

**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025

**AMBLE**

2305 Mt. Werner Circle  
 STEAMBOAT SPRINGS, CO 80487

NO. DATE: 12/15/2023  
 TITLE/PURPOSE: PERMIT SET

SCALE: **As indicated**  
 ISSUE DATE: **12/15/2023**  
 DRAWN BY: **CPD**  
 PROJECT #: **2023**  
 SHEET TITLE: **TITLE SHEET & GENERAL NOTES**  
 SHEET #:

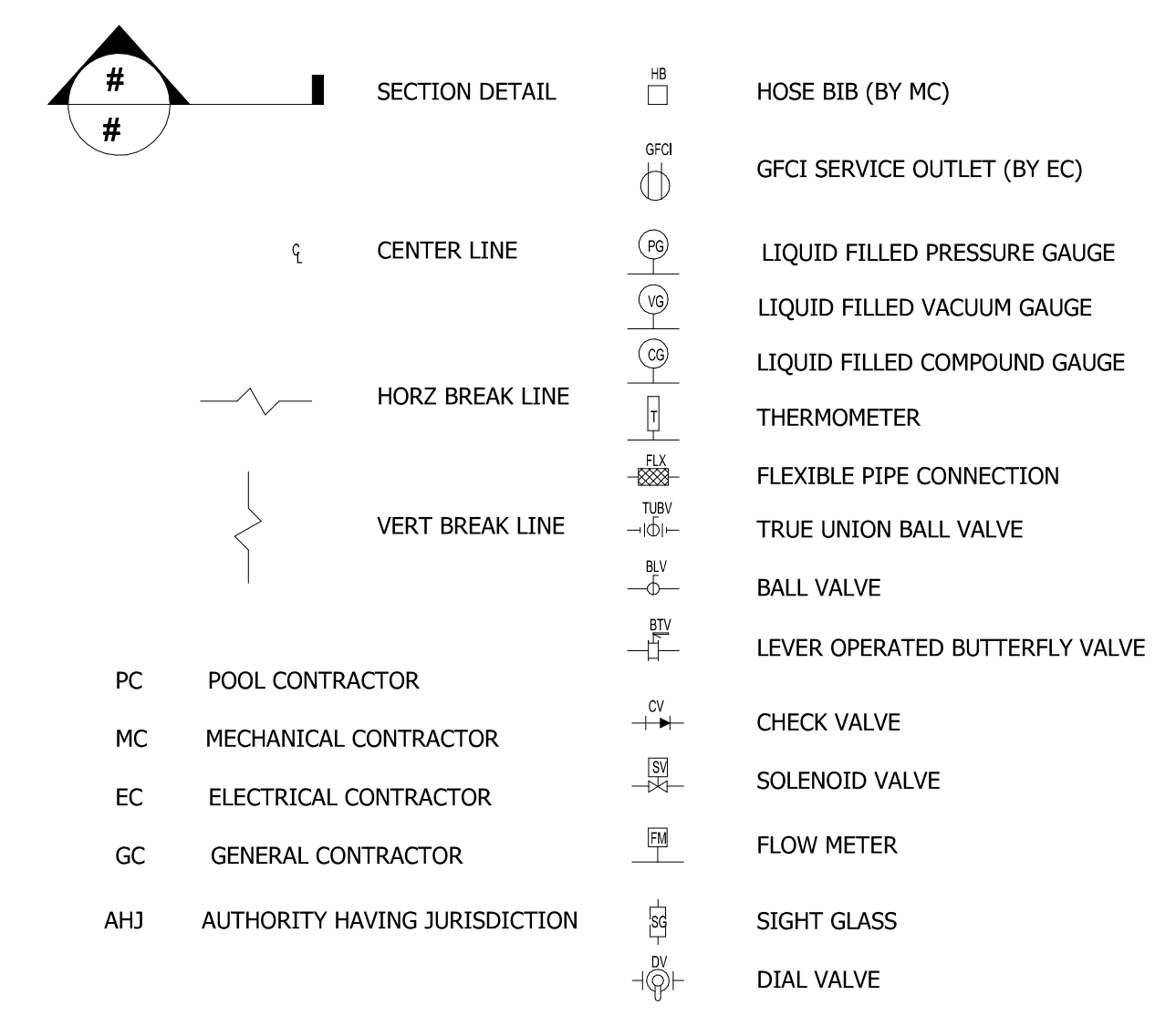
**SP100**

POOL SAFETY & MAINTENANCE EQUIPMENT TO BE FURNISHED & INSTALLED BY PC, UNLESS OTHERWISE NOTED

QTY.	DESCRIPTION
1	POOL & SPA SAFETY SIGNAGE AS REQUIRED BY CODE
1	STRAIGHT POLE: PENTAIR R808-22, 22 FT OR EQUAL
1	LIFE HOOK: PENTAIR R153 OR EQUAL
1	TELEPHONE ADJACENT TO POOL AREA WITH EMERGENCY CONTACT NUMBERS OR DIRECT TO EMERGENCY CALL CENTER & FACILITY ADDRESS BY GC
1	SWIMMING POOL WATER TEST KIT: PENTAIR R151716, PRO 11 PROFESSIONAL TEST LAB
1	30" US COAST GUARD APPROVED RING BUOY W/50FT OF 1/4" NYLON ROPE
1	FIRST AID KIT SHALL MEETS OSHA REQUIREMENTS
1	PENTAIR R201276, 14" COMMERCIAL VACUUM HEAD w/ 30 FT COMMERCIAL GRADE FLEXIBLE 1.5" VACUUM HOSE
1	ALGAE BRUSH: PENTAIR R111646, 718 18" BRUSH FOR PLASTER
1	SKIM NET: PENTAIR R121196, HEAVY DUTY SKIMMER NET
1	MOISTURE BARRIER FOR SPA: SPECTRUM AQUATICS CUSTOM THERMAL COVER
1	THERMAL BLANKET FOR POOL: SPECTRUM AQUATICS THERMAL COVER CUSTOM MADE TO FIT POOL. PROVIDE (3) SECTIONS FOR EASE OF HANDLING.

- NOTES:  
 1. OWNER TO KEEP DAILY RECORDS ON POOL OPERATIONS AND MAINTENANCE TO BE SUBMITTED AS REQUIRED TO THE HEALTH DEPARTMENT WHILE THE POOL IS IN OPERATION.  
 2. LIFESAVING EQUIPMENT SHALL BE PROVIDED BY THE POOL CONTRACTOR AND SHALL BE ACCESSIBLE WITHIN THE CONFINES OF THE POOL AREA. PROVIDE 1 UNIT OF LIFE SAVING EQUIPMENT PER 2000 S.F. OF WATER SURFACE AREA OR FRACTION THEREOF.  
 3. POOL SIGNAGE AS REQUIRED BY CODE, INSTALLED PER CODE AND AS PER POOL OPERATORS INSTRUCTIONS. ALL FASTENERS MUST BE 316L STAINLESS STEEL.  
 4. AN ACCESSIBLE ROUTE SHALL BE PROVIDED THAT CONNECTS ANY LIFE SAFETY EQUIPMENT PROVIDED AT THE POOL SUCH AS LIFE RINGS, RESCUE HOOK, EMERGENCY SHUT OFF, TELEPHONE, ETC. THESE ITEMS SHALL NOT PROTRUDE INTO THE CIRCULATION PATHS. FURNITURE SHALL NOT IMPEDE THE ACCESSIBLE ROUTE TO THE LIFE SAFETY EQUIPMENT.  
 5. ALL LIFE SAFETY EQUIPMENT SHALL BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE OF 15" MIN. TO 48" MAX AFF. TYPICAL. ANSI2003/2017: 402, 307, 308.

**8 POOL CLEANING & SAFETY EQUIPMENT**  
 NO SCALE



**9 POOL SYMBOLS KEY**  
 NO SCALE

PC	POOL CONTRACTOR
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
AHJ	AUTHORITY HAVING JURISDICTION



- NOTES:  
 1. ALL SIGNS CONSTRUCTED OF ALUMINUM.  
 2. REFER TO DATA FOR BATHER LOADS.  
 3. OPERATOR TO PROVIDE HRS OF OPERATION & EMERGENCY NUMBER.  
 4. SIGNAGE TO BE INSTALLED IN POOL AREA AS REQUIRED BY CODE OR IN MOST OBVIOUS LOCATION TO BATHERS.  
 5. ONLY USE 316L SS FASTENERS TO HANG SIGNS.  
 6. POOL CONTRACTOR MUST VERIFY ALL SIGNAGE IS FURNISHED & INSTALLED PER LOCAL CODE REQUIREMENTS

**10 POOL SIGNAGE (CO)**  
 NO SCALE

- ALL SUBMERGED SUCTION OUTLETS MUST BE ANSI/APSP-16 2011, "APSP 7" CERTIFIED. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SUBMERGED SUCTION OUTLETS ARE FULLY COMPLIANT WITH ANSI/APSP-16 2011, "APSP 7" AND PROVIDING ALL NECESSARY DOCUMENTATION. INCLUDING, DRAIN COVERS, PUMP DESIGN AND SUCTION VELOCITIES.
- UNLESS SPECIFICALLY NOTED OTHERWISE, ALL POOL PIPE, FITTINGS AND VALVES SHALL BE TYPE 1, SCHEDULE 40 PVC PER ASTM D1785 & NSF 14 OR NSF 61-G LISTED AS SUITABLE FOR POTABLE WATER.
  - USE WELD-ON 970 PRIMER
  - USE WELD-ON 711 SOLVENT GLUE
- PIPING TO & FROM POOL HEATER OR HEAT EXCHANGER TO BE CPVC PIPE & FITTINGS. ALL CPVC PIPE & FITTINGS MUST COMPLY WITH ASTM D2846.
- PIPE ROUTING SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS.
- POOL PIPING TO BE INSTALLED TO MINIMIZE TOTAL DYNAMIC HEAD PRESSURE.
- ALL POOL PIPING MUST BE PRESSURE TESTED (MIN. 25 PSI) FOR AT LEAST 24 HRS. PRIOR TO CONCEALING. DROP PRESSURE TO 10 PSI WHEN CONCEALING AND/OR APPLYING SHOTCRETE TO ENSURE PIPES DO NOT GET COMPROMISED DURING PROCESS.
- REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL EARTHWORK, UNDERDRAIN & BACKFILL REQUIREMENTS, ETC.
- POOL DECK DRAINAGE IS BY OTHERS REFER TO CIVIL DRAWINGS.
- FLEXIBLE HOSE/PIPE IS NOT ACCEPTABLE.
- PIPING MUST HAVE ADEQUATE FREEZE PROTECTION WHEN APPLICABLE.
- ALL PIPING SHALL CONFORM TO APPLICABLE UPC/IPC (UNIFORM PLUMBING CODE/INTERNATIONAL PLUMBING CODE - RESOLUTION 144-2016).
- ALL PIPING WITHIN POOL EQUIPMENT ROOM MUST BE RUN OVER HEAD. PIPING INSTALLED ON FLOORS TO CREATE TRIPPING HAZARDS WILL NOT BE ACCEPTABLE.

**4 POOL PIPING NOTES**  
 NO SCALE

- REFER TO PLUMBING PLANS; PLUMBING/MECHANICAL CONTRACTOR TO PROVIDE;
  - FLOOR DRAINAGE IN POOL EQUIPMENT ROOM
  - ALL REQUIRED COMBUSTION AIR & VENTING FOR POOL & SPA HEATERS
  - ALL REQUIRED FRESH AIR INTAKE & VENTING IN POOL EQUIPMENT ROOM
  - POOL EQUIPMENT ROOM HEATING SYSTEM.
  - FRESH WATER SUPPLY LINE W/ BACKFLOW PREVENTION FOR POOL AUTO FILL SYSTEM
  - PROVIDE INDEPENDENT VENTILATION SYSTEM FOR CHEMICAL STORAGE ROOM. VENTILATION SYSTEM INCLUDING BUT NOT LIMITED TO FAN/BLOWER & DUCT WORK, MUST BE CORROSION RESISTANT AND EXHAUST AS REQUIRED BY CODE.
- ALL PLUMBING SHALL BE INSTALLED PER APPLICABLE CODE REQUIREMENTS.

**5 POOL MECHANICAL NOTES**  
 NO SCALE

- ALL WIRING TO CONFORM TO THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND STATE/COUNTY/CITY ELECTRICAL CODES.
- THE POOL/SPA STRUCTURES, POOL/SPA DECKS, POOL/SPA EQUIPMENT, EMBEDS, AND ALL OTHER APPLICABLE ITEMS HEREIN SHALL BE GROUNDED & BONDED PER NEC SECTION 680.  
**SPECIAL INSPECTION:** ALL BONDING MUST BE INSPECTED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO PLACEMENT OF ANY CONCRETE.
- ALL CONDUIT, BONDING & GROUNDING INSTALLED BY LICENSED ELECTRICAL CONTRACTOR.
- ALL CONDUIT INTEGRAL TO THE POOL/SPA STRUCTURE MUST BE WATERTIGHT I.E. LIGHT & SENSOR CONDUITS.
- ALL MOTORS MUST BE GFCI PROTECTED AS REQUIRED BY NEC.
- CONTRACTOR TO COORDINATE & VERIFY WITH SHOP DRAWINGS PROVIDED BY THE POOL & SPA MANUFACTURE.
- WIRING FOR LINE VOLTAGE IS NOT PERMITTED UNDER THE POOL/SPA OR WITHIN 5 FEET HORIZONTALLY OF THE POOL/SPA WALL.
- POOL/SPA SERVICE RECEPTACLES MUST BE INSTALLED AT LEAST 6 FEET FROM THE WATERS EDGE AND HAVE GFCI PROTECTION. ALL OUTDOOR 15A & 20A, 125V OR 240V RECEPTACLES MUST BE GFCI PROTECTED.
- ALL SWITCHES, TIMERS, BUTTONS, ETC. MUST BE AT LEAST 5 FEET HORIZONTALLY FROM THE WATERS EDGE.
- AN EQUIPOTENTIAL BONDING GRID MUST EXTEND 3 FEET HORIZONTALLY BEYOND THE WATERS EDGE OF THE POOL/SPA AS REQUIRED BY NEC SECTION 680.26
- A MINIMUM CONDUCTIVE SURFACE OF 9 SQ IN. MUST BE INSTALLED IN CONTACT WITH THE POOL/SPA WATER. THIS WATER BOND IS PERMITTED TO CONSIST OF METAL PARTS THAT REQUIRE TO BE BONDED IN NEC 680.26(B).

**6 POOL ELECTRICAL NOTES**  
 NO SCALE

- CONTRACTOR SHALL VERIFY ALL WORK IS IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES.
- GENERAL CONTRACTOR & POOL CONTRACTOR ARE BOTH RESPONSIBLE FOR VERIFYING ALL WORK HEREIN CONFORMS TO THE PROJECT GEOTECHNICAL REPORT. PROJECT GEOTECHNICAL ENGINEER MUST PERFORM AN OPEN HOLE OBSERVATION ONCE THE POOL HAS BEEN FULLY EXCAVATED TO VERIFY SOIL CONDITIONS.
- CONTRACTOR MUST VERIFY THE LOCATION OF ANY EXISTING BUILDING FOUNDATIONS AND UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR POOL/SPA CONSTRUCTION. ANY ADJACENT BUILDING FOOTINGS SHALL BE AT OR BELOW THE BOTTOM OF THE POOL SHELL AND AT A DISTANCE SPECIFIED BY THE BUILDING STRUCTURAL ENGINEER (ANY FOOTING WITHIN 3FT OF POOL/SPA SHELL MUST BE VERIFIED BY BUILDING STRUCTURAL ENGINEER).
- ALL DIMENSIONS AND DETAILS HEREIN MUST BE REVIEWED AND APPROVED BY PROJECT ARCHITECT AND CONTRACTOR OF RECORD FOR CONFORMITY TO ALL APPLICABLE BUILDING CODES AND CONSTRUCTION. CONTRACTOR OR RECORD IS RESPONSIBLE FOR MANAGING THE CONSTRUCTION AND VERIFYING ALL WORK IS COMPLETED PER THESE PLANS AND DETAILS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OF RECORD TO REPORT ANY DISCREPANCIES TO COLORADO POOL DESIGNS.
- STEEL REINFORCING FOR THE POOL/SPA STRUCTURES SHALL BE ASTM GRADE 60 AND IN ACCORDANCE WITH THE ACI DETAILING MANUAL OF STANDARD PRACTICE. UNLESS SPECIFICALLY NOTED OTHERWISE, STEEL REINFORCEMENT SHALL BE INSTALLED PER CHAPTER 25 AND SECTION 26.6 OF ACI 318-14.
- ALL STEEL REINFORCING SPLICES & DOWEL PROJECTIONS SHALL BE LAPPED BY A MINIMUM 42 BAR DIAMETERS AS FOLLOWS (WHICHEVER IS GREATER) AND SHALL NOT EVER BE LESS THAN 24":
 

SIZE	MIN. OVERLAP
#3-#5	32 INCHES
#6-#7	48 INCHES
- UNLESS SPECIFICALLY NOTED OTHERWISE, INSTALL REBAR IN CENTER OF WALLS & SLABS.
- CONCRETE SHALL BE PNEUMATICALLY APPLIED MORTAR "SHOTCRETE" CLASSED AS GRADE "A" CONCRETE SUBJECT TO LOCAL CODE REGULATIONS AND ACI 506.2-13 SHOTCRETE SPECIFICATIONS. POOL & SPA STRUCTURES ARE TO BE CONSTRUCTED MONOLITHICALLY; COLD JOINTS ARE NOT PERMITTED.

**SPECIAL INSPECTIONS:**

- AQUATIC CONSULTANT AND/OR PROJECT STRUCTURAL ENGINEER OF RECORD MUST INSPECT ALL POOL/SPA REBAR PRIOR TO PLACEMENT OF ANY CONCRETE.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING THIRD PARTY TESTING OF POOL CONCRETE AND PROVIDE 7 DAY, 14 DAY & 28 DAY BREAK TEST RESULTS TO COLORADO POOL DESIGNS.
- SHOTCRETE SHALL BE TYPE II CEMENT COMPOSED OF:
  - 8 1/2 SACKS OF CEMENT
  - 30% PEA GRAVEL
  - 70% SAND
  - AIR ENTRAINMENT: 8% PRIOR TO PUMPING WITH +/- 1.5 TOLERANCE
  - 2-5 OZ. OF WATER REDUCING ADMIXTURE
  - 10% WATER
  - 2"-4" SLUMP (FOR SHORT DISTANCES)
  - 4,500 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS
- COLD WEATHER CONDITIONS: WHEN AMBIENT AIR TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT DURING THE PLACEMENT OF CONCRETE, CONTRACTOR MUST FOLLOW ACI 308 PROVISIONS.
- HOT WEATHER CONDITIONS: WHEN AMBIENT AIR TEMPERATURES EXCEED 90 DEGREES FAHRENHEIT DURING THE PLACEMENT OF CONCRETE, CONTRACTOR MUST FOLLOW ACI 305 PROVISIONS.
- CURING:
  - PROTECT FRESHLY PLACED SHOTCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES.
  - START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM SHOTCRETE SURFACE AFTER PLACING AND FINISHING.
- CURING EXPOSED SURFACES: CURE SHOTCRETE BY ONE OF THE FOLLOWING METHODS:
  - MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR AT LEAST SEVEN DAYS WITH WATER, CONTINUOUS WATER-FOG SPRAY, WATER-SATURATED ABSORPTIVE COVERS, OR MOISTURE-RETAINING COVERS (LAP & SEAL SIDES AND ENDS OF COVERS).
  - CURING COMPOUND: APPLY CURING COMPOUND UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS. RECOAT AREAS SUBJECT TO HEAVY RAINFALL WITHIN THREE HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD.
    - APPLY CURING COMPOUND TO NATURAL OR GUN-FINISHED SHOTCRETE AT A RATE OF 1 GAL/100 SF.
  - CURING FORMED SURFACES: CURE FORMED SHOTCRETE SURFACES BY MOIST CURING WITH FORMS IN PLACE FOR FULL CURING PERIOD OR UNTIL FORMS ARE REMOVED, IF FORMS ARE REMOVED, CONTINUE CURING BY METHODS SPECIFIED ABOVE, AS APPLICABLE.
- THE STRUCTURAL DESIGN SHOWN HEREIN IS BASED ON THE CONCRETE STRUCTURES BEING BACKFILLED WITH AND SUPPORTED ON UNIFORM AND SUITABLE SOIL FOR ALL AREAS OF POOL AND SPAS (TO AVOID DIFFERENTIAL SETTLEMENT AND CRACKING OF THE CONCRETE SHELL, ESPECIALLY NEAR DESCENDING SLOPES AND SLAB/SPA ELEVATION CHANGES). AVOID PLACING ANY CHANGES/TRANSITIONS IN SOIL BEARING STRATUM UNDER THE POOL AND/OR SPA FOOTPRINTS. IF THE CONTRACTOR OR CLIENT OBSERVE ANY CONDITIONS OF SOIL DISCONTINUITY DURING THE EXCAVATION, PLEASE CONTACT THE PROJECT GEOTECHNICAL ENGINEER AND COLORADO POOL DESIGNS FOR FURTHER DIRECTION.
- FOR POOL STRUCTURES THAT REQUIRE BACKFILLING OPERATIONS, BACKFILL SHALL NOT BE PLACED FOR A MIN. OF 7 DAYS OR UNTIL THE CONCRETE HAS REACHED 75% OF ITS 28-DAY STRENGTH (WHICHEVER IS LONGER DURATION).
- CONTRACTOR MUST INSTALL A MIN. 1/2 INCH EXPANSION JOINT BETWEEN POOL WALLS AND CONCRETE DECK. EXPANSION JOINT TO BE FINISHED WITH A CONTINUOUS BEAD OF POLYURETHANE MARINE GRADE SEALANT, 3M 5200 OR EQUAL.

**7 POOL STRUCTURAL NOTES**  
 NO SCALE

PROJECT TEAM:	PROJECT ADDRESS:	BUILDING CODES:
ARCHITECT: 359 DESIGN, LLC. BEND, OR. PH: 801.419.3014	TBD Steamboat Springs, CO	2018 International Building Code (IBC) 2018 International Mechanical Code (IMC) 2018 International Plumbing Code (IPC) 2018 International Fire Code (IFC) 2020 National Electrical Code (NEC)
AQUATIC CONSULTANT: COLORADO POOL DESIGNS 13301 W. 43rd Drive, Unit 10 Golden, CO 80403 PH: 720.693.8146		ANSI/APSP/ICC-7 2013 "American Standards for Suction Entrapment Avoidance"

**1 PROJECT INFORMATION**  
 NO SCALE

Sheet List	
Sheet Number	Sheet Name
SP100	TITLE SHEET & GENERAL NOTES
SP101	POOL & SPA AREA PLAN
SP102	POOL PLAN, DATA & TYP. WALL DETAIL
SP103	SPA PLAN, DATA & TYP. WALL DETAIL
SP104	POOL & SPA EQUIPMENT ROOM PLAN
SP200	POOL & SPA SECTIONS
SP201	CONSTRUCTION DETAILS
SP300	POOL & SPA PIPE SCHEMATICS
SP301	POOL & SPA PIPING DETAILS
SP400	POOL & SPA DEPTH MARKER PLANS & DETAILS
SP401	POOL & SPA BONDING PLAN & DETAILS
SP500	POOL & SPA 3D RENDERINGS

- CONSTRUCTION OF THE POOL & SPA HEREIN IS BY THE POOL CONTRACTOR. SCOPE OF WORK INCLUDES, BUT NOT LIMITED TO, EXCAVATION, OFF-SITE REMOVAL OF ALL EXCAVATED SPOILS, FRAMING/BRACING, TRENCHING, BACKFILL, PLUMBING, UNDERWATER LIGHTS, REBAR, BONDING/GROUNDING, ELECTRICAL, SHOTCRETE, TILE, COPING, PLASTER, HANDRAILS, ANCHORS, DEPTH MARKERS, HANDICAP LIFT, CAULKING, POOL SAFETY SIGNAGE, SAFETY MAINTENANCE & EMERGENCY EQUIPMENT.
- POOL & SPA EQUIPMENT TO INCLUDE, BUT NOT LIMITED TO ITEMS LISTED ON SP103 UNLESS NOTED OTHERWISE.
- POOL ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL AND CONNECTIONS FROM POOL PANEL TO POOL EQUIPMENT. POOL PANEL AND ALL BREAKERS BY GENERAL CONTRACTOR.
- HVAC AND MECHANICAL AT POOL EQUIPMENT ROOM (INCLUDING BUT NOT LIMITED TO: DUCTWORK, COMBUSTION AIR, VENTILATION, GAS, FRESH WATER SUPPLY AND BACKFLOW PREVENTER) SHALL BE PROVIDED, INSTALLED AND CONNECTED BY GENERAL CONTRACTOR.
- REFER TO GENERAL NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.

