117	235	313	392
6"	264	529	712	881
8"	470	940	1235	1567
10"	730	1460	1948	2436
12"	1035	2075	2767	3459
14"	1255	2510	3346	4183
16"	1639	3278	4370	5463
18"	2074	4149	5532	6916



HAYWARD®

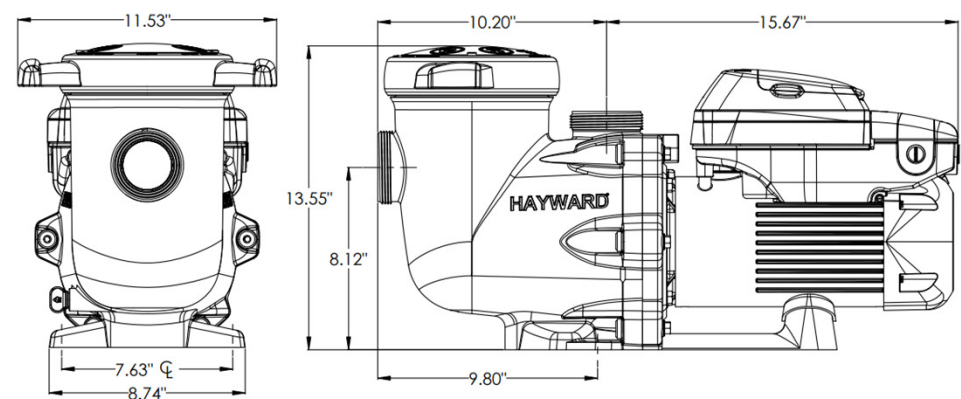
TriStar® VS 950

TRISTAR VS 950 PERFORMANCE COMPARISON



MODEL NUMBER	STAND ALONE	RELAY CONTROL	HAYWARD® AUTOMATION	VOLTAGE	TOTAL HP	SPEED RANGE	UNION CONNECTIONS	EXTENDED WARRANTY
SP32950VP	•	•	•	230V/15V	2.7/1.5	400-3450 RPM	2" x 2.5"	4 years

TRISTAR VS 950 DIMENSIONS (INCHES)



HAYWARD®

Fittings

Model Number	Pipe Size	Description
Inlet Receptacles & Vacuum Fittings – Concrete Pools		
SP1022*	1 1/2" FIP	1.5" Threaded Return Fitting
SP1022S*	1 1/2" SKT	1.5" Socket Return Fitting
SP1022S2*	2" SKT	2" Socket PVC Return Fitting
SP1022INS	1 1/2" INS	Fitting (1 1/2" FIP face x 1 1/2" SLIP stub end)
SP1022B**	1 1/2" MIP	Flush Plug with Gasket
SP1022C**	1 1/2" MIP	All Purpose Plug with O-Ring
SP1022C2BK	2" MIP	All Purpose Plug With O-Ring
Directional Flow Inlet Fittings – Standard (Return to Pool)		
SP1419A*	1 1/2" MIP	Hydrosweep slotted opening
SP1419B*	1 1/2" MIP	Hydrosweep 3/4" opening
SP1419C*	1 1/2" MIP	Hydrosweep 1/2" opening
SP1419D*	1 1/2" MIP	Hydrosweep 3/8" opening
SP1419E*	1 1/2" MIP	Hydrosweep 1" opening
SP1420	1 1/2" MIP	Hydrosweep, 1" rubber nozzle
SP1421D*	1 1/2" SLIP	Hydrosweep Insider Fitting – 3/4" opening
SP1421E	1 1/2" SLIP	Hydrosweep Insider Fitting – 1" opening

HAYWARD®



9", 12" and 18" Drain Covers and Frames

Model Number	Size	Cover Open Area Sq. Inch	Flow Rate GPM	Ctn. Qty.	Ctn. Weight
Replacement cover and inner frame					
WG1031BHF2	9" x 9"	23.96	112	10	12 lbs.
WG1032BHF2	12" x 12"	41.07	192	10	18 lbs.
WG1033BHF2	18" x 18"	124.1	580	10	39 lbs.
Cover, inner frame and outer frame (2 pack)					
WG1031HF2PAK2	9" x 9"	23.96	112	4	18 lbs.
WG1032HF2PAK2	12" x 12"	41.07	192	4	30 lbs.
WG1033HF2PAK2	18" x 18"	124.1	580	2	31 lbs.
3" suction outlet sump with cover (2 pack)					
WG1061HF2PAK2	9" x 9"	23.96	112	1	6 lbs.

HAYWARD®

HCF Series 30" HCF Series 34" HCF Series 36"

FILTER MODEL NUMBER	DIMENSIONS (INCHES)					SAND QTY. LBS.	INSTALLATION CLEARANCE (INCHES)		CARTON WEIGHT LBS.	CARTON DIMENSIONS (LxWxH)
	A	B	C	D	E		VERT.	HOR.		
HCF230C	16.25	23.75	31.49	42.6	2	600	18	4	108	33.5" x 33.5" x 40.2"
HCF234C*	18.75	26.25	33.85	46.4	2	750	18	4	134.4	37" x 37" x 44.5"
HCF236C	18.75	26.25	37.4	47.6	2.5	900	18	4	167.5	38.6" x 38.6" x 45.7"
HCF336C	18.5	26.22	37.4	47.6	3	900	18	4	180.7	38.6" x 38.6" x 45.7"

STENNER PUMPS

Model	Item Number	Pump Type	Gallons per Hour	Flow Rate (GPM)	Head (ft.)	Motor Type	Motor Voltage	Motor Amps	Motor RPM	Weight (lbs.)
40M1	40M1L1	1	0.2 to 3.0	0.01 to 0.13	0.02 to 0.27	0.8 to 11.4	0.03 to 0.48	0.50 to 7.92	120V	1.5
40M2	40M2L2	2	0.5 to 10.0	0.02 to 0.42	0.04 to 0.69	1.9 to 21.9	0.08 to 3.58	1.32 to 26.32	120V	3.0
40M3	40M3L3	3	1.1 to 22.0	0.03 to 1.52	0.05 to 1.65	4.2 to 63.3	0.18 to 8.67	2.82 to 56.26	120V	6.0
40M4	40M4L4	4	1.7 to 35.0	0.07 to 3.46	0.15 to 3.11	6.4 to 122.3	0.27 to 5.52	4.44 to 92.02	120V	9.0
40M5	40M5L5	5	2.5 to 60.0	0.10 to 6.00	0.20 to 4.44	11.9 to 218.8	0.44 to 12.88	6.66 to 134.43	120V	15.0
40M6	40M6L6	6	3.3 to 90.0	0.13 to 9.00	0.27 to 6.66	15.9 to 327.3	0.62 to 17.33	8.88 to 178.45	120V	22.5
40M7	40M7L7	7	4.2 to 120.0	0.17 to 12.00	0.36 to 8.88	21.9 to 453.6	0.84 to 23.11	12.12 to 242.40	120V	30.0
40M8	40M8L8	8	5.1 to 150.0	0.21 to 15.00	0.48 to 11.76	30.0 to 633.0	1.12 to 31.68	16.32 to 333.12	120V	45.0
40M9	40M9L9	9	6.0 to 180.0	0.25 to 18.00	0.60 to 15.60	40.5 to 864.0	1.50 to 43.20	22.50 to 450.00	120V	67.5
40M10	40M10L10	10	7.0 to 210.0	0.30 to 21.00	0.84 to 21.12	54.0 to 1134.0	2.10 to 58.80	31.50 to 630.00	120V	101.25

Blue-White Industries, Ltd.

Model Number Matrix	Part No.	Part Description	Part No.	Part Description
F-300	F-300	F-300	F-300	F-300
U-300	U-300	U-300	U-300	U-300
D-300	D-300	D-300	D-300	D-300

HAYWARD®

Universal H-Series Natural Gas 150k BTU Low NOx
 Universal H-Series Natural Gas 500k BTU Low NOx

SPECIFICATIONS AND DIMENSIONS	H500FD	H400FD	H250FD	H200FD	H150FD
BTU/hr	500,000	399,900	250,000	199,900	150,000
Thermal efficiency	83%	84%	83%	83%	82.7%
Width (inches)	40"	34"	25"	22"	19"
Depth (inches)	29 1/2"	29 1/2"	29 1/2"	29 1/2"	29 1/2"
Height (inches)	24"	24"	24"	24"	24"
Water connections	2" x 2 1/2"	2" x 2 1/2"	2" x 2 1/2"	2" x 2 1/2"	2" x 2 1/2"
Heat exchanger	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel
Indoor vent pipe diameter (inches) natural gas	6"	6"	4"	6"	6"
Indoor vent pipe diameter (inches) propane gas	8"	8"	6"	6"	6"
Heater weight (lbs)	223	160	134	123	110
Gas connection at heater	1"	3/4"	3/4"	3/4"	3/4"

Table 1: Natural Gas Pipe Sizing (dia. in.), Low-Pressure, Single-Stage Regulation					
Gas Line Material	150,000	200,000	250,000	400,000	500,000
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1

Table 4: Propane Gas Pipe Sizing (dia. in.), High-Pressure, 2-Stage Regulation					
Gas Line Material	150,000	200,000	250,000	400,000	500,000
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1

Table 3: Natural Gas Pipe Sizing (dia. in.), High-Pressure, 2-Stage Regulation					
Gas Line Material	150,000	200,000	250,000	400,000	500,000
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1
Iron or Plastic Pipe	1	1	1	1	1

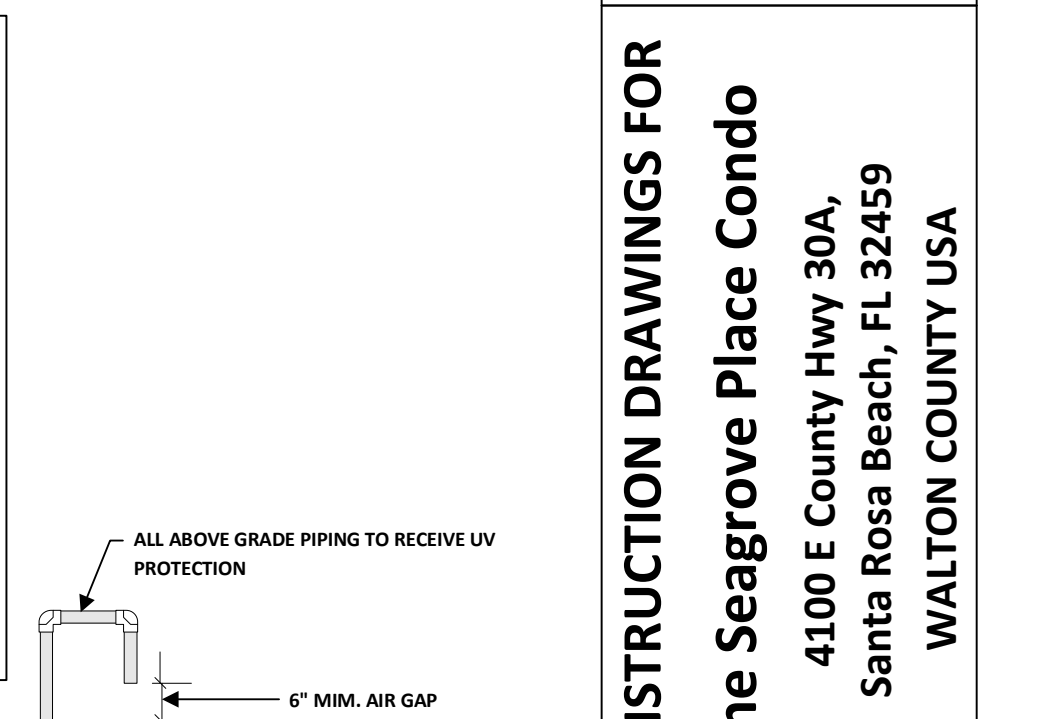
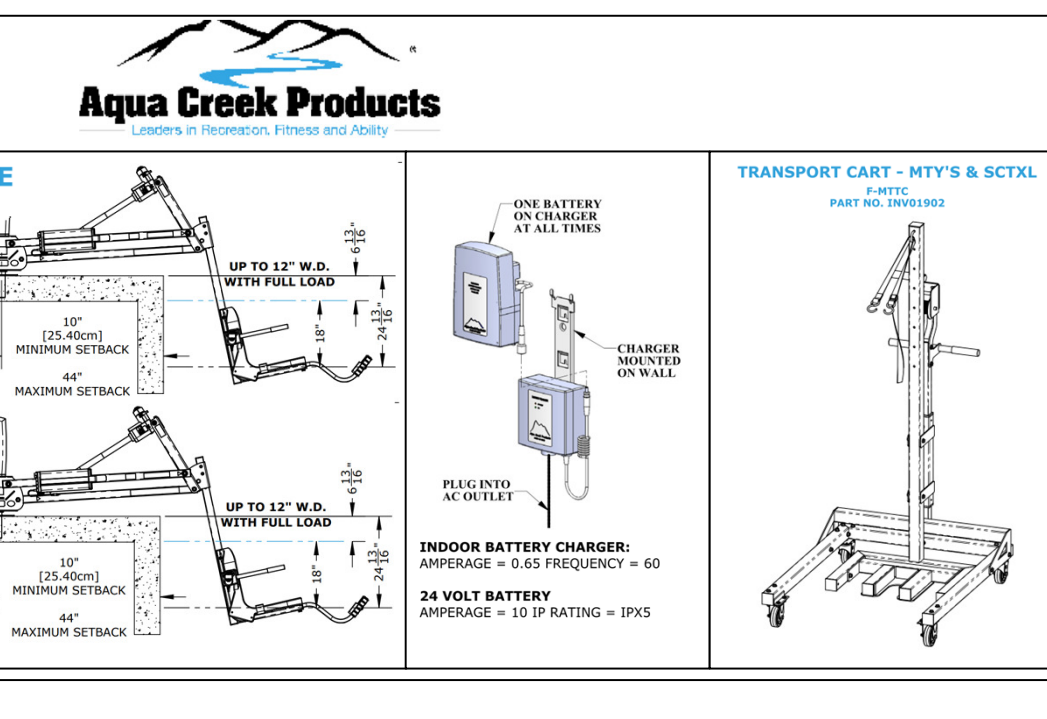
SRSmith Stair Rails

Part No.	Description	A	B	C	D	E	Length	Width	Height
SHR-4	3-Bend Rail, 4"	26"	4'-0"	18"	32"	26"	11-32	40"	42"
SHR-5	3-Bend Rail, 5"	36"	5'-0"	18"	32"	26"	12-34	72"	42"
SHR-5.5	3-Bend Rail, 5.5"	32"	5'-6"	18"	32"	29"	6-3/16	196mm	107mm
SHR-6	3-Bend Rail, 6"	46"	6'-0"	18"	32"	26"	13-32	84"	42"
SHR-6.5	3-Bend Rail, 6.5"	32"	6'-6"	35"	34"	29"	16-34	90"	42"
SHR-7	3-Bend Rail, 7"	36"	7'-0"	40"	30"	29"	18-34	94"	42"
SHR-8	3-Bend Rail, 8"	30"	8'-0"	53"	34"	33"	21-39	105"	42"

