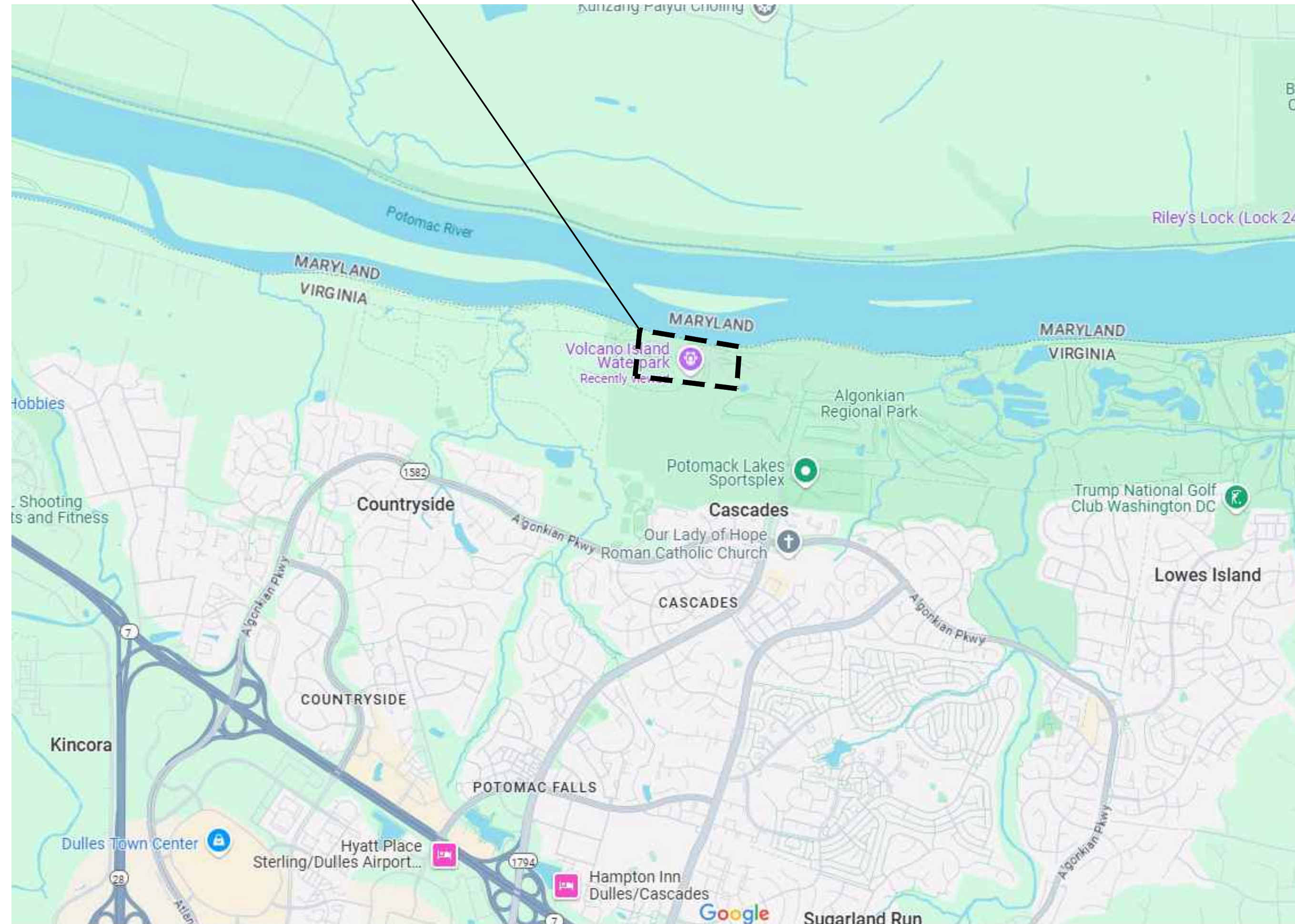


# VOLCANO ISLAND WATER PARK - POOL RENOVATION

20015 VOLCANO ISLAND DRIVE  
STERLING, VA 20165

## PERMITTING DOCUMENTS

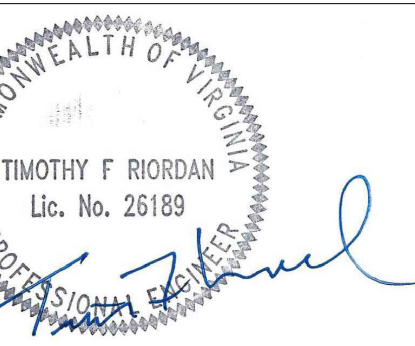
**SITE LOCATION**  
Peerless Pool



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NOVA PARKS  
5400 OX ROAD  
FAIRFAX, VA 22039



Date: 7/8/2025  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER, REPRODUCE OR MAKE ANY COPY OF ANY DRAWING OR STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE WORDS: "ALTERED BY: [NAME] AS SHOWN BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

MLPS & Pool Renovation  
Volcano Island Waterpark  
Algonkian Regional Park

No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE  
**TITLE SHEET**

Designed By:	Drawn By:	Checked By:
MC	BS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN

Drawing No.:  
**G-000**  
Sheet XX of XX



**GENERAL NOTES:**

- REFER TO THE PROJECT MANUAL FOR GOVERNING JOB REQUIREMENTS AND MATERIAL SPECIFICATIONS. THE FOLLOWING NOTES ARE SUPPLEMENTAL TO THE ABOVE REQUIREMENTS.
- ALL DIMENSIONS TO, OF, AND IN EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- DO NOT CHANGE THE SIZE OR SPACING OF STRUCTURAL ELEMENTS WITHOUT THE APPROVAL OF THE ENGINEER.
- DETAILS SHOWN ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- BRACE STRUCTURES AS REQUIRED FOR CONSTRUCTION AND WIND LOADS UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: POOL SLAB AND ABOVE GRADE WATER FEATURES.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE/SHE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS/HER FAILURE TO LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE DIRECTOR'S REPRESENTATIVE PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE PRE-APPROVAL BY THE OWNER OR ENGINEER.
- EACH CONTRACTOR SHALL COOPERATE WITH THE DIRECTOR'S REPRESENTATIVE AND COORDINATE HIS/HER WORK WITH THE WORK OF OTHERS.
- VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. FOR DIMENSIONS NOT SHOWN, SEE AQUATIC, ELECTRICAL, AND CIVIL.
- VERIFY SIZE AND LOCATION OF EQUIPMENT PADS WITH MECHANICAL AND/OR ELECTRICAL CONTRACTOR AND PUMP MANUFACTURER.

**FOUNDATION AND SOIL PREPARATION NOTES:**

- THE POOL FOUNDATION DESIGN IS BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
- BOTTOM OF ALL FOOTINGS SHALL BE AS SPECIFIED IN PLANS. ADJUST FOOTING ELEVATIONS AS REQUIRED TO MAINTAIN MINIMUM FROST COVER.
- PROVIDE POSITIVE DRAINAGE FOR ALL TRENCHES DURING CONSTRUCTION. DO NOT ALLOW ANY PONDING OF WATER DURING CONSTRUCTION.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- BEAR ALL FOOTINGS ON COMPACTED STRUCTURAL FILL AS APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
- STRUCTURAL FILL AND SELECTED FILL: SOUND, DURABLE, SAND, GRAVEL, STONE, OR BLENDS OF THESE MATERIALS, FREE FROM ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIALS, AND MEETING THE FOLLOWING GRADATION REQUIREMENTS:
 

SIEVE	PASSING
4"	100
No. 40	0 - 70
No. 200	0 - 10
- FINES PASSING NO. 200 SHALL BE NON-PLASTIC.  
 A. PARTICLE SIZE ANALYSIS SHALL SHOW NO GAP GRADING.

**CAST-IN-PLACE CONCRETE NOTES:**

- ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH OF 4,000 PSI AND A 4-6 INCH SLUMP. CONCRETE SHALL BE HAVE AN AIR CONTENT OF 4.5 TO 6 PERCENT WITH AN AIR-ENTRAINING AGENT. ALL POOL SHELL WALLS AND POOL SLAB ON GROUND SHALL BE CONSTRUCTED USING CIP OR SHOTCRETE PLACEMENT METHOD.
- ALL CONCRETE SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.42.
- ALL CEMENT SHALL CONFORM TO ASTM C150 TYPE 2. ALL CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33 SEVERE WEATHERING CLASS, MAXIMUM COARSE AGGREGATE SIZE TO BE 1 INCH. ALL AIR ENTRAINING AGENT SHALL CONFORM TO ASTM C260. ALL WATER REDUCING ADMIXTURES SHALL CONFORM TO ASTM C 494. WATER USED TO MIX CONCRETE SHALL BE DRINKABLE. REFER TO SPECIFICATIONS FOR GRADATION REQUIREMENTS FOR COARSE AGGREGATE.
- THE AMOUNT OF MID OR HIGH RANGE WATER REDUCER SHALL BE AS RECOMMENDED BY THE ADMIXTURE SUPPLIER TO INCREASE THE SLUMP OF THE CONCRETE BY 50 PERCENT OVER THE SLUMP WITHOUT THE ADMIXTURE. THE SLUMP GIVEN IN THE CONCRETE NOTES ARE AT THE POINT OF DISCHARGE.
- IF THE AIR TEMPERATURE IS GREATER THAN 90 DEGREES WITHIN 24 HOURS AFTER PLACEMENT, HOT WEATHER CONCRETE PROCEDURES SHALL BE USED ACCORDING TO ACI 305. THE CONTRACTOR SHALL SUBMIT A PROCEDURE TO THE ENGINEER FOR APPROVAL. THESE PROCEDURES MAY INCLUDE THE FOLLOWING:
  - PLACING THE CONCRETE IN THE EARLY MORNING HOURS
  - THE USE OF EVAPORATION REDUCER (SEE BELOW)
  - THE USE OF MISTING AS A CURING METHOD
  - THE USE OF WET BLANKETS AS A CURING METHOD
  - THE USE OF A RETARDING ADMIXTURE (NOT PREFERABLE)
- COLD WEATHER CONCRETE PLACEMENT: COMPLY WITH ACI 306.1.
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN CONCRETE INSTITUTE STANDARDS "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". SPLICES IN REINFORCEMENT SHALL MEET CLASS B TENSION LAP REQUIREMENTS UNLESS NOTED OTHERWISE.
- COVER FOR ALL REINFORCEMENT SHALL MEET THE COVERAGE REQUIREMENTS AS SHOWN IN THE STRUCTURAL DRAWINGS.
- ANY CONCRETE TO BE PLACED FURTHER THAN 16 FEET FROM THE END OF A CONCRETE TRUCK SHALL BE PUMPED WITH A COMMERCIAL CONCRETE PUMPING TRUCK OR OTHER PLACEMENT METHOD APPROVED BY THE ENGINEER. THE CONCRETE TRUCK SHALL NOT BE ALLOWED TO DRIVE OVER THE SUBGRADE OR THE SLAB REINFORCEMENT.
- MIX DESIGNS FOR ALL CONCRETE TO BE PUMPED WITH A COMMERCIAL CONCRETE PUMPING TRUCK SHALL BE SUBMITTED TO THE DIRECTOR'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
- REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60. FIELD BENDING IS ONLY PERMITTED FOR #4 OR SMALLER BARS. FIELD BENT BARS MAY ONLY BE COLD BENT. REINFORCING STEEL SHALL NORMALLY BE FABRICATED/BENT IN THE SHOP, AND FIELD BENDING OF #4 AND SMALLER BARS SHALL ONLY BE PERMITTED WHERE SHOP BENDING IS NOT POSSIBLE. REINFORCEMENT GREATER THAN A #4 BAR MAY NOT BE BENT IN THE FIELD.
- PROVIDE A ROUGH SOLID SURFACE (1/4" MINIMUM AMPLITUDE) AND NOTIFY THE ENGINEER TO VERIFY ACCEPTABILITY PRIOR TO APPLYING A CONCRETE BONDING AGENT WHERE NEW CONCRETE IS POURED AGAINST EXISTING OR HARDENED NEW CONCRETE.
- PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS UNLESS NOTED OTHERWISE.
- NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE SLABS, BEAMS, OR WALLS EXCEPT WHERE SHOWN AND DETAILED ON THE DRAWINGS.
- REINFORCING BARS, BAR SUPPORTS, AND SPACERS SHALL BE DETAILED AND PROVIDED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL USE WIRE-BAR SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS. SUPPORTS SHALL NOT BE PLACED FURTHER THAN 4 FEET APART.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS, AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. VERIFY SIZE AND LOCATION OF ALL OPENINGS.
- FLEXIBLE STRIP WATERSTOPS SHALL BE COMPOSED OF MODIFIED CHLOROPRENE RUBBER PROTECTED WITH A DELAY COATING. BASIS OF DESIGN IS HYDROTITE MANUFACTURED BY GREENSTREAK.
- BUGHOLES ARE NOT ALLOWED ON ANY EXPOSED CONCRETE SURFACES. ANY BUGHOLES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SUBMIT BUGHOLE REPAIR PROCEDURE FOR REVIEW AND APPROVAL PRIOR TO POURING CONCRETE.
- THE CONTRACTOR SHALL SEE SPECIFICATION SECTION 033900 FOR CONCRETE (SHOTCRETE AND/OR GUNITE) REQUIREMENTS FOR THE POOL SHELL CONSTRUCTION.
- CONCRETE FINISH REQUIREMENTS:
  - EXPOSED WALL SURFACES: SMOOTH RUBBED FINISH
  - WALKING SURFACES: NON-SLIP BROOM FINISH
- PRE-INSTALLATION CONFERENCE IS REQUIRED FOR CONCRETE PLACEMENT.
- SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL, CONCRETE MIX DESIGNS, AND REPAIR MATERIAL PRODUCT DATA FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. SUBMIT REINFORCING SHOP DRAWINGS AS PART OF A COMPLETE PACKAGE.