**2 POOL CONTRACTOR SCOPE**  
 NO SCALE

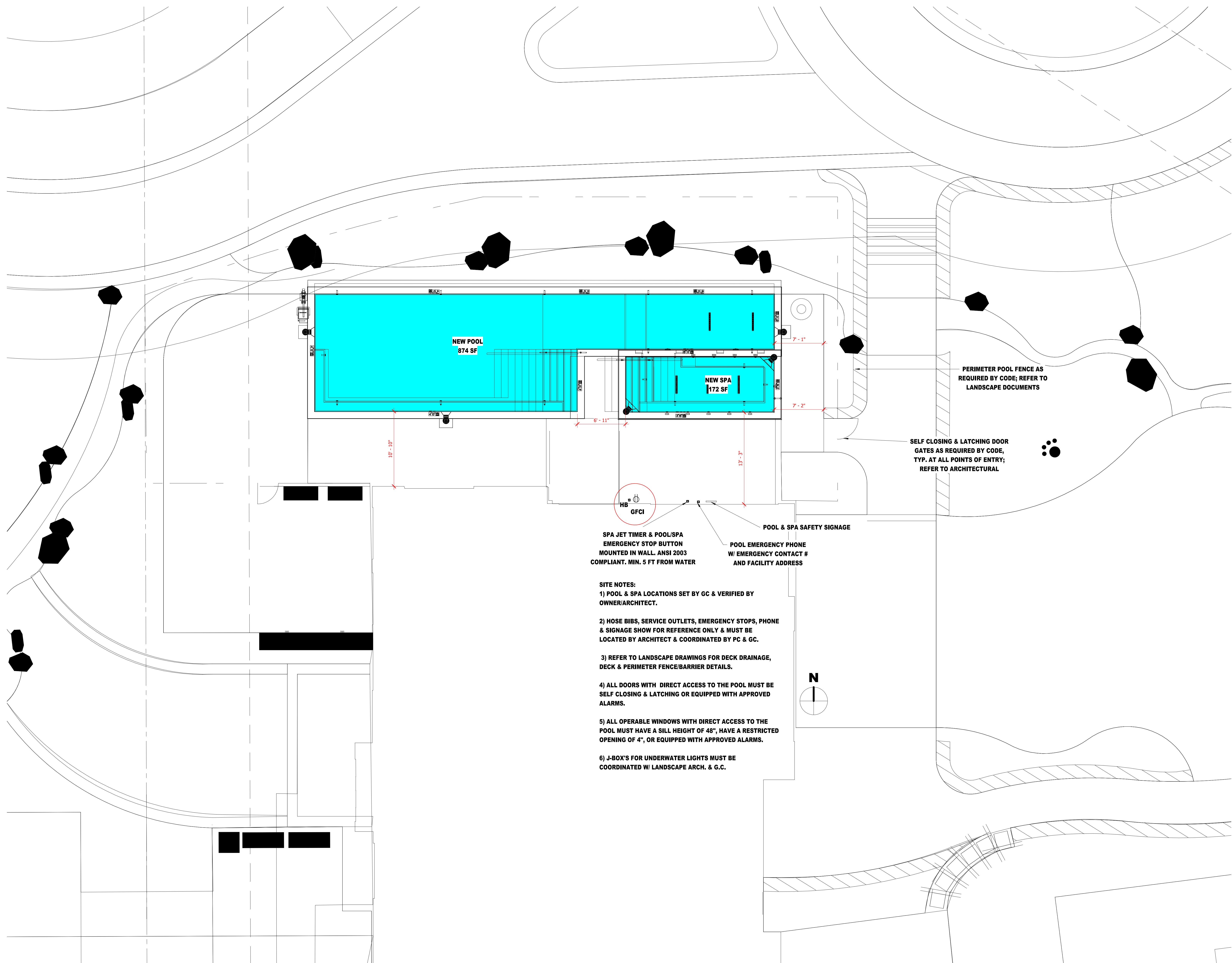
- THESE DRAWINGS REPRESENT THE DESIGN INTENT TO ACCOMMODATE THE OWNER'S REQUIRED PROGRAMMING. THE CONTRACTOR SHALL NOT MAKE ASSUMPTIONS. ANY DISCREPANCIES WITHIN THESE DOCUMENTS OR SPECIFICATIONS MUST BE PRESENTED TO THE ARCHITECT/OWNER FOR CLARIFICATION.
- POOL CONTRACTOR WILL BE FULLY RESPONSIBLE FOR DEVIATING FROM THE CONSTRUCTION DOCUMENTS. INCLUDING, BUT NOT LIMITED TO, ALL SUBMERGED SUCTION OUTLETS.
- DRAWINGS SHALL INCORPORATE ALL GOVERNING CODES/REGULATIONS. CONTRACTOR WILL BUILD PER THESE DRAWINGS BUT MUST VERIFY DRAWINGS AND ALL WORK ARE CODE COMPLIANT.
- POOL CONTRACTOR MUST REVIEW CONSTRUCTION DOCUMENTS FROM ALL OTHER TRADES INVOLVED IN THE PROJECT AND COORDINATE AS NEEDED TO DELIVER A FULLY FUNCTIONAL END PRODUCT.
- POOL DECK SHALL BE NON SLIP FINISH, SLOPE DECK TOWARDS DECK DRAINS A MINIMUM 2 INCHES PER 100 FEET. POOL DECK & DECK DRAINAGE SYSTEM IS FULLY FURNISHED & INSTALLED BY GENERAL CONTRACTOR. ALL SURFACE WATER SHALL DRAIN AWAY FROM POOL/SPA TO DECK DRAINAGE SYSTEM, STANDING WATER IS NOT PERMITTED OR ACCEPTABLE.
- END PRODUCT MUST CONFORM TO ALL APPLICABLE HEALTH & BUILDING CODES.
- POOL & GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED APPLICABLE PERMITS & INSPECTIONS.
- ALL NECESSARY SITE PREPARATION, ROUGH GRADING, POOL/SPA LOCATIONS AND BENCHMARK/ELEVATIONS ARE BY GENERAL CONTRACTOR.
- HVAC AND MECHANICAL AT POOL AREAS AND POOL EQUIPMENT ROOMS (INCLUDING BUT NOT LIMITED TO, DUCTWORK, COMBUSTION AIR, VENTILATION, GAS SUPPLY LINES, SANITARY BACKWASH LINE, FRESH WATER SUPPLY & BACKFLOW PREVENTER) SHALL BE PROVIDED, INSTALLED AND CONNECTED BY GENERAL CONTRACTOR.
- POOL ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL AND CONNECTIONS FROM THE POOL PANEL TO POOL EQUIPMENT; MAIN POOL ELECTRICAL PANEL, SUB PANELS, ALL BREAKERS & DISCONNECTS BY GENERAL CONTRACTOR.
- ELECTRICAL INSPECTION SHALL APPROVE GROUNDING/BONDING OF POOL/SPA REBAR & ALL FIXTURES/EMBEDMENTS AS WELL AS ALL CONDUITS PRIOR TO POURING CONCRETE/APPLYING SHOTCRETE.
- UNDERWATER LIGHT NICHES ARE PROVIDED & INSTALLED BY THE POOL CONTRACTOR PRIOR TO SHOTCRETE. POOL ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED CONDUITS FROM LIGHT NICHES TO RESPECTIVE JUNCTION BOXES WHICH ARE PROVIDED BY GC. ALL BONDING/GROUNDING AND WIRING (INCL: LIGHTS, HANDRAIL ANCHORS, ADA LIFT ANCHORS, REINFORCING STEEL, ETC.) IS COMPLETED BY POOL ELECTRICAL CONTRACTOR.
- POOL BACKWASH SUMP & UNDERGROUND PIPING TO SANITARY BY GENERAL CONTRACTOR.
- A SUFFICIENT QUANTITY OF HOSE BIBS W/ BACKFLOW PREVENTERS SHALL BE PROVIDED AT THE POOL/SPA DECK. ALL AREAS OF THE POOL/SPA DECK MUST BE ADEQUATELY REACH BY A MAXIMUM HOSE LENGTH OF 50 FEET. ALL HOSE BIBS & SUPPLY PIPE FULLY FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
- GENERAL CONTRACTOR MUST INSTALL A MIN. 1/2 INCH EXPANSION JOINT BETWEEN POOL WALLS AND CONCRETE DECK. EXPANSION JOINT TO BE FINISHED WITH A CONTINUOUS BEAD OF POLYURETHANE MARINE GRADE SEALANT, 3M 5200 OR EQUAL. COLOR SELECTED BY ARCH.
- POOL/SPA AREA TO BE FULLY ENCLOSED BY WALL/FENCE WITH SELF CLOSING & LATCHING GATES/DOORS AS REQUIRED BY CODE. POOL BARRIER PROVIDED & INSTALLED BY GENERAL CONTRACTOR.
- EMERGENCY SHUT OFF BUTTONS "EPO" SHALL BE PROVIDED AND INSTALLED BY POOL CONTRACTOR. EPO IS TO BE INSTALLED PER ADA & NEC SECTION 680, NOT LESS THAN 5 FEET FROM THE WATERS EDGE AND IN AN OBVIOUS AND READILY ACCESSIBLE LOCATION WITHIN FULL VIEW OF THE POOL/SPA. EPO SHALL DISABLE ALL POOL/SPA PUMPS WHEN DEPRESSED AND SOUND AN AUDIBLE ALARM AND OR VISUAL LIGHT, AS REQUIRED BY AHJ.
- POOL CONTRACTOR SHALL FURNISH & INSTALL A 15 MIN. PUSH BUTTON TIMER FOR THE SPA JET PUMP SYSTEM. JET TIMER MUST BE INSTALLED PER NEC SECTION 680, NOT LESS THAN 5 FEET FROM THE WATERS EDGE. LOCATED WHERE BATHERS ENTER/EXIT THE SPA AND LABELED "SPA JET TIMER".
- POOL CONTRACTOR SHALL COORDINATE ALL POOL/SPA WALL MOUNTED TIMERS, BUTTONS, SWITCHES, ETC. SO TO FALL WITHIN THE TILE WAINSCOT OR ABOVE SO NOT TO INTERRUPT THE TOP LINE OF TILE. ALL TIMERS, BUTTONS, CONTROLS ACCESSIBLE TO PUBLIC MUST BE INSTALLED PER ADA REQUIREMENTS.
- ALL DECK LIGHTING FURNISHED & INSTALLED BY GENERAL CONTRACTOR.
- DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. PLANS & DETAILS ARE TO SCALE UNLESS NOTED OTHERWISE. WHILE DRAWING SCALE IS ASSUMED TO BE RELIABLE, ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED BY THE AQUATIC DESIGNER. CONTRACTOR MUST CONSULT THE AQUATIC DESIGNER OR ARCHITECT FOR DIMENSIONAL VERIFICATION. CONTRACTOR MUST NOTIFY THE ARCHITECT OR AQUATIC DESIGNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.

**3 GENERAL NOTES**  
 NO SCALE



THESE DRAWINGS WERE NOT PRODUCED BY STRUCTURAL ENGINEERING SOLUTIONS, INC. BUT HAVE BEEN REVIEWED FOR STRUCTURAL ACCURACY. THE P.E. STAMP PROVIDED HEREBY APPLIES ONLY TO THE STRUCTURAL PORTION OF THIS SHEET.

**REVIEWED  
FOR  
CODE  
COMPLIANCE**  
06/24/2025



- SITE NOTES:**
- 1) POOL & SPA LOCATIONS SET BY GC & VERIFIED BY OWNER/ARCHITECT.
  - 2) HOSE BIBS, SERVICE OUTLETS, EMERGENCY STOPS, PHONE & SIGNAGE SHOW FOR REFERENCE ONLY & MUST BE LOCATED BY ARCHITECT & COORDINATED BY PC & GC.
  - 3) REFER TO LANDSCAPE DRAWINGS FOR DECK DRAINAGE, DECK & PERIMETER FENCE/BARRIER DETAILS.
  - 4) ALL DOORS WITH DIRECT ACCESS TO THE POOL MUST BE SELF CLOSING & LATCHING OR EQUIPPED WITH APPROVED ALARMS.
  - 5) ALL OPERABLE WINDOWS WITH DIRECT ACCESS TO THE POOL MUST HAVE A SILL HEIGHT OF 48", HAVE A RESTRICTED OPENING OF 4", OR EQUIPPED WITH APPROVED ALARMS.
  - 6) J-BOX'S FOR UNDERWATER LIGHTS MUST BE COORDINATED W/ LANDSCAPE ARCH. & G.C.

1 POOL AREA PLAN  
3/16" = 1'-0"

**AMBLE**

2305 Mt. Werner Circle  
STEAMBOAT SPRINGS, CO 80487

NO.	TITLE/PURPOSE:
DATE:	PERMIT SET
12/15/2023	

SCALE: 3/16" = 1'-0"

ISSUE DATE: 12/15/2023

DRAWN BY: CPD

PROJECT #: 2023

SHEET TITLE: POOL & SPA AREA PLAN

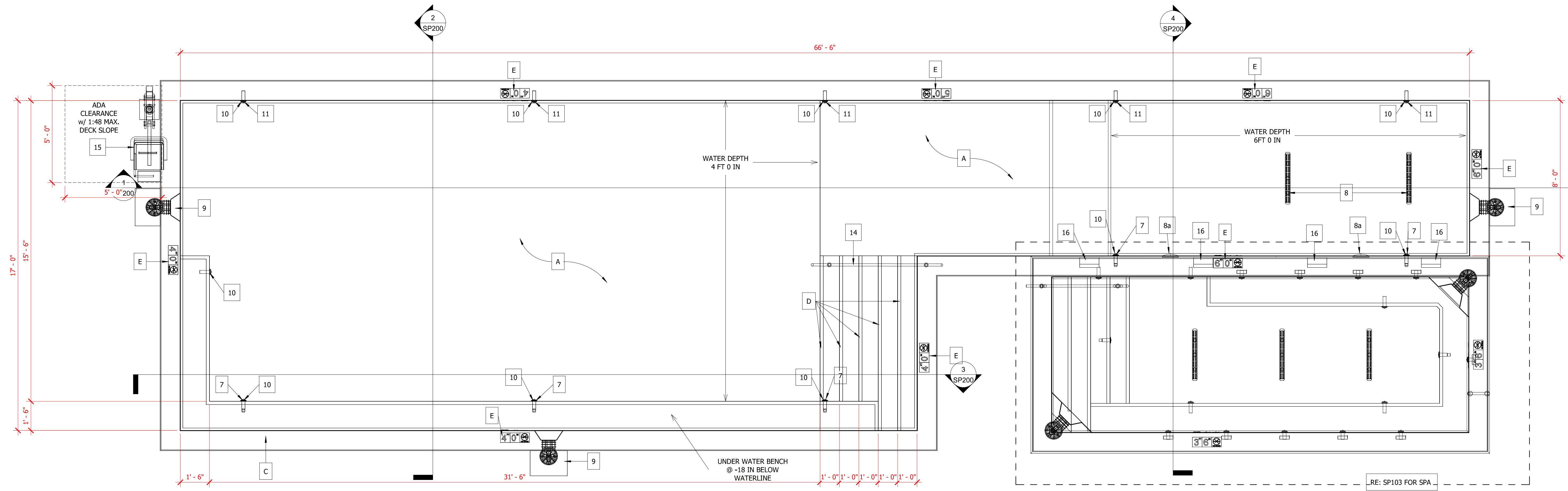
SHEET #:

**SP101**

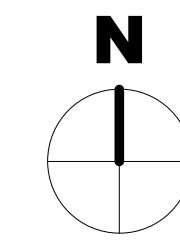


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1 POOL PLAN  
3/8" = 1'-0"



- NOTES:**
- 1) DIMENSIONS SHOWN ON THIS PLAN ARE TO/FROM WATERS EDGE, REFER TO TYPICAL WALL DETAILS.
  - 2) POOL CONTRACTOR MUST VERIFY ALL DIMENSIONS & LOCATION OF POOL & SPA WITH GENERAL CONTRACTOR.
  - 3) ALL PIPE MUST BE SCHEDULE 40 PVC; FLEX PIPE NOT ACCEPTABLE.
  - 4) RETURN INLETS SPACED AT MAXIMUM 15'-0".

- NOTES:**
1. POOL CONTRACTOR MUST VERIFY ALL ELECTRICAL REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.
  2. CIRCULATION SYSTEM COMPONENTS AND EQUIPMENT SHALL COMPLY WITH 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPS)

**POOL DATA:**

SIZE (AREA):	874 SF
PERIMETER:	167'-0" LN FT
VOLUME:	26,455 GALLONS
FLOW RATE:	104 GALLONS PER MINUTE (GPM)
TURN OVER:	4.2 HOURS
FILTRATION RATE:	15.0 GPM/SF
BACKWASH RATE:	106 GPM BY GRAVITY
SANITIZER:	CALCIUM HYPOCHLORITE
WATER TEMP:	82 DEGREES F (YEAR ROUND OPERATION)
BATHER LOAD:	36 BATHERS

**EQUIPMENT SCHEDULE:**

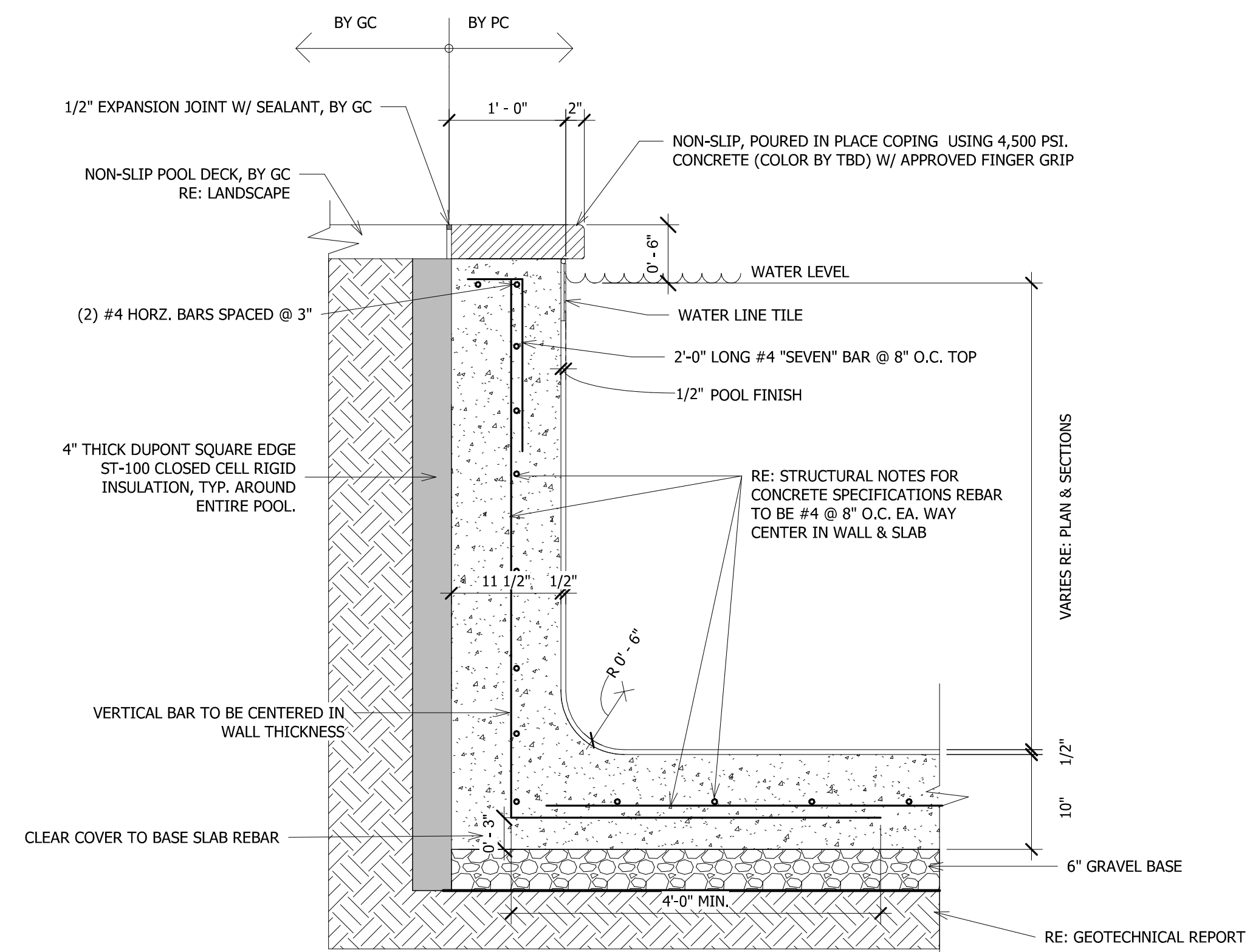
TAG	QUANTITY	TITLE	MAKE/MODEL	NOTES
1	1	POOL CIRC. PUMP	PENTAIR INTELLIFLO 3, 3 HP, 104 GPM @ 3450 RPM PROVIDE (1) EXTRA STRAINER BASKET.	208-230V, 16A, 1 PHASE. GFCI PROTECTED INTERLOCK TO EPO
1a	1	WATERFALL PUMP	PENTAIR INTELLIFLO 3 VSF, VARIABLE SPEED, 3.0 HP, 60 RPM @ 30 TDH PROVIDE (2) EXTRA STRAINER BASKETS.	208-230V, 1 PHASE. GFCI PROTECTED INTERLOCK TO EPO
2	1	POOL FILTER	PENTAIR TR140C, NSF COMMERCIAL SAND FILTER W/ MULTIPORT VALVE	7.06 SF FILTER AREA
3	1	POOL HEAT PUMP	HEAT PUMP BY MECHANICAL	
4	1	SANITIZER	ACCU-TAB POWERBASE 1030 AUTOMATIC CHLORINE FEEDER UP TO 67# PER DAY	120V, INTERLOCK TO CHEM. CONTROLLER
5	1	pH BALANCER	ACID-RITE 450 AUTOMATIC ACID FEEDER	120V, INTERLOCK TO CHEM. CONTROLLER
6	1	CONTROLLER	HAYWARD CAT 2000 CONTROLLER W/ FLOW SWITCH, INTERLOCK TO CHLORINE & ACID FEEDERS.	120V / 60Hz W/ FLOW SENSOR
7	5	POOL LIGHTS	HAYWARD COLOR LOGIC 320 COLOR LED POOL LIGHT, UL LISTED, 23W (100W EQUIV.)	12V W/ TRANSFORMERS W/ HAYWARD LIGHT CONTROLLER
8	2	CIRC. SUCTION OUTLET (MAIN DRAIN)	AQUASTAR CDFL102, VGB APPROVED RATED AT 316 GPM EA.	COLOR WHITE
8a	2	WATERFALL SUCTION	SHARED WITH CIRCULATION SUCTION	
9	3	SKIMMERS	PENTAIR U3 08650-1404, NSF APPROVED, FOR GUNITE W/ 2" PVC SLIP PORT	W/ "POUR-A-LID" TO MATCH COPING
10	11	WALL INLET	PENTAIR #540042, 1.5" DIRECTIONAL WALL INLET	COLOR BY ARCH
11	5	EDGE PUMP RETURN	PENTAIR #540042, 1.5" DIRECTIONAL WALL INLET	COLOR BY ARCH
12	1	EPO BUTTON	SHARED W/ SPA (REFER TO SPA DATA) INTERLOCK TO CIRC. & EDGE PUMP	PROVIDE RELAY/MOTOR STARTER TO MATCH MOTOR HP
13	1	AUTO FILL	JANDY LEVELOR K2300 W/ DUAL SENSOR MOUNTED IN HOLDING TANK & SKIMMER	120V CONTROLLER W/ 24V SENSOR
14	1	HAND RAILS	SR SMITH ART-1002, 316L SS, 1.9" OD, 0.065" WALL HANDRAIL W/ SR SMITH EP-100F SS ESCUTCHEON COVERS	AS-100B ANCHORS, BONDED PC TO FIELD VERIFY MEASUREMENTS
15	1	ADA POOL LIFT	SR SMITH 390-2000 SPLASH PACKAGE (W/ COVER & CADDY) & ANCHOR	ANCHOR BONDED PER NEC 680, RE: PLAN
16	4	WATERFALL FEATURE	NATURAL WONDERS CLASSIC WATERFALL 12" W/ BOTTOM PORT	COLOR:TBD

**FINISH SCHEDULE:**

TAG	SIZE	TITLE	MAKE/MODEL	NOTES
A	~	INTERIOR FINISH	SGM DIAMOND BRITE	COLOR: COOL BLUE
B	TBD	WATER LINE TILE	POOL SPECIFIC GLAZED TILE; TBD	GROUT: LATICRETE SPECTRALOCK PRO, COLOR: TBD
C	3.5" THICK	COPING STONE	C.L.P CONCRETE W/ APPROVED FINGER GRIP	NON-SLIP FINISH, COLOR BY ARCH
D	2"x2"	STEP & BENCH EDGE	2" BULLNOSE ON HORIZONTAL & 2" ON VERTICAL COLOR TBD (NON-GLAZED)	GROUT: LATICRETE SPECTRALOCK PRO, COLOR: TBD
E	6"x6"	DEPTH MARKER	AS REQ'D BY CODE: TILE DEPTH MARKERS ON VERTICAL WATERLINE & SANDBLASTED ON HORIZONTAL COPING.	REFER TO SP400 DETAIL

**CONTRACTOR MUST SUBMIT SAMPLES OF ALL FINISHES FOR REVIEW & APPROVAL PRIOR TO ORDERING**

2 POOL DATA  
NO SCALE



- NOTES:**
1. DECK SURFACE TO BE NON-SLIP FINISH AND SLOPE AWAY FROM POOL AT A MIN. OF 1/4" PER FOOT AND A MAX. OF 1/2" PER FOOT.
  2. REFER TO DATA & FINISHES FOR MAKE, MODEL, PATTERNS, AND ETC.

3 TYP. WALL & SLAB DETAIL  
1" = 1'-0"

**AMBLE**

2305 Mt. Werner Circle  
STEAMBOAT SPRINGS, CO 80487

NO.	DATE:	TITLE/PURPOSE:
	12/15/2023	PERMIT SET

SCALE: **As indicated**

ISSUE DATE: **12/15/2023**

DRAWN BY: **CPD**

PROJECT #: **2023**

SHEET TITLE: **POOL PLAN, DATA & TYP. WALL DETAIL**

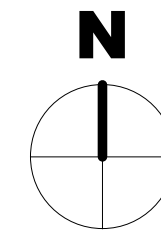
SHEET #:

**SP102**

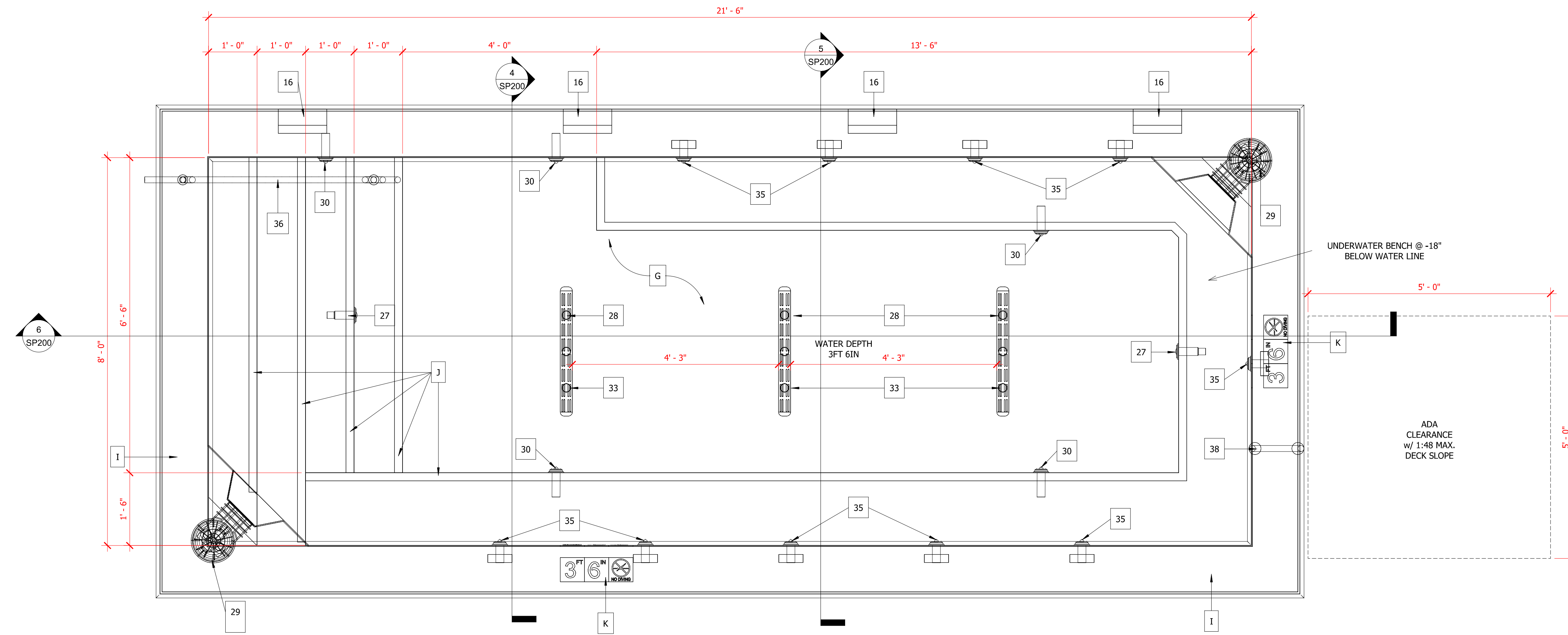


THESE DRAWINGS WERE NOT PRODUCED BY STRUCTURAL ENGINEERING SOLUTIONS, INC. BUT HAVE BEEN REVIEWED FOR STRUCTURAL ADEQUACY. THE P.E. STAMP PROVIDED HEREIN APPLIES ONLY TO THE STRUCTURAL PORTION OF THIS SHEET.