HAYWARD®

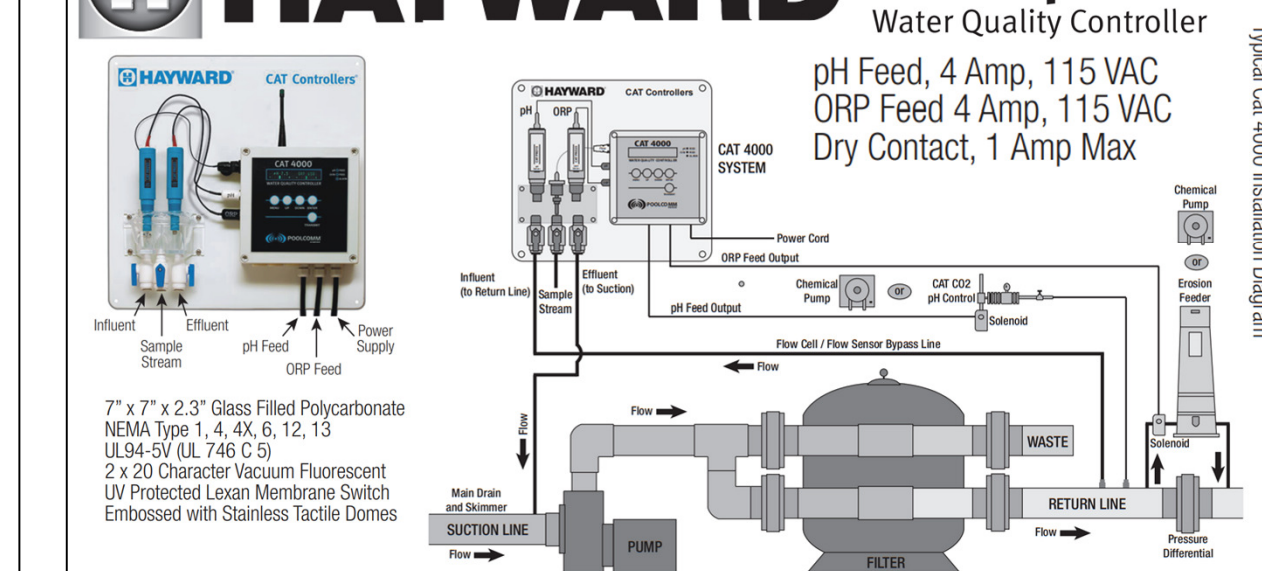
Saline C Series

PART NUMBER	HCSC60	HCSC110
Power Supply Dimensions	12" W x 8" H x 5.625" D	12.75" W x 8" H x 11.125" D
Vessel Dimensions	13.5" W x 15.75" H x 6" D	16.06" W x 22.42" H x 9.28" D
Certifications	UL1081, CSA C22, NSF/ANSI 50	UL1081, CSA C22, NSF/ANSI 50
LCD Display	Output adjustable 0 - 100%	(2) Output adjustable 0 - 100%
Flow Sensor	2" Magnetic with embedded reed switch	4" Magnetic with embedded reed switch
Power Input (Power Supply)	USA: 5.0 amps, 120V/60Hz International: 4.0 amps, 230V/50Hz***	USA: 10.0 amps, 120V/50/60Hz
ORP Input	Cord with male pigtail connected (supplied blue cord)	Cord with male pigtail connected (supplied blue cord)
Vessel Rated Pressure	50 psi	50 psi
Housing Inlet/Outlet	2" Union inlet/outlet	4" Union inlet/outlet
Reaction Chamber Style	Clear plastic	Clear plastic
Flow Required	40 gpm through cell to achieve rated production	80 gpm through cell to achieve rated production
Maximum Flow Rate	125 gpm	250 gpm
Salt Operating Range	3,500 - 5,000 ppm	3,500 - 5,000 ppm
Electrode Stack	Reverse polarity 4mm plate gap	Reverse polarity 4mm plate gap
Production Capacity	5.0 lbs @ 3,500 ppm* 6.0 lbs @ 5,000 ppm*	9.2 lbs @ 3,500 ppm** 10.8 lbs @ 5,000 ppm**



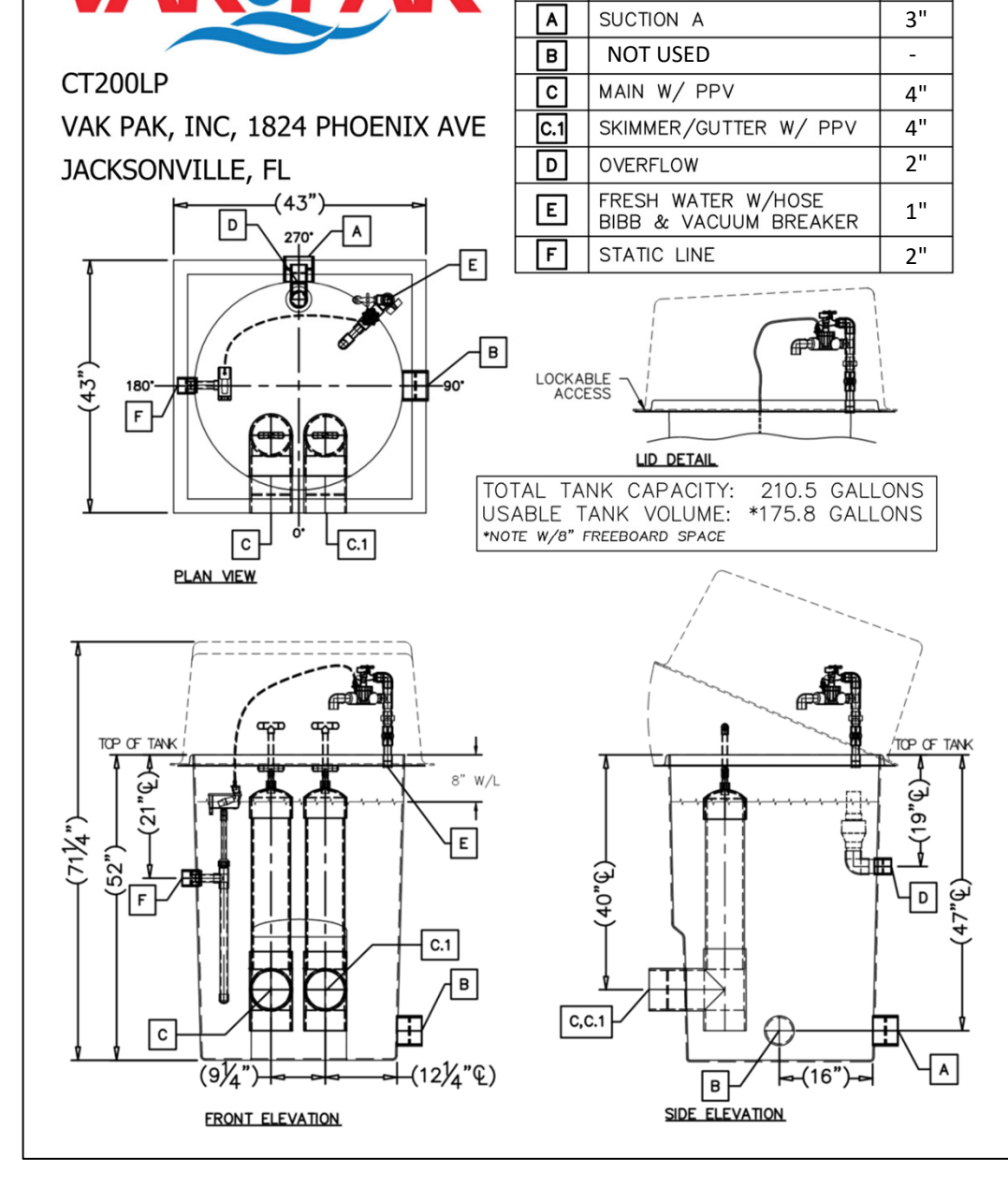
HAYWARD®

CAT 4000



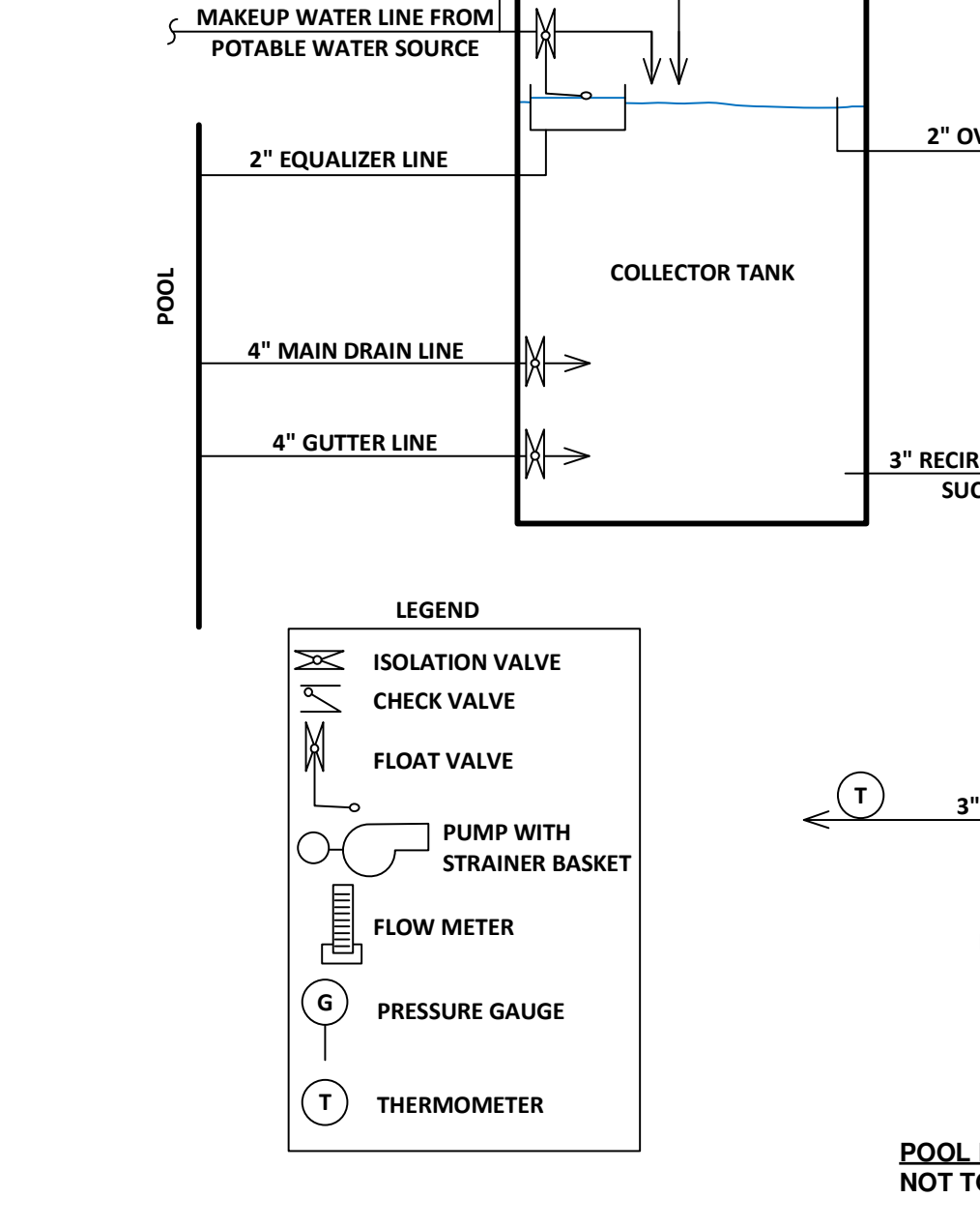
PART	PRODUCT DESCRIPTION	CAPACITY	HT.	DIA.	WT.
561004	Poly Tank	5 GAL.	14"	11"	#8
561015	Poly Cover w/Cap Plug	5 GAL.	21.5"	15"	#16
561015	Poly Tank	15 GAL.	21.5"	18"	#17
561030	Poly Tank	30 GAL.	28.5"	18"	#17
561030	Poly Cover w/Cap Plug	30 GAL.	34"	22.5"	#22
561035	Poly Tank	55 GAL.	34"	22.5"	#22
561155	Poly Cover w/Cap Plug	55 GAL.	36.75"	15"	#22
561285	System Tank*	15 GAL.	36.75"	15"	#22