**DIMENSIONAL NOTES**

- WRITTEN DIMENSIONS SUPERCEDE SCALED DIMENSIONS.
- REFER TO OTHERS FOR HORIZONTAL CONTROL ON THE SITE.
- STRUCTURAL DETAILS ARE MEASURED TO FINISHED CONCRETE; WATER DEPTH AND PLAN-VIEW DIMENSIONS ARE MEASURED TO FINISHED PLASTER OR TILE FINISH. ADD 3/8" (MINIMUM, 3/4" MAXIMUM) TO PLAN DIMENSIONS FOR DISTANCE TO STRUCTURAL CONCRETE.
- FINISHED POOL DIMENSIONS SHALL BE HELD WITHIN THE TOLERANCES LISTED IN THE TABLE BELOW. ALL OTHER DIMENSIONS, UNLESS OTHERWISE SPECIFIED SHALL HAVE A TOLERANCE OF ±2"

**DESIGN ASPECT:**

DEPTH - DEEP AREA (INCLUDING DIVING AREA)	± 2 INCHES
DEPTH - SHALLOW AREA	± 1 INCH
LENGTH - OVERALL	± 1/2 INCHES
WALL SLOPES	± 3 DEGREES
WATERLINE - POOLS WITH ADJUSTABLE WEIR SKIMMERS	± 1/4 INCH
WATERLINE - POOLS WITH NONADJUSTABLE SKIMMING SYSTEMS (GUTTERS)	± 1/8 INCH
WIDTH - OVERALL	± 1 INCH
ALL DIMENSIONS NOT SPECIFIED HEREIN	± 2 INCHES

**CONSTRUCTION TOLERANCE:**

**SUBGRADE PREPARATION NOTES**

- ANY EXCAVATION PERFORMED IN MOISTURE-CONDITIONED SOILS SHALL NOT BE LEFT EXPOSED FOR AN EXTENDED PERIOD, SO SOILS DO NOT DRY OUT. A SELECT-FILL CAP MAY BE REQUIRED TO PROTECT MOISTURE-CONDITIONED SOILS.
- THE FOLLOWING CHARACTERISTICS SHOULD BE USED WHEN IDENTIFYING "SELECT FILL" MATERIALS:
  - FREE OF ORGANIC MATERIAL AND FOREIGN CONTAMINANTS
  - SOILS SHALL BE CLAYEY SAND (SC) OR LOW PLASTICITY SANDY CLAY (CL) WITH A LIQUID LIMIT BELOW 38 AND A PLASTICITY INDEX BETWEEN 7 AND 18.
  - CONTAINS NO PARTICLES LARGER THAN 2-INCHES
  - PERCENT PASSING NO.4 SIEVE SHALL BE BETWEEN 40-80%
  - PERCENT PASSING NO.40 SIEVE SHALL BE BETWEEN 10-50%
  - PERCENT PASSING NO.200 SIEVE SHALL BE LESS THAN 30%
  - FILL SHALL BE INSTALLED IN 8-INCH LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY AT ±3% OF OPTIMUM MOISTURE CONTENT FOR THE SOIL.
- UNLESS OTHERWISE NOTED, SELECT FILL MATERIAL MEETING THE REQUIREMENTS ABOVE SHALL BE USED FOR BACKFILL BEHIND AQUATIC FEATURE WALLS. BACKFILL SHALL BE COMPACTED MANUALLY BY "HAND-TAMPING". DO NOT USE MECHANICAL EQUIPMENT TO COMPACT FILL BEHIND POOL WALLS AS WALLS HAVE NOT BEEN DESIGNED FOR SURCHARGE LOADS DUE TO SUCH MACHINERY.
- SOIL PREPARATION WILL BE PERFORMED BY THE SITE CONTRACTOR, UNLESS SPECIFICALLY INCLUDED IN THE POOL CONTRACTOR'S SCOPE. ALL ELEMENTS OF THE AQUATIC FEATURE(S) HEREIN HAVE BEEN DESIGNED ASSUMING THAT THE SUBGRADE WILL BE PREPARED SUCH THAT THE POTENTIAL FOR MOVEMENT (PVM) FOR ANY EXPANSIVE SOILS WILL BE REDUCED TO 1-INCH. ALL SOIL BENEATH THE AQUATIC FEATURES (SHELL AND DECK) MUST HAVE NEGLIGIBLE SETTLEMENT OVER THE LIFE OF THE STRUCTURES.
- THE POOL FLOOR CONSISTING OF A CONCRETE FLOOR SLAB ON GRADE SHALL BEAR ON A LAYER OF COMPACTED CRUSHED STONE, EXISTING FILL AND NATURAL CLAY AND SILT ARE UNSUITABLE FOR SUPPORT AND SHALL BE OVEREXCAVATED A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE SLAB AND REPLACED WITH COMPACTED CRUSHED STONE. THE FLOOR SLAB SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING RECOMMENDATIONS:
  - A SUBGRADE MODULUS OF 100 PCI SHALL BE USED FOR THE DESIGN OF THE CONCRETE FLOOR SLAB BEARING ON COMPACTED CRUSHED STONE.
  - A MINIMUM OF 2 FEET OF CLEAN, COMPACTED CRUSHED STONE SHALL BE PLACED BENEATH THE SLAB TO ENHANCE SUPPORT, PROVIDE A WORKING BASE ABOVE THE SUBGRADE, AND PROMOTE DRAINAGE OF THE SUBGRADE.
  - THE CRUSHED STONE SHALL CONSIST OF A 50:50 MIX OF NYSDOT SIZE DESIGNATIONS NO.1 AND NO.2.
  - THE CRUSHED STONE SHALL BE KEPT MOIST, BUT NOT WET, IMMEDIATELY PRIOR TO THE CONCRETE SLAB-ON-GRADE FLOOR PLACEMENT.
  - THE CRUSHED STONE SHALL EXTEND 5 FEET LATERALLY BEYOND THE EDGE OF THE POOL FLOOR SLAB.
  - (14) WEEP HOLES SHALL BE INSTALLED WITHIN THE POOL SLAB (SEE DWG. S-200 & S-800).
  - THE CRUSHED STONE SHALL BE UNDERLAIN (AND WRAPPED BEYOND THE LIMITS OF THE CONCRETE SLAB) BY A NON-WOVEN GEOTEXTILE WITH AN AOS EQUAL TO OR SMALLER THAN THE U.S. STANDARD SIEVE SIZE OF 70, SUCH AS MIRAFI 160N.

**PLASTER NOTES:**

- ALL INTERIOR SURFACES OF THE AQUATIC FEATURE SHALL BE SLIP-RESISTANT, BUT NOT INFLECT INJURY TO BARE FEET DURING NORMAL USE.
- INSTALL PLASTER IN THICKNESS INDICATED ON THE PLANS. PLASTER SHALL BE 1/2" THICK MINIMUM, WITH A MAXIMUM THICKNESS OF 3/4".
- DO NOT APPLY PLASTER DURING WINDY CONDITIONS OR WHEN OTHER CONSTRUCTION THAT MAY CONTAMINATE THE PLASTER IS TAKING PLACE - SUCH AS LANDSCAPING OR PAINTING. PLASTER SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE IS BETWEEN 40 AND 90 DEGREES FAHRENHEIT.
- PLASTER SHALL NOT BE WORKED ONCE THE MATERIAL HAS PASSED ITS FINAL SET.
- THE AQUATIC FEATURE SHALL BE FILLED WITH WATER IMMEDIATELY AFTER PLASTER HAS SET.
- IN SALT CHLORINE POOLS, DO NOT ADD SALT FOR 28 DAYS POST-PLASTERING TO ALLOW THE PLASTER TO FULLY CURE.
- ALL INTERIOR FINISHES IN THE SWIMMING POOL SHALL NOT OBSCURE THE VISIBILITY OF OBJECTS IN THE POOL OR SPA.
- ALL INTERIOR SURFACES MUST BE OF A LIGHT ENOUGH COLOR SUCH THAT AN 8-INCH BLACK DISK MAY BE IMMEDIATELY AND CLEARLY SEEN BY AN OBSERVER STANDING ADJACENT TO THE POOL OR SPA AT A POINT CLOSEST TO THE DISK.