**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025



- NOTES:**
- 1) DIMENSIONS SHOWN ON THIS PLAN ARE TO/WATER'S EDGE, REFER TO TYPICAL WALL DETAIL.
  - 2) POOL CONTRACTOR MUST VERIFY ALL DIMENSIONS & LOCATION OF POOL & SPA WITH GENERAL CONTRACTOR.
  - 3) ALL PIPE MUST BE SCHEDULE 40 PVC; FLEX PIPE NOT ACCEPTABLE.



1 SPA PLAN  
 3/4" = 1'-0"

- NOTES:**
1. POOL CONTRACTOR MUST VERIFY ALL ELECTRICAL REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.
  2. CIRCULATION SYSTEM COMPONENTS AND EQUIPMENT SHALL COMPLY WITH 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPS)

**SPA DATA:**

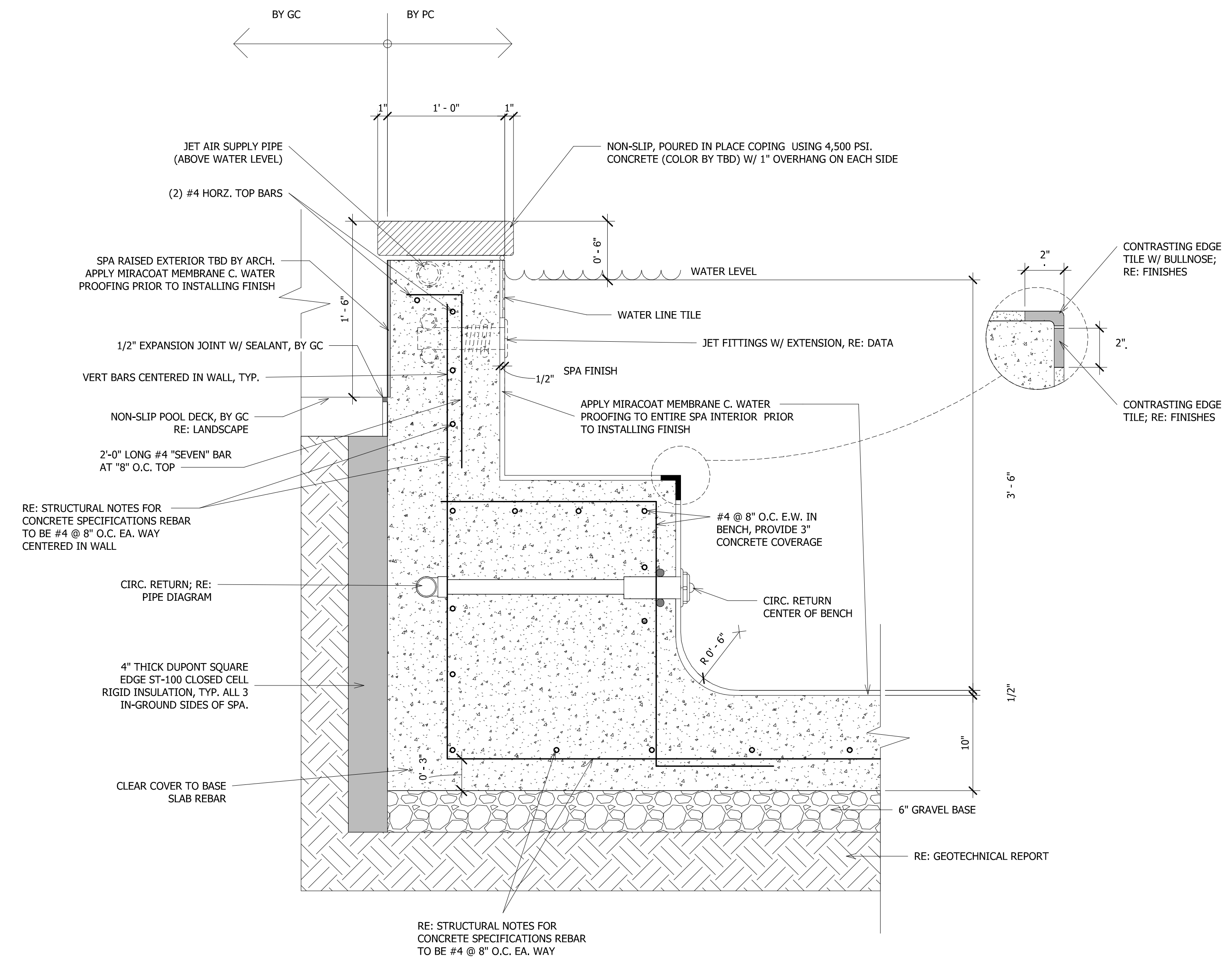
SIZE (AREA):	172 SF
PERIMETER:	59'-0" LN FT
VOLUME:	3,239 GALLONS
FLOW RATE:	148 GALLONS PER MINUTE (GPM)
TURN OVER:	22 MINUTES
FILTRATION RATE:	18 GPM/SF
BACKWASH RATE:	75 GPM BY GRAVITY
SANITIZER:	CALCIUM HYPOCHLORITE
WATER TEMP:	103 DEGREES F (YEAR-ROUND OPERATION)
BATHER LOAD:	10 BATHERS

EQUIPMENT SCHEDULE:	TAG	QUANTITY	TITLE	MAKE/MODEL	NOTES
	21	1	CIRCULATION PUMP	PENTAIR, WHISPERFLO XF VS, 5 HP, 148 GPM @ 3450 RPM, PROVIDE (1) EXTRA STRAINER BASKET.	208-230V, 30A, 1PH
	22	2	FILTER	PENTAIR, TR100C, NSF COMMERCIAL SAND FILTER W/ MULTI-PORT VALVE	4.91 SF TOTAL FILTER AREA
	23	1	SPA HEAT PUMP	HEAT PUMP BY MECHANICAL	
	24	1	SANITIZER	ACCUT-TAB POWERBASE 1030 AUTOMATIC CHLORINE FEEDER UP TO 67# PER DAY	120V, INTERLOCK TO CHEM. CONTROLLER
	25	1	pH BALANCER	ACID-RITE 450 AUTOMATIC ACID FEEDER	120V, INTERLOCK TO CHEM. CONTROLLER
	26	1	CONTROLLER	HAYWARD CAT 2000 CONTROLLER W/ FLOW SWITCH, INTERLOCK TO CHLORINE & ACID FEEDERS.	120V / 60Hz W/ FLOW SENSOR
	27	2	SPA LIGHT	HAYWARD COLOR LOGIC 320 COLOR LED POOL LIGHT, UL LISTED, 23W (100W EQUIV.)	12V W/ TRANSFORMERS W/ HAYWARD LIGHT CONTROLLER
	28	3	CIRC. SUCTION OUTLET (MAIN DRAIN)	AQUASTAR CDFL102, VGB APPROVED RATED AT 316 GPM EA.	COLOR WHITE
	29	2	SKIMMERS	PENTAIR U3 08650-1404, NSF APPROVED, FOR GUNITE W/ 2" PVC SLIP PORT	W/ "POUR-A-LID" TO MATCH COPING
	30	5	WALL INLET	PENTAIR #540042, 1.5" DIRECTIONAL WALL INLET	COLOR BY ARCH
	31	1	EPO & JET TIMER	PENTAIR LX802 EMERGENCY STOP BUTTON W/ PUSH BUTTON JET TIMER PROVIDE CONTACTOR & MATCH COIL W/ MOTOR WHEN CONNECTING TO 3 PHASE	EPO INTERLOCKS TO CIRC & JET PUMPS 15 MIN. TIMER INTERLOCKS TO JET PUMP
	32	1	AUTO FILL	JANDY LEVELOR K1100 W/ SENSOR MOUNTED IN SKIMMER	120V CONTROLLER W/ 24V SENSOR
	33	3	JET SUCTION OUTLET	SHARED WITH CIRCULATION SUCTION	REFER TO PIPE SCHEMATIC
	34	1	JET PUMP	PENTAIR, WHISPERFLO XF VS, 5 HP, 150 GPM @ 3450 RPM,	208-230V, 30A, 1PH
	35	10	JETS	BALBOA HYDRO JET 10-S100 W/ 10-4400 EXTENSION & 10-7825 WRENCH	
	36	1	HAND RAIL	SR SMITH ART-1002, 316L SS, 1.9" OD, 0.065" WALL HANDRAIL W/ (2) SR SMITH EP-100F SS ESCUTCHEON COVERS	(2) AS-100B ANCHORS, BONDED PC TO FIELD VERIFY MEASUREMENTS
	37	1	AIR BLOWER	JANDY PSB220 PRO SERIES, 2 HP AIR BLOWER, INTERLOCKED TO SPA JET PUMP	120V
	38	1	ADA GRAB BAR	SR SMITH, EB-12, 12" ADA COMPLIANT GRAB RAIL W/ ANCHORS & ESCUTCHEONS	ANCHORS BONDED PER NEC 680

FINISH SCHEDULE:	TAG	SIZE	TITLE	MAKE/MODEL	NOTES
	G		INTERIOR FINISH	SGM DIAMOND BRITE	COLOR: COOL BLUE
	H	6"x6"	WATER LINE TILE	POOL SPECIFIC GLAZED TILE; TBD	GROUT: LATICRETE SPECTRALOCK PRO, COLOR: TBD
	I	3.5" THICK	COPING STONE	C.I.P CONCRETE w/ APPROVED FINGER GRIP	NON-SLIP FINISH, COLOR BY ARCH
	J	2"x2"	STEP & BENCH EDGE	2" BULLNOSE ON HORIZONTAL & 2" ON VERTICAL COLOR TBD (NON-GLAZED)	GROUT: LATICRETE SPECTRALOCK PRO, COLOR: TBD
	K	6"x6"	DEPTH MARKER	AS REQ'D BY CODE: TILE DEPTH MARKERS ON VERTICAL WATERLINE & SANDBLASTED ON HORIZONTAL COPING.	REFER TO SP400 DETAIL
	L	TBD	RAISED EXTERIOR	POOL SPECIFIC GLAZED TILE; TBD	GROUT: LATICRETE SPECTRALOCK PRO, COLOR: TBD

**CONTRACTOR MUST SUBMIT SAMPLES OF ALL FINISHES FOR REVIEW & APPROVAL PRIOR TO ORDERING**

2 SPA DATA  
 NO SCALE



- NOTES:**
1. DECK SURFACE TO BE NON-SLIP FINISH AND SLOPE AWAY FROM POOL AT A MIN. OF 1/4" PER FOOT AND A MAX. OF 1/2" PER FOOT.
  2. REFER TO DATA & FINISHES FOR MAKE, MODEL, PATTERNS, AND ETC.

3 TYP. SPA WALL & SLAB DETAIL  
 1 1/2" = 1'-0"

**AMBLE**

2305 Mt. Werner Circle  
 STEAMBOAT SPRINGS, CO 80487

NO. DATE: 12/15/2023  
 TITLE/PURPOSE: PERMIT SET

SCALE: **As indicated**

ISSUE DATE: **12/15/2023**

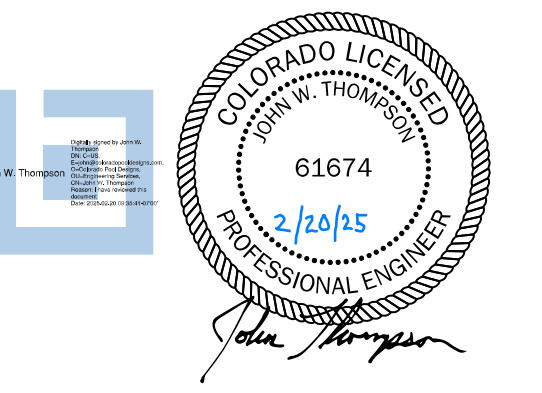
DRAWN BY: **CPD**

PROJECT #: **2023**

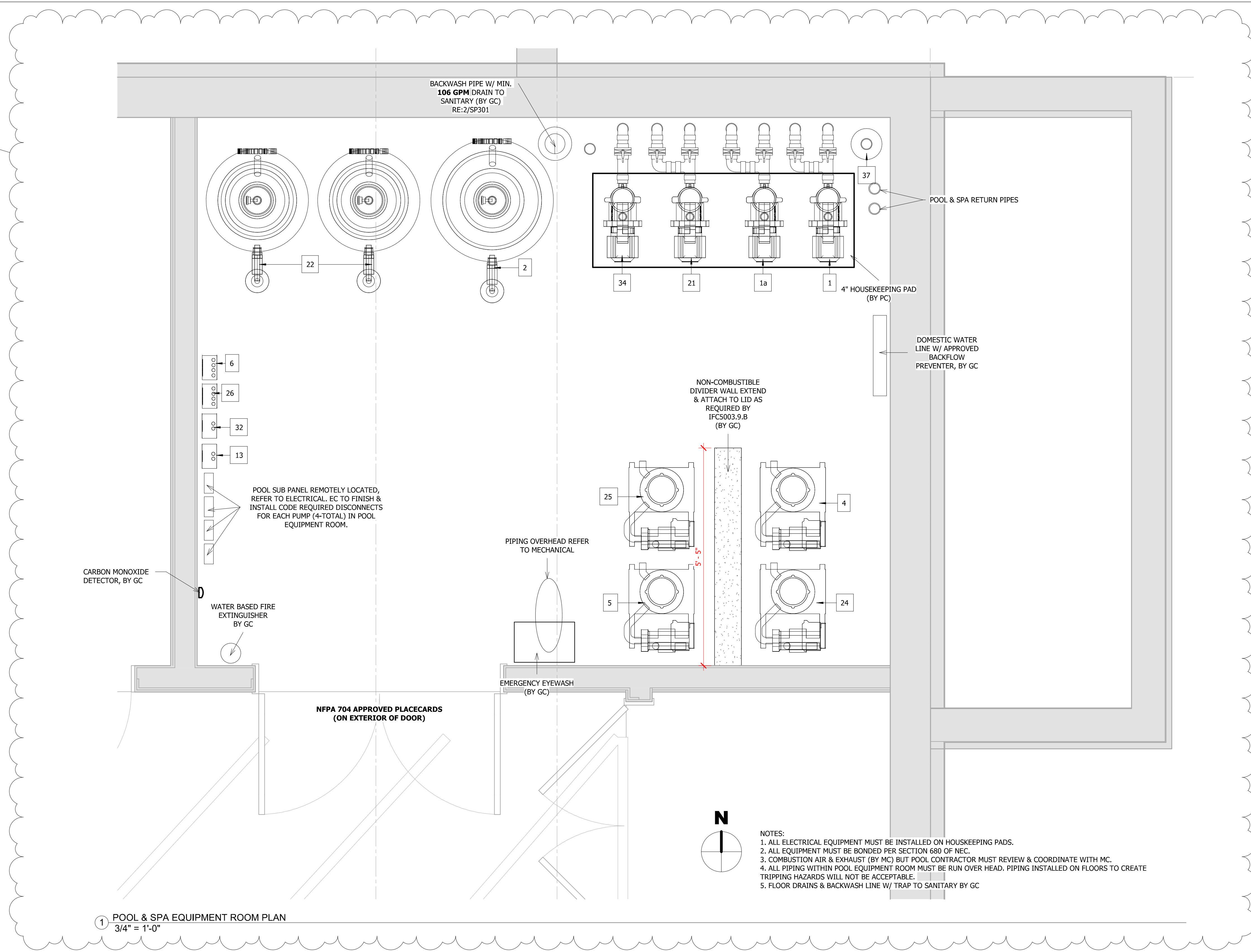
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SHEET #:

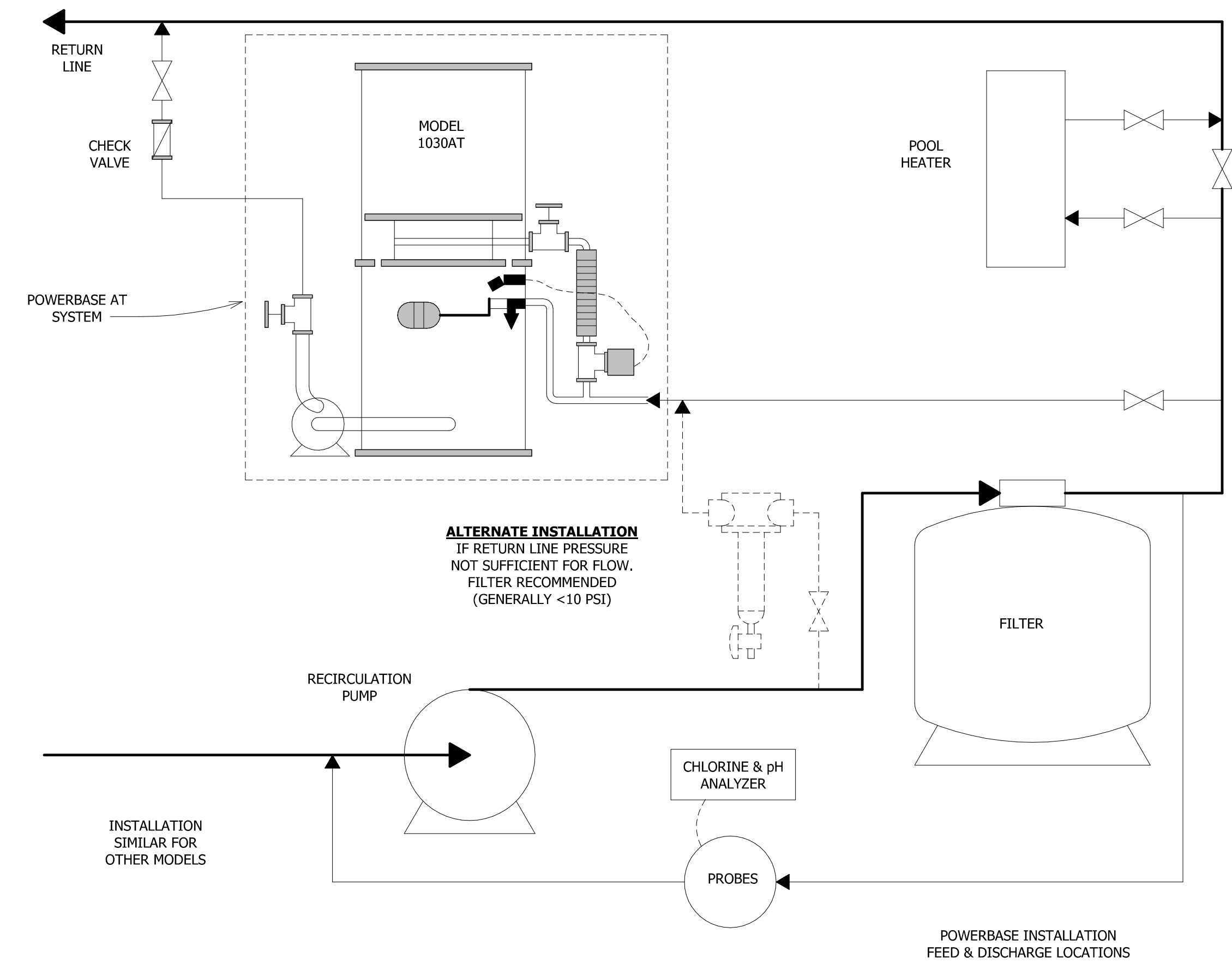
**SP103**



**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025



PLACECARD INFORMATION MAY DIFFER; REFER TO MSDS FROM PRODUCT MANUFACTURER  
 NFPA PLACECARD CALCIUM HYPOCHLORITE  
 2 NO SCALE