VAK PAK



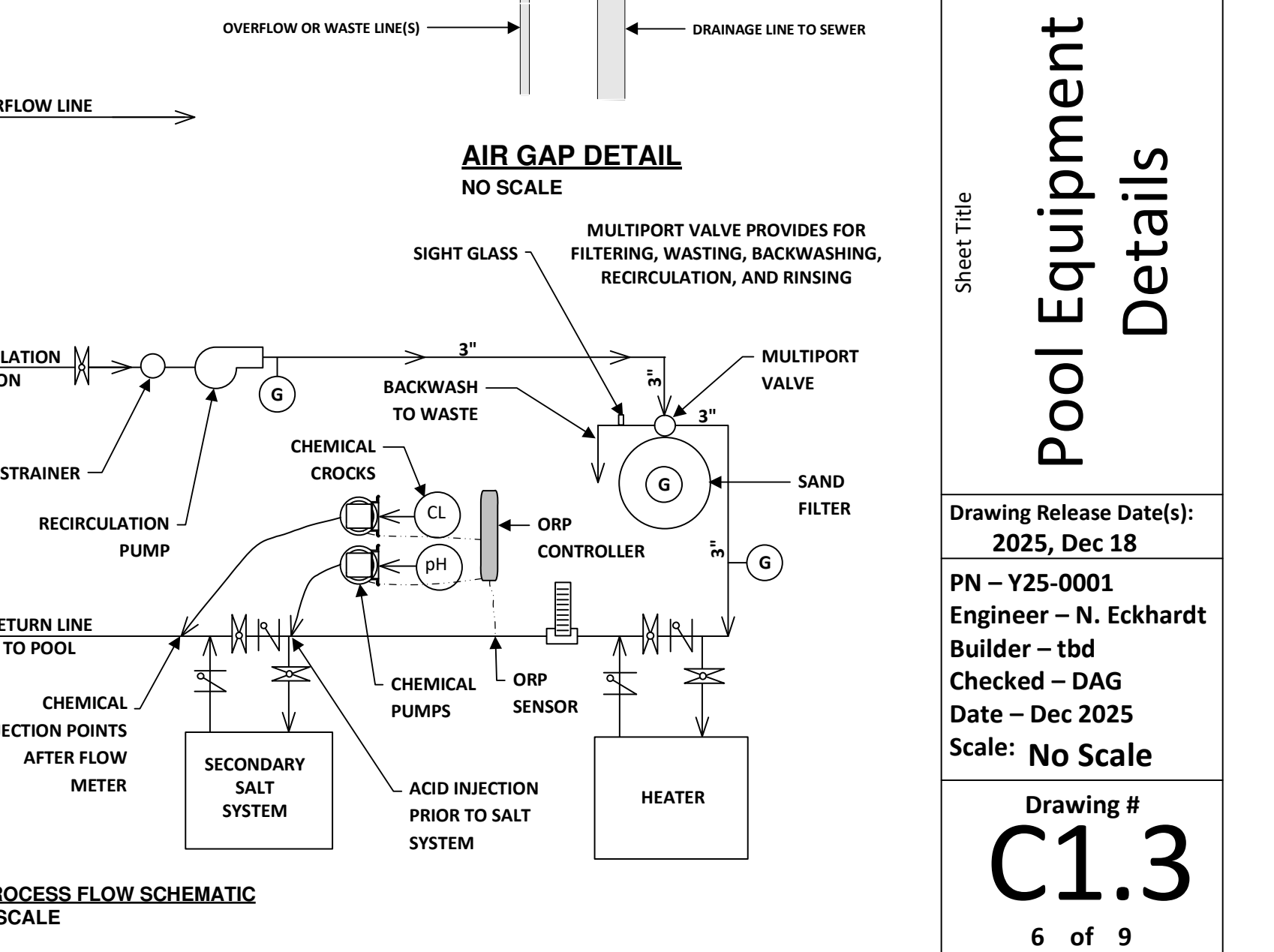
CONSTRUCTION DRAWINGS FOR

One Seagrove Place Condo



CONSTRUCTION DRAWINGS FOR

One Seagrove Place Condo

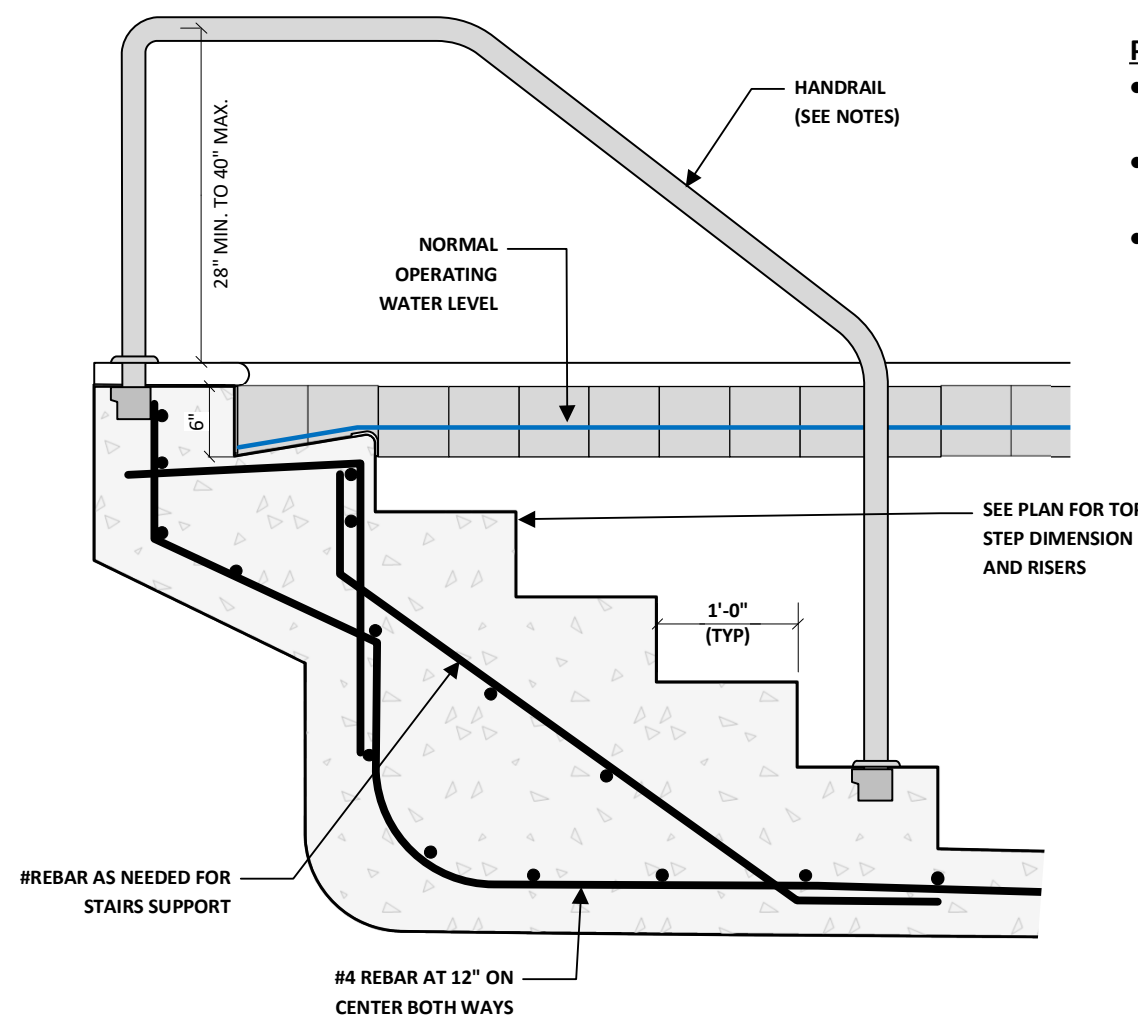


All Aquatic Engineering
 Nicholas W. Eckhardt, FL P.E. # 69144
 Nick@allaquaticengineering.com

NICHOLAS W. ECKHART
 LICENSE
 69144
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 12/18/2025

CONSTRUCTION DRAWINGS FOR
 One Seagrove Place Condo
 4100 E County Hwy 30A,
 Santa Rosa Beach, FL 32459
 WALTON COUNTY USA

Pool Equipment Details
 Drawing Release Date(s):
 2025, Dec 18
 PN – Y25-0001
 Engineer – N. Eckhardt
 Builder – tbd
 Checked – DAG
 Date – Dec 2025
 Scale: No Scale
 Drawing #
C1.3
 6 of 9

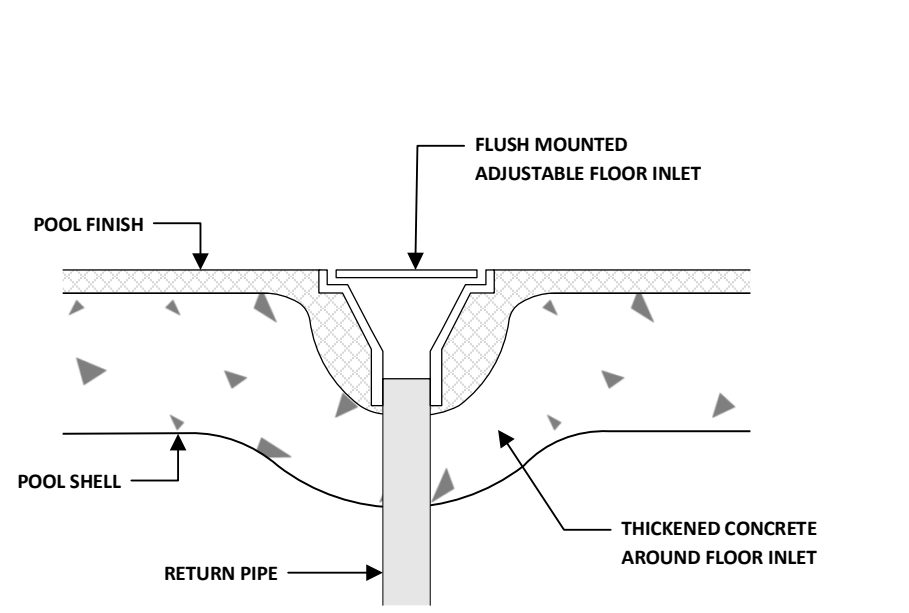


POOL STEPS DETAIL
3/4" = 1'

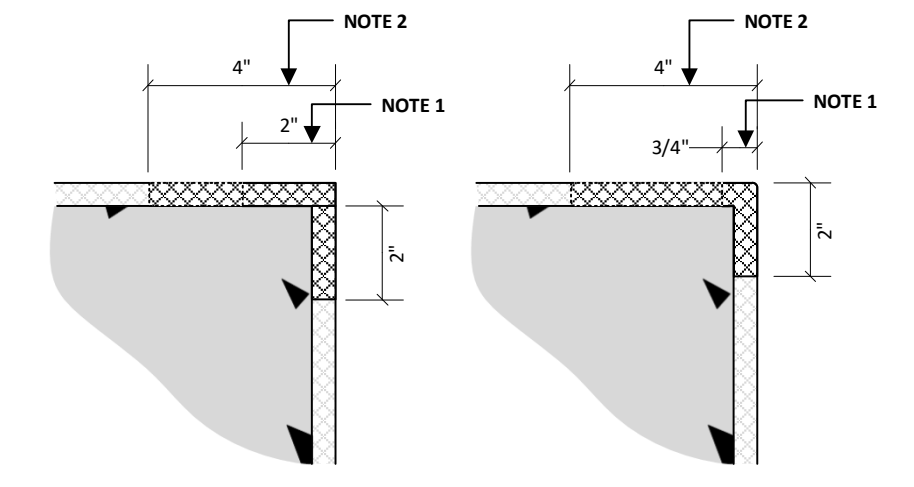
- POOL STEPS NOTES:**
- POOL STEP DETAILS ARE FOR STRUCTURE ONLY, SEE ADDITIONAL DETAILS FOR FINISHES AND REINFORCEMENT.
 - HANDRAIL TO BE STAINLESS STEEL AND ELECTRICALLY GROUNDED TO THE POOL REINFORCEMENT OR DECK GROUNDING SYSTEM.
 - MOUNT POOL SIDE OF HANDRAIL TO BOTTOM STEP AS SHOWN. DECK SIDE OF HANDRAIL TO BE MOUNTED IN THE TOP OF THE POOL STRUCTURE OR DECK.

GENERAL STRUCTURAL REQUIREMENTS:

- > REBAR SIZES TO BE AS SHOWN ON THESE DETAILS
- > ALL REBAR TO BE ASTM A615 GRADE 60 OR GREATER
- > REBAR SHALL HAVE THE FOLLOWING CONCRETE COVER
- 3 INCHES IN SOIL
- 2 INCHES ALL OTHERS
- > CONCRETE TO BE 4,000 PSI PUMP GRADE READY MIX OR EQUIVALENT
- > REBAR ENDS SHALL BE LAPPED 40 BAR DIAMETERS MINIMUM.

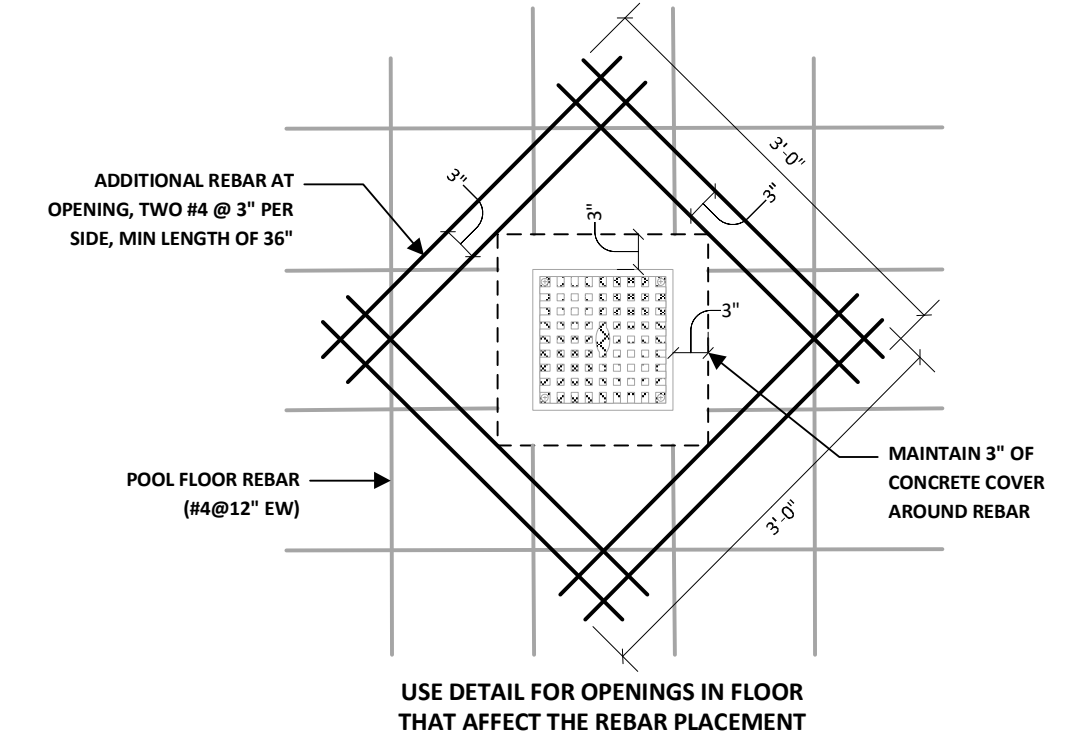


FLOOR INLET DETAIL
1 1/2" = 1'

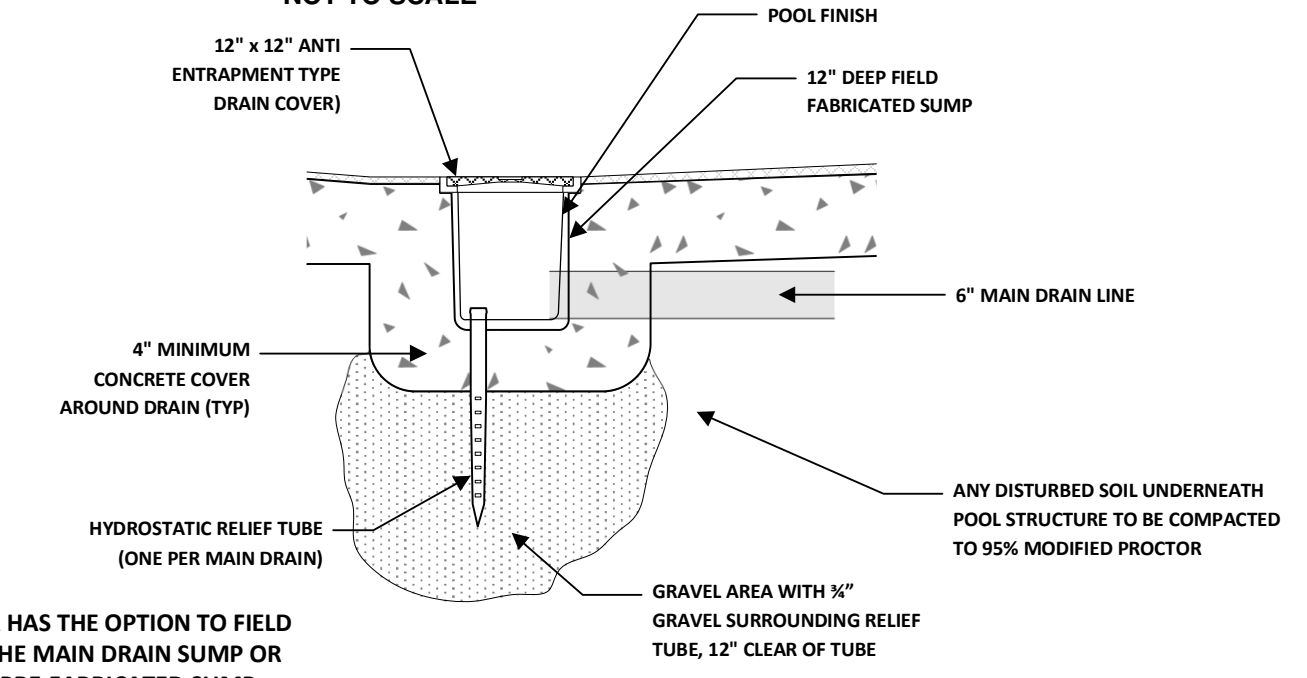


- FOR GUTTER EDGE, STEPS, SWIMOUTS, AND BENCHES, A MINIMUM OF 2" WIDE TILE IS TO BE LOCATED AS SHOWN. EITHER 2" WIDE PIECES OR BULLNOSE WITH 3/4" HORIZONTAL AS SHOWN IS ALLOWED.
- FOR THE SUN SHELF, THE TILE SHALL BE 4" MINIMUM ON THE HORIZONTAL SURFACE AS SHOWN.
- TILE TO BE A COLOR THAT CONTRACTS (STANDS OUT) AGAINST THE PLASTER FINISH AND SLIP RESISTANT.