**STRUCTURAL NOTES - CONCRETE (SHOTCRETE / GUNITE)**

- POOL SHELLS SHALL BE INSTALLED WITH PNEUMATICALLY PLACED WET-PROCESS CONCRETE (SHOTCRETE), DRY-PROCESS (GUNITE), OR CAST-IN-PLACE CONCRETE. REFER TO SPECIFICATIONS BELOW FOR CONCRETE MIX AND COMPRESSIVE STRENGTH REQUIREMENTS.
- ALL CONCRETE PLACEMENT AND CURING TO BE IN ACCORDANCE WITH THE LATEST ACI STANDARDS.
- AN ACI/ASA CERTIFIED NOZZLEMAN IS REQUIRED TO INSTALL ALL SHOTCRETE MATERIAL. POOL CONTRACTOR IS RESPONSIBLE FOR ENSURING THE NOZZLEMAN IS PROPERLY TRAINED.
- ALL TESTING OF CONCRETE SHALL BE COMPLETED BY ACI TECHNICIANS OF A THIRD PARTY COMPANY. ALL CONCRETE REQUIRED FOR THE AQUATIC FEATURE(S) SHALL BE TESTED TO ENSURE QUALITY CONTROL AND ASSURANCE THAT THE MATERIAL USED MEETS OR EXCEEDS THE PROJECT SPECIFICATIONS.
- NO FORMING OILS OR CURING AGENTS SHALL BE USED ON SURFACES RECEIVING ANY TYPE OF FINISH. WATER BASED COMPOUNDS ARE PERMITTED ONLY IF THE THE SURFACES IS CLEANED AND SAND OR WATER BLASTED PRIOR TO POOL FINISH APPLICATION.
- MAXIMUM AGGREGATE SIZES ARE AS FOLLOWS:
  - 1" - SHOTCRETE/GUNITE STRUCTURES
  - 1" - CAST-IN-PLACE BEAMS, STRUCTURAL SUSPENDED SLABS, AND WALLS.
  - 1-1/2" - CAST-IN-PLACE FOOTINGS AND SLABS ON GRADE
- GUNITE, "DRY PROCESS" PNEUMATICALLY PLACED CONCRETE MAY BE UTILIZED IN LIEU OF SHOTCRETE. THE PRODUCT MUST BE INSTALLED SUCH THAT THE COMPRESSIVE STRENGTH IS 4,000 PSI AT 28 DAYS AND MUST BE INSTALLED BY AN ACI/ASA CERTIFIED NOZZLEMAN. GUNITE TEST PANELS SHALL BE CREATED DURING CONSTRUCTION SO THE CONCRETE CAN BE CORED AND TESTED BY A LAB TO VERIFY 28 DAY STRENGTH.

**CONCRETE SPECIFICATIONS**

USAGE:	WATER-CEMENT RATIO:	MIX:	COMPRESSIVE STRENGTH:
SHOTCRETE FOR POOLS (WET PROCESS)	0.45-0.59	7 SACKS/C.Y. OR 658 LBS/C.Y.	4,000 PSI
CAST IN PLACE STRUCTURES (INCLUDING FLOOR SLABS, POOL FLOORS, CASSIONS, POOL WALLS, RETAINING WALLS, ETC)	0.45-0.49	5.5 SACKS/C.Y. OR 517 LBS/C.Y.	4,000 PSI
CAST-IN-PLACE FOOTINGS, GRADE BEAMS, SLABS ON GRADE, HOUSEKEEPING PADS, ETC.	0.45-0.49	5 SACKS/C.Y. OR 658 LBS/C.Y.	3,000 PSI

**STRUCTURAL NOTES - REINFORCING STEEL**

- ALL REINFORCING STEEL SHALL BE MANUFACTURED IN THE USA. BAR PLACEMENT AND DETAILING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
  - REINFORCING DOWELS SHALL BE OF THE SAME SIZE AND SPACING AS THE MAIN BARS THEY ADJOIN. MINIMUM LAP MUST BE EQUAL TO 30 TIMES THE BAR DIAMETER. THE MINIMUM SPLICE OF CONTINUOUS BARS SHALL BE 40 TIMES THE BAR DIAMETER (2-FT MINIMUM).
  - THE MINIMUM BAR SPLICE LENGTH SHALL BE 50 TIMES THE BAR DIAMETER OR AT LEAST 18-INCHES.
  - MINIMUM BAR COVER SHALL BE 3" FOR CAST-IN-PLACE CONCRETE WHEN ADJACENT TO SOILS, 2" FOR CAST-IN-PLACE CONCRETE RETAINING WATER.
  - CONCRETE REINFORCEMENT SHALL BE SECURED IN POSITION PRIOR TO PLACEMENT. REINFORCING STEEL INSTALLED IN THE FLOOR SHALL BE SUPPORTED WITH PLASTIC OR METAL CHAIRS OR BEARING PLATES. DO NOT SUPPORT FLOOR REINFORCING STEEL WITH CHUNKS OF WOOD OR BRICK PIECES.
- POST INSTALLED ANCHORS:**
- RECORD PRODUCT DESCRIPTION INCLUDING PRODUCT NAMES, ADHESIVE PRODUCTION OR EXPIRATION DATE, MASONRY TYPE AND CONDITION, ANCHOR TYPE, DIAMETER AND STEEL GRADE, COMPLIANCE OF DRILL BIT WITH MANUFACTURERS REQUIREMENTS, HOLE DIAMETER AND EMBEDMENT. THE INSPECTOR MUST ALSO STATE IN THE REPORT WHETHER THE HOLE IS PREPARED AND CLEANED AND THE ANCHOR IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
  - DO NOT SUBSTITUTE OTHER POST INSTALLED ANCHORS FOR THOSE INDICATED.
  - POST INSTALLED ANCHORS INCLUDE ALL MECHANICAL OR ADHESIVE ANCHORS INSTALLED IN HOLES DRILLED INTO CONCRETE OR MASONRY.
  - HOLES ARE TO BE DRILLED AND CLEANED IN STRICT ACCORDANCE WITH THE ANCHOR SYSTEM MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
  - STAINLESS STEEL THREADED RODS SHALL BE TYPE 316 AND CONFORM TO ASTM F593 (Fy = 45 ksi Min).

**SUBMITTAL REQUIREMENTS:**

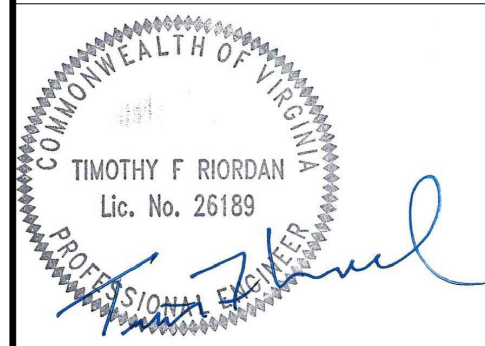
- IN GENERAL, THE FOLLOWING SUBMITTALS ARE REQUIRED TO BE TRANSMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INCORPORATION INTO THE WORK OR DURING CONSTRUCTION, AS MAY BE APPLICABLE:
- CONTRACTOR'S QUALITY CONTROL AND QUALITY ASSURANCE PLANS FOR ALL WORK COMPONENTS SHOWN ON THE PLANS AND INCLUDED IN THE CONTRACT DOCUMENTS.
  - CONCRETE WORK:
    - CERTIFICATIONS FOR ALL REINFORCING MATERIALS, GRADES, TYPES, SIZES SPECIFIED AND THEIR SOURCES.
    - REINFORCING SHOP PLACEMENT AND DETAIL DRAWINGS SHOWING ALL BAR PLACEMENT, SIZES, SPLICES, EMBEDMENTS, ETC.
    - CERTIFICATIONS FOR ALL CONCRETE MATERIALS AND THEIR SOURCES INCLUDING - BUT NOT LIMITED TO - AGGREGATES, ADMIXTURES, TRIAL AND FINAL PROPOSED MIX DESIGNS AND TEST RESULTS, HOT/COLD WEATHER PROCEDURES, IF APPLICABLE, RESULTS OF ALL FIELD SAMPLING AND CYLINDER TESTS, AND INSPECTION REPORTS.
  - SHORING AND DEWATERING WORK:
    - SHORING DESIGNS SHALL BE PROVIDED BY THE CONTRACTOR TO MEET DESIGN AND CONSTRUCTION REQUIREMENTS SHOWN ON THE DRAWINGS FOR THE PROJECT. DETAILS SHALL BE PROVIDED DURING THE RFP SUBMISSION REVIEW. ALL DESIGNS AND DETAIL DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
    - DEWATERING PLANS SHALL BE PROVIDED BY THE CONTRACTOR AND DESIGNED AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE PROJECT. DETAILS SHALL BE PROVIDED DURING THE RFP SUBMISSION REVIEW.