3 ACCUTAB INSTALLATION  
 NO SCALE

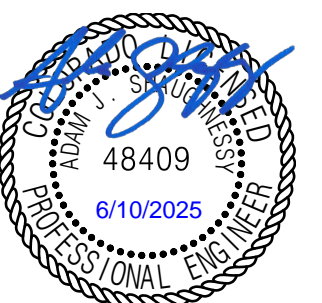
**AMBLE**

2305 Mt. Werner Circle  
 STEAMBOAT SPRINGS, CO 80487

NO.	DATE:	TITLE/PURPOSE:
	12/15/2023	PERMIT SET
	01/08/2025	ASH-007

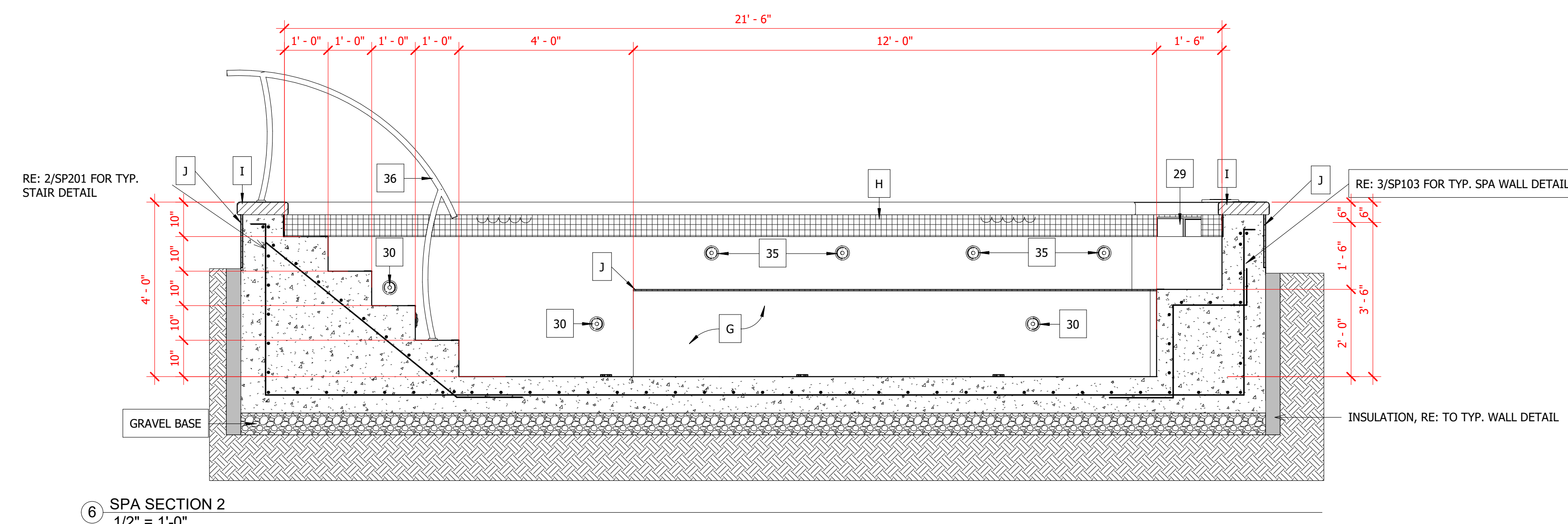
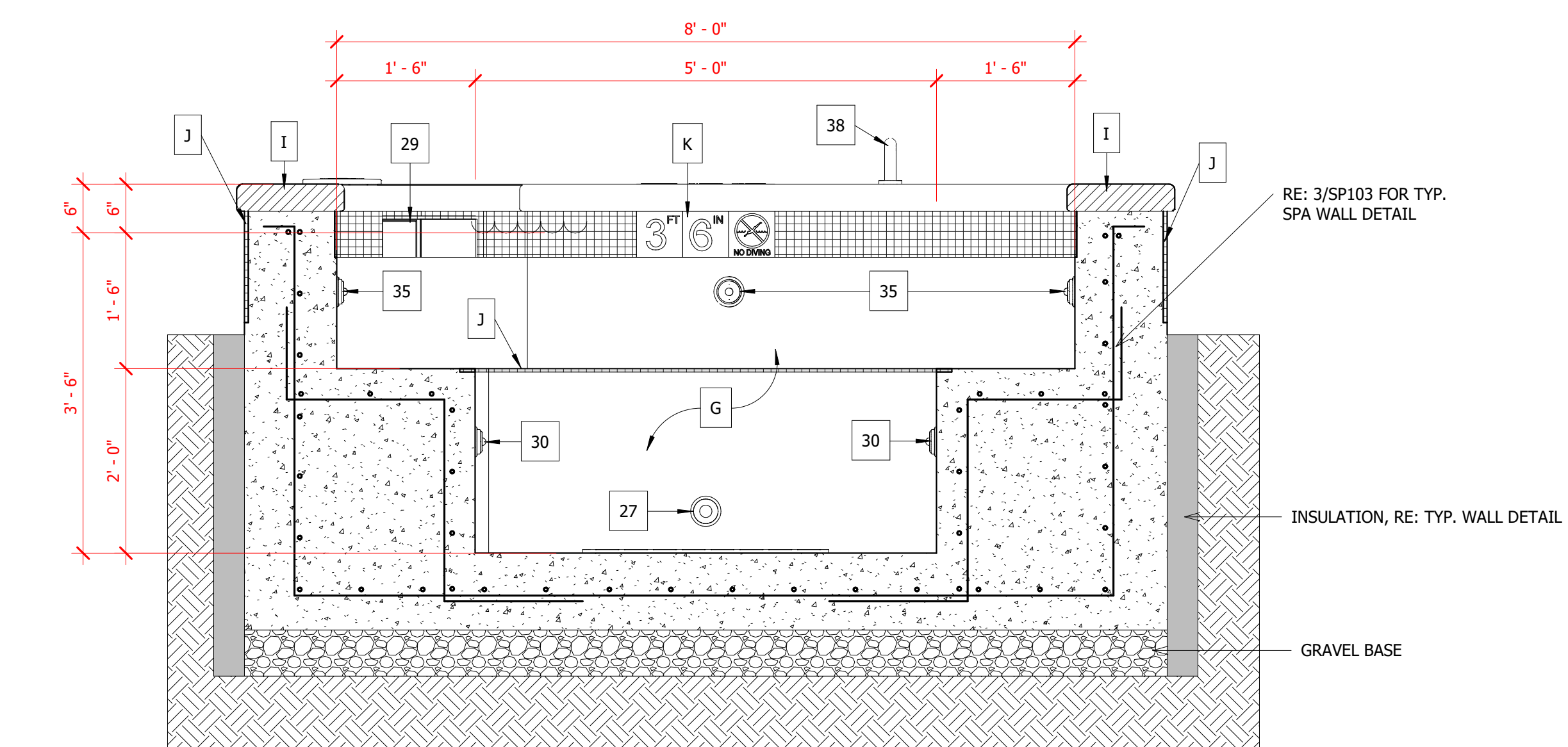
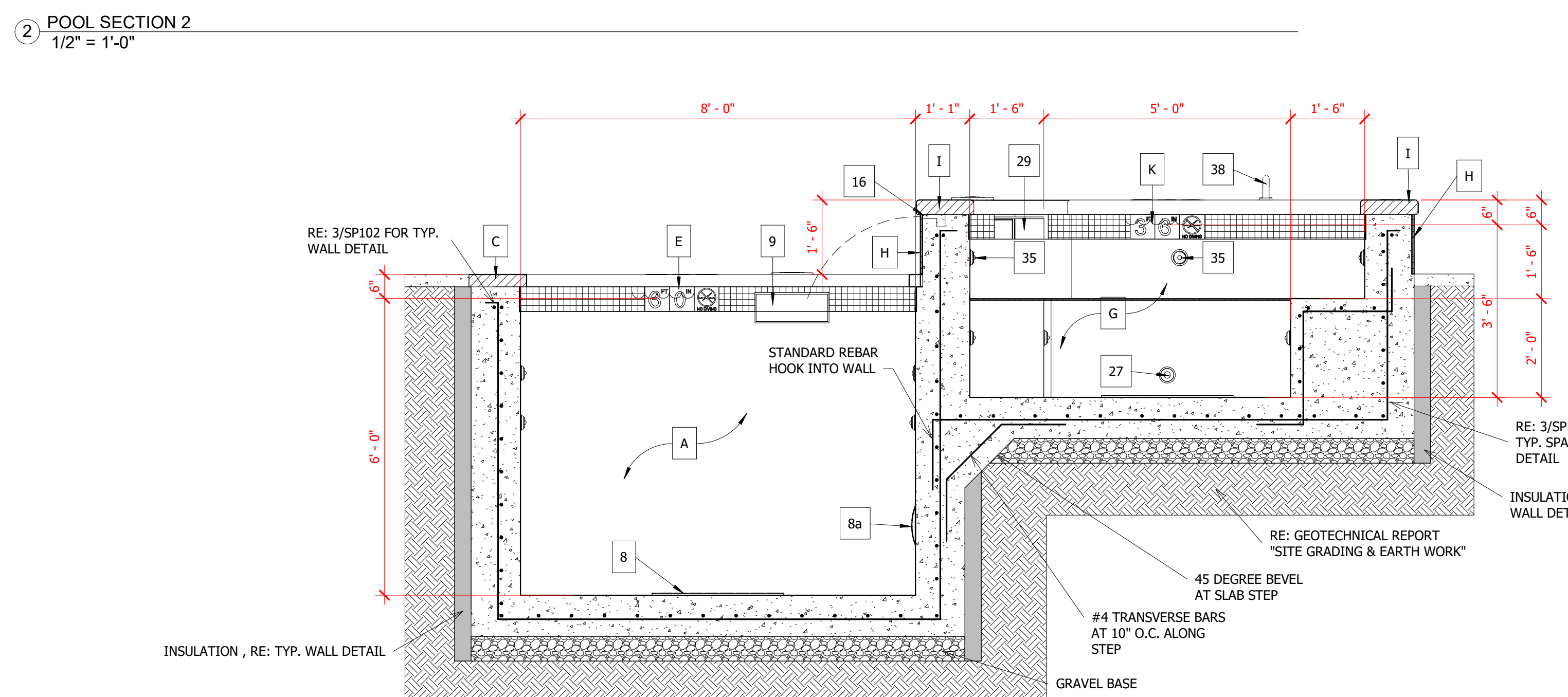
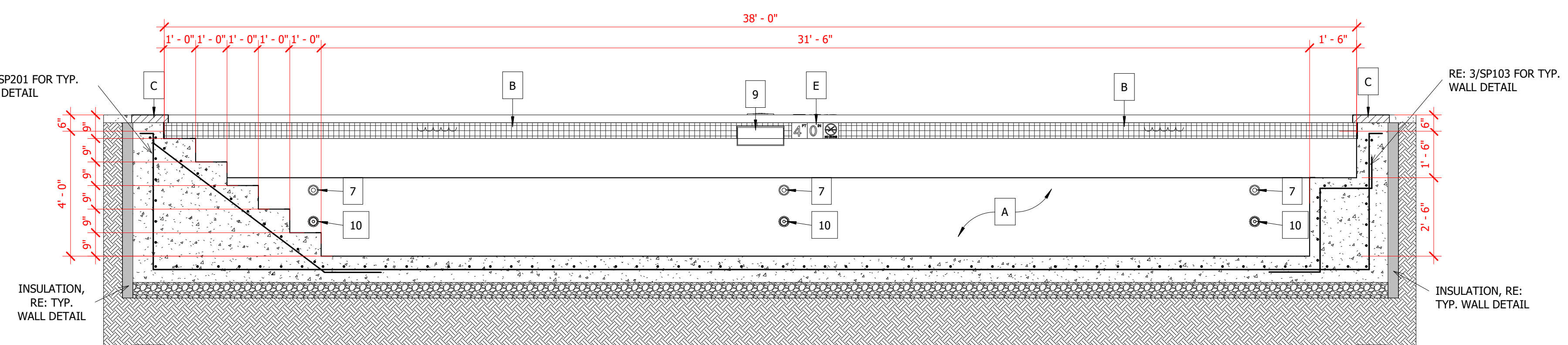
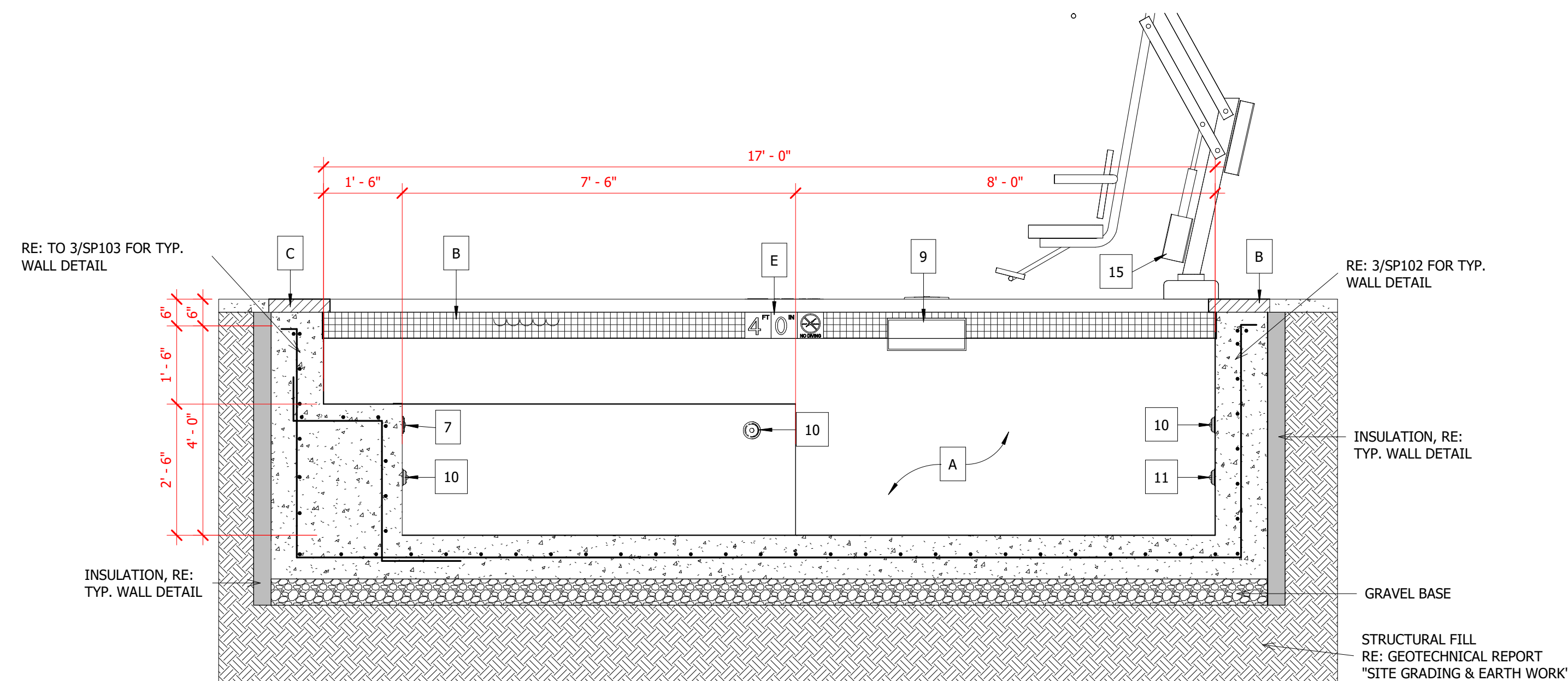
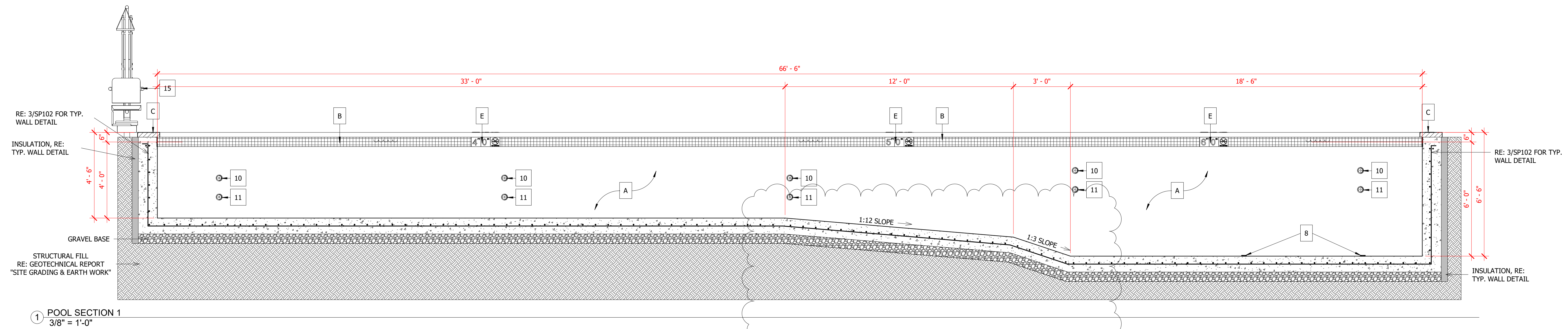
SCALE: **As indicated**  
 ISSUE DATE: **12/15/2023**  
 DRAWN BY: **CPD**  
 PROJECT #: **2023**  
 SHEET TITLE: **POOL & SPA EQUIPMENT ROOM PLAN**  
 SHEET #:

**SP104**



THESE DRAWINGS WERE NOT PRODUCED BY STRUCTURAL ENGINEERING SOLUTIONS, INC. BUT HAVE BEEN REVIEWED FOR STRUCTURAL ACCURACY. THE S.E. STAMP PROVIDED HEREIN APPLIES ONLY TO THE STRUCTURAL ITEMS ON THIS SHEET.

**REVIEWED FOR CODE COMPLIANCE**  
06/24/2025



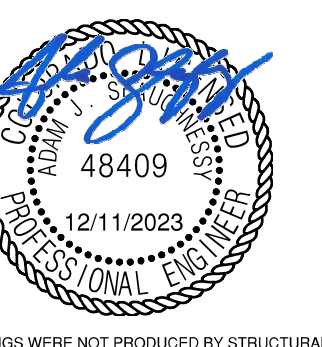
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2305 Mt. Werner Circle  
STEAMBOAT SPRINGS, CO 80487

NO.	DATE	TITLE/PURPOSE
1	12/15/2023	PERMIT SET
2	06/10/2025	POOL PERMIT REV CMT

SCALE: **As indicated**  
ISSUE DATE: **12/15/2023**  
DRAWN BY: **CPD**  
PROJECT #: **2023**  
SHEET TITLE: **POOL & SPA SECTIONS**  
SHEET #:

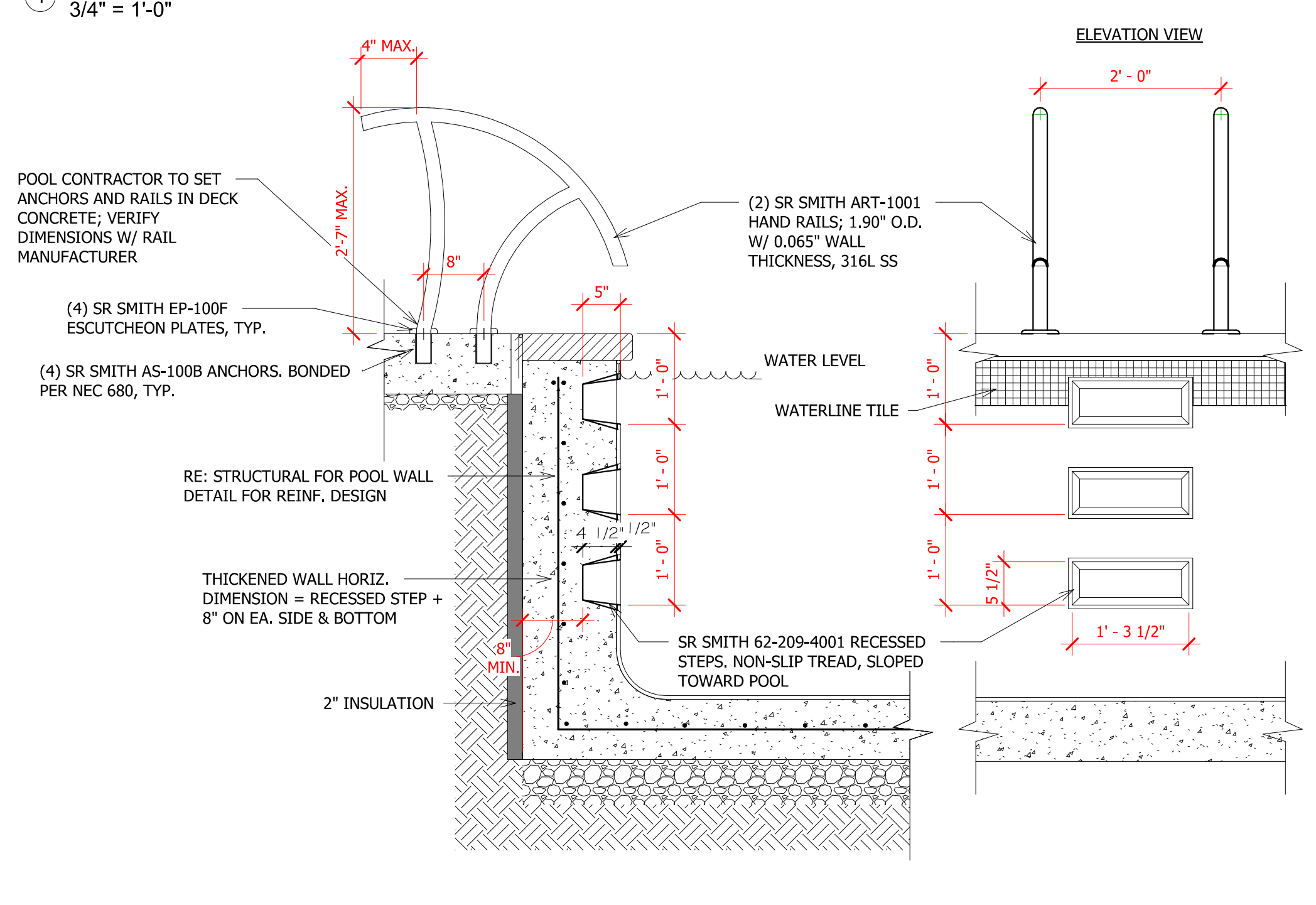
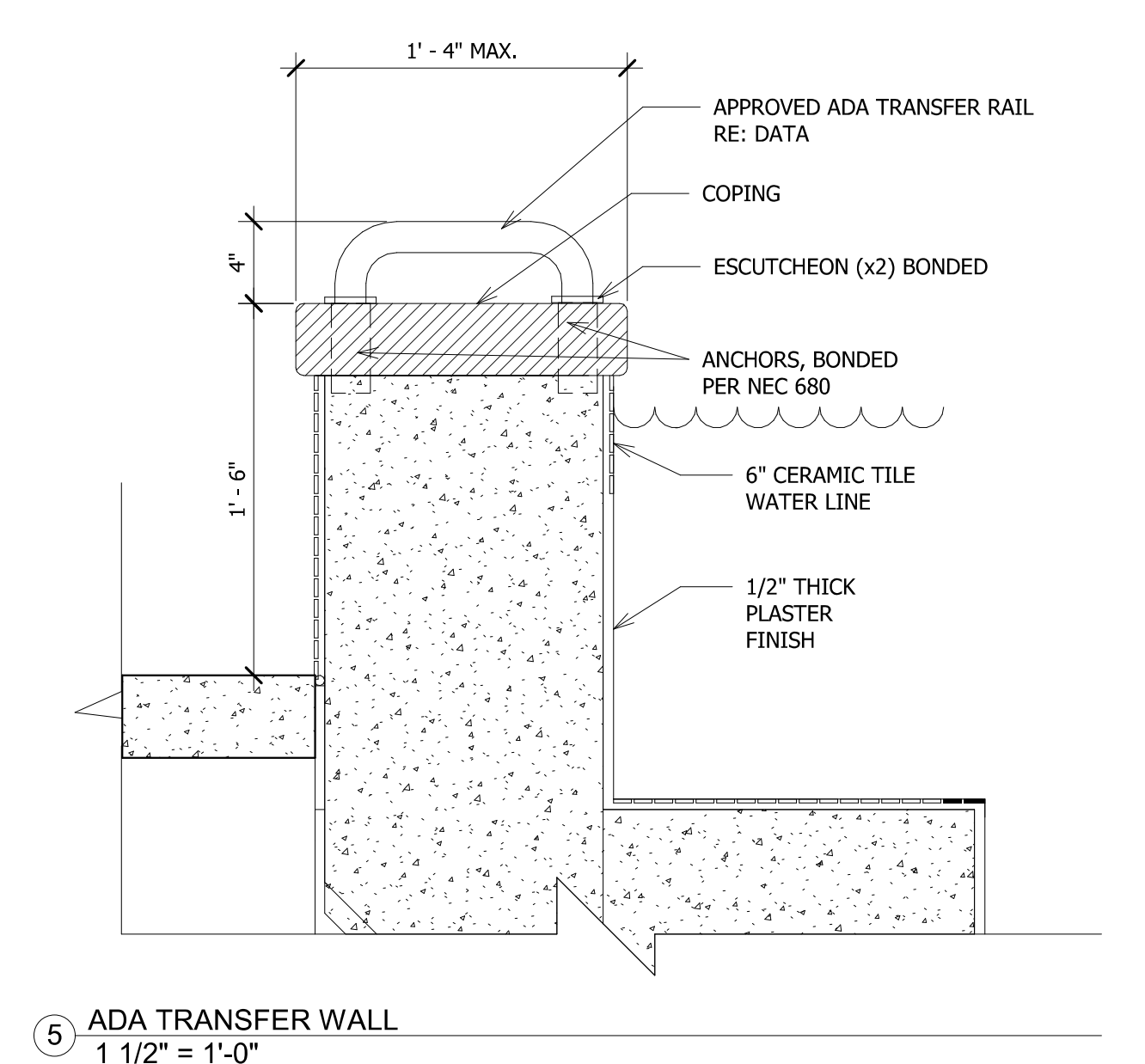
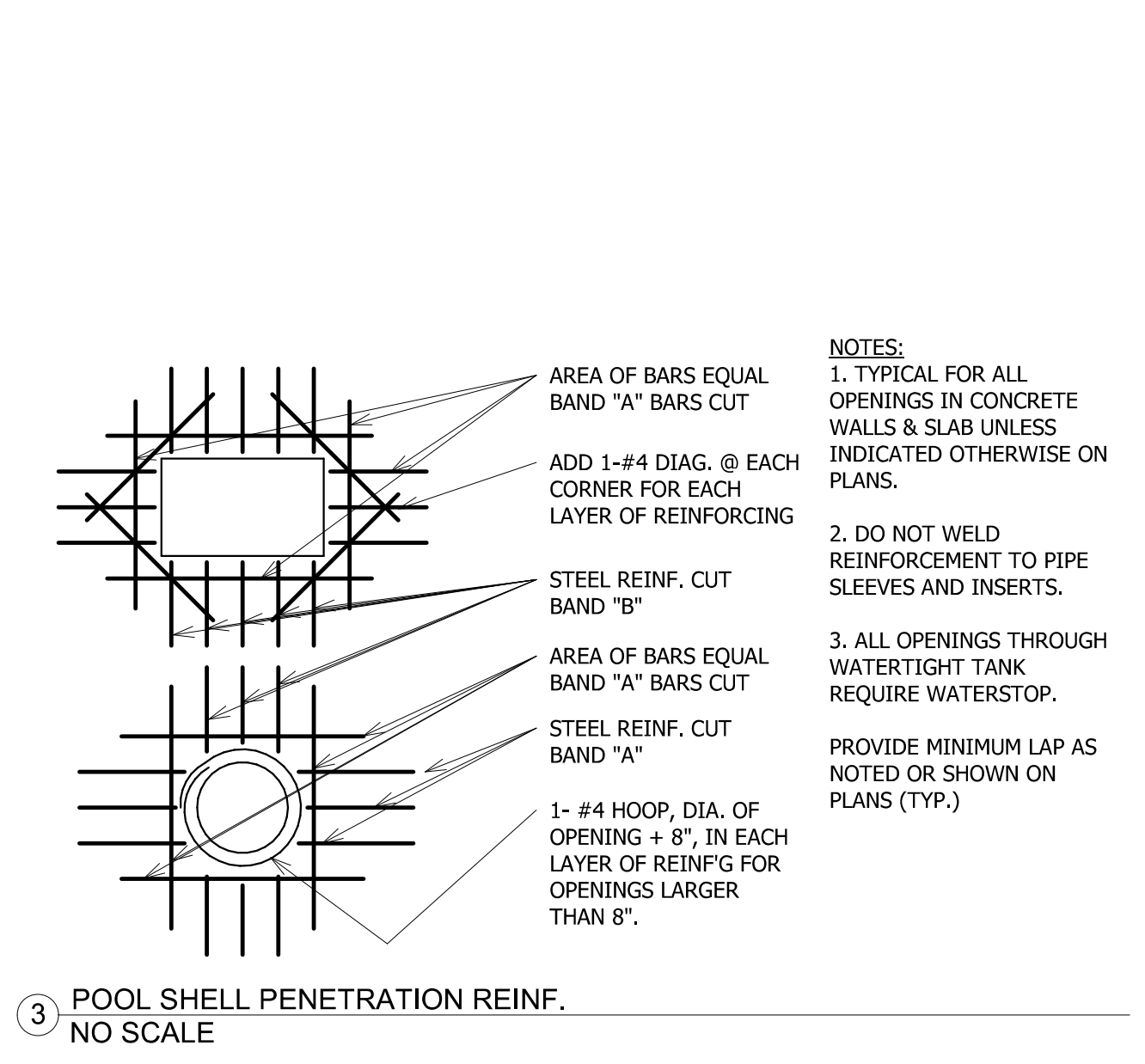
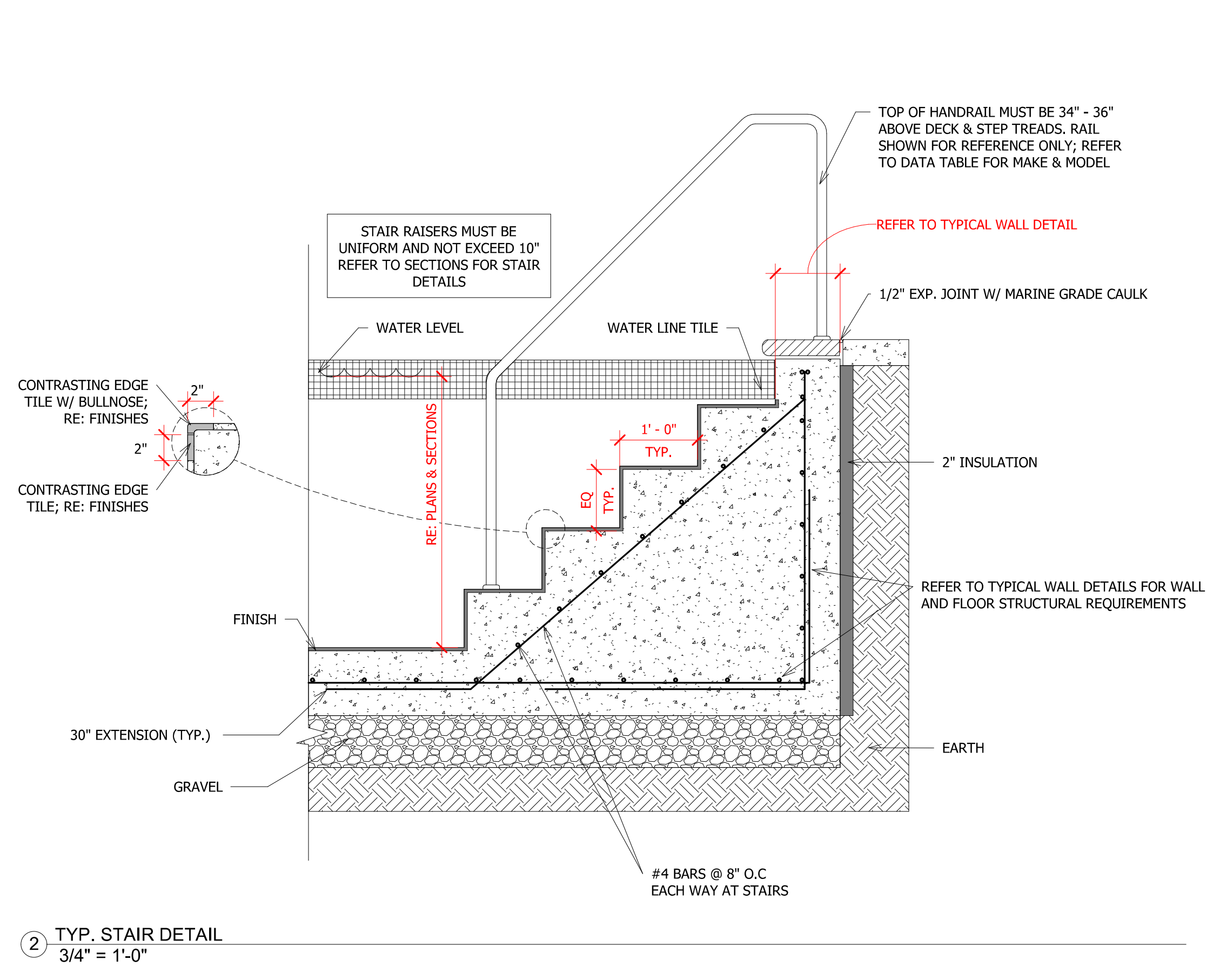
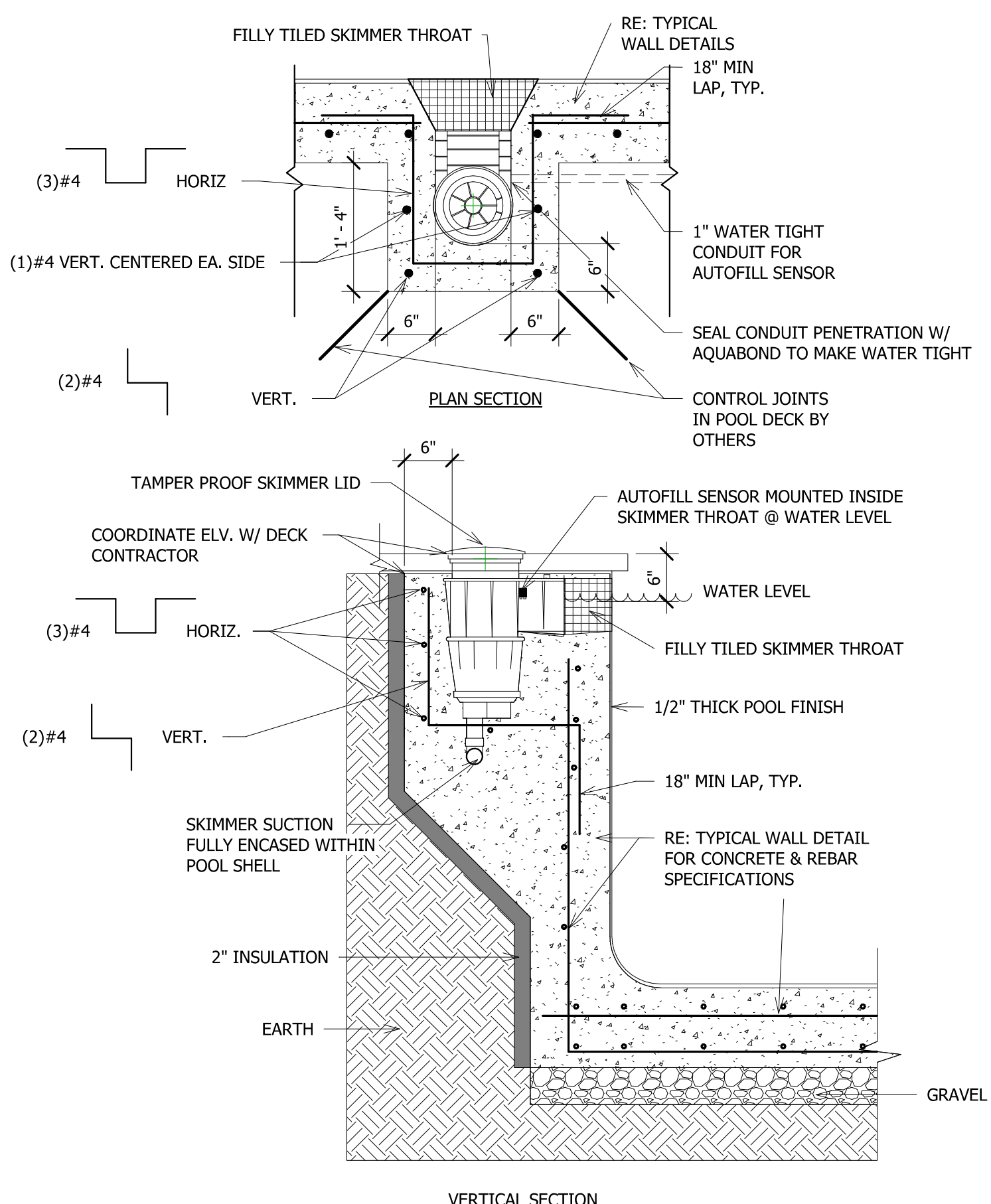
**SP200**