TILE DETAIL
3" = 1'



REBAR AT OPENING DETAIL
NOT TO SCALE



CONTRACTOR HAS THE OPTION TO FIELD FABRICATE THE MAIN DRAIN SUMP OR INSTALL A PRE-FABRICATED SUMP

MAIN DRAIN DETAIL
NOT TO SCALE

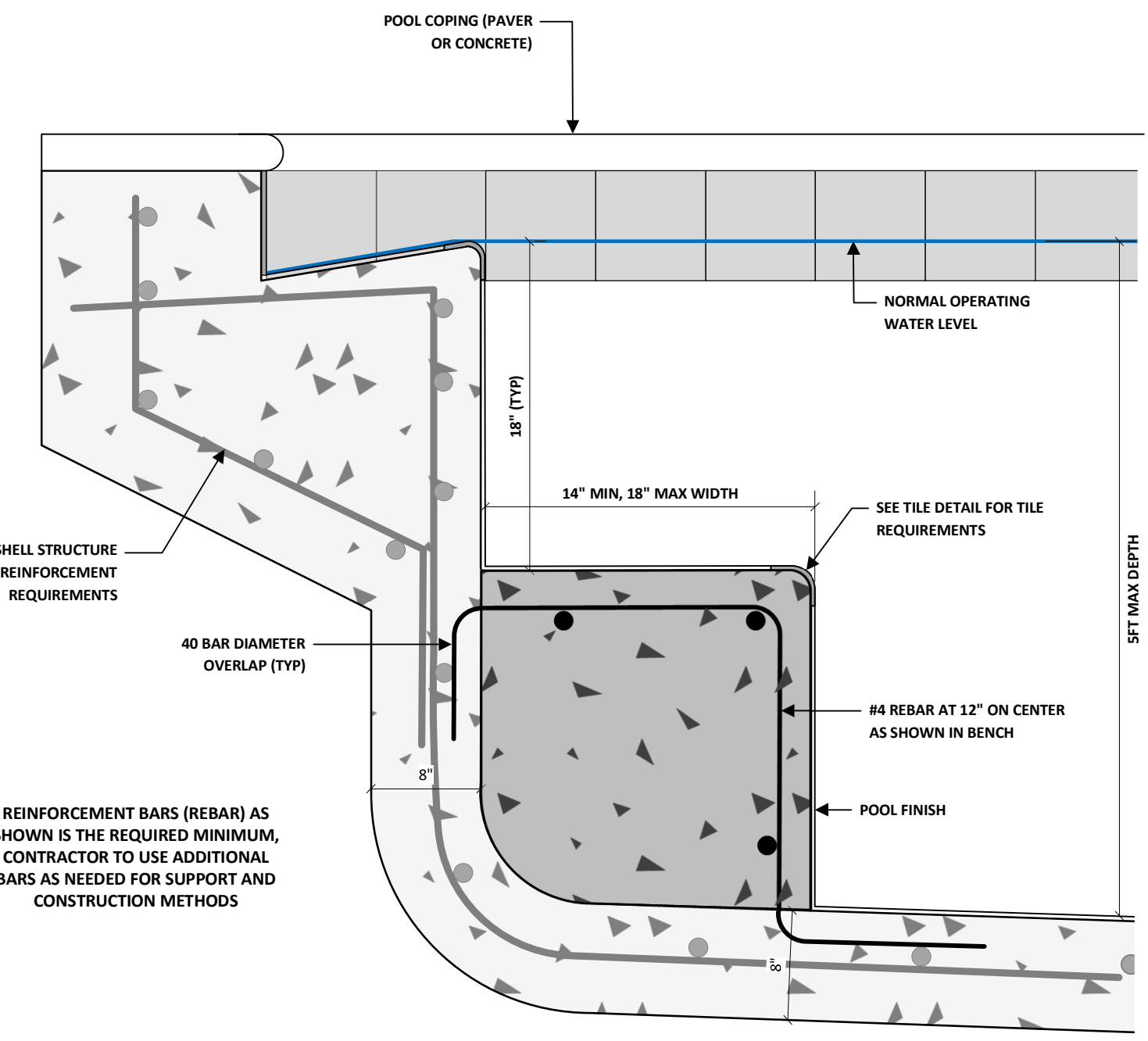
PROVIDE REBAR LAP STAGGERING PER ACI RECOMMENDATIONS

BAR SIZE	BAR OVERLAP	40 BAR DIA. OVERLAP	52 BAR DIA. 1.3 X OVERLAP	40 BAR DIA. OVERLAP
# 3	15" 19.5"			
# 4	20" 26"			
# 5	25" 32.5"			
# 6	30" 39"			
# 7	35" 45.5"			
# 8	40" 52"			

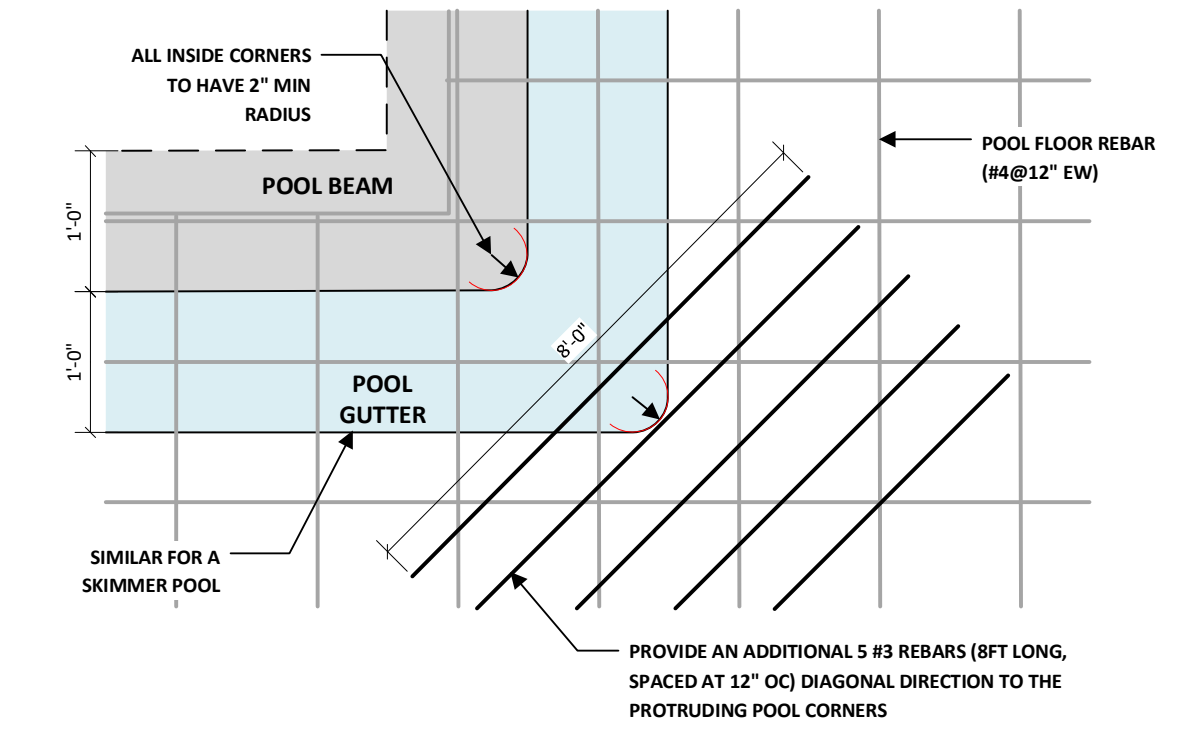
REINFORCEMENT (AKA REBAR)

CENTERLINE OF OVERLAP SPLICE STAGGER (5'-0" MIN)

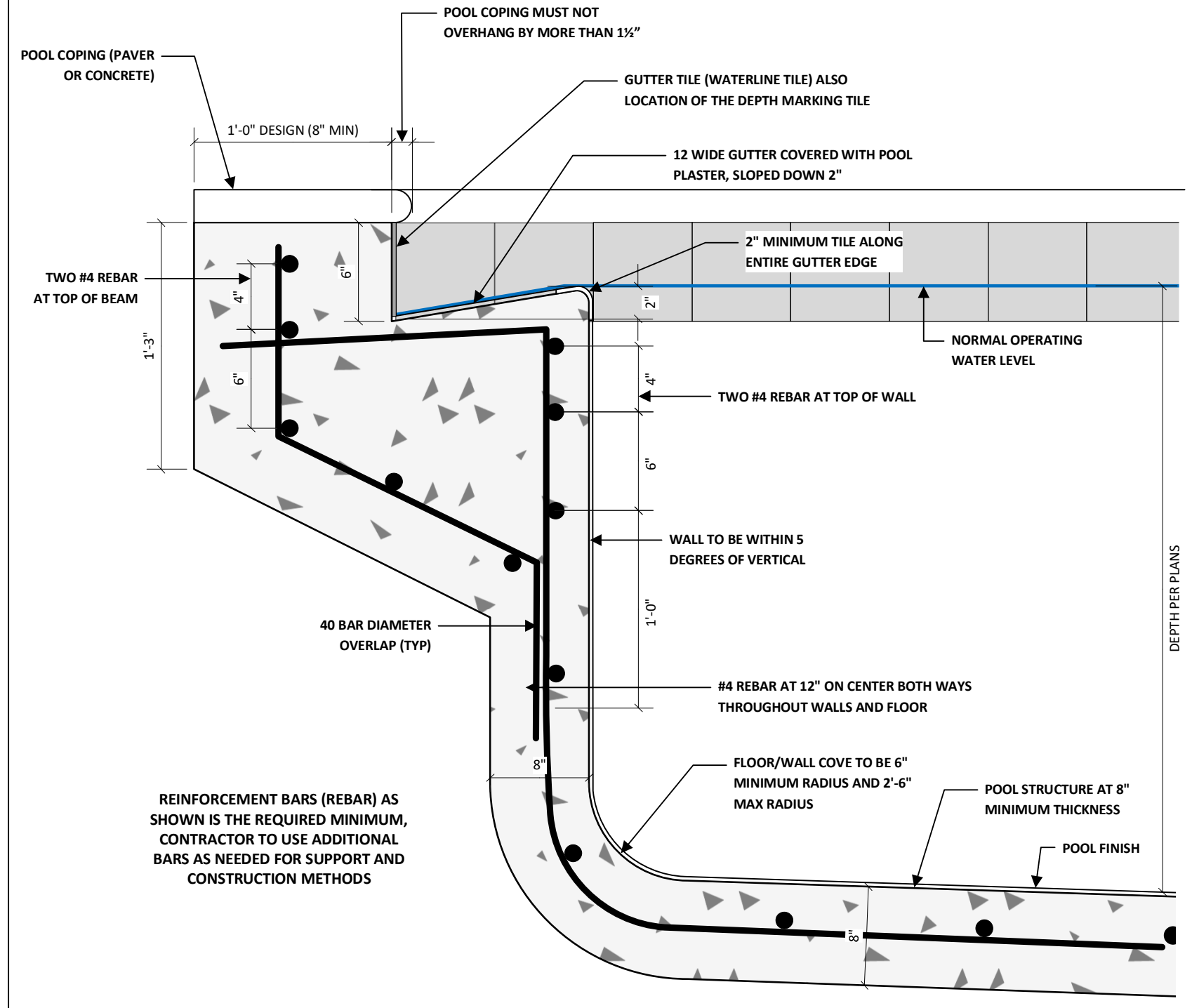
SPLICE STAGGER DETAIL
NOT TO SCALE (1/2" = 1'-0")



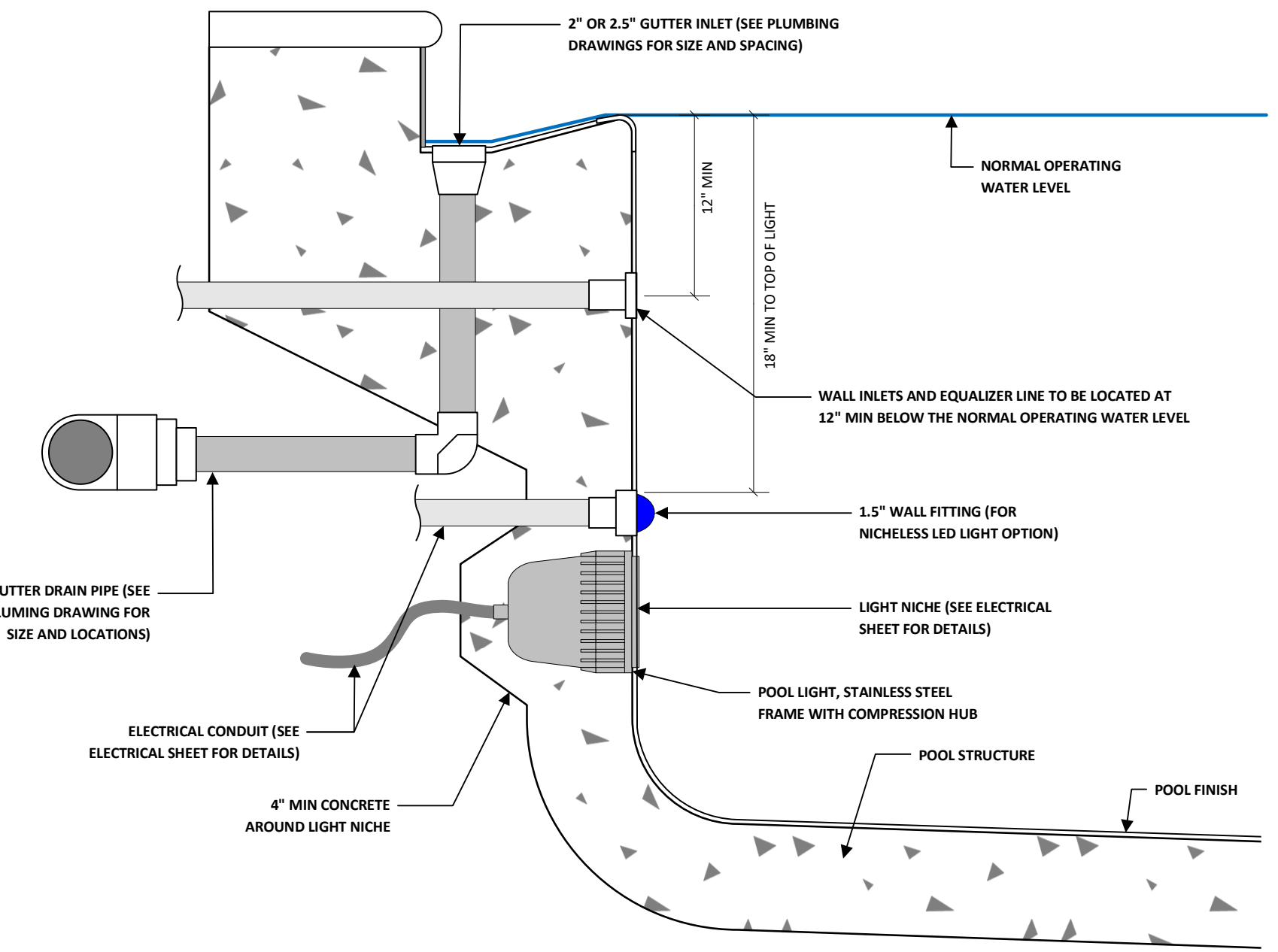
POOL BENCH DETAIL
1 1/2" = 1'