**STRUCTURAL ABBREVIATIONS**

Ⓢ	AT	KWY	KEY WAY
AB	ANCHOR BOLT	LD BRG	LOAD BEARING
ADDL	ADDITIONAL	LL	LIVE LOAD
ADJ	ADJACENT	LBBB	LONG LEG BACK TO BACK
AFF	ABOVE FINISHED FLOOR	LLH	LONG LEG HORIZONTAL
AHR	ANCHOR	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LNTL	LINTEL
APPROX	APPROXIMATE	LONG	LONGITUDINAL
ARCH	ARCHITECT	LP	LOW POINT
B/B	BACK TO BACK	MAX	MAXIMUM
BEV	BEVEL	MECH	MECHANICAL
BLDG	BUILDING	MFP	MECHANICAL-ELECTRICAL-PLUMBING
BLKG	BLOCKING	MFR	MANUFACTURER
BO	BOTTOM OF	MIN	MINIMUM
BOFTG	BOTTOM OF FOOTING	MO	MASONRY OPENING
BOS	BOTTOM OF STEEL	MTL	METAL
BOT	BOTTOM		
BP	BASE PLATE	NIC	NOT IN CONTRACT
BRDG	BRIDGING	NOM	NOMINAL
BRG	BEARING	NTS	NOT TO SCALE
BMT	BASEMENT	NWT	NORMAL WEIGHT
CANTL	CANTILEVER	OC	ON CENTER
CFM	COLD-FORMED METAL FRAMING	OD	OUTSIDE DIAMETER
CHFR	CHAMFER	OF	OUTSIDE FACE
CJ	CONTROL JOINT	OPNG	OPENING
CL	CENTER LINE	OPP	OPPOSITE
CLKJ	CAULKED JOINT	PAF	POWDER ACTUATED FASTENER
CLR	CLEAR	PCC	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PEMB	PRE ENGINEERED METAL BUILDING
CO	CLEAN OUT		
COL	COLUMN		
CONC	CONCRETE	PL	PLATE
CONST JT	CONSTRUCTION JOINT	PLAT	PLATFORM
CONT	CONTINUOUS	PLF	POUNDS PER LINEAR FOOT
COORD	COORDINATE	PREFAB	PREFABRICATED
CSK	COUNTER SUNK	PRELIM	PRELIMINARY
CJ FT	CUBIC FEET	PSF	POUNDS PER SQUARE FOOT
CJ	CUBIC	PT	PRESSURE TREATED
YD	YARD	PUR	PURLINS
CWR	CONCRETE WALL REMOVAL	PVMT	PAVEMENT
DBL	DOUBLE		
DEMO	DEMOLITION	QC	QUALITY CONTROL
DET	DETAIL		
DIA	DIAMETER	R	RADIUS
DIM	DIMENSION	RD	ROOF DRAIN
DL	DEAD LOAD	RDG INS	RIGID INSULATION
DN	DOWN	REF	REFERENCE
DWG	DRAWING	REINF	REINFORCING
EA	EACH	REQD	REQUIRED
EE	EACH END	RET	RETAINING
EJ	EACH FACE	RH	ROUGH OPENING
EF	EXPANSION JOINT		
EL	ELEVATION		
ELEC	ELECTRICAL	SCHED	SCHEDULE
EOD	EDGE OF DECK	SF	SQUARE FEET
EOS	EDGE OF SLAB	SM	SIMILAR
EQ	EQUAL	SPA	SPACE(S)
EQUIP	EQUIPMENT	SPEC	SPECIFICATION
EW	EACH WAY	SQ	SQUARE
EXP	EXPANSION	STA	STATION
EXST	EXISTING	STD	STANDARD
EXT	EXTERIOR	STL	STEEL
FAB	FABRICATE	T&B	TOP AND BOTTOM
FBO	FURNISHED BY OTHERS	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TEMP	TEMPORARY
FDTN	FOUNDATION	THK	THICKNESS
FLR	FLOOR	THRU	THROUGH
FOM	FACE OF MASONRY	TOC	TOP OF CONCRETE
FRMG	FRAMING	TOFTG	TOP OF FOOTING
FS	FOOTING STEP	TOP	TOP OF STEEL
FT	FOOT	TOSL	TOP OF SLAB
FTG	FOOTING	TYP	TYPICAL
FW	FIRE WALL		
		UNEX	UNEXCAVATED
		UNO	UNLESS NOTED OTHERWISE
GA	GAGE		
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GR	GUARD RAIL	VF	VERIFY IN FIELD
GR BM	GRADE BEAM	VR	VAPOR RETARDER
HNDRL	HANDRAIL	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HP	HIGH POINT	WBL	WOOD BLOCKING
		WF	WALL FOOTING
ID	INSIDE DIAMETER	WP	WORKING POINT
IF	INSIDE FACE	WS	WALL STEP
IN	INCHES	WWF	WELDED WIRE FABRIC
INFO	INFORMATION		
INSUL	INSULATION	X BRACE	CROSS BRACE
INV	INVERT	XS	EXTRA STRONG
ISO	ISOLATION	XXS	DOUBLE EXTRA STRONG
JT	JOINT		
JBE	JOIST BEARING ELEVATION		
K	KIPS		
KB	KNEE BRACE		
KO	KNOCKOUT		
KPL	KICK PLATE		
KSF	KIPS PER SQUARE FOOT		



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Algonkian Regional Park**

No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

**SHEET TITLE**

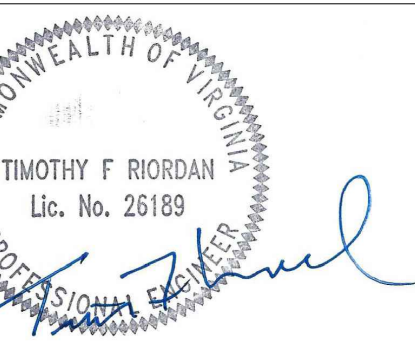
**AQUATIC STRUCTURAL NOTES**

Designed By:	Drawn By:	Checked By:
MC	RS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN

Drawing No.:  
**SP-002**  
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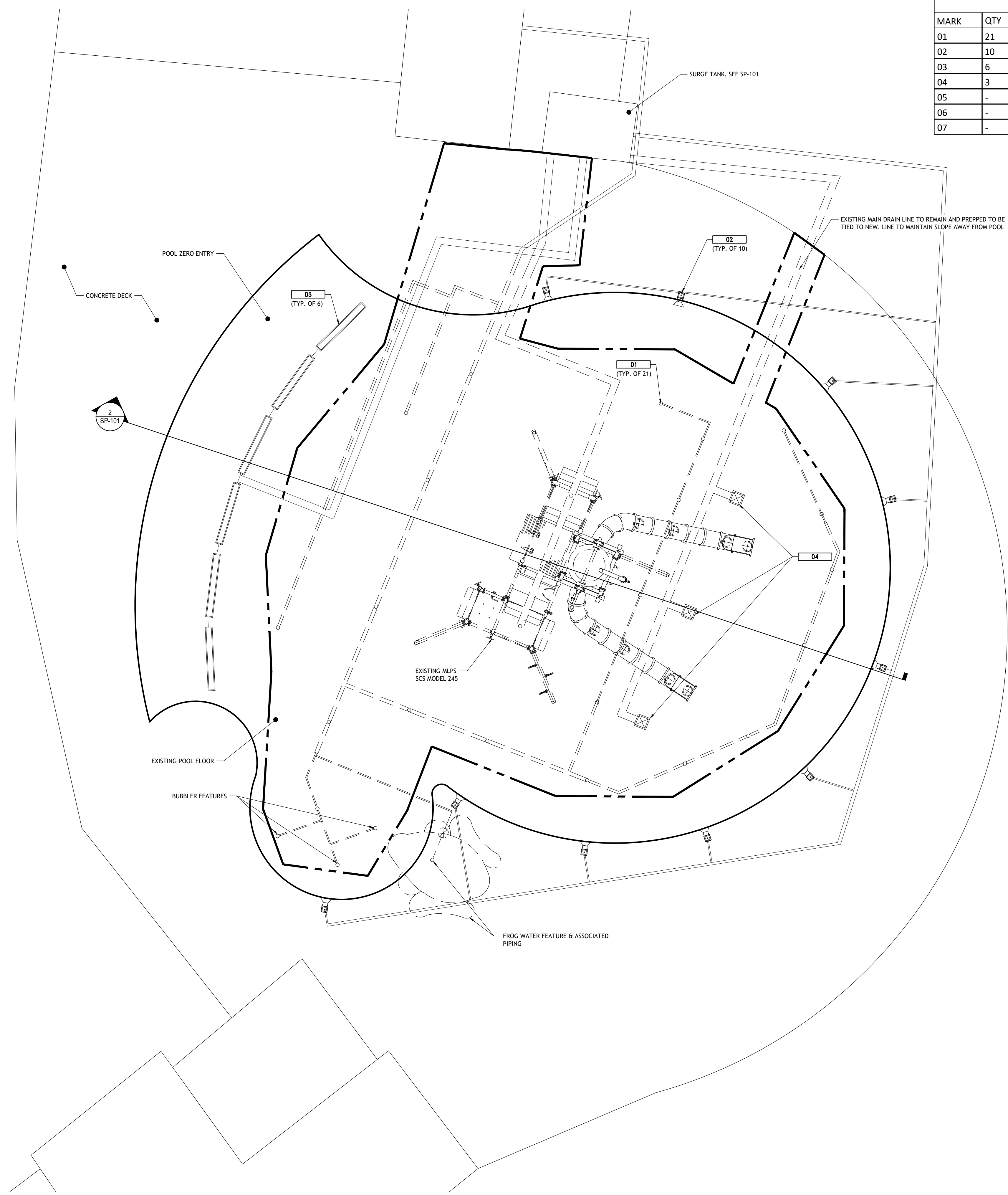
No.	Submittal / Revision	Appr	By	Date
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SHEET TITLE  
EXISTING CONDITIONS  
POOL PLAN

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**SP-100**  
Sheet XX of XX

EXISTING POOL EQUIPMENT LIST						
MARK	QTY	ITEM	MANUFACTURER	ITEM #	DESCRIPTION	DTL REF.
01	21	RETURN INLET	HAYWARD	-	ADJUSTABLE FLOOR INLET	-
02	10	SKIMMER	HAYWARD	SP-1082	FLOAT SKIMMER	-
03	6	TRENCH DRAIN	CUSTOM	-	12" WIDE, 1/2" GRATE SLOTS	-
04	3	MAIN DRAIN	CUSTOM	-	24"X24", 1/2" GRATE SLOTS	-
05	-	LIFEGUARD STAND	SPECTRUM	-	4' PORTABLE LIFEGUARD STAND	-
06	-	LIFEGUARD EQUIPMENT	-	-	RESCUE TUBE, 16' SHIPS HOOK, THROW LINE	-
07	-	TEST KIT	TAYLOR	SERIES 2000	POOL BALANCING TEST KIT	-

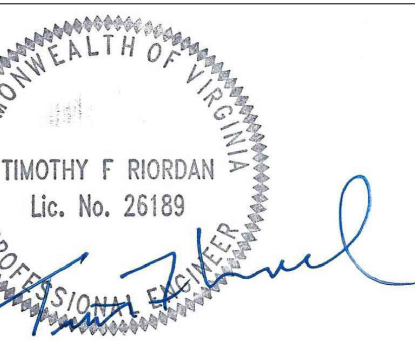


**1** POOL EXISTING CONDITIONS PLAN  
SCALE: 1/8" = 1'-0"

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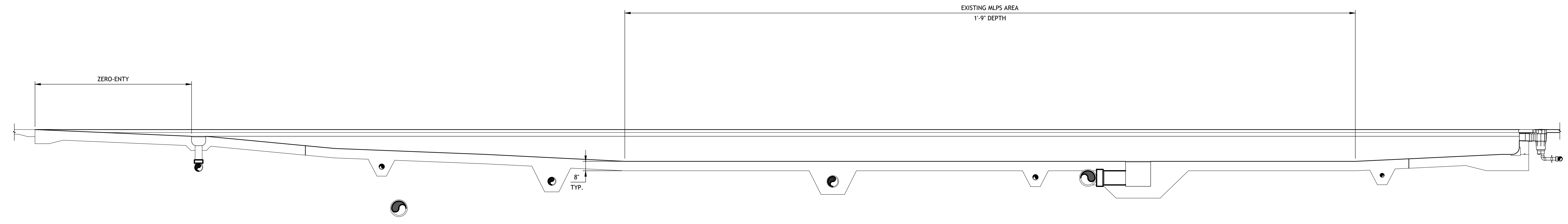
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1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
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SHEET TITLE  
EXISTING CONDITIONS SECTION & EQUIPMENT PLAN

Designed By:	Drawn By:	Checked By:
MC	RS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN

Drawing No.:  
**SP-101**  
Sheet XX of XX

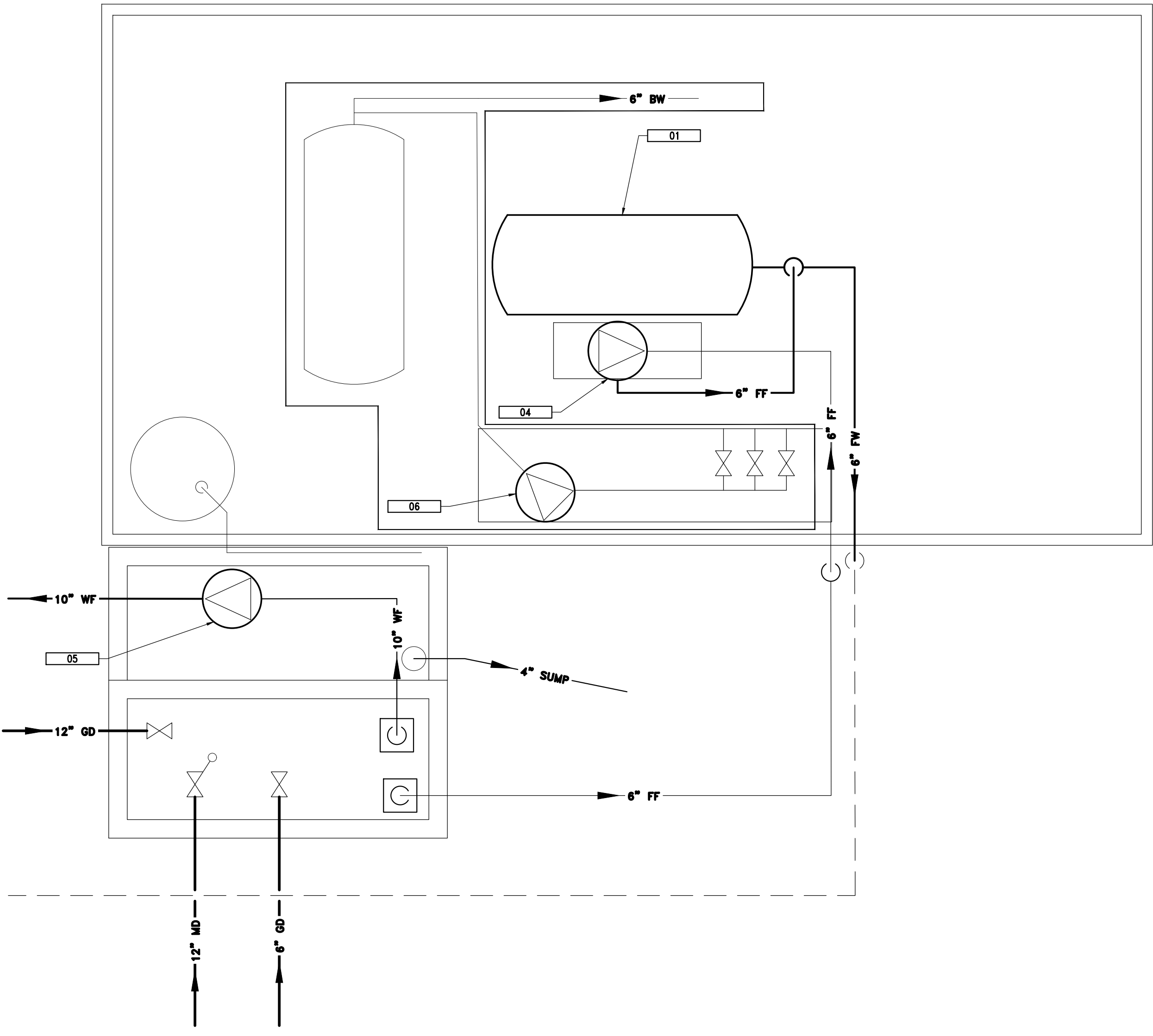


**2** POOL EXISTING CONDITIONS – SECTION  
SCALE: 1/4" = 1'-0"

Filter System 01 - Play Pool					
Pool	Length (ft.)	Surface Area (sq. ft.)	Capacity (gal.)	T.O.R. (hours)	Flow (gpm)
Play Pool		5,640	45,000	1.5	500
<b>Totals</b>	<b>NA</b>	<b>5,640</b>	<b>45,000</b>	<b>NA</b>	<b>500</b>
Filtration Data					
Filter area required @ 15 gpm/sq. ft. (sq. ft.)					33.33
Filter Selection:			Manufacture: Neptune Benson	4896SHFFG	
Quantity:					1
Filter area per filter (sq. ft.)					35.70
Filter area available (sq. ft.)					35.70
Application Rate (gpm/sq. ft.)					14.01
Backwash Flowrate per Filter (gpm)					500.00

FILTER ROOM EQUIPMENT LIST						
MARK	QTY	ITEM	MANUFACTURER	ITEM #	DESCRIPTION	DTL REF.
01	1	HIGH RATE SAND FILTER	NEPTUNE-BENSON	4896SHFFG	48" DIAMETER HORIZONTAL FIBERGLASS FILTER	-
02		CHEMICAL CONTROLLER	STRANTRON	SYSTEM 5	AUTOMATIC CHEMICAL CONTROLLER	-
03		CHEMICAL FEEDER	STENNER	85M	CHEMICAL METERING PUMP	-
04	1	RECIRCULATION PUMP	STA-RITE	CCSPHM3	500 GPM @ 65' TDH SELF-PRIMING RECIRCULATION PUMP W/ PKG184C STRAINER MODEL # CCSPHM3, 15HP	-
05	1	FEATURE PUMP	PACO	8095-1	1500GPM @ 40' TDH VERTICAL IN-LINE PUMP, 20HP	-
06	1	SLIDE PUMP	PACO	8095-1	1500GPM @ 40' TDH VERTICAL IN-LINE PUMP, 20HP	-

PIPE LEGEND				
TAG	MAX NPS (INCHES)	MIN NPS (INCHES)	DESCRIPTION	FLOW (GPM)
FW	6	1	FILTERED WATER RETURN	500
GD	12	2	GRAVITY DRAIN LINE: SKIMMERS - 30 GPM E.A. (300 GPM TTL) TRENCH DRAINS - 33.33 GPM E.A. (200 GPM TTL)	-
MD	12	12	MAIN DRAIN LINE: MAIN DRAINS - 166.7 GPM E.A. (500 GPM TTL)	500
WF	10	10	WATER FEATURE RETURN	1500
FF	6	6	RECIRC. PUMP SUCTION & PRESSURE SIDES	500
SUMP	4	4	SUMP PUMP & 4" DRAIN LINE	-

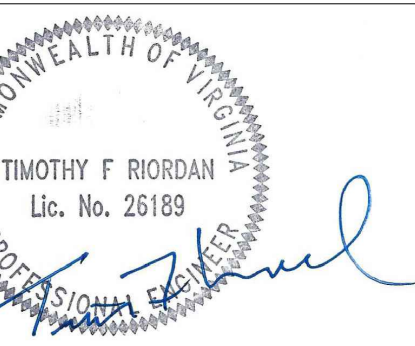


**1** FILTER ROOM EXISTING CONDITIONS PLAN  
SCALE: 1/4" = 1'-0"

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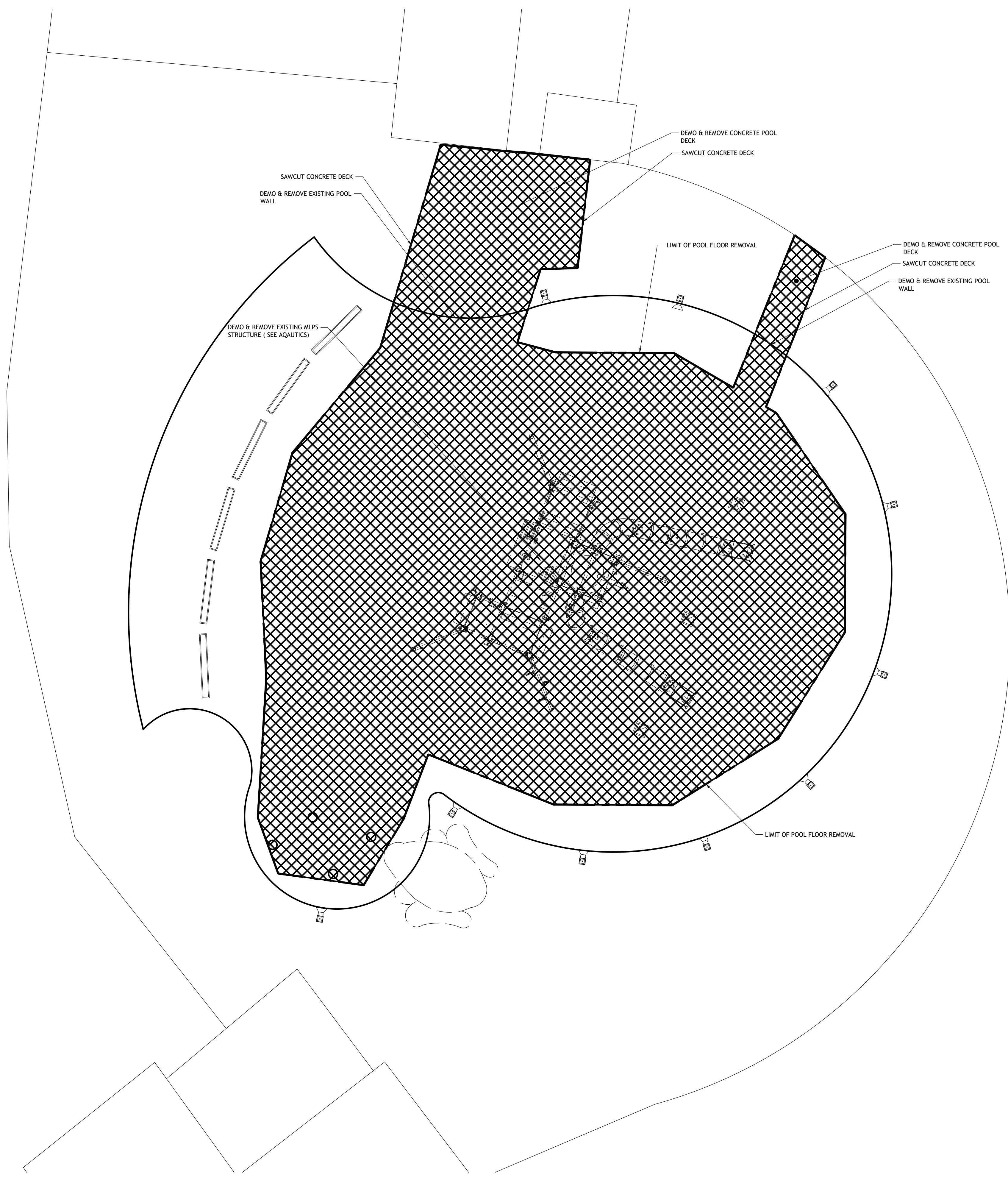
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1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE  
**POOL DECK DEMOLITION PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**C-100**  
 Sheet XX of XX