**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025

**AMBLE**

2305 Mt. Werner Circle  
 STEAMBOAT SPRINGS, CO 80487



**STRUCTURAL INSTALLATION NOTES:**  
 GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE.

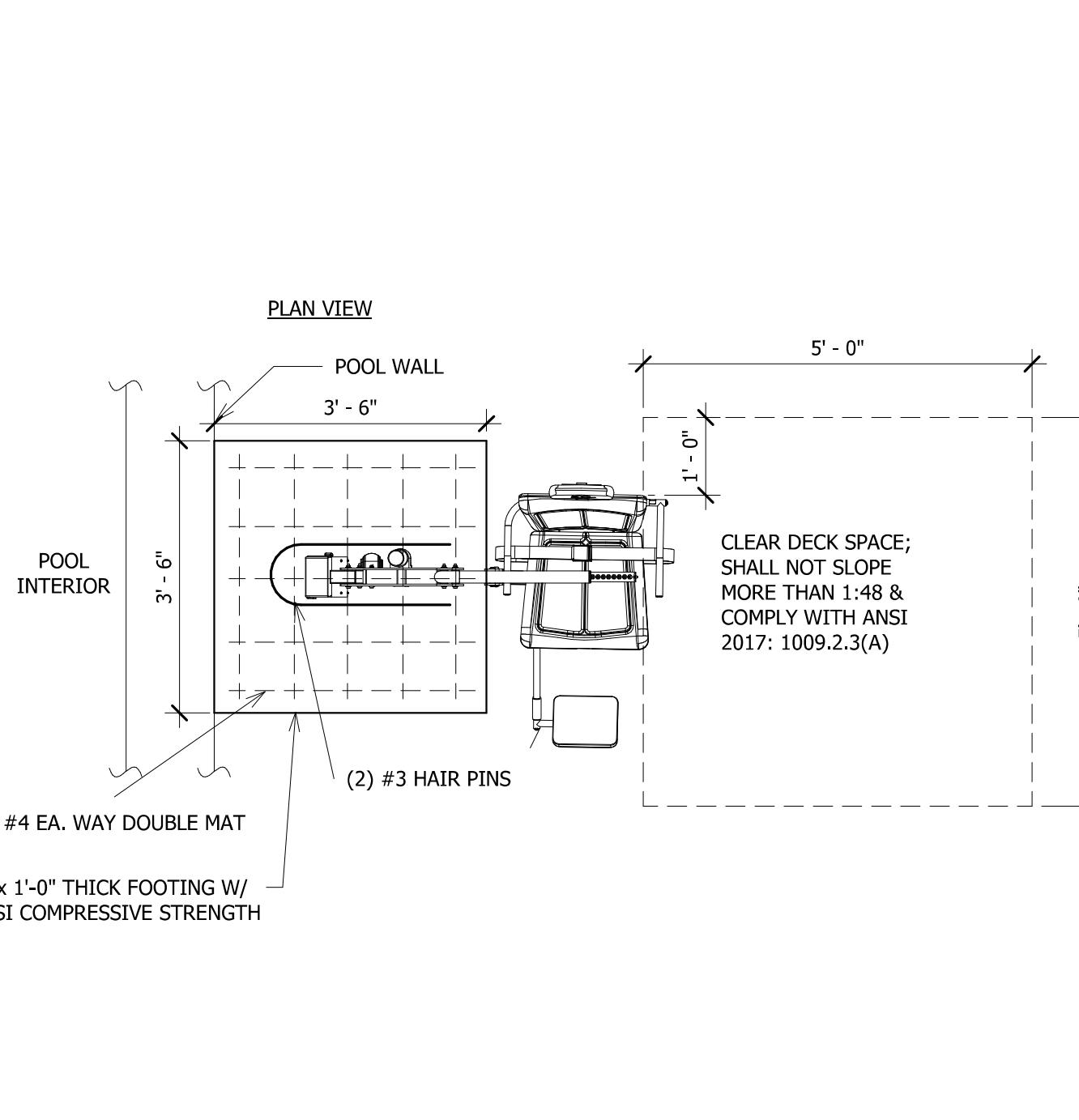
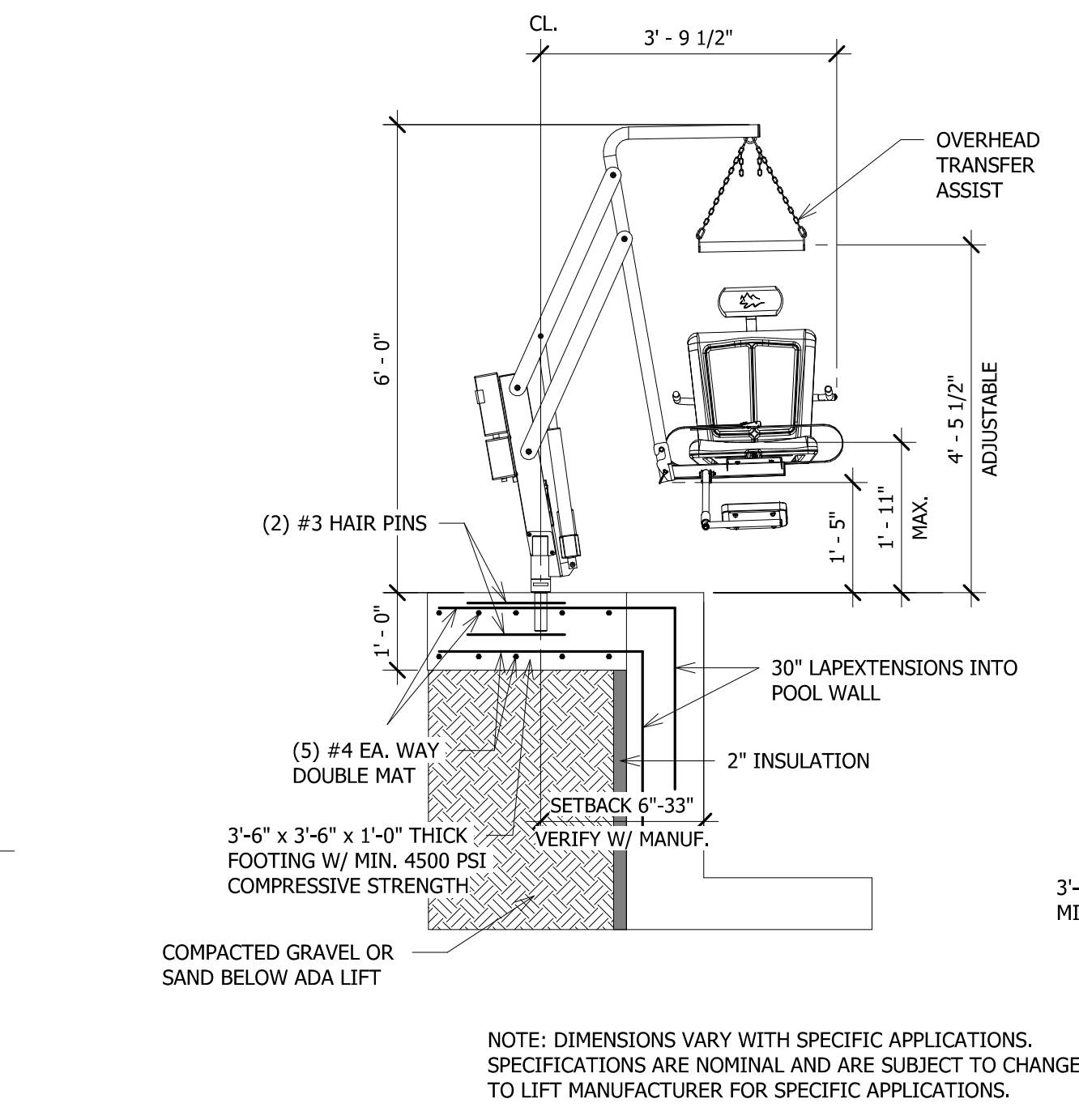
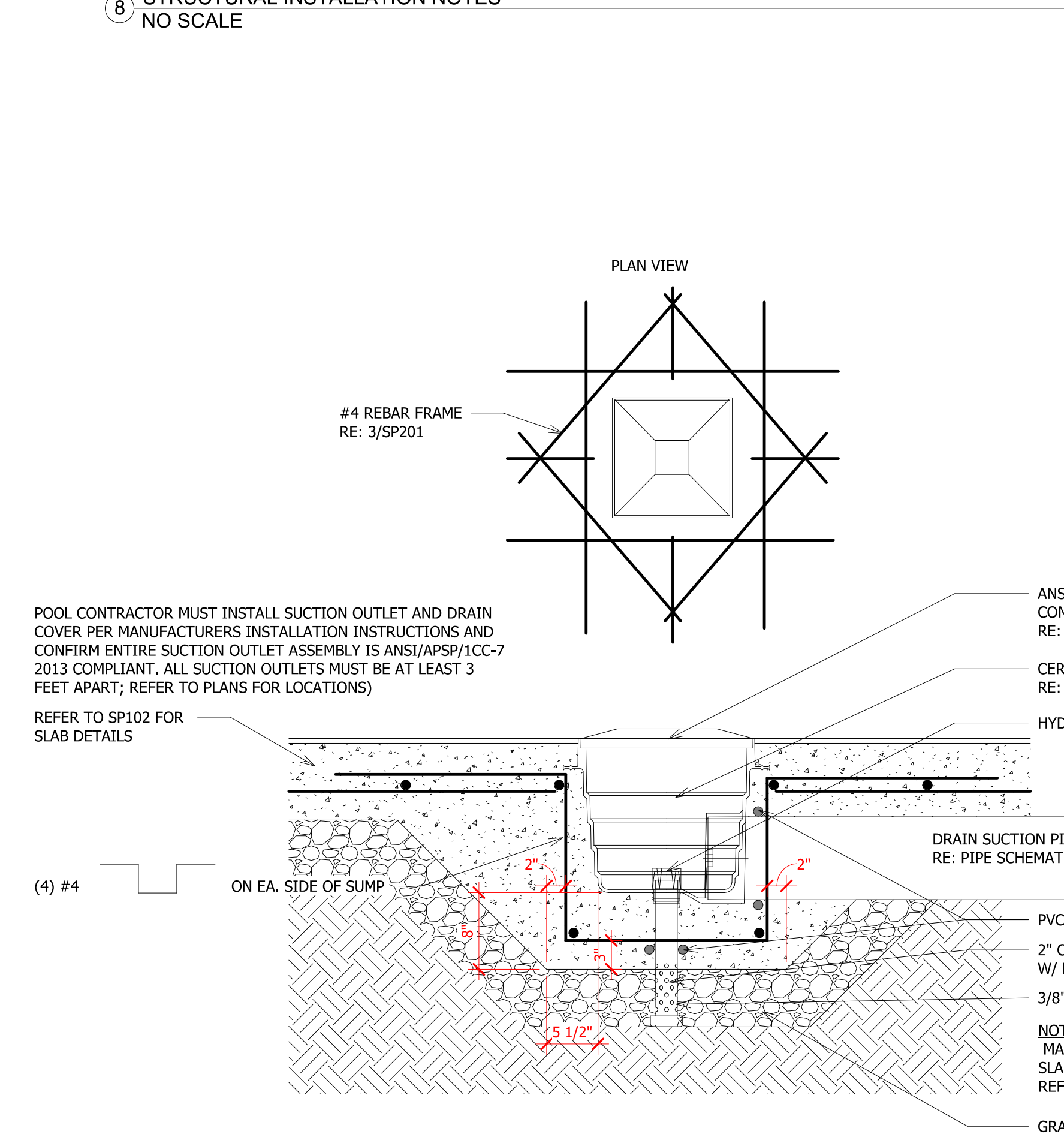
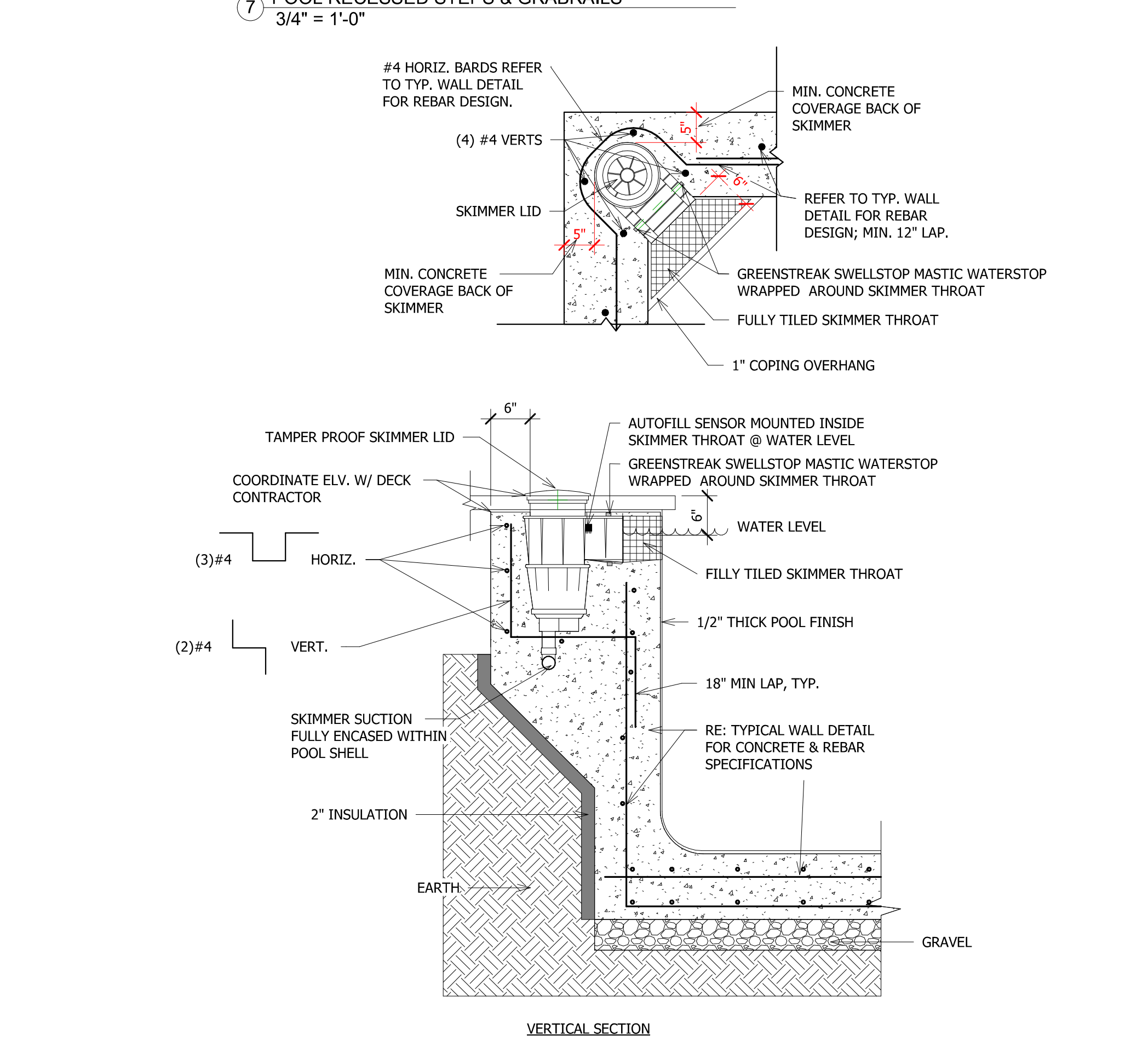
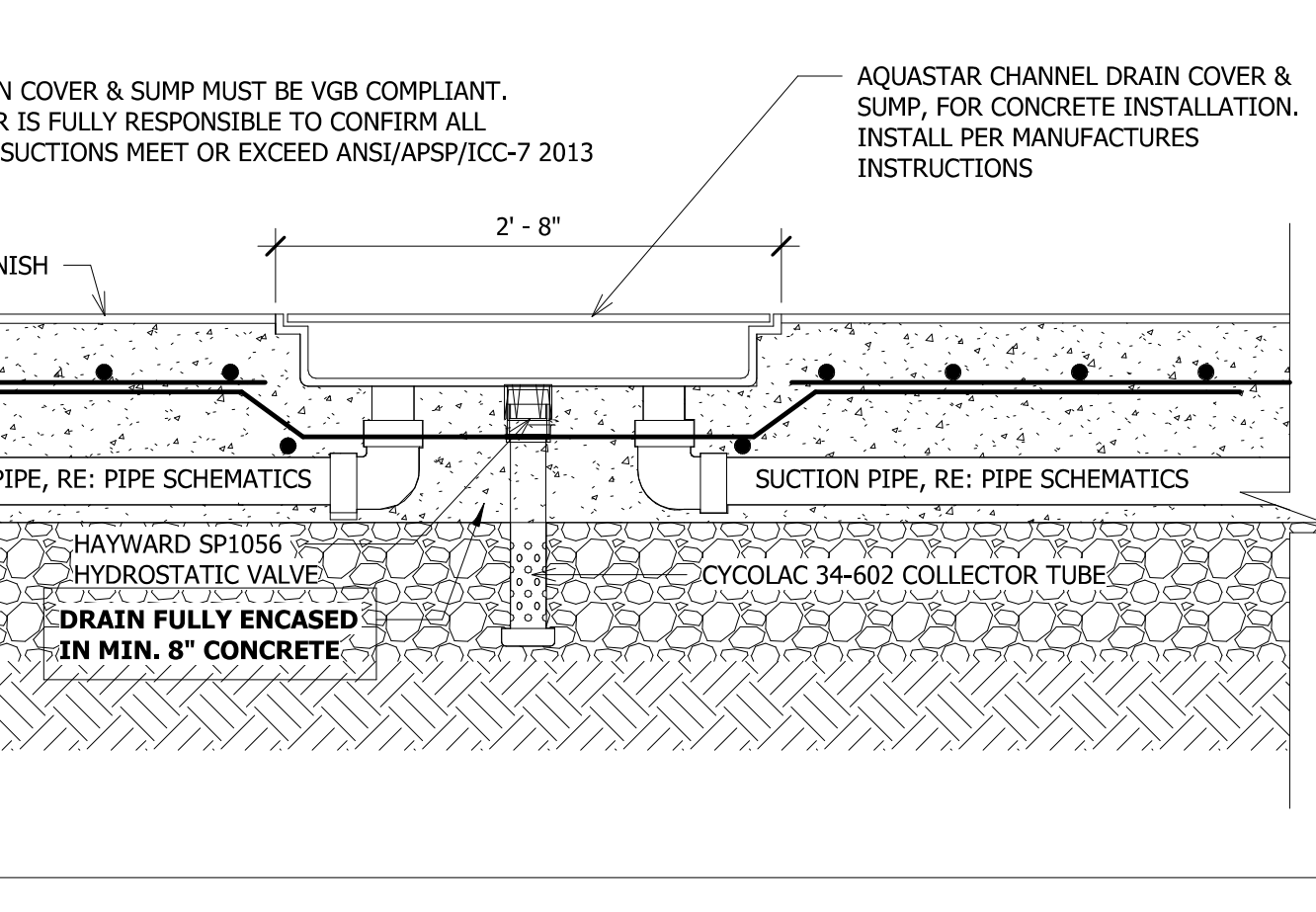
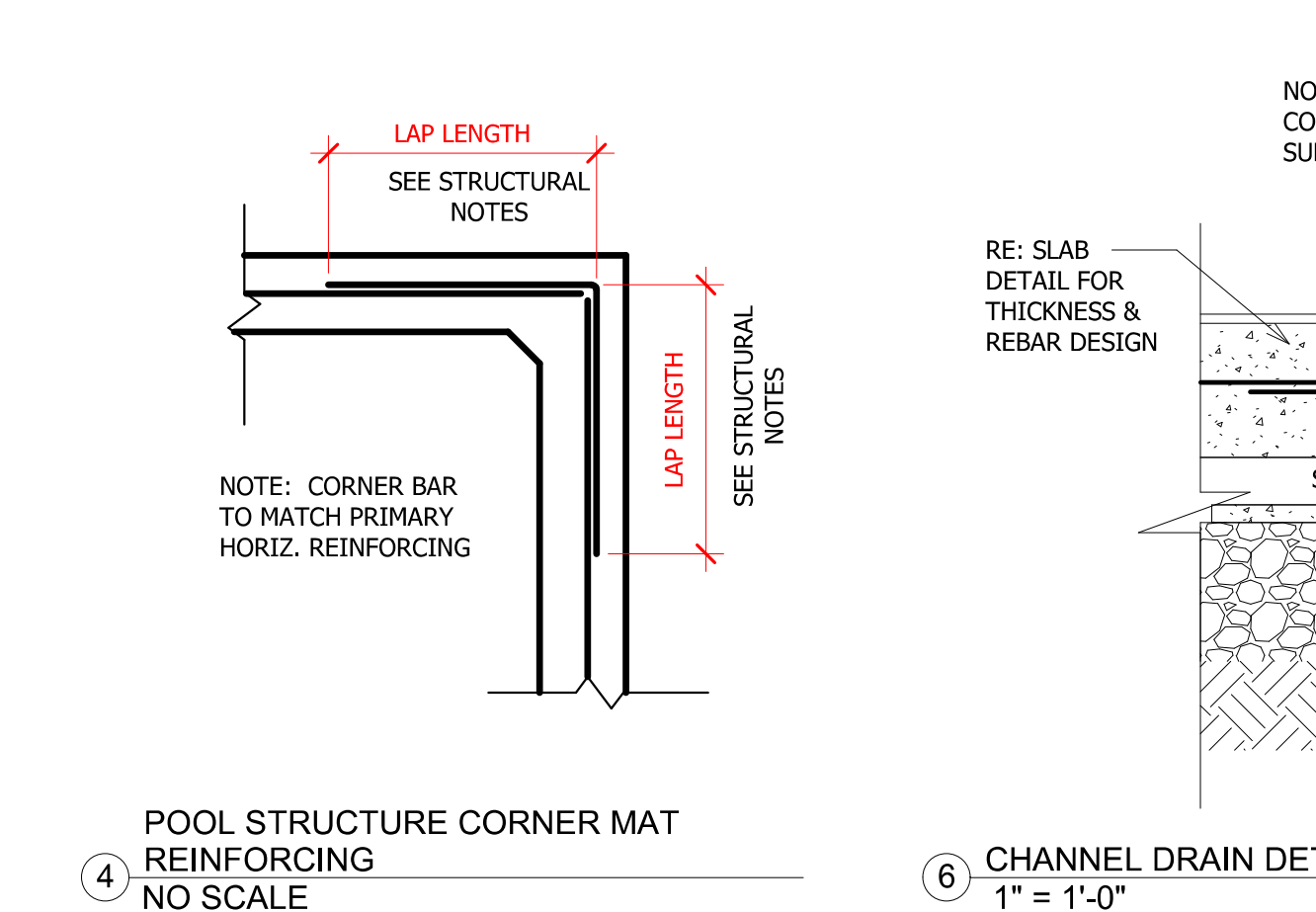
1. CONTRACTOR MUST VERIFY THE LOCATION OF ANY EXISTING BUILDING FOUNDATIONS AND UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR SPA CONSTRUCTION. ANY ADJACENT BUILDING FOOTINGS SHALL BE AT OR BELOW THE BOTTOM OF THE POOL SHELL AND AT A DISTANCE SPECIFIED BY THE BUILDING STRUCTURAL ENGINEER (ANY FOOTING WITHIN 3 FEET OF POOL SHELL MUST BE VERIFIED BY BUILDING STRUCTURAL ENGINEER).

**GEOTECHNICAL RECOMMENDATIONS:**  
 THE SPA HEREIN HAS BEEN DESIGNED IN ACCORDANCE WITH GUIDANCE PROVIDED BY THE PROJECT GEOTECHNICAL REPORT ISSUED BY:  
**NORTHWEST COLORADO CONSULTANTS, INC., PROJECT #21-12448, DATED DECEMBER 1, 2021**

DESIGN LATERAL SOIL PRESSURES: **60 PCF**  
 ALLOWABLE BEARING PRESSURE: **3500 PSF**  
 BACKFILL SPA SHELL WITH CLEAN, IMPORTED, GRANULAR SOIL SUCH AS SAND OR ROCK.  
 REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL RECOMMENDATIONS.