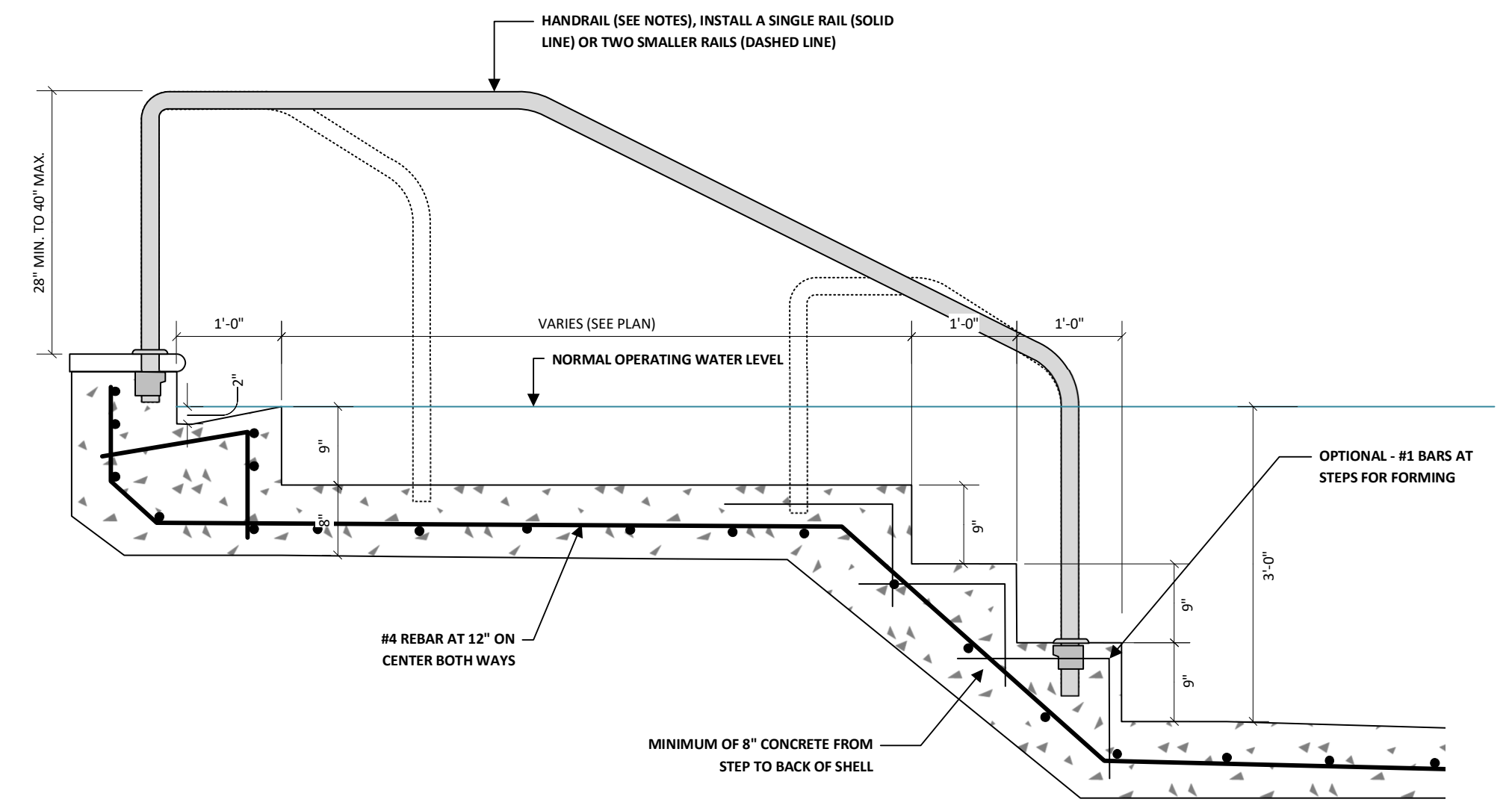
REBAR AT CORNER DETAIL
NOT TO SCALE



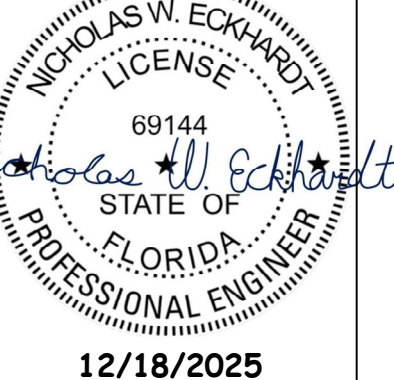
POOL SHELL STRUCTURAL DETAIL
1 1/2" = 1'



POOL SHELL PLUMBING DETAIL
1 1/2" = 1'



SUN SHELF WITH STEPS DETAIL
3/4" = 1'



CONSTRUCTION DRAWINGS FOR
One Seagrove Place Condo
4100 E County Hwy 30A,
Santa Rosa Beach, FL 32459
WALTON COUNTY USA

Sheet Title
Pool Structural Details

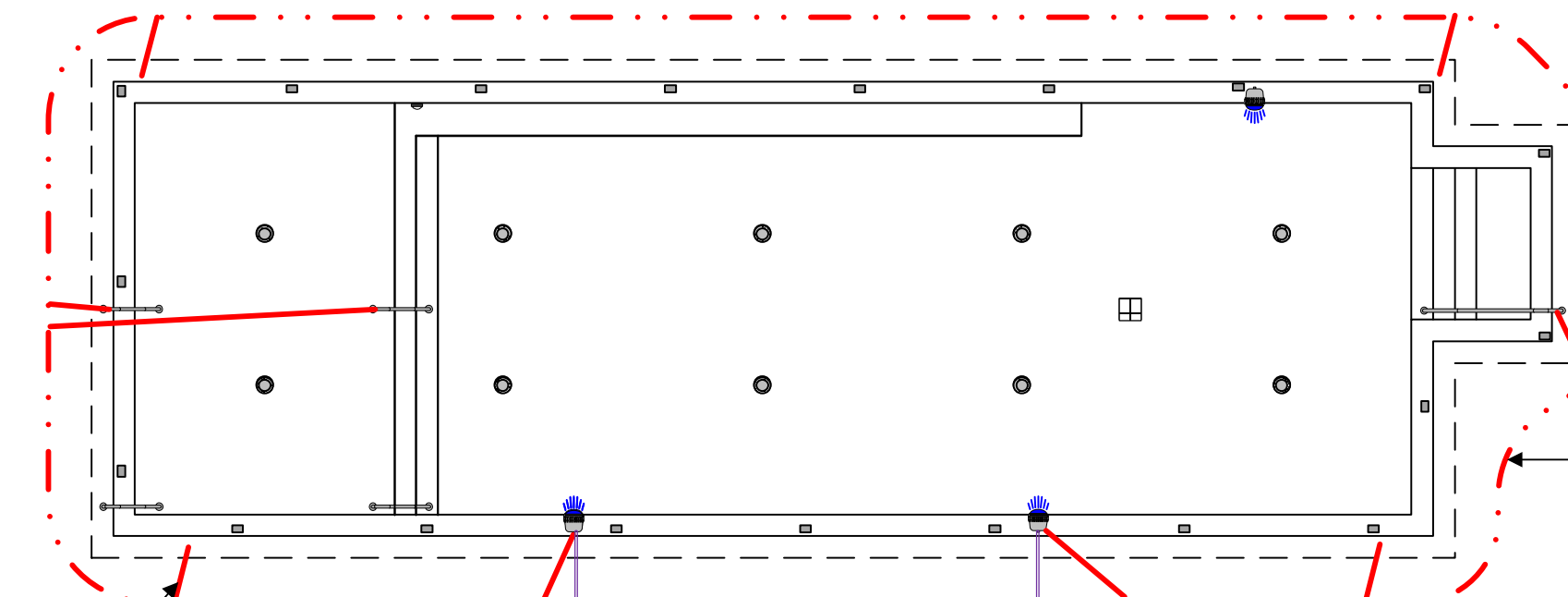
Drawing Release Date(s):
2025, Dec 18
PN - Y25-0001
Engineer - N. Eckhardt
Builder - tbd
Checked - DAG
Date - Dec 2025
Scale: **AS SHOWN**

Drawing #
C1.4
7 of 9

ELECTRICAL NOTES:

ELECTRICAL NOTES:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, N.F.P.A., O.S.H.A. REGULATIONS AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR CONDUIT IS SHOWN. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL, OR PERFORMING ANY WORK. ANY DEPARTURE FROM CONCEPT SHOWN ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- EQUIPMENT AND MATERIALS SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAD BEEN ESTABLISHED FOR THE EQUIPMENT / MATERIAL.
- CONDUITS SHALL CONTAIN AN INSULATED EGC BONDED TO ENCLOSURES AND SIZED IN ACCORDANCE WITH ARTICLE 250.122 OF THE NEC OR SIZED AS SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS, CONNECTORS, CLAMPS, HARDWARE, HANGERS, AND SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE TAGS FOR EQUIPMENT, CONDUITS, AND CABLES THAT ARE INSTALLED UNDER THIS CONTRACT.
- UNUSED OPENINGS IN CONDUITS, BOXES, DISCONNECT SWITCHES, CABINETS, AND PANEL BOARDS SHALL BE CAPPED OR PLUGGED.
- CONTRACTORS SHALL FOLLOW ALL OWNER SITE SAFETY WORK PROCESSES AND PROCEDURES, FOR EXAMPLE, WORK PERMITS, SAFETY TASK ANALYSIS, LOCKOUT TAGOUT (LOTO), LOCK, TAG AND TRY, AND RED TAG, ETC.
- ELECTRICAL DESIGN BY ALL AQUATIC ENGINEERING IS FOR THE POOL EQUIPMENT AND UNDERWATER LIGHTS ONLY. FOR ANY SITE LIGHTING REFER TO THE SITE DESIGN BY OTHERS. SITE/DECK LIGHTING, LANDSCAPING LIGHTS, OR OTHER ELECTRICAL ITEMS ARE NOT INCLUDED IN THIS DESIGN.
- ALL POOL EQUIPMENT AND UNDERWATER LIGHTS SHALL BE PROVIDED WITH A GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION, WHETHER BY RECEPTACLE OR BY DIRECT CONNECTION AND REGARDLESS OF 120 OR 240 VOLTAGE.
- THE POOL STRUCTURE AND POOL EQUIPMENT SHALL BE GROUNDED PER THE ABOVE NOTED CODE SECTIONS.
- UNDERWATER LIGHTING SHALL UTILIZE TRANSFORMERS AND LOW VOLTAGE CIRCUITS. THE MAXIMUM LIGHT VOLTAGE SHALL BE 15 VOLTS AND SHALL BE 300 WATTS OR LESS. LIGHTS SHALL BE PLACED AT 18-INCHES MINIMUM BELOW THE NORMAL OPERATING WATER LEVEL. UNDERWATER LIGHTS SHALL BE DESIGNED FOR UNDERWATER USE AND BE PROTECTED FROM OVERHEATING WHEN NOT SUBMERGED. LED (LIGHT EMITTING DIODE) LIGHTS MAY BE USED WHEN THE LIGHTS USE 15 VOLTS OR LESS AND HAVE A 300 WATT EQUIVALENT OR LESS. LED LIGHTS USED MUST BE RATED FOR THE EQUIVALENT WATTAGE.
- THE POOL LIGHTING SHALL BE CONTROLLED BY A TIMER WITH MANUAL OVERRIDE.
- THE RECIRCULATION PUMP SHALL BE ELECTRICALLY INTERLOCKED WITH THE CHEMICAL FEED PUMPS TO ENSURE THE FEED PUMPS ARE NOT OPERATING WHEN THE RECIRCULATION SYSTEM IS OFF.
- EQUIPMENTAL BONDING OF THE POOL, DECK, HANDRAILS, LADDERS AND EQUIPMENT IS REQUIRED PER CHAPTER 27 OF THE FLORIDA BUILDING CODE. AN 8 AWG OR LARGER SOLID COPPER BONDING CONDUCTOR PROVIDED TO REDUCE VOLTAGE GRADIENTS SHALL BE UTILIZED.
- NO OVERHEAD SERVICE WIRING SHALL BE ABOVE THE POOL EXTENDING OUT 10-FT HORIZONTALLY AWAY FROM THE INSIDE EDGE OF THE POOL WALL.
- BELOW GRADE GROUND CONNECTIONS SHALL BE EXOTHERMIC. ABOVE GRADE GROUND CONNECTIONS SHALL BE MECHANICAL OR COMPRESSIONS.
- GROUND FAULT CIRCUIT INTERRUPTER PROTECTION REQUIRED FOR PERSONNEL. OUTLETS SUPPLYING REPAIRED, REPLACED, ALTERED, OR RELOCATED POOL PUMP MOTORS CONNECTED TO SINGLE-PHASE, 120-VOLT THROUGH 240-VOLT BRANCH CIRCUITS, WHETHER BY RECEPTACLE OR BY DIRECT CONNECTION, AND OUTLETS SUPPLYING ALL OTHER REPAIRED, REPLACED, ALTERED, OR RELOCATED ELECTRICAL EQUIPMENT AND UNDERWATER LUMINAIRES OPERATING AT VOLTAGES GREATER THAN THE LOW VOLTAGE CONTACT LIMIT, CONNECTED TO SINGLE-PHASE, 120-VOLT THROUGH 240-VOLT BRANCH CIRCUITS, RATED 15 AND 20 AMPERES, WHETHER BY RECEPTACLE OR BY DIRECT CONNECTION, SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.
- EQUIPMENTAL BONDING. ANY OF THE PARTS SPECIFIED IN SECTIONS 680.26(B)(1) THROUGH(B)(7) OF THE NFPA 70, NATIONAL ELECTRICAL CODE THAT ARE REPAIRED, REPLACED, ALTERED, OR INSTALLED NEW AT AN EXISTING SWIMMING POOL SHALL BE CONNECTED TO THE EXISTING BONDING SYSTEM 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 SECTION 250.8 OF NFPA 70, NATIONAL ELECTRICAL CODE. 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. ALL METALLIC FLOAT IN LIGHT RINGS SHALL BE CONNECTED TO THE EQUIPMENTAL BONDING GRID. FLOAT IN LIGHT RINGS WITH NO PROVISION FOR BONDING, AND OTHER DEVICES WHICH DO NOT PROVIDE AN ELECTRICAL CONNECTION BETWEEN A METALLIC UNDERWATER LUMINAIRE AND THE FORMING SHELL OF A WET NICHE FIXTURE, INCLUDING SCREWS OR BOLTS NOT SUPPLIED BY THE LUMINAIRE'S MANUFACTURER AND LISTED FOR USE WITH THE SPECIFIC LUMINAIRE, SHALL NOT BE ALLOWED FOR USE WITH ANY UNDERWATER LUMINAIRE THAT IS REQUIRED TO BE GROUNDED. WHERE NONE OF THE BONDED PARTS IS INDIRECT 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 9 SQUARE INCHES (5800 MM2) 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 DISLODGE MENT DURING USUAL POOL ACTIVITIES, AND IT SHALL BE BONDED IN ACCORDANCE WITH SECTION 680.26(B) OF THE NFPA 70, NATIONAL ELECTRICAL CODE. A BONDED CONCRETE POOL SHELL SHALL BE CONSIDERED TO BE A CONDUCTIVE SURFACE. THE INTERIOR METALLIC SURFACE OR SURFACES OF ANY FORMING SHELL (WET NICHE) SHALL NOT BE COVERED WITH ANY MATERIAL, INCLUDING PLASTER, EXCEPT POTTING COMPOUND COVERING INTERNAL BONDING CONNECTIONS IN CONFORMANCE WITH 680.23(B)(2)(B) OF NFPA 70, NATIONAL ELECTRICAL CODE, SHALL BE ALLOWED.