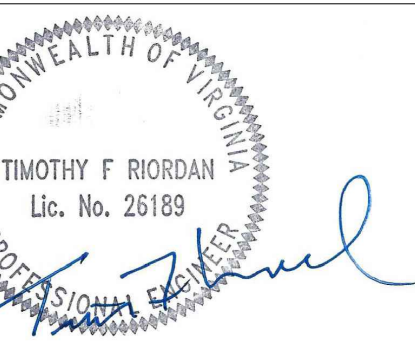
**1 POOL DECK DEMOLITION PLAN**  
 SCALE: 1/8" = 1'-0"

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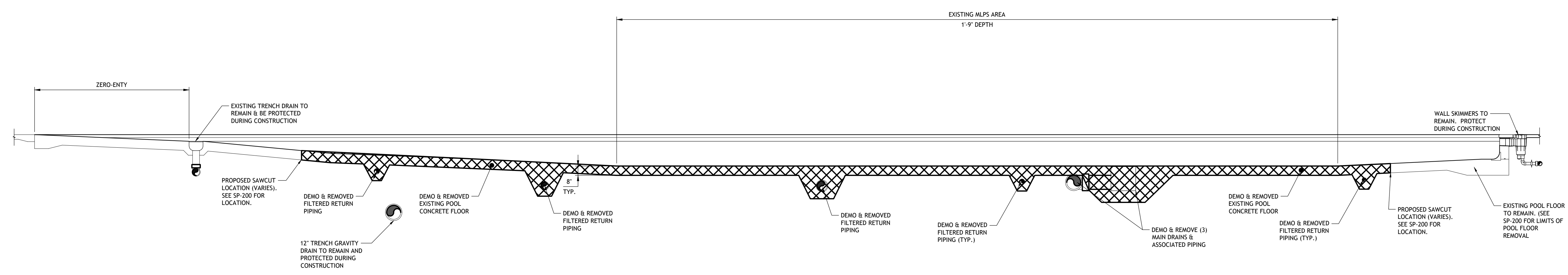
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1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
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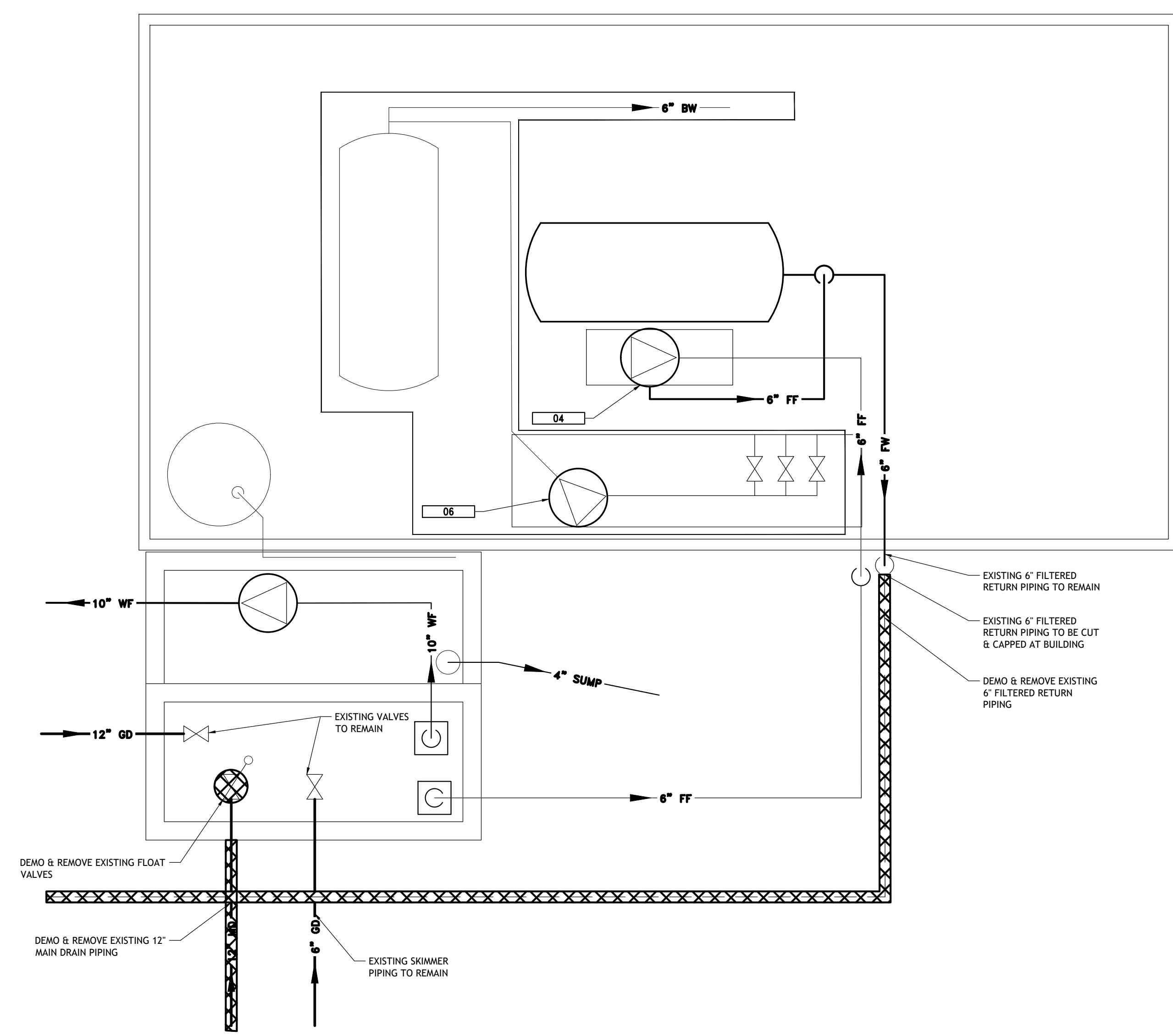
SHEET TITLE  
**MLPS POOL SECTION & FILTER ROOM DEMOLITION PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**SP-201**  
 Sheet XX of XX



**2 MLPS POOL DEMOLITION SECTION**  
 SCALE: 1/4" = 1'-0"

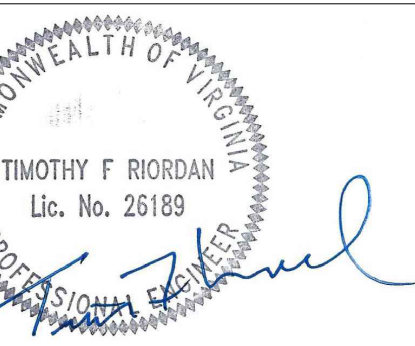


**1 FILTER ROOM DEMOLITION PLAN**  
 SCALE: 1/4" = 1'-0"

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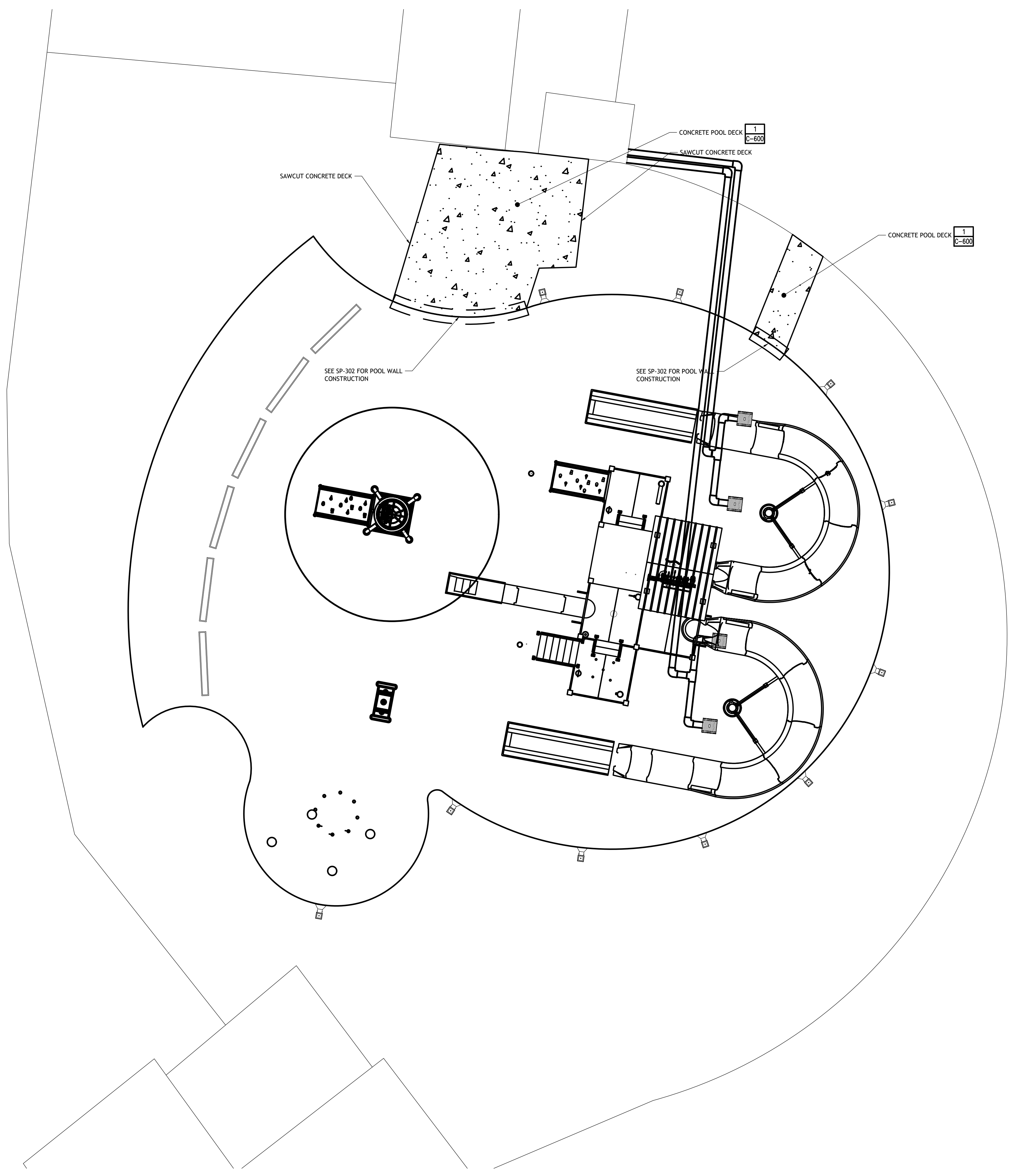
No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
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3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE

**POOL DECK LAYOUT PLAN**

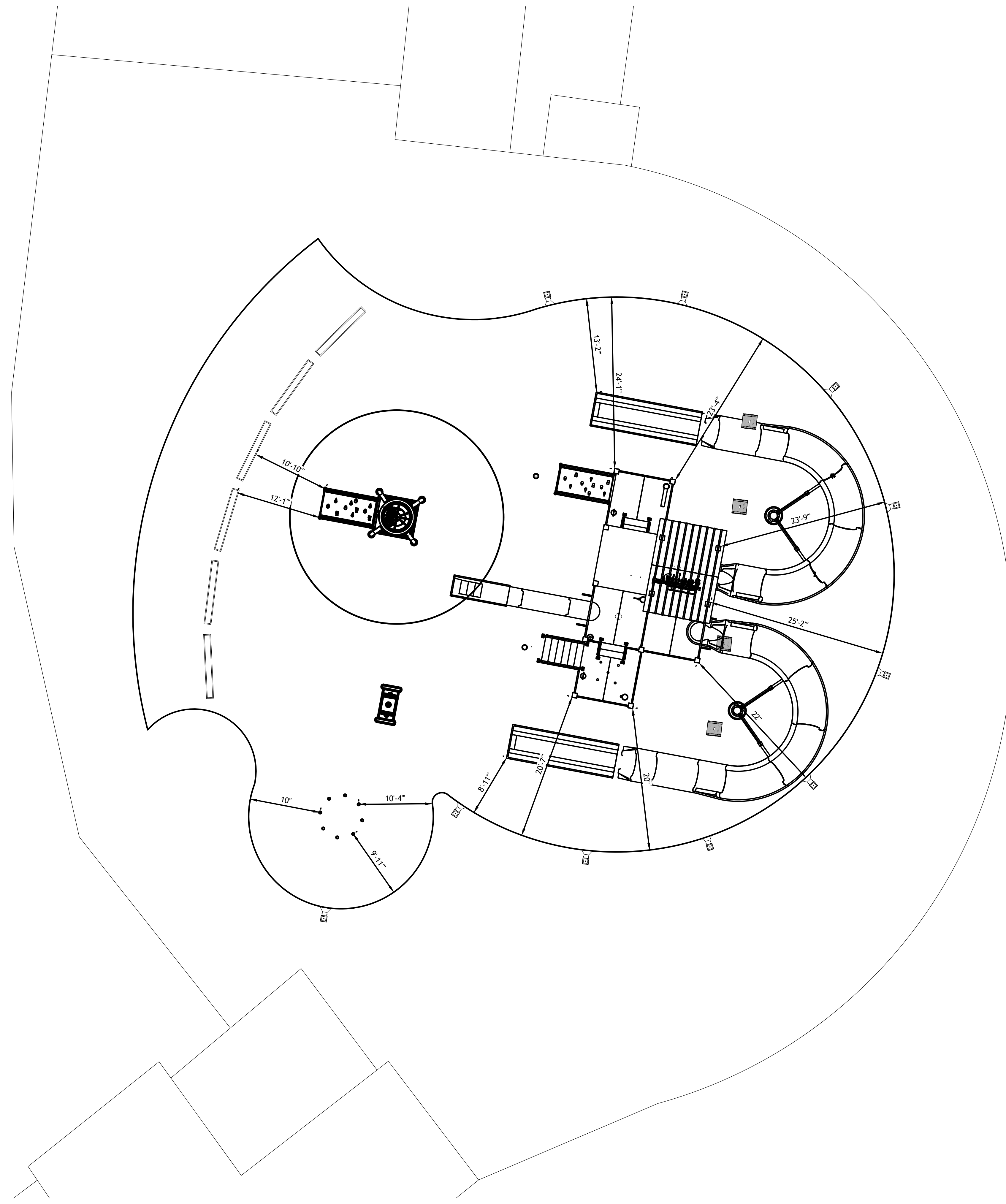
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Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**C-200**  
 Sheet XX of XX



**1 POOL DECK LAYOUT PLAN**  
 SCALE: 1/8" = 1'-0"

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**1** PROPOSED POOL LAYOUT  
SCALE: 1/8" = 1'-0"

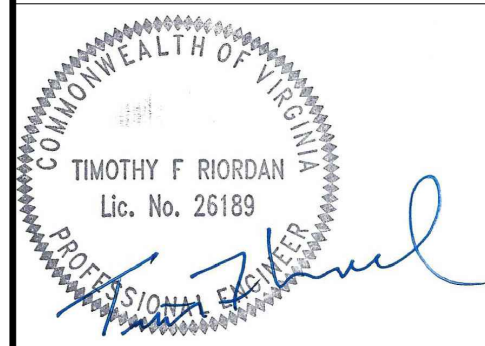
NOTES:  
1. SEE VENDOR DRAWINGS FOR MLPS ANCHOR & FEATURE SCHEDULE

Filter System 02 - Proposed Play Pool					
Pool	Length (ft.)	Surface Area (sq. ft.)	Capacity (gal.)	T.O.R. (hours)	Flow (gpm)
Proposed Play Pool	280	5,640	15,000	0.5	500
<b>Totals</b>	<b>280</b>	<b>5,640</b>	<b>15,000</b>	<b>0.5</b>	<b>500</b>
<b>Filtration Data</b>					
Filter area required @ 15 gpm/sq. ft. (sq. ft.)					33.33
Filter Selection:			Manufacture: Neptune Benson	4896SHFFG	
Quantity:					1
Filter area per filter (sq. ft.)					35.70
Filter area available (sq. ft.)					35.70
Application Rate (gpm/sq. ft.)					14.01
Backwash Flowrate per Filter (gpm)					500.00

FEATURE FLOW REQUIREMENTS				
MARK	QTY	COMPONENT	FLOW PER UNIT (GPM)	TOTAL FLOW (GPM)
01	2	POWERED WATER BLASTER	30	60
02	2	ELEVATED BLASTER	30	60
03	2	LOOSE HOSE	30	60
04	1	SPIDER SPRAYER	20	20
05	1	UMBRELLA SPRAYER	20	20
06	2	DETONATOR	0	0
07	2	DEPTH CHARGE	0	0
08	1	DECK BUBBLER	40	40
09	1	DOWN JETS	40	40
10	1	ARCH JETS	40	40
11	1	ACTIVATION STATION	0	0
12	1	MILE HIGH GEYSER	50	50
13	1	500 HYDRO STORM	300	300
14	8	FOUNTAINS	20	160
15	2	BODYSLIDE	200	400
		TOTAL		1250
		USAGE FACTOR	80%	1000



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3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE  
**MLPS POOL LAYOUT PLAN**

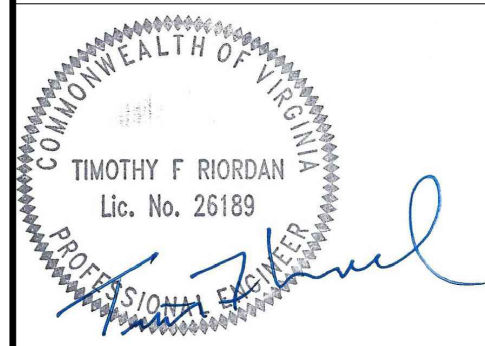
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MC	RS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN

Drawing No.:  
**SP-300**  
 Sheet XX of XX

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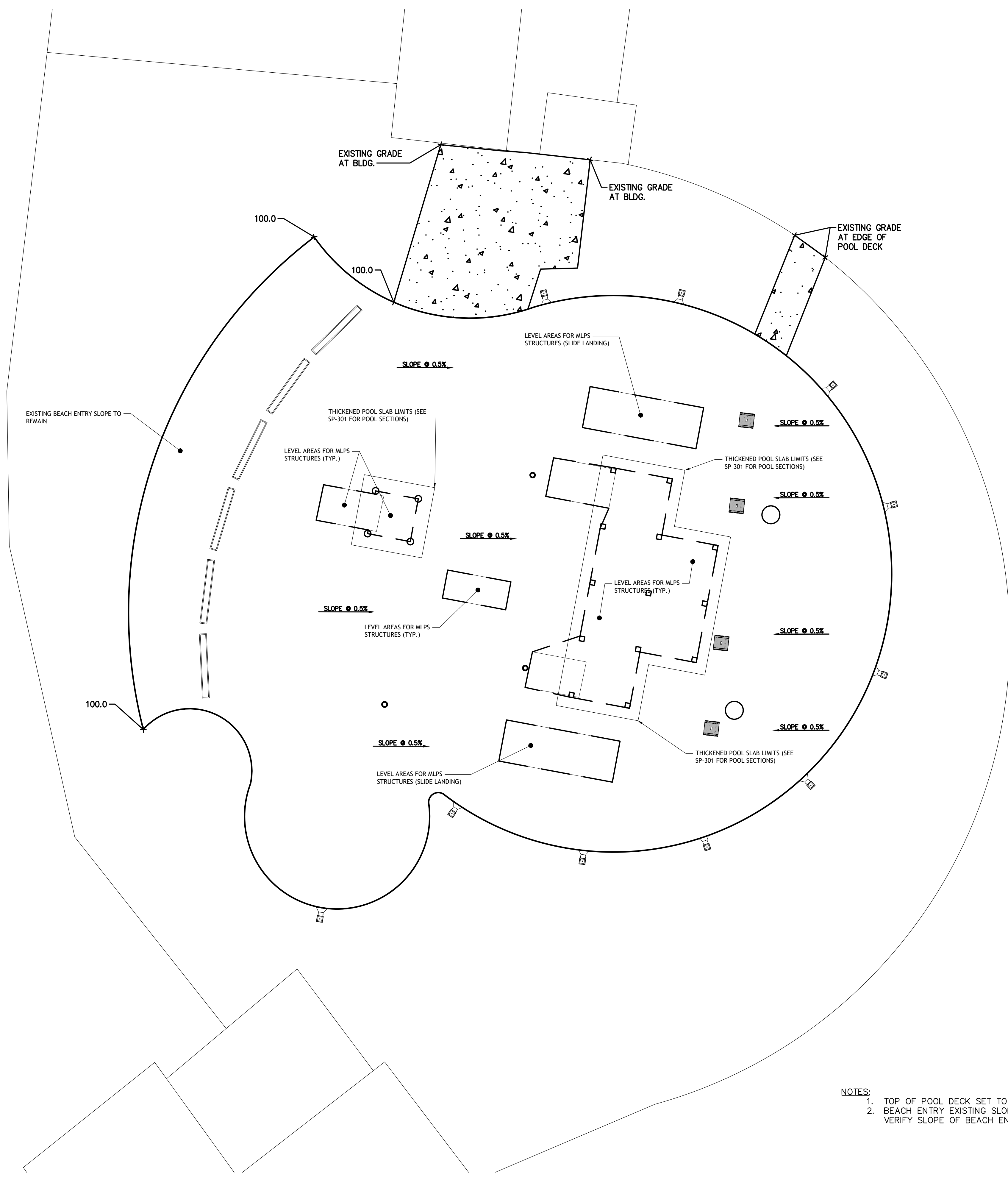
No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
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SHEET TITLE

**POOL DECK & FLOOR GRADING PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**C-300**  
 Sheet XX of XX



- NOTES:**
1. TOP OF POOL DECK SET TO ASSUMED ELEVATION 100.0
  2. BEACH ENTRY EXISTING SLOPE TO BE MAINTAINED. CONTRACTOR TO VERIFY SLOPE OF BEACH ENTRY AND ADJUST GRADES AS NEEDED.