**CONCRETE AND REINFORCEMENT:**  
 USE TYPE II CEMENT  
 SHOTCRETE SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF ACI-301. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE **4,500 PSI**.  
 SHOTCRETE SHALL BE PLACED AGAINST FIRM, NATURAL, UNDISTURBED SOIL, COMPACTED ENGINEER FILL OR FORMS.  
 STEEL REINFORCING FOR THE SPA STRUCTURE SHALL BE ASTM GRADE 60 AND IN ACCORDANCE WITH THE ACI DETAILING MANUAL OF STANDARD PRACTICE. UNLESS SPECIFICALLY NOTED OTHERWISE, STEEL REINFORCEMENT SHALL BE INSTALLED PER CHAPTER 25 AND SECTION 26.6 OF ACI 318-14.  
 SPLICE LENGTH, DOWEL PROTECTION OR EMBEDMENT SHALL BE AS SPECIFIED IN 7/SP100  
 MAINTAIN CONTINUITY OF ALL HORIZONTAL REINFORCEMENT AT CORNERS, INTERSECTIONS AND AT STEPS AND BENCHES.  
 MINIMUM CONCRETE COVERAGE FOR REBAR:  
 - 1 1/2" NOT EXPOSED TO WEATHER IN CONTACT WITH THE GROUND.  
 - 2" CONCRETE EXPOSED TO EARTH OR WEATHER.  
 - 3" CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.

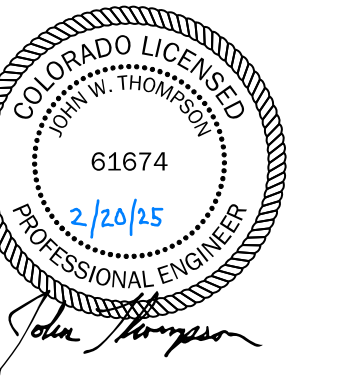
**GENERAL NOTES:**  
 SPA SHALL BE PLACED OVER A MIN. 6" OF FREE DRAINING GRAVEL.  
 REFER TO 7/SP100 FOR ADDITIONAL DETAILS & REQUIREMENTS.



NO.	TITLE/PURPOSE:
DATE:	PERMIT SET
12/15/2023	

SCALE: **As indicated**  
 ISSUE DATE: **12/15/2023**  
 DRAWN BY: **CPD**  
 PROJECT #: **2023**  
 SHEET TITLE: **CONSTRUCTION DETAILS**  
 SHEET #:

**SP201**



**REVIEWED FOR CODE COMPLIANCE**  
06/24/2025

**AMBLE**

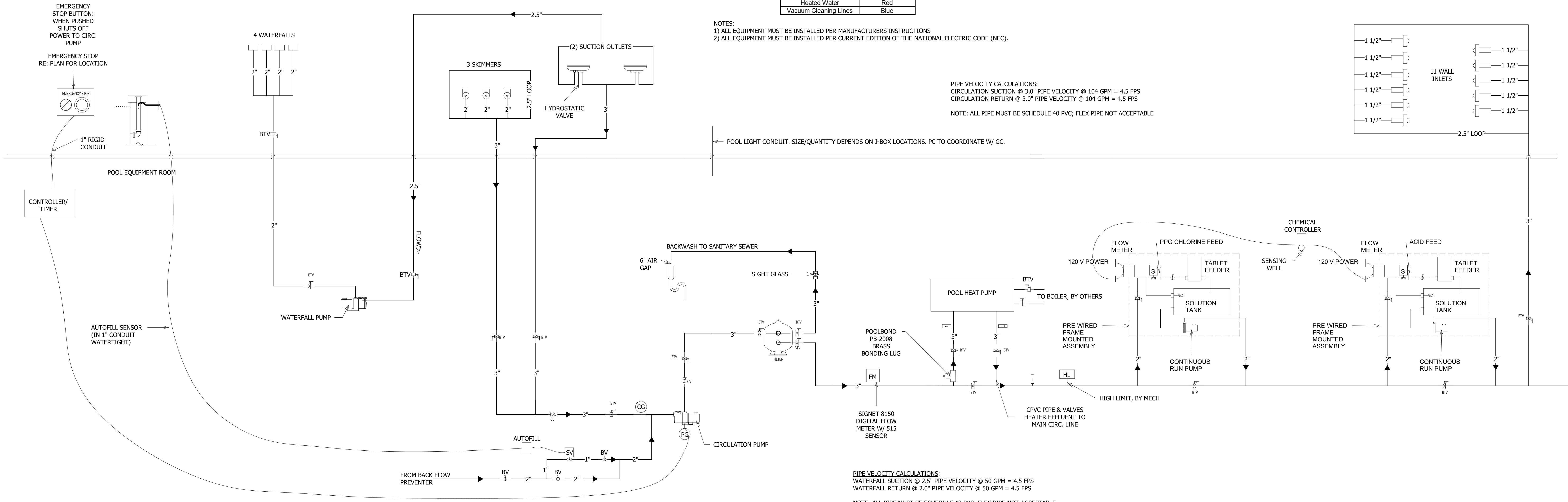
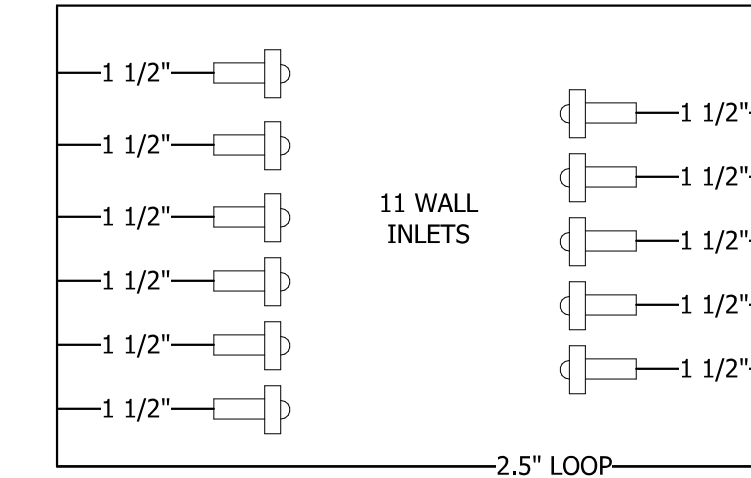
2305 Mt. Werner Circle  
STEAMBOAT SPRINGS, CO 80487

**POOL PIPING COLOR CODING**

Raw Water	Yellow
Filtered Water	Green
Wastewater	Black
Heated Water	Red
Vacuum Cleaning Lines	Blue

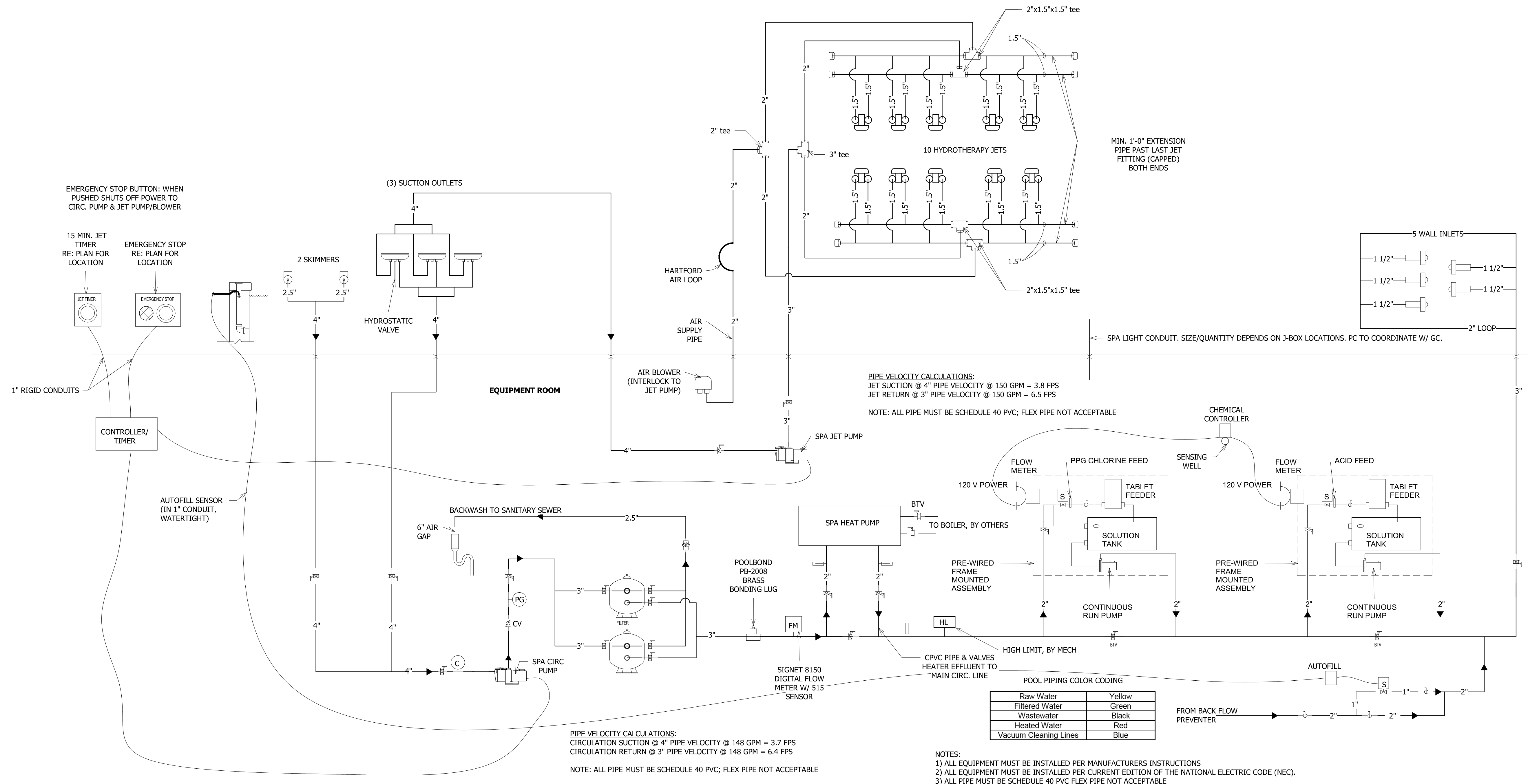
- NOTES:  
1) ALL EQUIPMENT MUST BE INSTALLED PER MANUFACTURERS INSTRUCTIONS  
2) ALL EQUIPMENT MUST BE INSTALLED PER CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC).

**PIPE VELOCITY CALCULATIONS:**  
CIRCULATION SUCTION @ 3.0" PIPE VELOCITY @ 104 GPM = 4.5 FPS  
CIRCULATION RETURN @ 3.0" PIPE VELOCITY @ 104 GPM = 4.5 FPS  
NOTE: ALL PIPE MUST BE SCHEDULE 40 PVC; FLEX PIPE NOT ACCEPTABLE

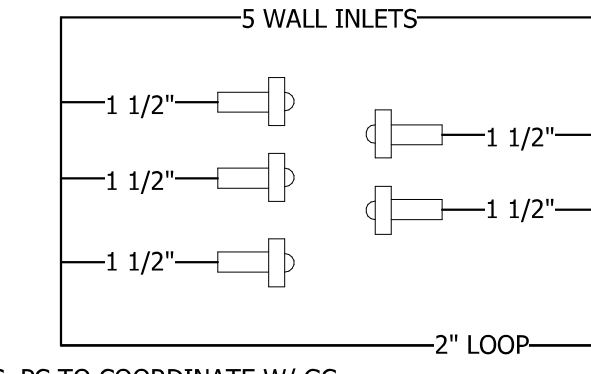


1 POOL PIPING SCHEMATIC  
NO SCALE

**PIPE VELOCITY CALCULATIONS:**  
WATERFALL SUCTION @ 2.5" PIPE VELOCITY @ 50 GPM = 4.5 FPS  
WATERFALL RETURN @ 2.0" PIPE VELOCITY @ 50 GPM = 4.5 FPS  
NOTE: ALL PIPE MUST BE SCHEDULE 40 PVC; FLEX PIPE NOT ACCEPTABLE



**PIPE VELOCITY CALCULATIONS:**  
JET SUCTION @ 4" PIPE VELOCITY @ 150 GPM = 3.8 FPS  
JET RETURN @ 3" PIPE VELOCITY @ 150 GPM = 6.3 FPS  
NOTE: ALL PIPE MUST BE SCHEDULE 40 PVC; FLEX PIPE NOT ACCEPTABLE



**POOL PIPING COLOR CODING**

Raw Water	Yellow
Filtered Water	Green
Wastewater	Black
Heated Water	Red
Vacuum Cleaning Lines	Blue

- NOTES:  
1) ALL EQUIPMENT MUST BE INSTALLED PER MANUFACTURERS INSTRUCTIONS  
2) ALL EQUIPMENT MUST BE INSTALLED PER CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC).  
3) ALL PIPE MUST BE SCHEDULE 40 PVC FLEX PIPE NOT ACCEPTABLE

2 SPA PIPING SCHEMATIC  
NO SCALE

NO. DATE: TITLE/PURPOSE:

12/15/2023	PERMIT SET
01/08/2025	ASH-007

SCALE: NO SCALE

ISSUE DATE: 12/15/2023

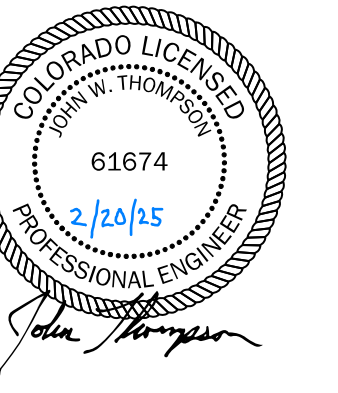
DRAWN BY: CPD

PROJECT #: 2023

SHEET TITLE: POOL & SPA PIPE SCHEMATICS

SHEET #:

**SP300**



**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025

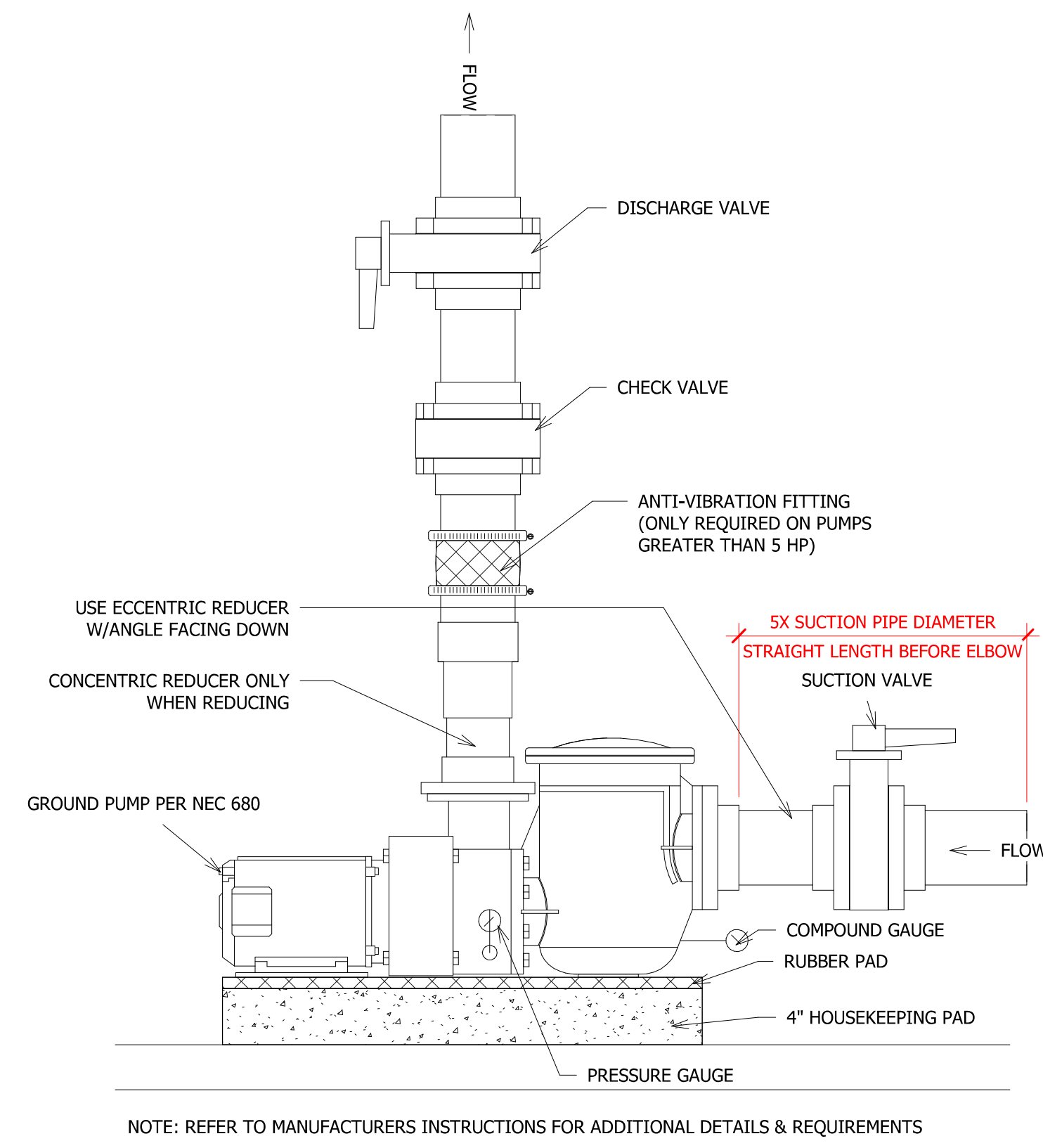
**AMBLE**

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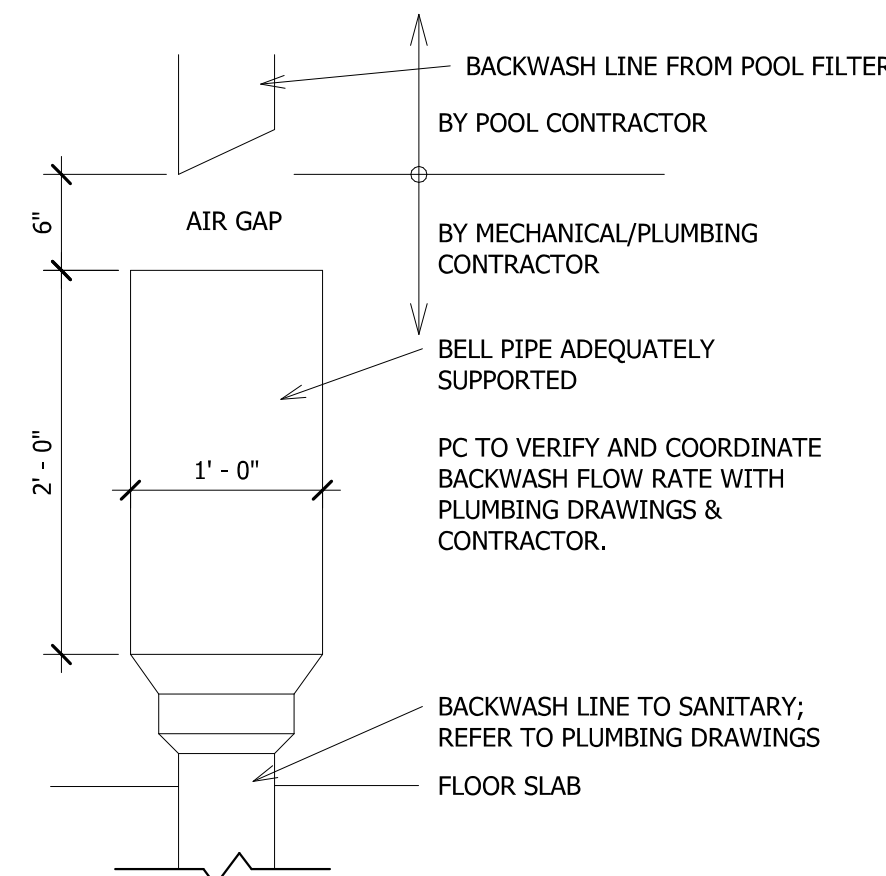
NO. DATE: 12/15/2023  
 TITLE/PURPOSE: PERMIT SET

SCALE: **As indicated**  
 ISSUE DATE: **12/15/2023**  
 DRAWN BY: **CPD**  
 PROJECT #: **2023**  
 SHEET TITLE: **POOL & SPA PIPING DETAILS**  
 SHEET #:

**SP301**



1 POOL PUMP INSTALLATION  
 NO SCALE

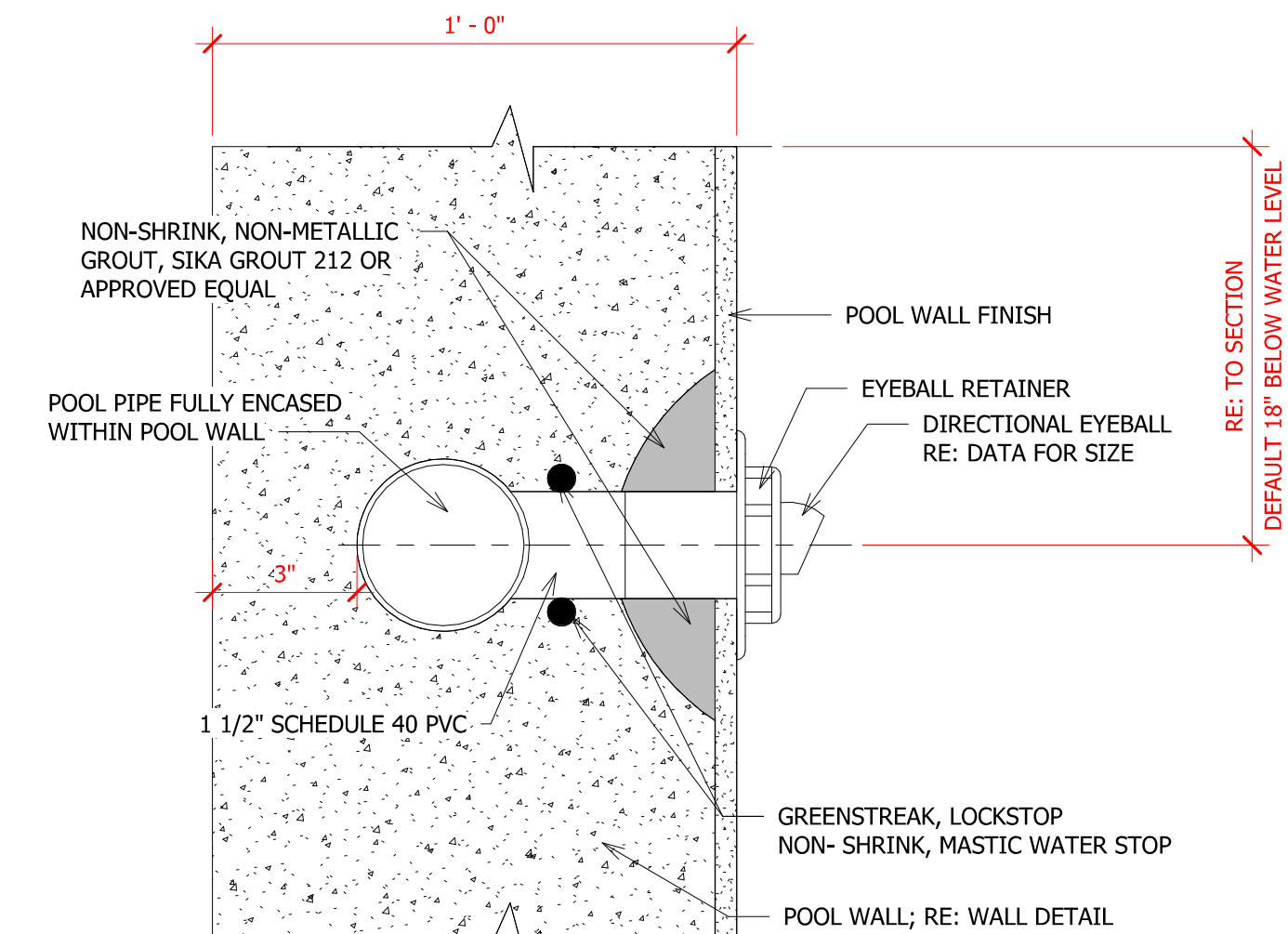


2 POOL BACKWASH AIR GAP DETAIL  
 NO SCALE

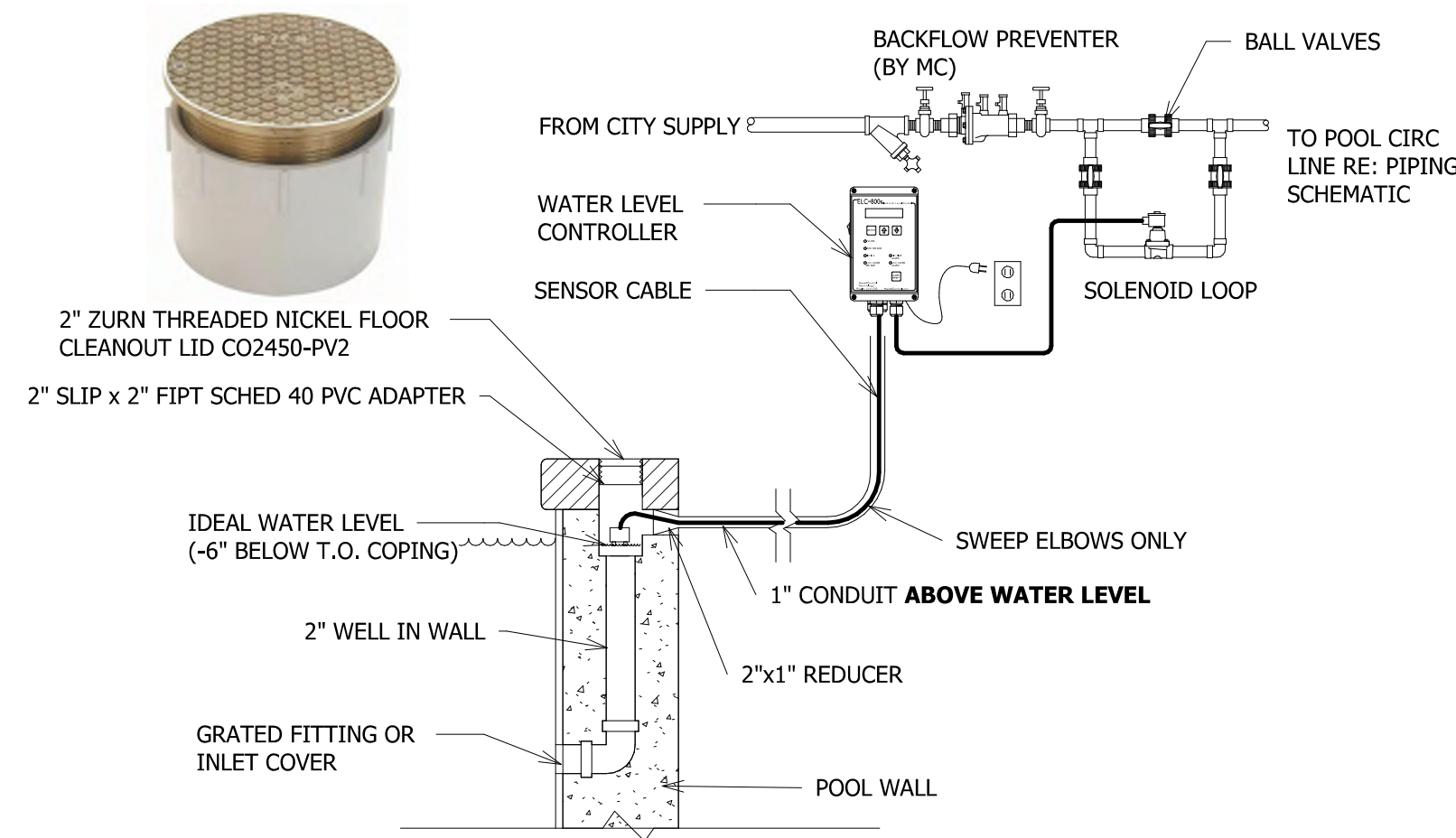
MINIMUM REQUIRED SUPPORT SPACING (IN FEET)