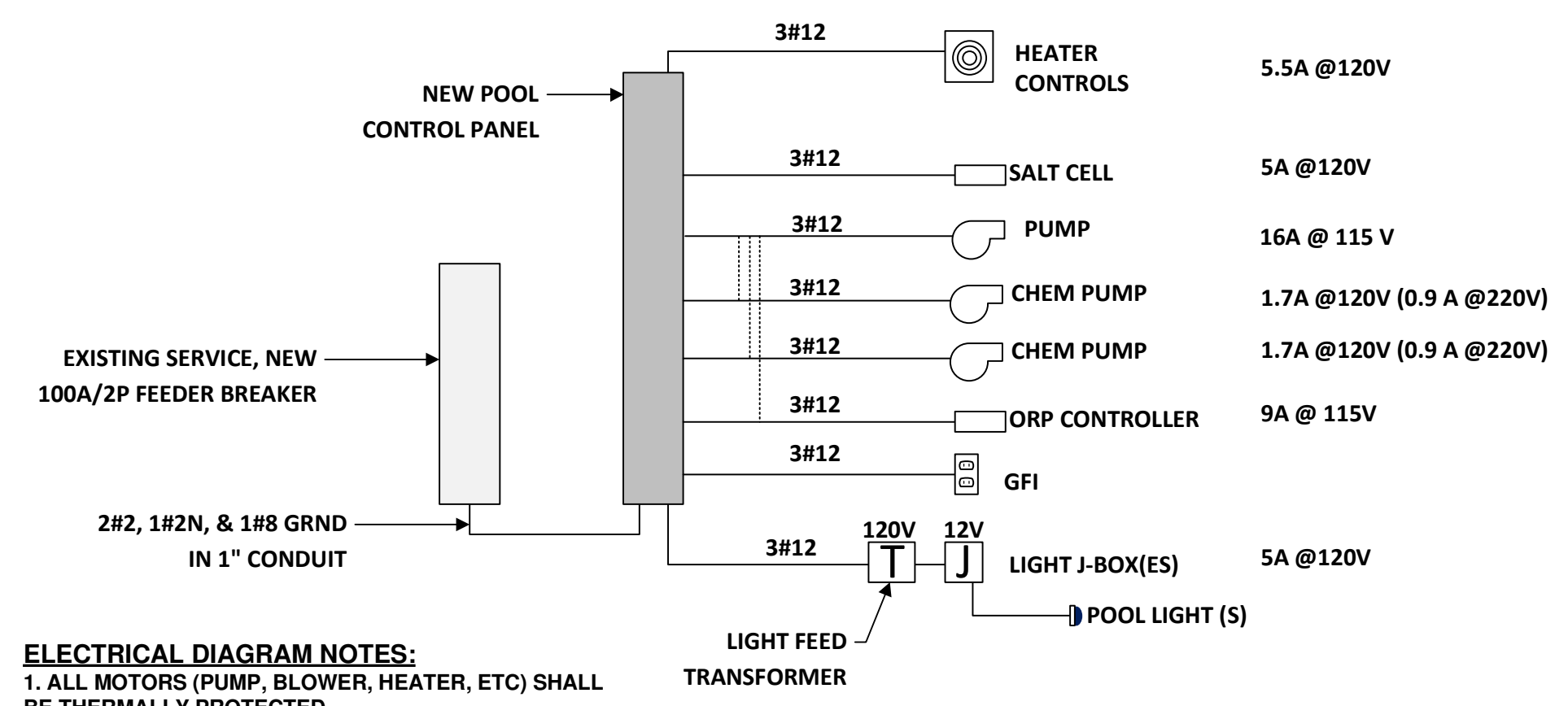


#8 AWG BARE SOLID COPPER BONDING WIRE AROUND ENTIRE POOL, WITHIN 18" TO 24" OF THE INSIDE WALLS OF THE POOL AND 4" TO 6" BELOW SUBGRADE (PER NEC 680.26)

#8 AWG BARE SOLID COPPER BONDING JUMPER, FOUR TO THE POOL AND ONE TO EACH HANDRAIL, LADDER, OR OTHER COMPONENTS WITH CONDUCTIVE MATERIALS

ROUTE TO JUNCTION BOX(ES) (TYP)

ELECTRICAL CONDUIT FOR LIGHTS, SIZE AS NEEDED PER LIGHT MANUFACTURERS AND INSTALLATION REQUIREMENTS



- ELECTRICAL DIAGRAM NOTES:**
- ALL MOTORS (PUMP, BLOWER, HEATER, ETC) SHALL BE THERMALLY PROTECTED.
 - ALL ELECTRICAL EQUIPMENT SHALL BE APPROVED FOR POOL USE AND LISTED WITH THE GOVERNING TESTING LABORATORY.
 - GFCI MUST BE INSTALLED ON ALL PUMP MOTORS.
 - POOL LIGHT JUNCTION BOX(ES) SHALL BE LOCATED A MINIMUM OF 18" ABOVE THE WATER LEVEL.
 - GFI OUTLETS REQUIRED WHEN WITHIN 20FT OF THE WATER'S EDGE.
 - INSTALL ALL WIRES WITHIN CONDUIT, EITHER RIGID PVC OR FLEXIBLE PVC; NON-METALLIC CONDUIT.

ELECTRICAL DIAGRAM

NO SCALE

Universal CrystaLogic® 2.0

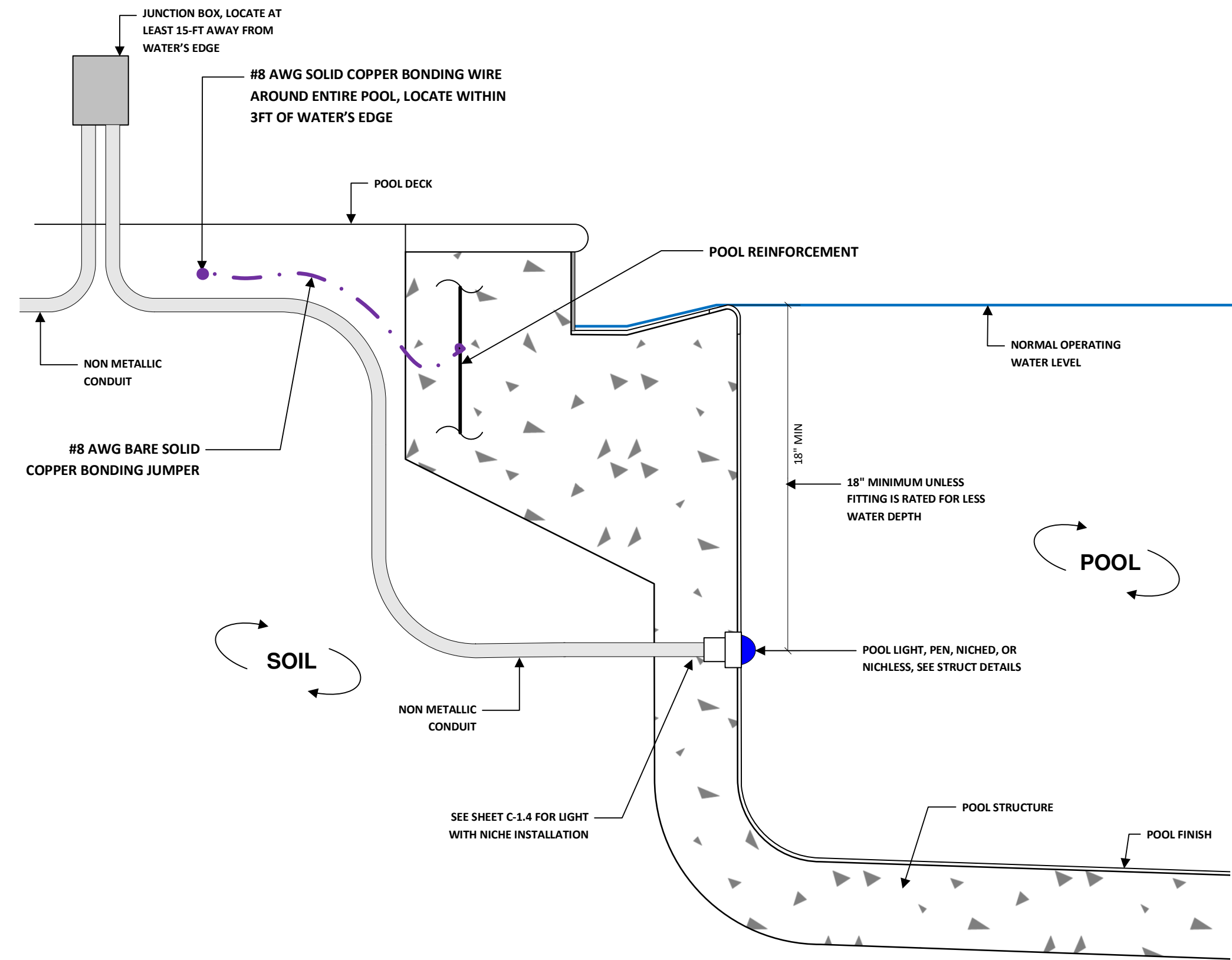
12V LED WHITE POOL AND SPA LIGHTS



Universal CrystaLogic Pool and Spa LED Lights

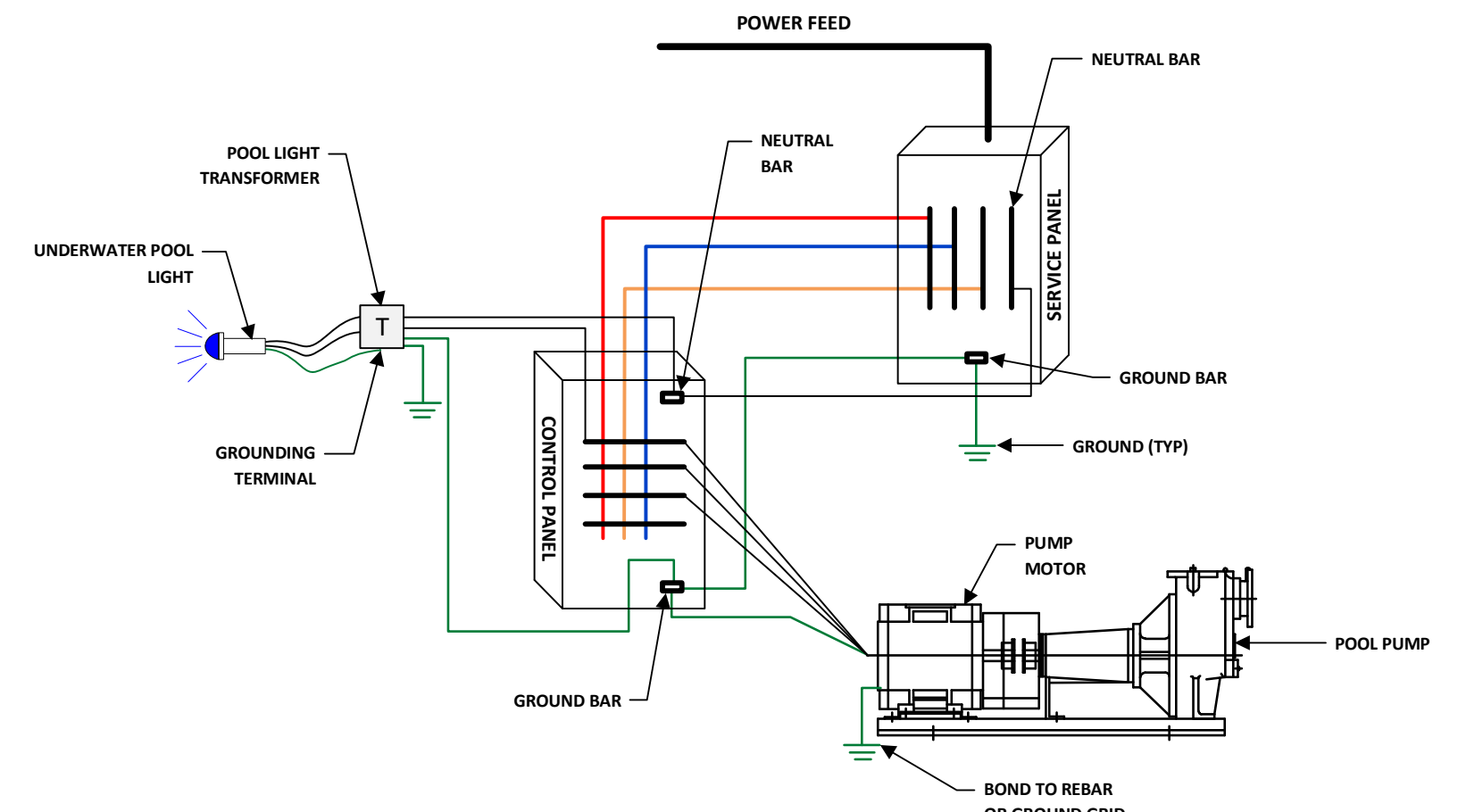
Universal CrystaLogic White LED Buying Guide

Model Number	Wattage Equivalent/Lumens	Pool or Spa	Cond Length	Wattage	Voltage	Qty.	Shipping Weight
LPWUS22030	500W/4900	Pool	30"	54W	12-15V	1	9 lbs.
LPWUS22050	500W/4900	Pool	50"	54W	12-15V	1	10 lbs.
LPWUS22100*	500W/4900	Pool	100"	54W	12-15V	1	14 lbs.
LPWUS22150*	500W/4900	Pool	150"	54W	12-15V	1	23.5 lbs.
LPLUS22030	300W/3300	Pool	30"	37W	12-15V	1	9 lbs.
LPLUS22050	300W/3300	Pool	50"	37W	12-15V	1	10 lbs.
LPLUS22100*	300W/3300	Pool	100"	37W	12-15V	1	14 lbs.
LPLUS22150*	300W/3300	Pool	150"	37W	12-15V	1	23.5 lbs.
LSLUS22030	100W/1100	Spa	30"	35W	12-15V	1	7 lbs.
LSLUS22050	100W/1100	Spa	50"	35W	12-15V	1	8 lbs.
LSLUS22100*	100W/1100	Spa	100"	35W	12-15V	1	11 lbs.
LSLUS22150*	100W/1100	Spa	150"	35W	12-15V	1	28 lbs.