PIPE SIZE (in)	PVC PIPE				
	SCHEDULE 40 TEMP. DEG. F		SCHEDULE 80 TEMP. DEG. F		
1/2	60	80	100	120	140
3/4	4 1/2	4 1/2	4	2 1/2	2 1/2
1	5 1/2	5	4 1/2	3	2 1/2
1 1/4	5 1/2	5 1/2	5	3	3
1 1/2	6	5 1/2	5	3 1/2	3
2	6	5 1/2	5	3 1/2	7
2 1/2	7	6 1/2	6	4	3 1/2
3	7	7	6	4	3 1/2
4	7 1/2	7	6 1/2	4 1/2	4

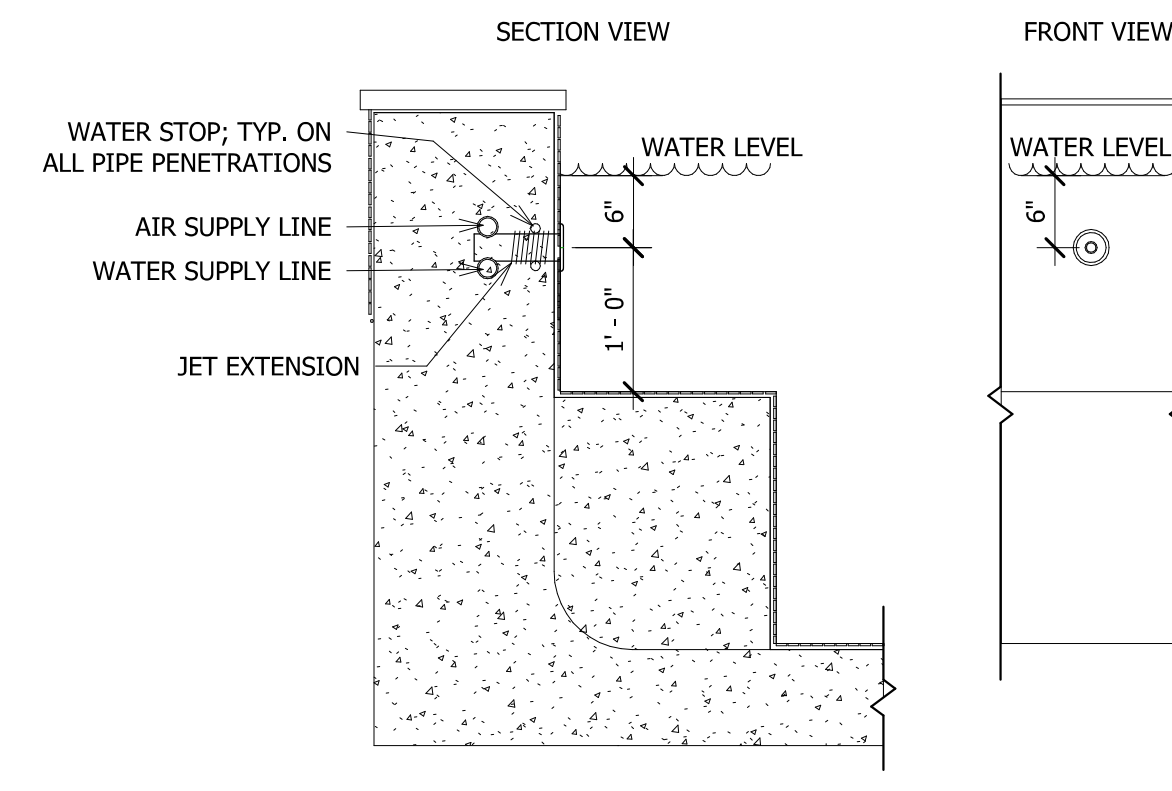
3 POOL PIPE SUPPORT CHART  
 NO SCALE



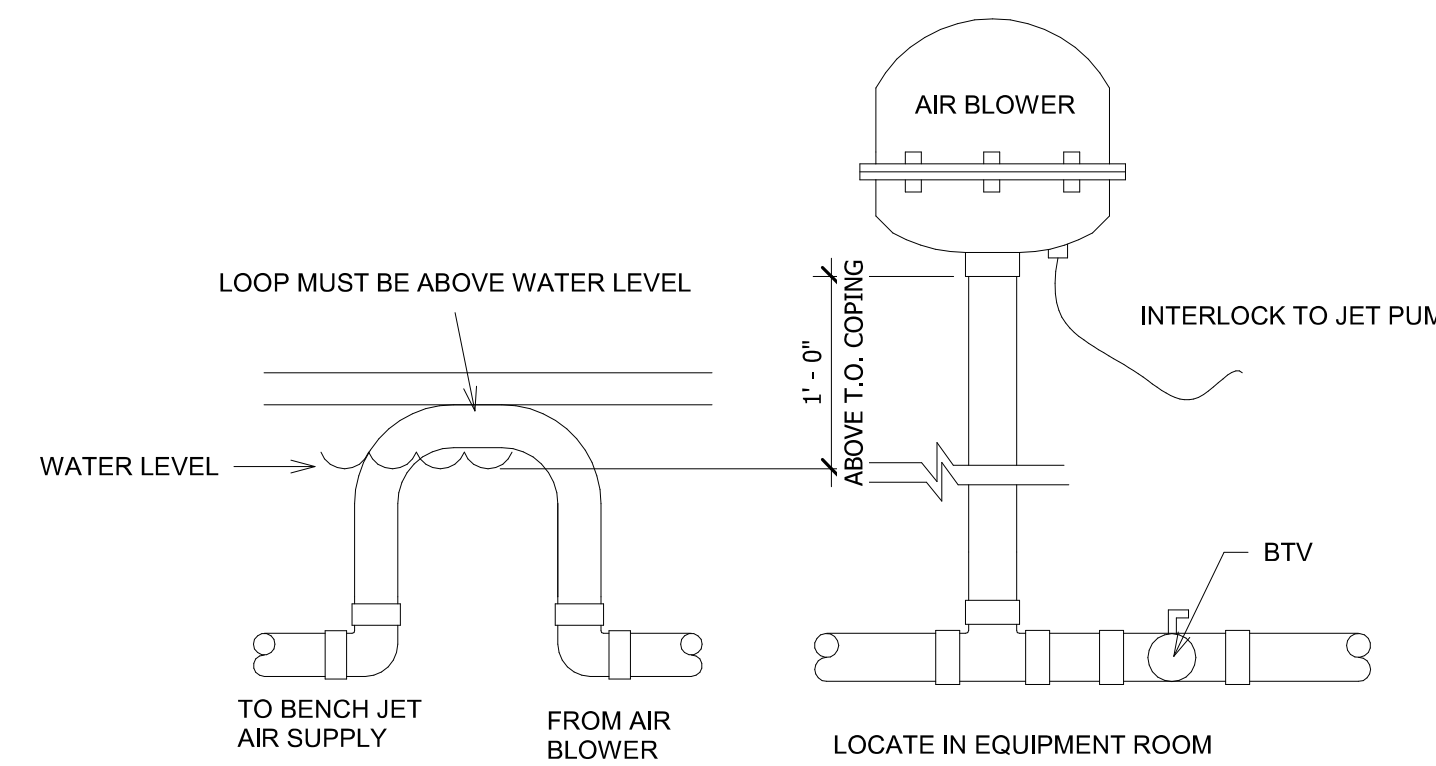
4 POOL WALL INLET  
 3\"/>



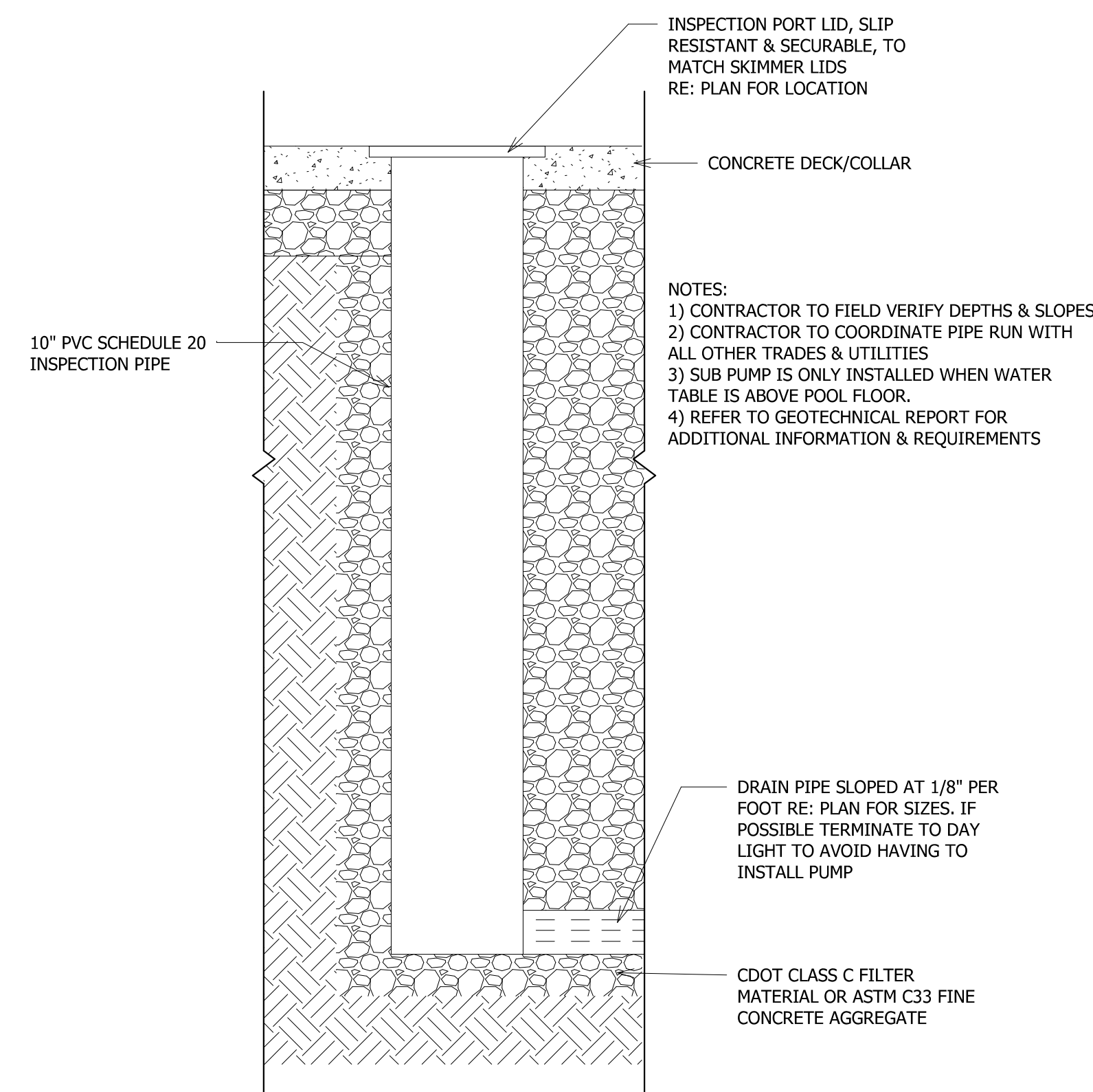
5 POOL WATER LEVEL CONTROLLER  
 1\"/>



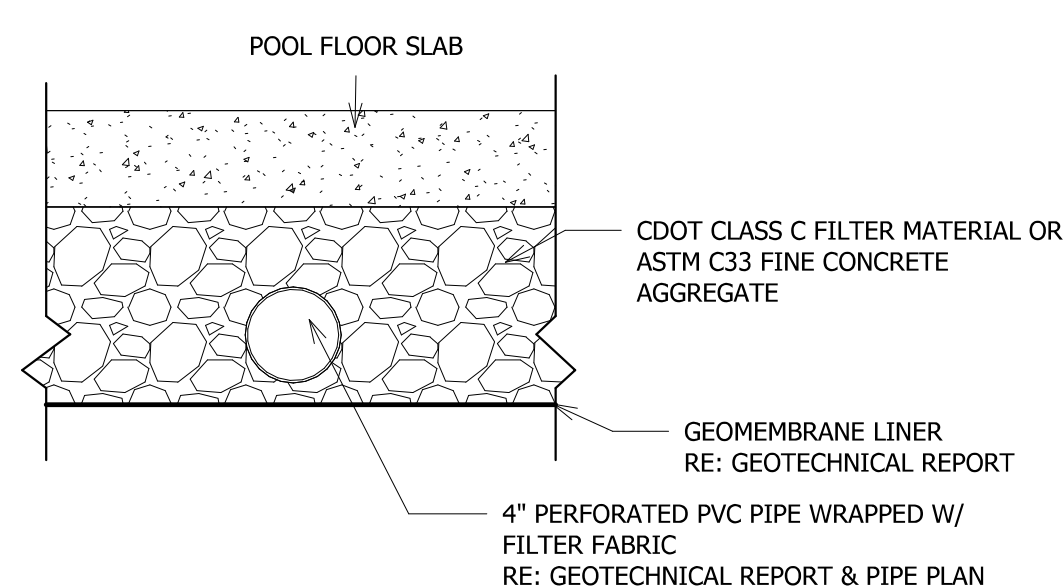
6 JET DETAILS  
 3/4\"/>



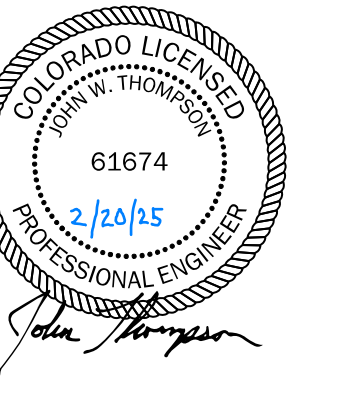
7 HARTFORD AIR LOOP DETAIL  
 NO SCALE



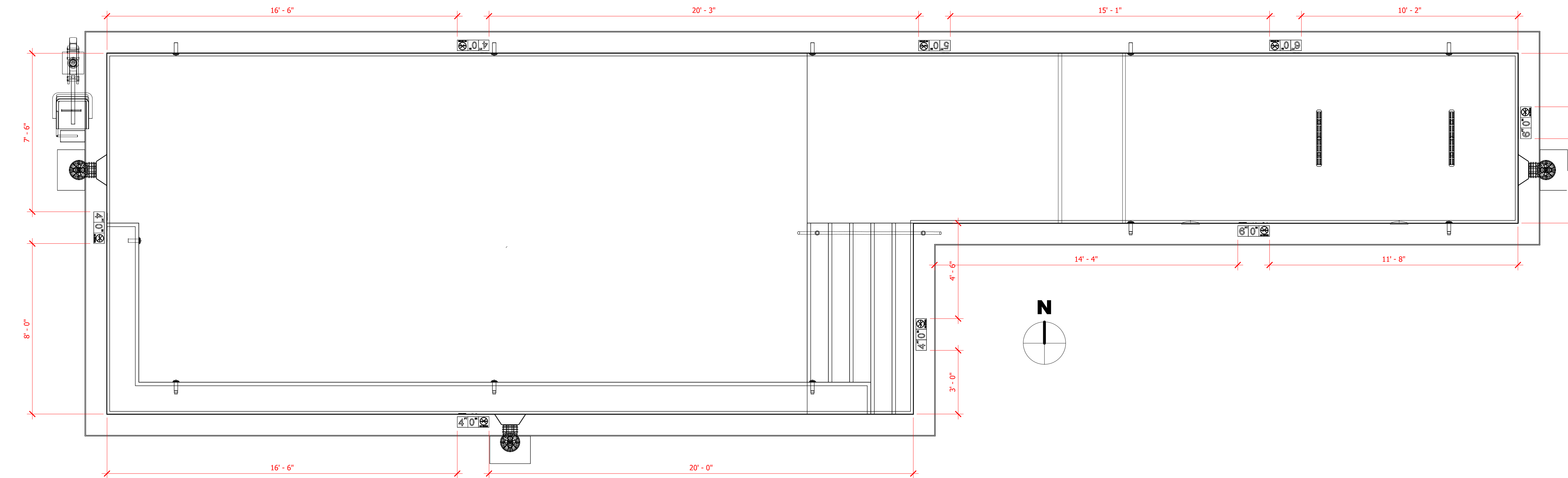
8 POOL UNDERDRAIN INSPECTION PORT  
 DETAIL  
 NO SCALE



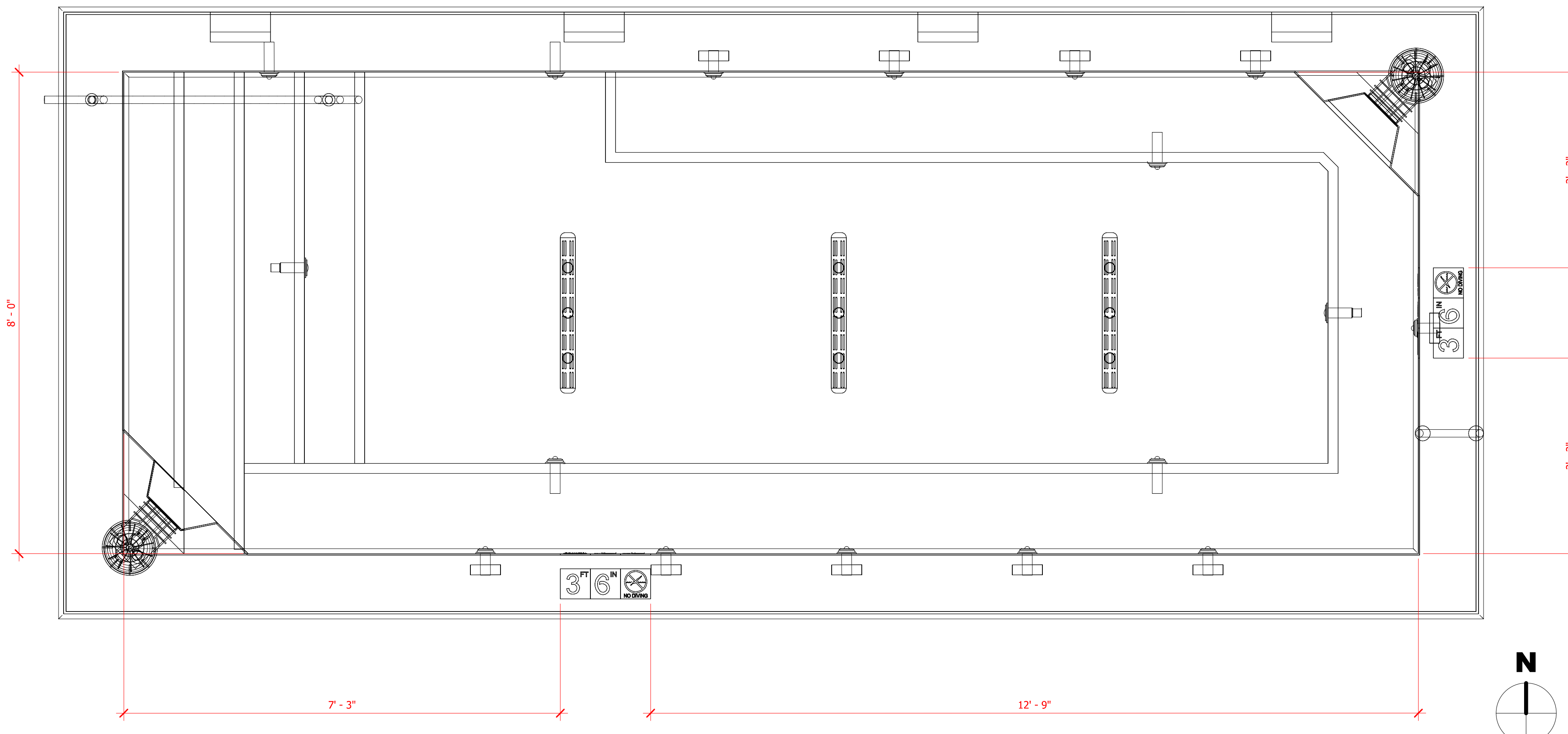
9 POOL UNDERDRAIN PIPE SECTION  
 NO SCALE



**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025



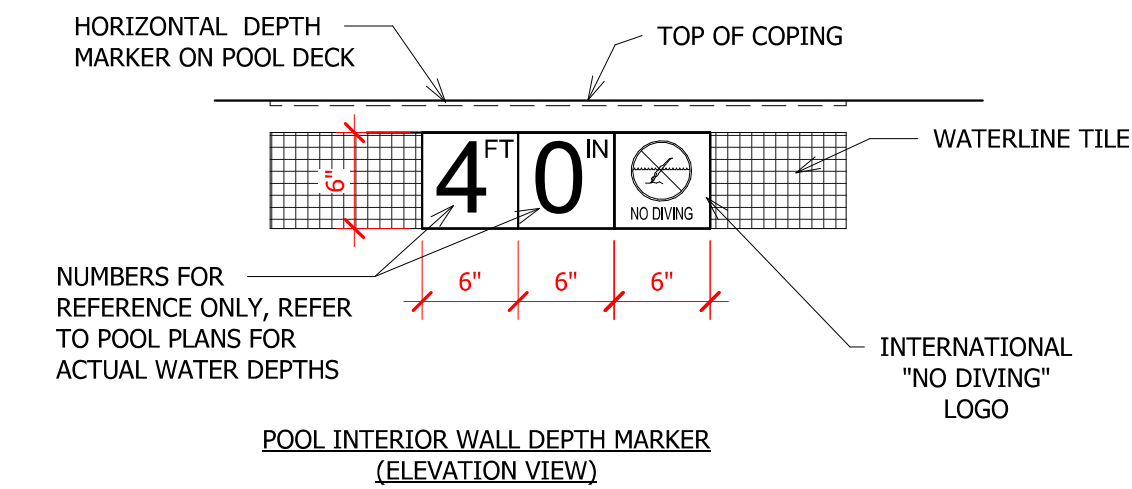
1 POOL DEPTH MARKER PLAN  
 3/8" = 1'-0"



2 SPA DEPTH MARKER PLAN  
 3/4" = 1'-0"

**TILED DEPTH MARKERS @ ALL VERTICAL WATERLINE LOCATIONS:**

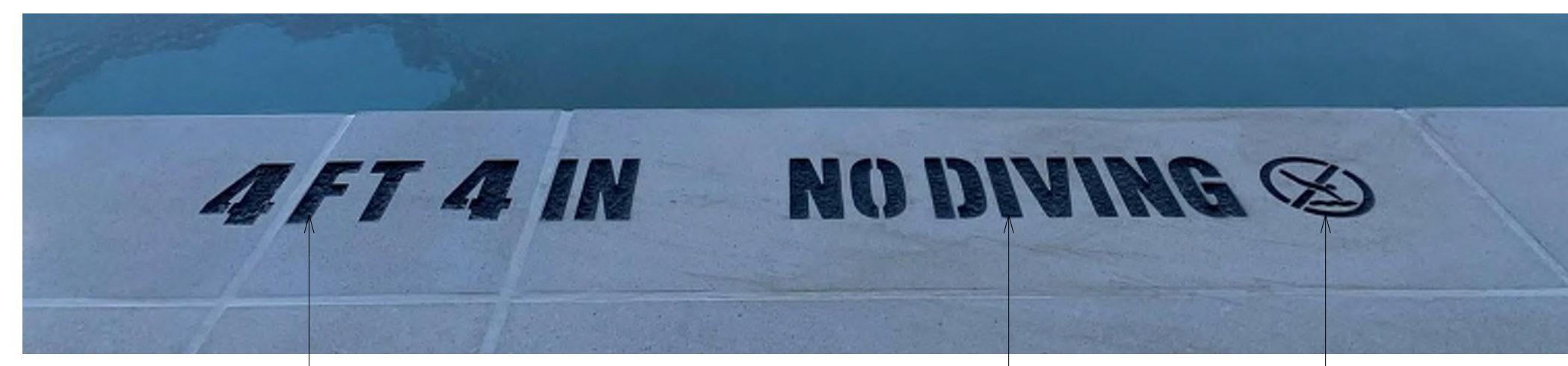
1. ALL DECK DEPTH MARKERS ARE 6"x6" TILES WITH 4" HIGH CONTRASTING NUMERALS, LETTERS & IMAGES.
2. DEPTH MARKERS SHALL BE PLACED ON BOTH THE HORIZONTAL DECK & VERTICAL WATER LINE WITHIN THE POOL AS SHOWN ON PLANS OR AT MAX. 25FT INTERVALS AND AT ALL WATER DEPTH TRANSITIONS.
3. ALL DEPTH MARKERS ON WALKING/HORIZONTAL SURFACES MUST BE SLIP RESISTANT. ALL VERTICALLY INSTALLED DEPTH MARKERS ARE TO HAVE A GLAZED FINISH.
4. ALL DEPTH MARKERS ARE TO BE INSTALLED FLUSH WITH SURROUNDING FINISHES. STANDING/POOLING WATER WILL NOT BE ACCEPTABLE.
5. POOL CONTRACTOR MUST VERIFY DEPTH MARKER REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION (AHL)



**DEPTH MARKERS @ ALL HORIZONTAL COPING LOCATIONS:**

1. ALL DECK DEPTH MARKERS ARE TO BE ETCHED/SAND-BLASTED INTO THE TILE COPING WITH 4" HIGH, CONTRASTING NUMERALS, LETTERS & SYMBOLS.
2. DEPTH MARKERS SHALL BE PLACED ON THE HORIZONTAL DECK AS SHOWN ON THE POOL PLAN.

NUMBERS SHOWN HEREIN ARE FOR REFERENCE ONLY, NUMBERS MUST ACCURATELY REPRESENT THE ACTUAL WATER DEPTH AT EACH LOCATION.