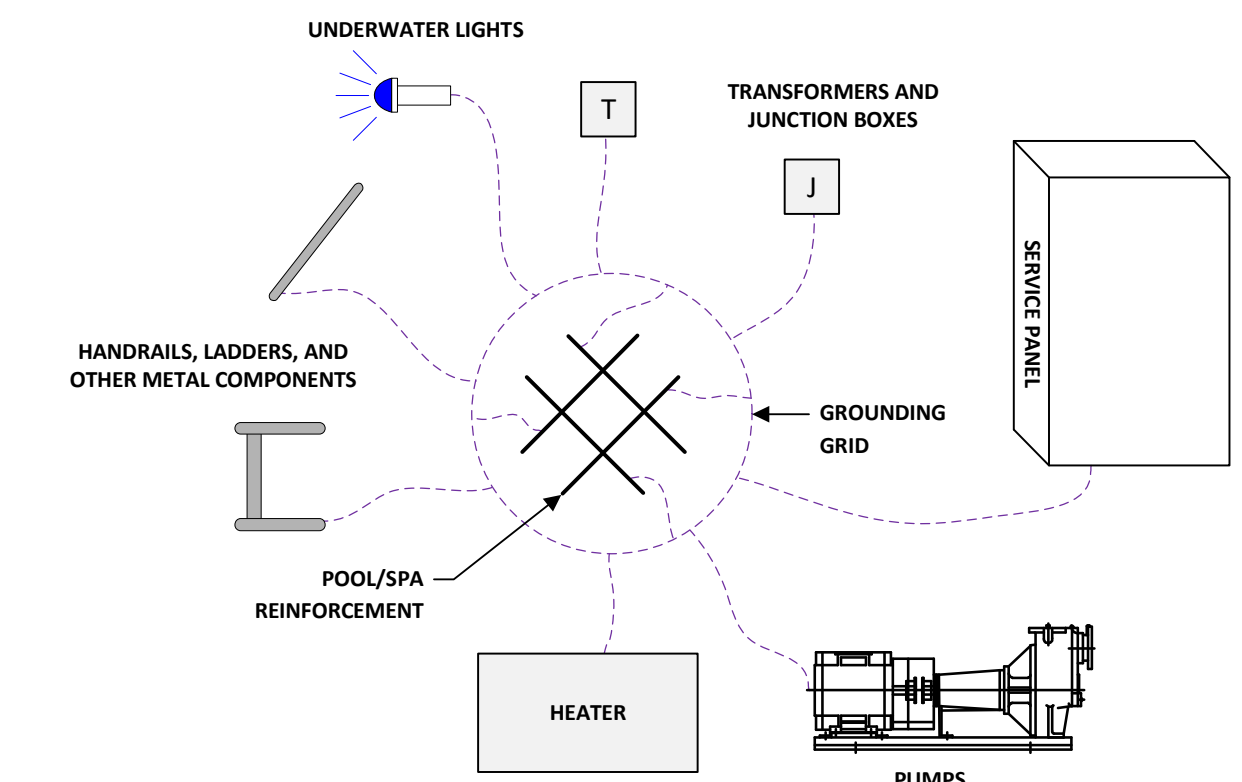
POOL LIGHT DETAIL

1 1/2" = 1'



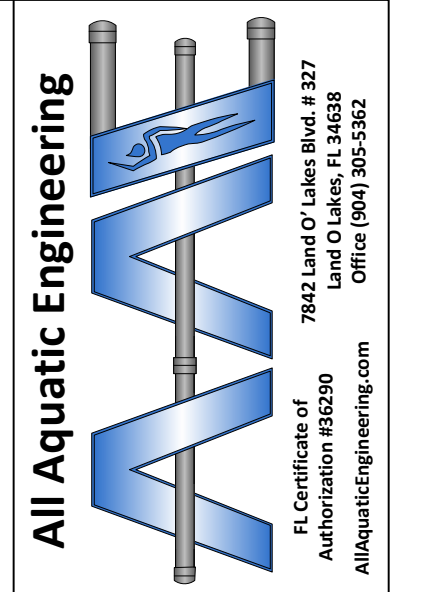
EQUIPMENT GROUNING SCHEMATIC

NO SCALE

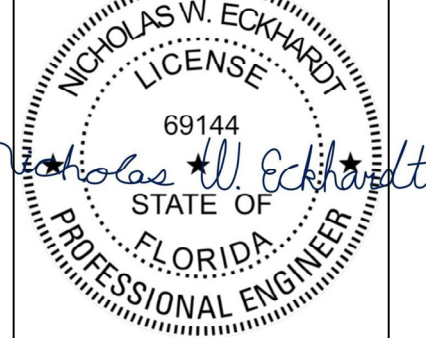


GROUNING ELECTRODE/ BONDING SCHEMATIC

NO SCALE



Nicholas W. Eckhardt, FL P.E. # 69144
Nick@allaquaticengineering.com



CONSTRUCTION DRAWINGS FOR
One Seagrave Place Condo
4100 E County Hwy 30A,
Santa Rosa Beach, FL 32459
WALTON COUNTY USA

Pool Electrical Details

Drawing Release Date(s):
2025, Dec 18
PN - Y25-0001
Engineer - N. Eckhardt
Builder - tbd
Checked - DAG
Date - Dec 2025
Scale: 1/8" = 1'-0"

Drawing #
C1.5
8 of 9

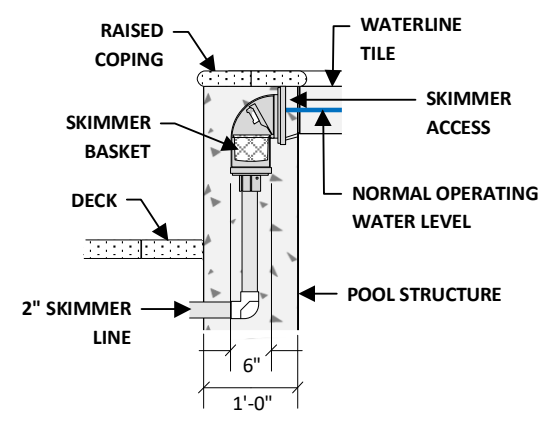
GENERAL PLUMBING NOTATION:
 > ALL PLUMBING TO BE OF SCH 40 PSI MIN. CAPACITY UNLESS OTHERWISE NOTATED
 > ALL PLUMBING TO BE OF 2" DIA. UNLESS OTHERWISE NOTATED
 > ALL PLUMBING PENETRATIONS THROUGH SHELL TO BE PROVIDED IN 1 1/2" PVC WITH THE EXCEPTION OF NOTATED SUCTION LOCATIONS, AS PROVIDED IN DETAILS THIS PAGE
 > 1" CONDUIT TO BE PROVIDED FOR ALL LIGHT LOCATIONS EVEN IF NOT SHOWN IN SCHEMATIC
 > PLUMBING SCHEMATIC NOTES SOME LARGER PIPE SIZES BASED ON THE HYDRAULIC DESIGN OF THE SYSTEM.
 > REFER TO MANUFACTURER'S INSTRUCTIONS FOR PIPE SIZE REQUIREMENTS AND UPSIZE AS NEEDED

Minimum pipe size and velocity
Fountain Pump:
 > 2" basin main drain suction @ 45 gpm = 4.39 ft/s
 > 1.5" Skimmer suction @ 20 gpm = 3.2 ft/s
 > 1.5" scupper return line @ 45 gpm = 7.27 ft/s
 > 1.5" wall return line @ 45 gpm = 7.27 ft/s

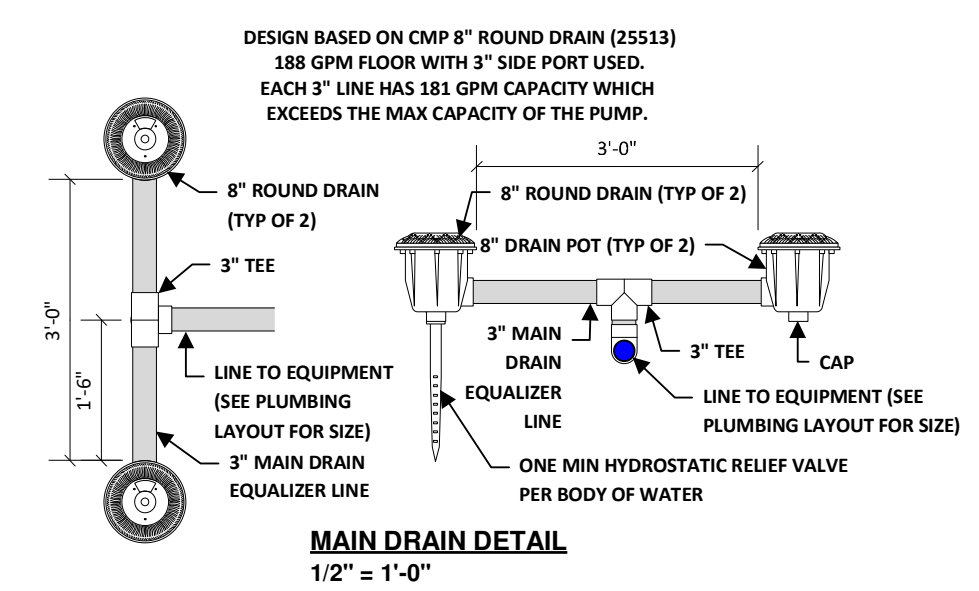
Pressure side of system will not exceed 8 ft/s as designed
 Suction side of system will not exceed 6 ft/s as designed

ADJUST FLOW TO SCUPPERS AND SEND EXCESS FLOW TO WALL RETURN, SCUPPER DESIGN FLOW AROUND 3 GPM, UP TO 15 GPM

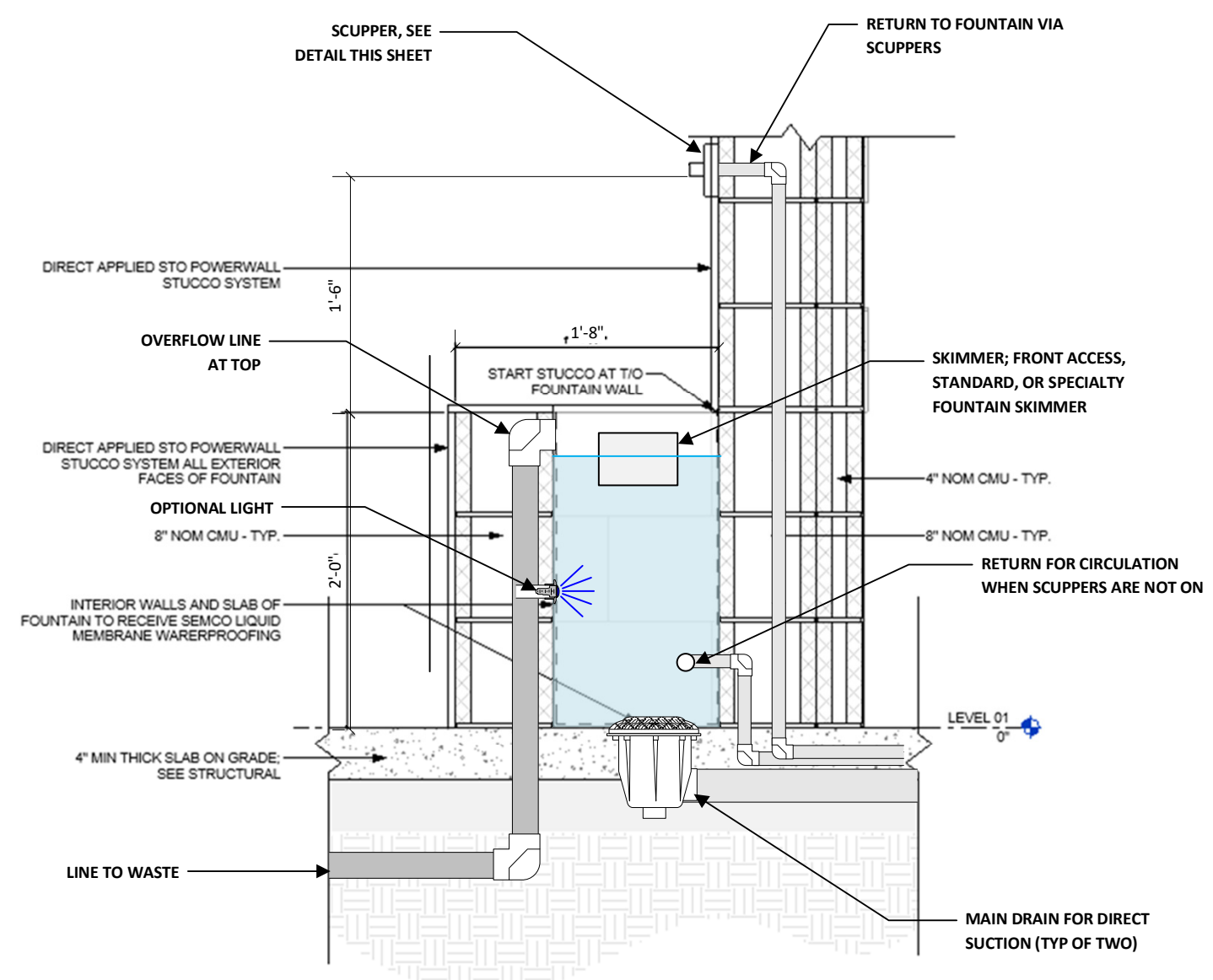
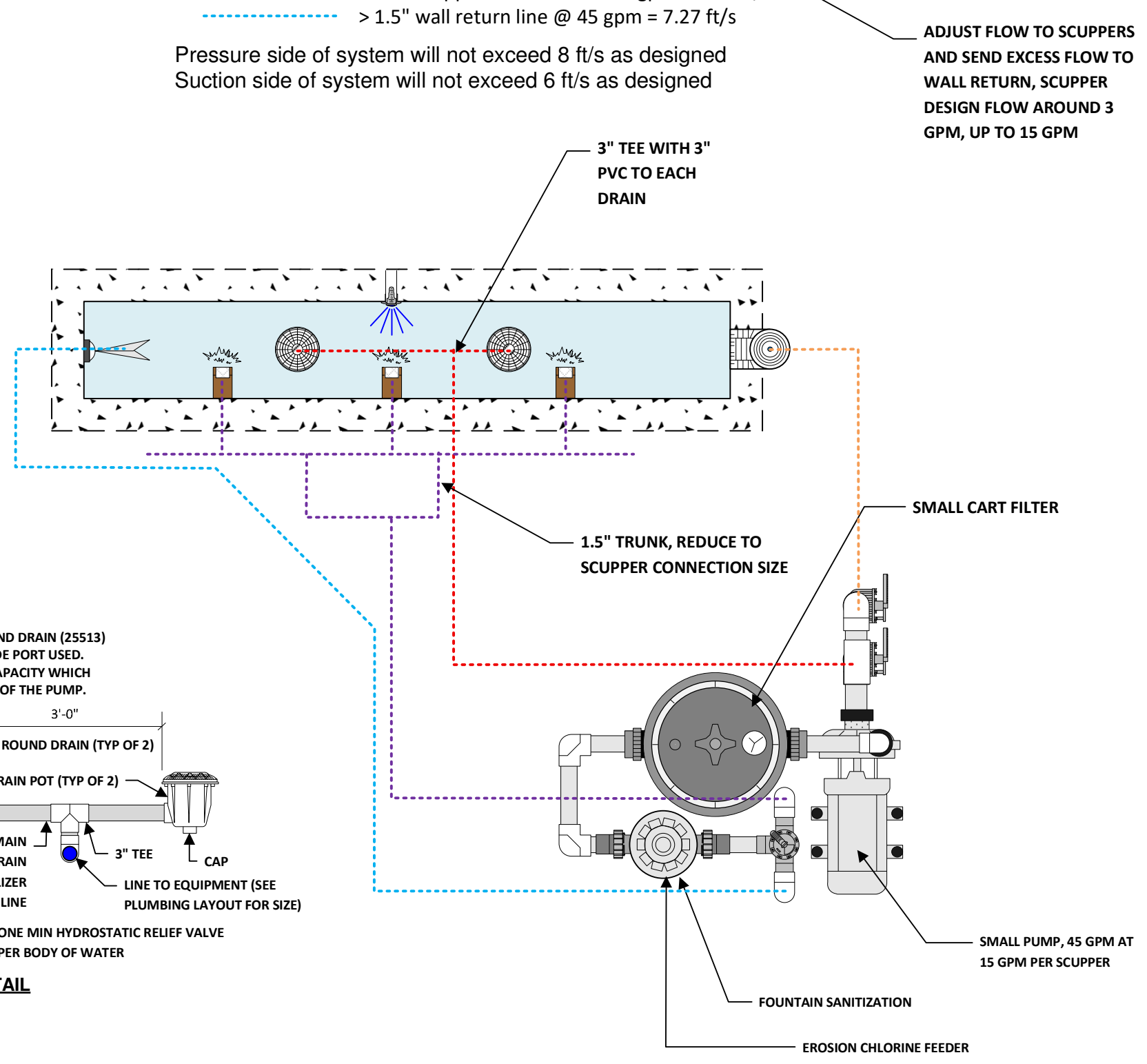
PLUMBING SHOWN IS SCHEMATIC ONLY, INSTALL PIPING AS NEEDED WHILE ADJUSTING FOR FIELD CONDITIONS USING THE MINIMUM SIZES SHOWN.



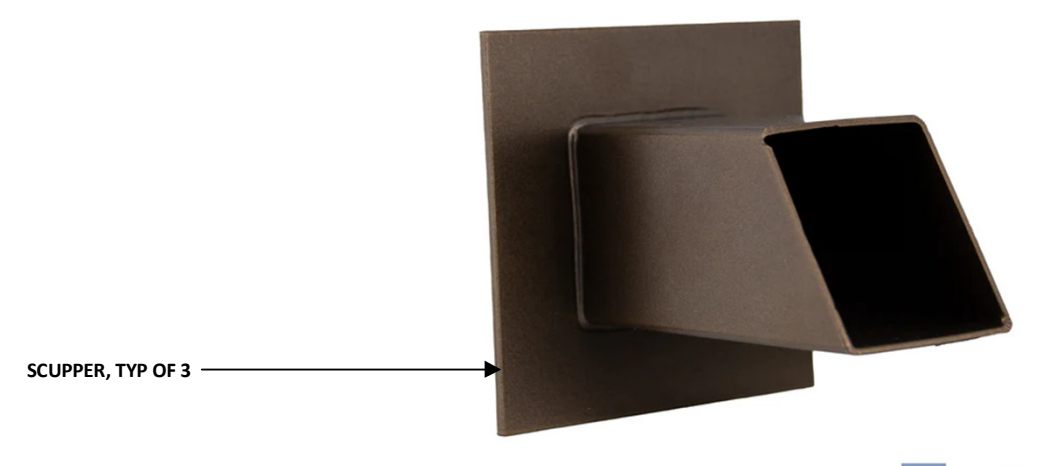
FRONT ACCESS SKIMMER DETAIL
 1/2" = 1"



MAIN DRAIN DETAIL
 1/2" = 1'-0"



SECTION @ WATER FEATURE



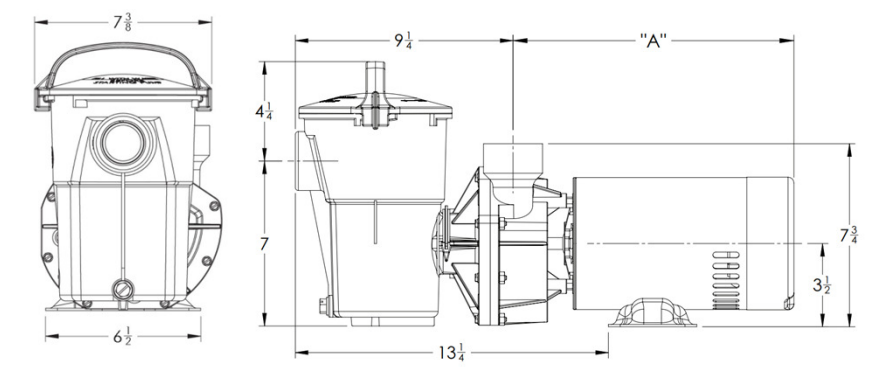
SCUPPER, TYP 3



140 GPH IS 2.33 GPM
 - Gallant 2" Square Water Fountain Spout
 - Marine Grade Stainless Steel Construction Spray baffle to ensure laminar flow of water
 - Flow Rate: 100 GPM - 300 GPM
 - Projection: 6" - 8" at 24" Height & 140 GPM, 10" - 12" at 24" Height & 220 GPM
 - Inlet: 3/4" FPT on back (Available in British Standard Pipe (BSP), Please Inquire)
 - Dimensions: 4" W x 2.75" D x 4" H
 - Finishes: **Cocoa Bronze** (Available in Stainless Steel, Brushed Copper, Copper Style, Textured Rust, Satin Black, & Custom Colors)

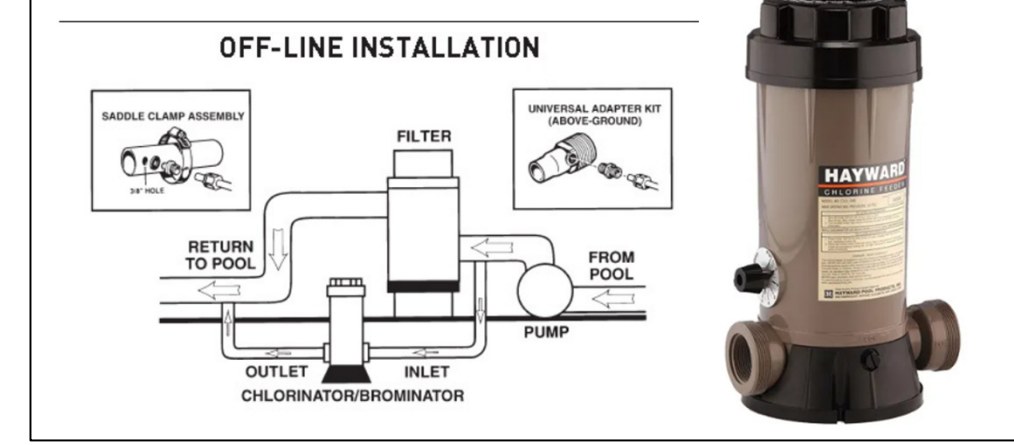
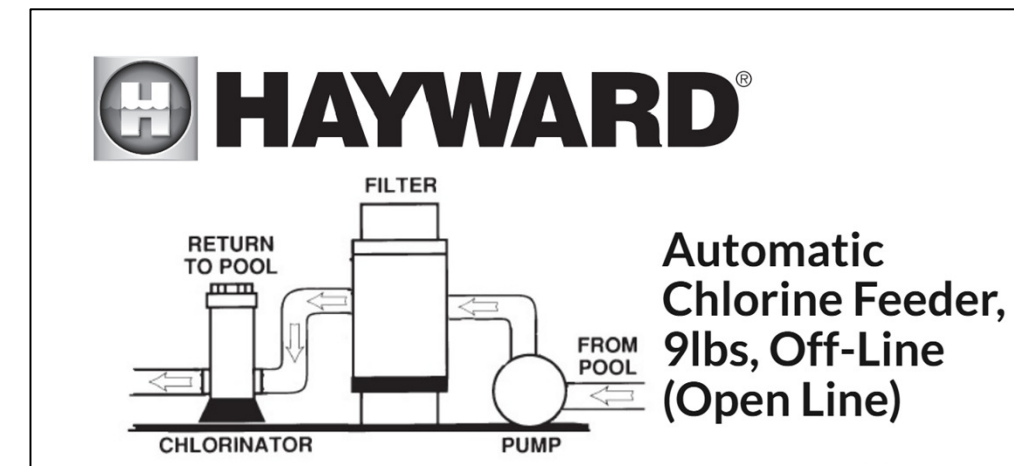
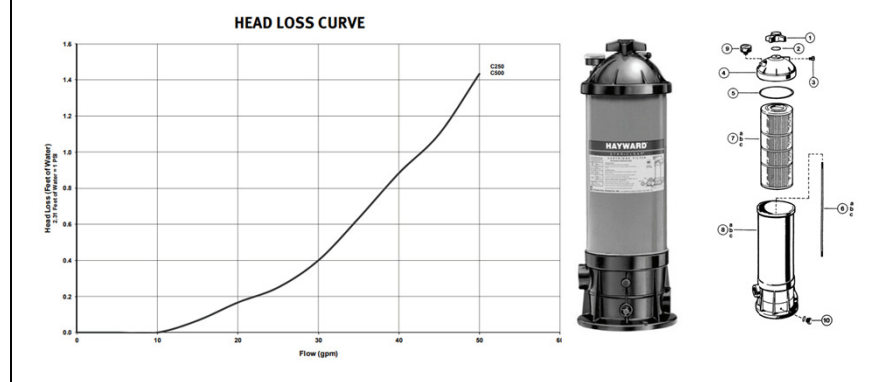
HAYWARD
PowerFlo LX™ / PowerFlo II™ / EP Pump Series
 PowerFlo LX Pump, 0.85HP

Model Number	Pump Output (GPM) vs. Total Resistance To Flow [Feet of Head]				
	10 ft	20 ft	30 ft	40 ft	50 ft
SP1580	86	86	75	58	27
SP1580X15	91	91	80	62	32



HAYWARD
StarClear™ CARTRIDGE FILTER

SPECIFICATIONS			
MODEL NUMBER	DESIGN FLOW RATE*	TURNOVER	DESIGN FLOW RATE*
C150	25 GPM	12,000 gal	15,000 gal
C150	30 GPM	24,000 gal	30,000 gal
C150	75 GPM	36,000 gal	45,000 gal
C150	90 GPM	42,000 gal	54,000 gal
C150	105 GPM	57,000 gal	72,000 gal
C1502	105 GPM	57,000 gal	72,000 gal
C1502	105 GPM	57,000 gal	72,000 gal



HAYWARD
Fittings

Model Number	Pipe Size	Description
SP1022	1 1/2" FPT	1.5" Threaded Return Fitting
SP1022S*	1 1/2" SKT	1.5" Socket Return Fitting
SP1022NS	2" SKT	2" Socket PVC Return Fitting
SP1022INS	1 1/2" INS	Fitting (1 1/2" FIP face x 1 1/2" SLIP stub end)
SP1022B**	1 1/2" MIP	Flush Plug with Gasket
SP1022C**	1 1/2" MIP	All Purpose Plug with O-Ring
SP1022C2BLK	2" MIP	All Purpose Plug With O-Ring

Directional Flow Inlet Fittings - Standard (Return to Pool)		
SP1419A*	1 1/2" MIP	Hydroswep slotted opening
SP1419B*	1 1/2" MIP	Hydrostream 3/8" opening
SP1419C*	1 1/2" MIP	Hydrostream 1/2" opening
SP1419D*	1 1/2" MIP	Hydrostream 3/4" opening
SP1419E*	1 1/2" MIP	Hydrostream 1" opening
SP1420	1 1/2" MIP	Hydrostream, 1" rubber nozzle
SP1421D*	1 1/2" SLIP	Hydrostream Insider Fitting - 3/4" opening
SP1421E	1 1/2" SLIP	Hydrostream Insider Fitting - 1" opening

CMP
GALAXY POOL DRAIN WITH SUMP
 25514-00X-000, 25515-00X-000, 25516-00X-000, 25519-00X-000

PLUMBING SIZE	PORTS	FLOOR FLOW RATE	WALL FLOW RATE
2"	BOTTOM	112 GPM	92 GPM
2"	SIDE	112 GPM	84 GPM
1 1/2"	BOTTOM	108 GPM	84 GPM
1 1/2"	SIDE	100 GPM	84 GPM

SPECIFICATIONS

PIPE SIZE: 2" (1 1/2" FIT ADAPTABLE TO 1 1/2" VINS - 2" FIT OR 2" SOCKET ADAPTABLE TO 1 1/2" 200' WGT. ANGLE SLOTTED FITTING TO 1 1/2" PIPE SIZE (SEE MANUFACTURER'S INSTRUCTIONS FOR FITTING TO 1 1/2" SCH 40 PVC)

OPEN AREA: 13.2"

DRAIN COVER LIFE: 7 Years. Replace drain cover and screen every seven years.

SCUPPER BODY LIFE: 20 Years

* Multiple drain use ONLY - Check wall installation. ** PVC Sump Body. Use PVC glue to attach plumbing fittings.