3 POOL & SPA DEPTH MARKER DETAIL  
 NO SCALE

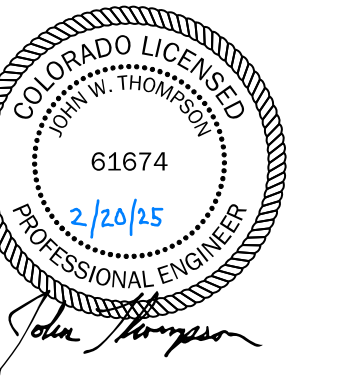
**AMBLE**

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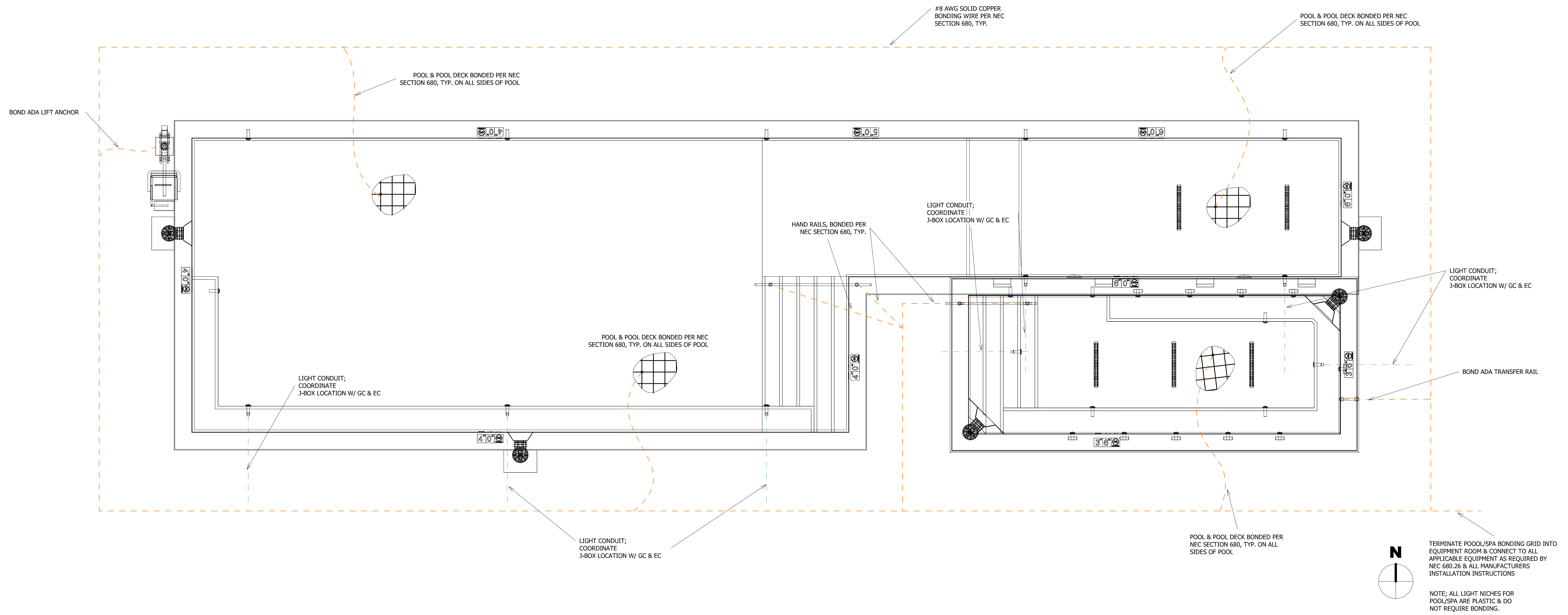
NO.	DATE:	TITLE/PURPOSE:
	12/15/2023	PERMIT SET

SCALE: **As indicated**  
 ISSUE DATE: **12/15/2023**  
 DRAWN BY: **CPD**  
 PROJECT #: **2023**  
 SHEET TITLE: **POOL & SPA DEPTH MARKER PLANS & DETAILS**  
 SHEET #:

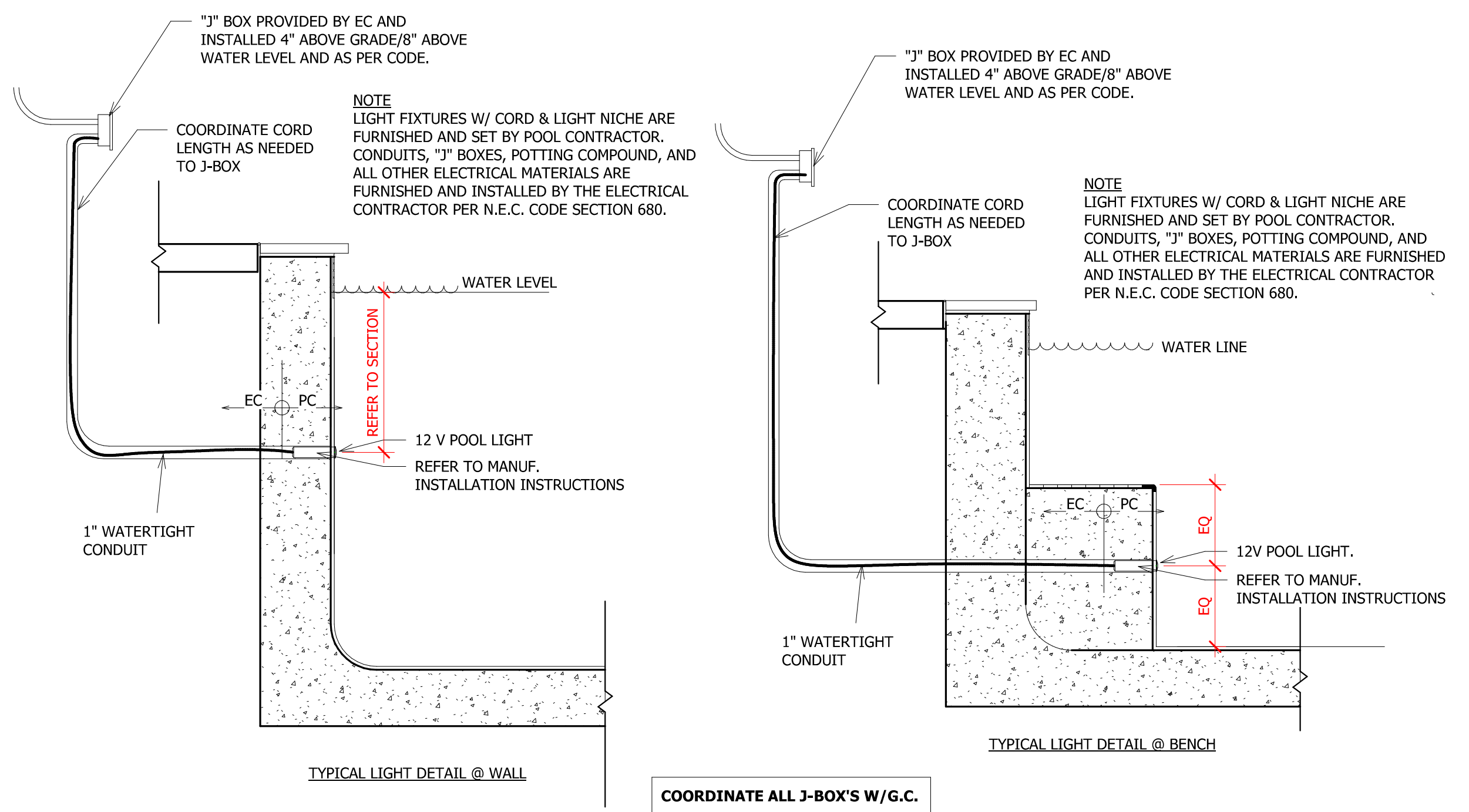
**SP400**



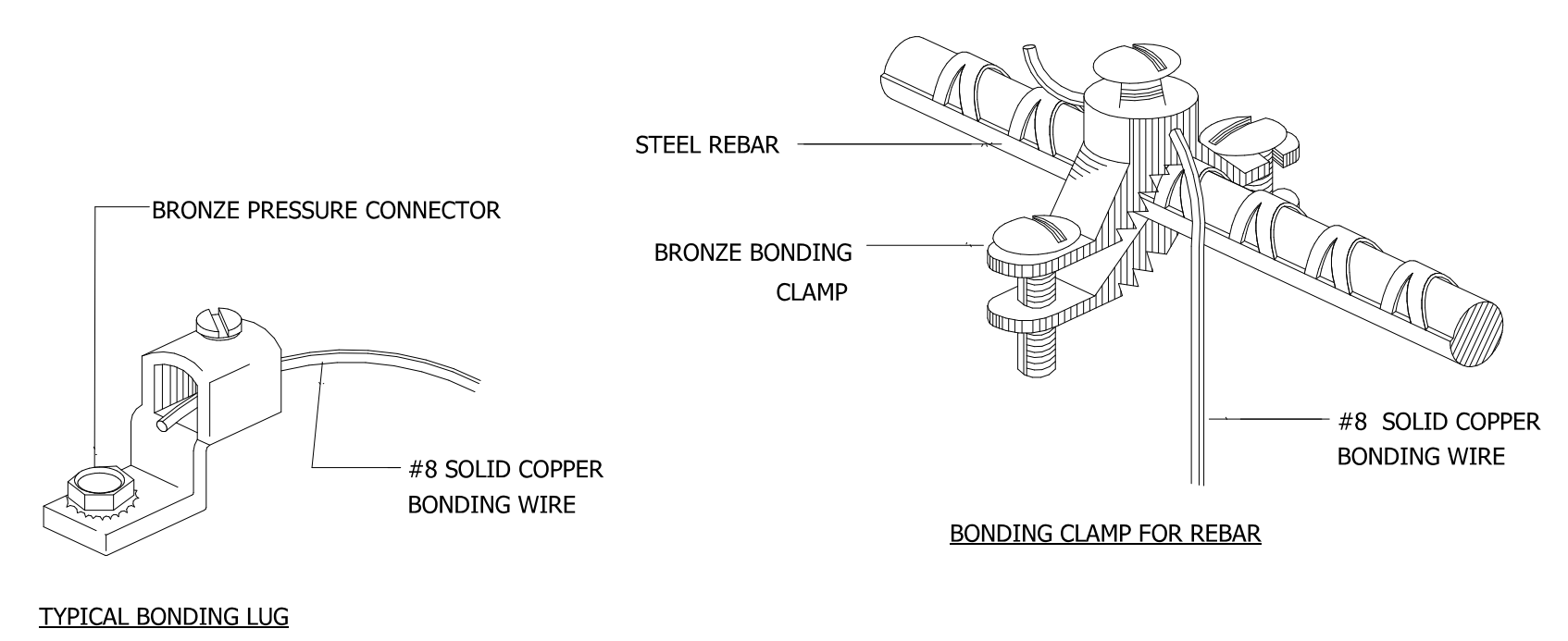
**REVIEWED FOR CODE COMPLIANCE**  
 06/24/2025



1 POOL & SPA BONDING SITE PLAN  
 3/8" = 1'-0"



2 POOL GLOBRITE LIGHT DETAILS  
 3/4" = 1'-0"



3 POOL BONDING DETAILS  
 1 1/2" = 1'-0"

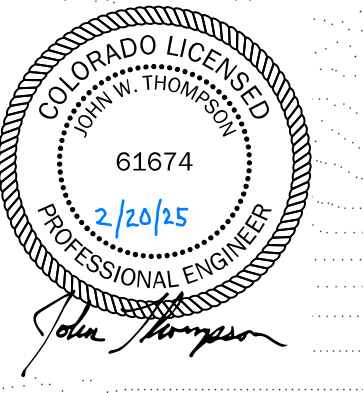
**AMBLE**

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NO.	DATE:	TITLE/PURPOSE:
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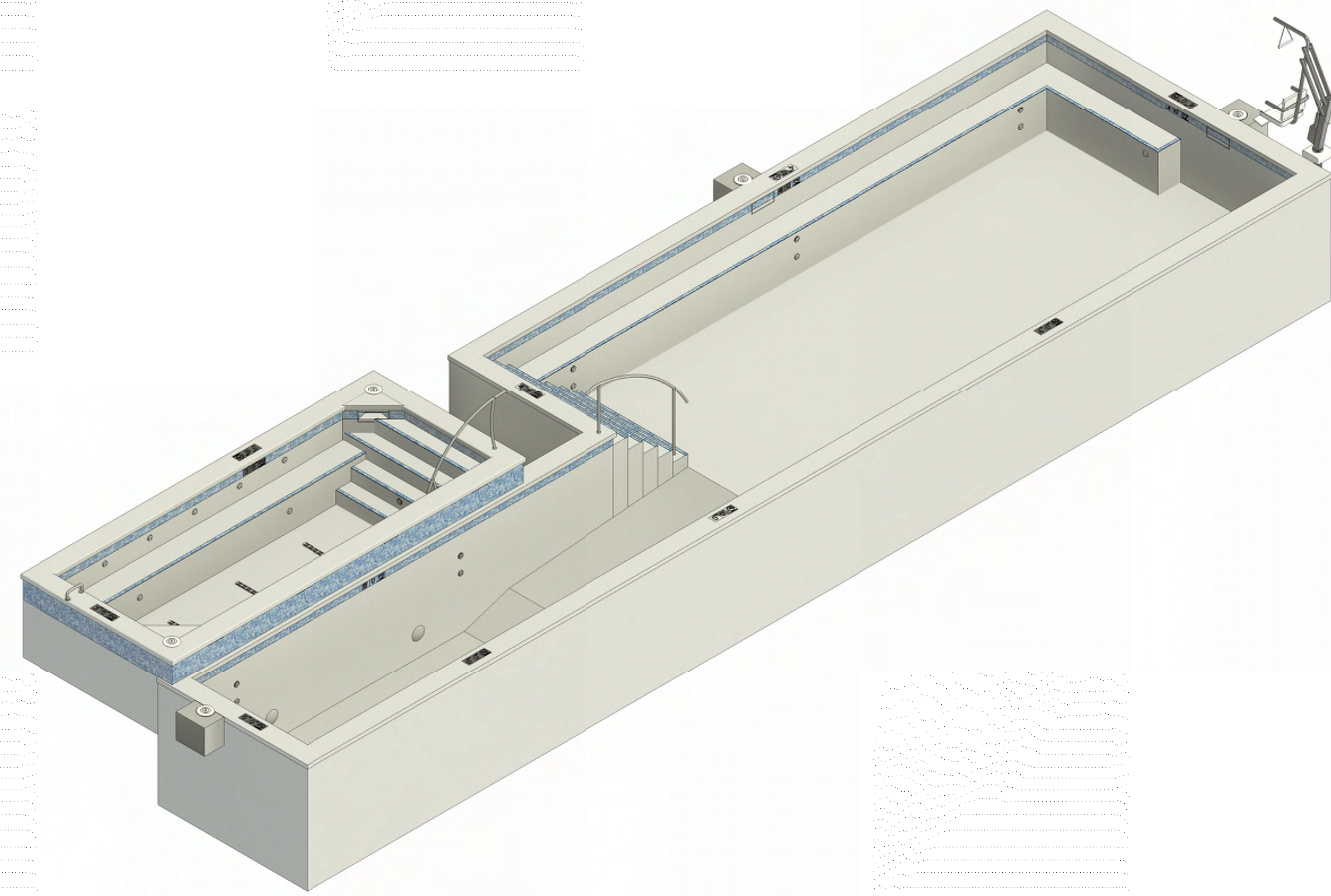
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 PROJECT #: **2023**  
 SHEET TITLE: **POOL & SPA BONDING PLAN & DETAILS**  
 SHEET #:

**SP401**

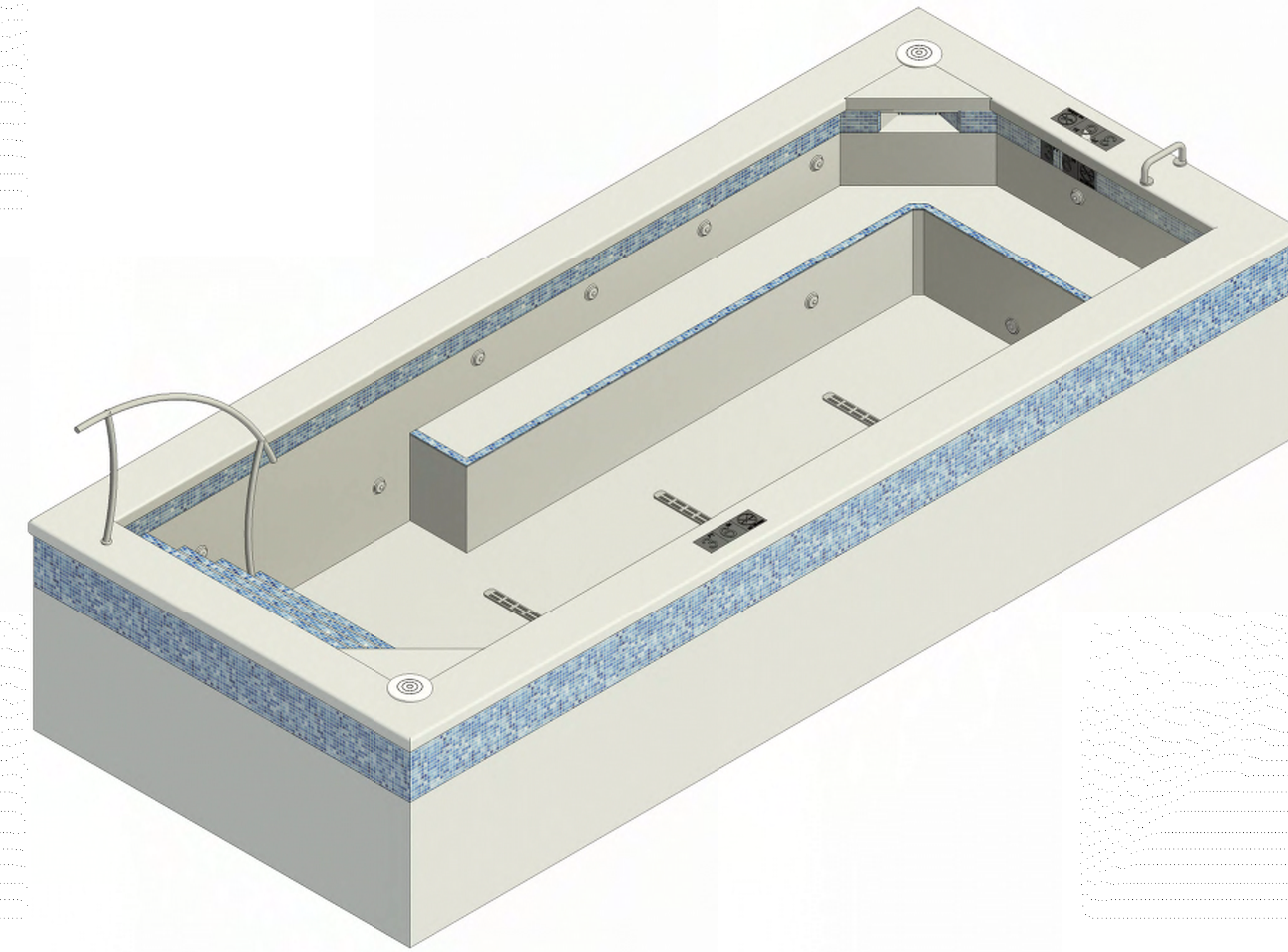


**REVIEWED  
FOR  
CODE  
COMPLIANCE**  
06/24/2025

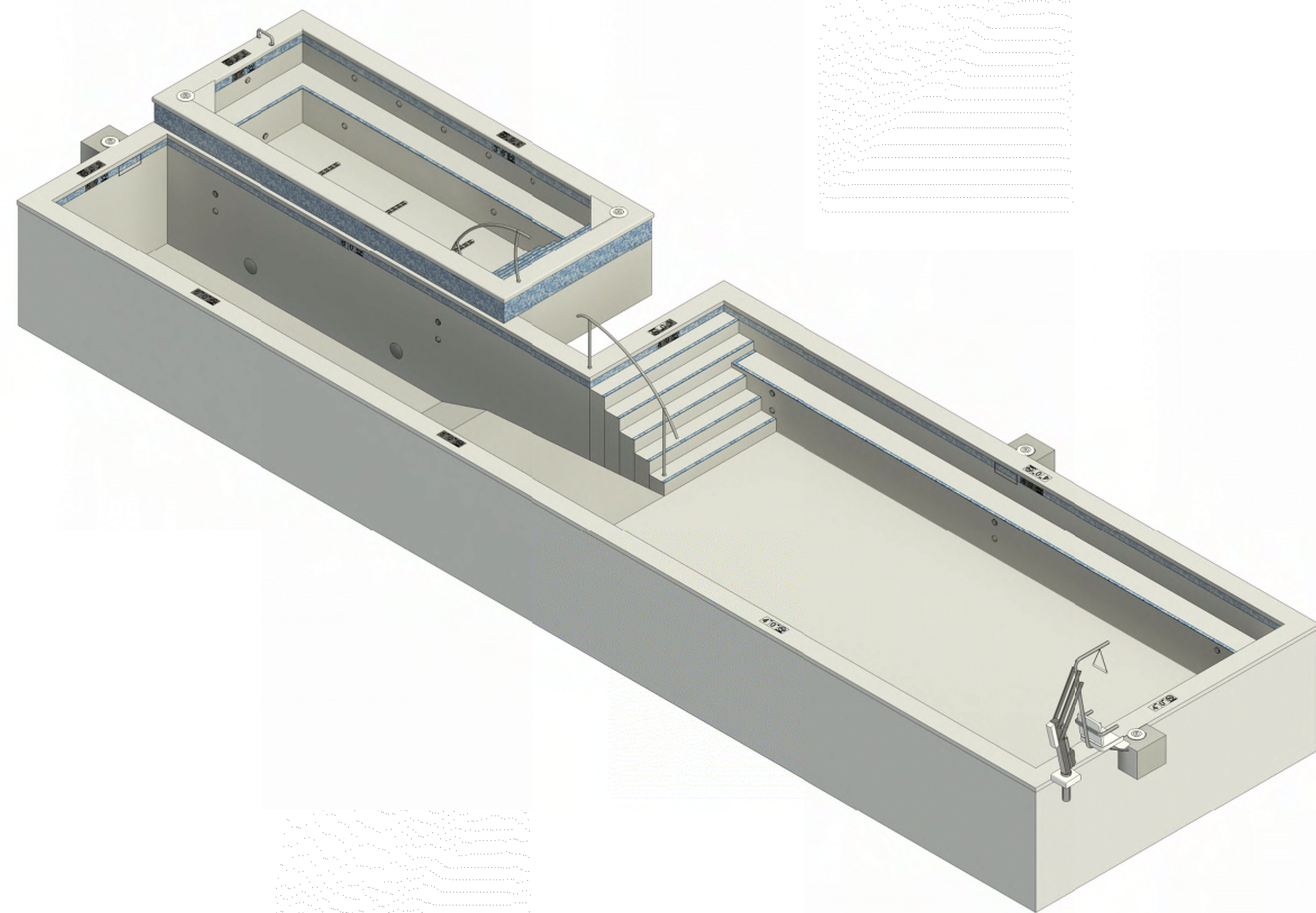
**AMBLE**  
2305 Mt. Werner Circle  
STEAMBOAT SPRINGS, CO 80487



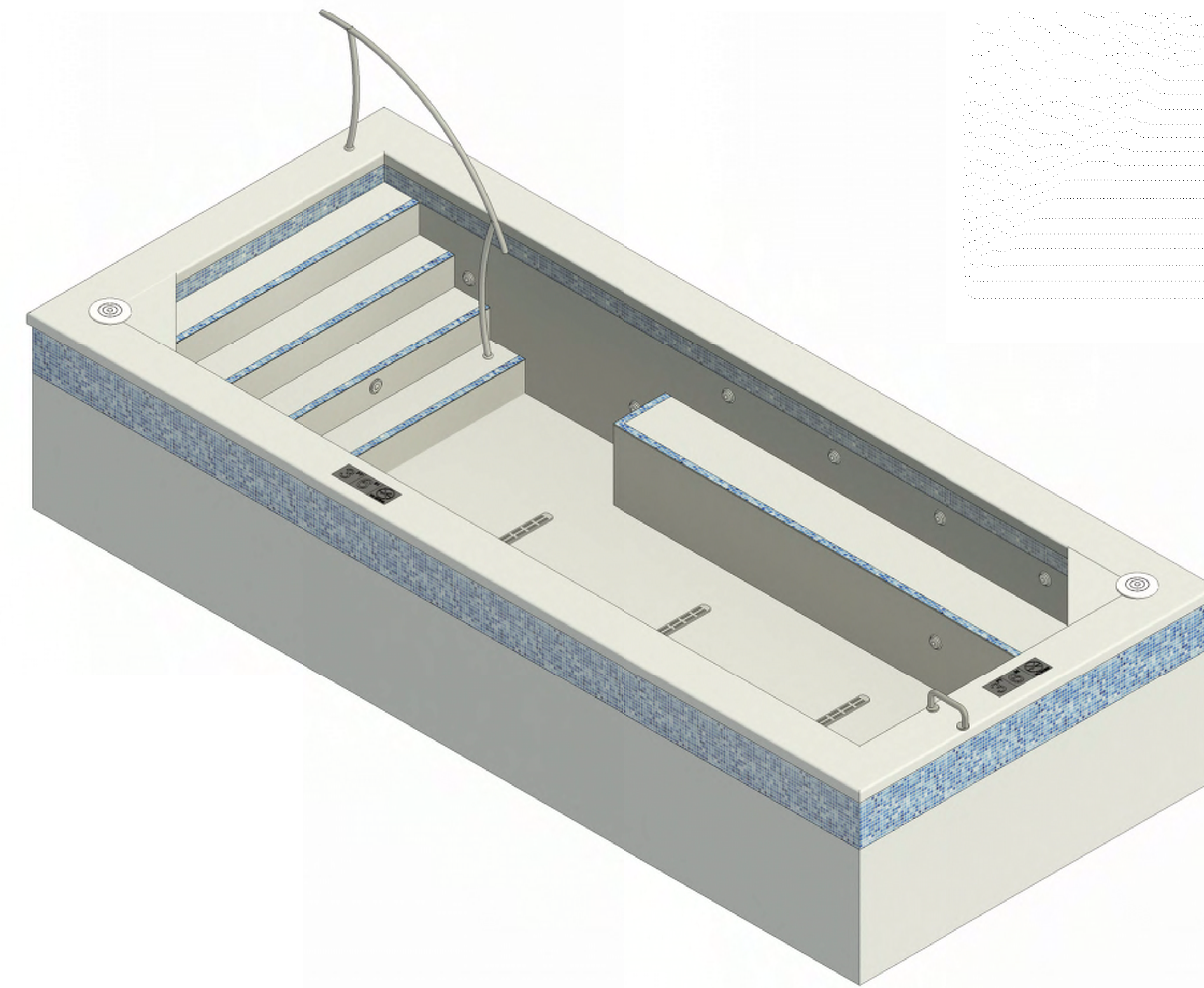
1 POOL VIEW #1



3 SPA VIEW #1



2 POOL VIEW #2



4 SPA VIEW #2

NO. DATE: TITLE/PURPOSE:  
12/15/2023 PERMIT SET

SCALE:

ISSUE DATE: 12/15/2023

DRAWN BY: CPD

PROJECT #: 2023

SHEET TITLE: POOL & SPA 3D  
RENDERINGS

SHEET #:

**SP500**