**1 POOL DECK & FLOOR GRADING PLAN**  
 SCALE: 1/8" = 1'-0"

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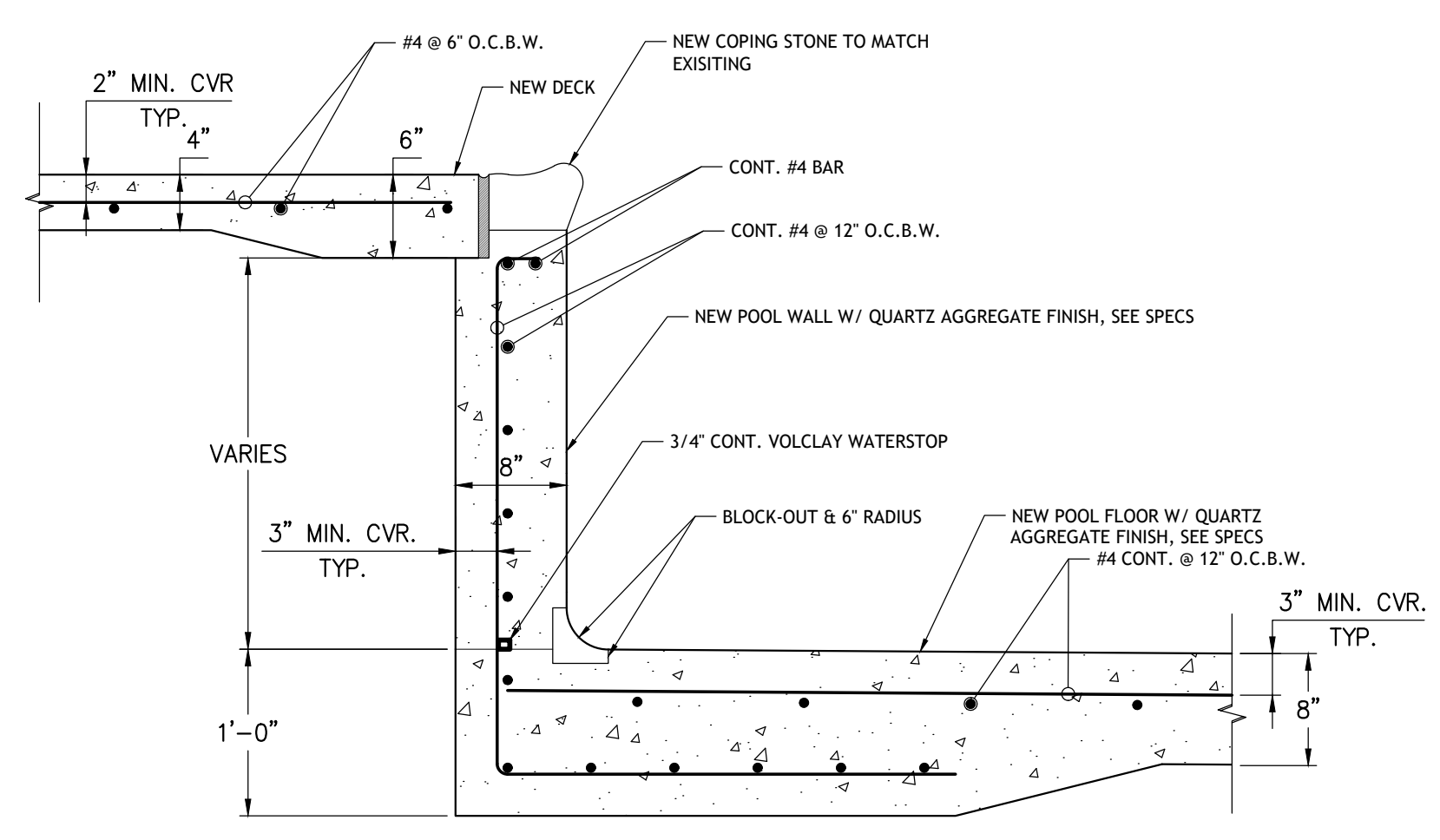
No.	Submittal / Revision	Appr	By	Date
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3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE

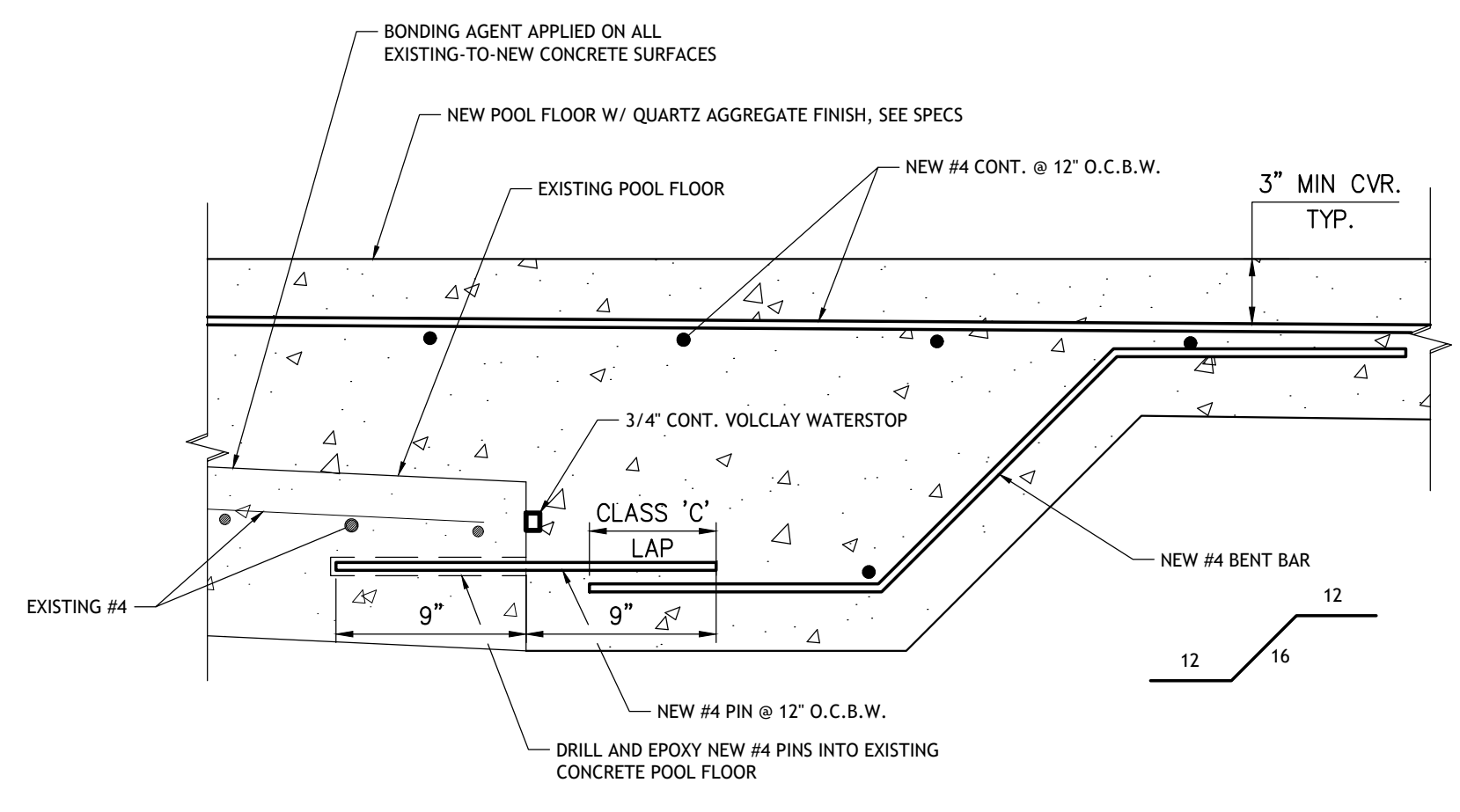
**MLPS POOL SECTIONS**

Designed By:	Drawn By:	Checked By:
MC	RS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN

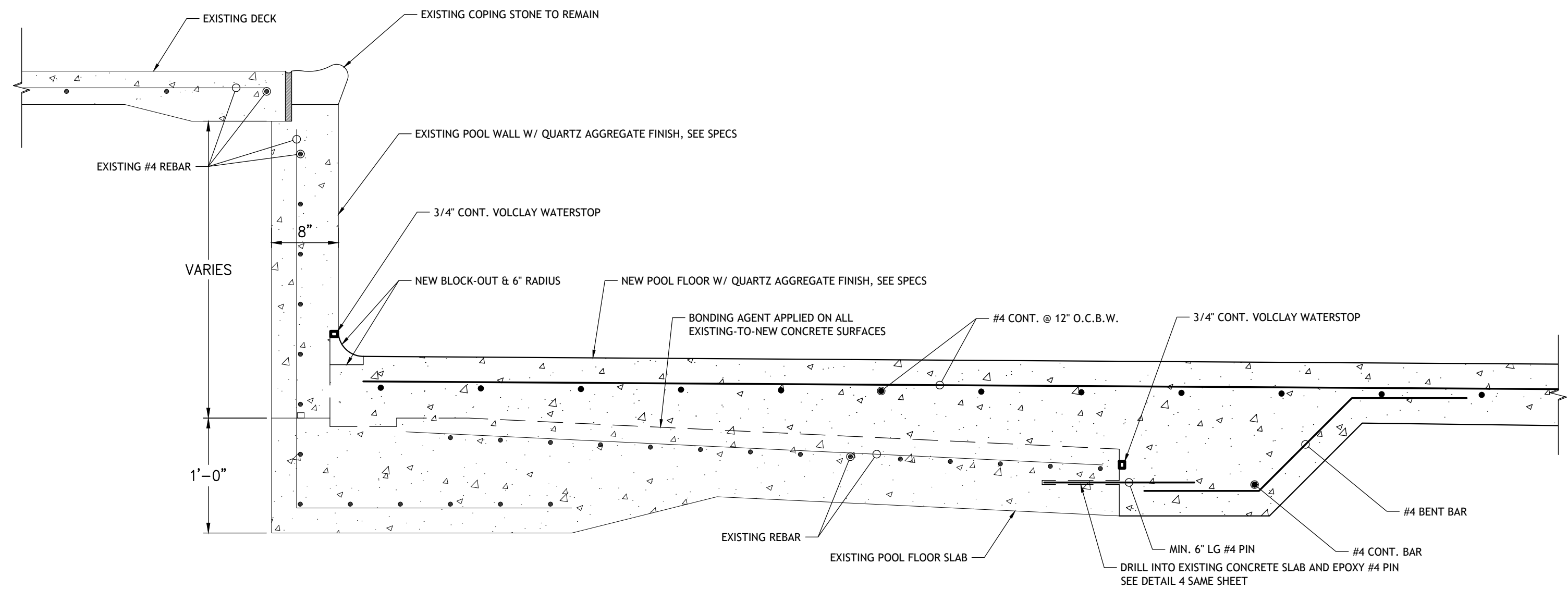
Drawing No.:  
**SP-301**  
 Sheet XX of XX



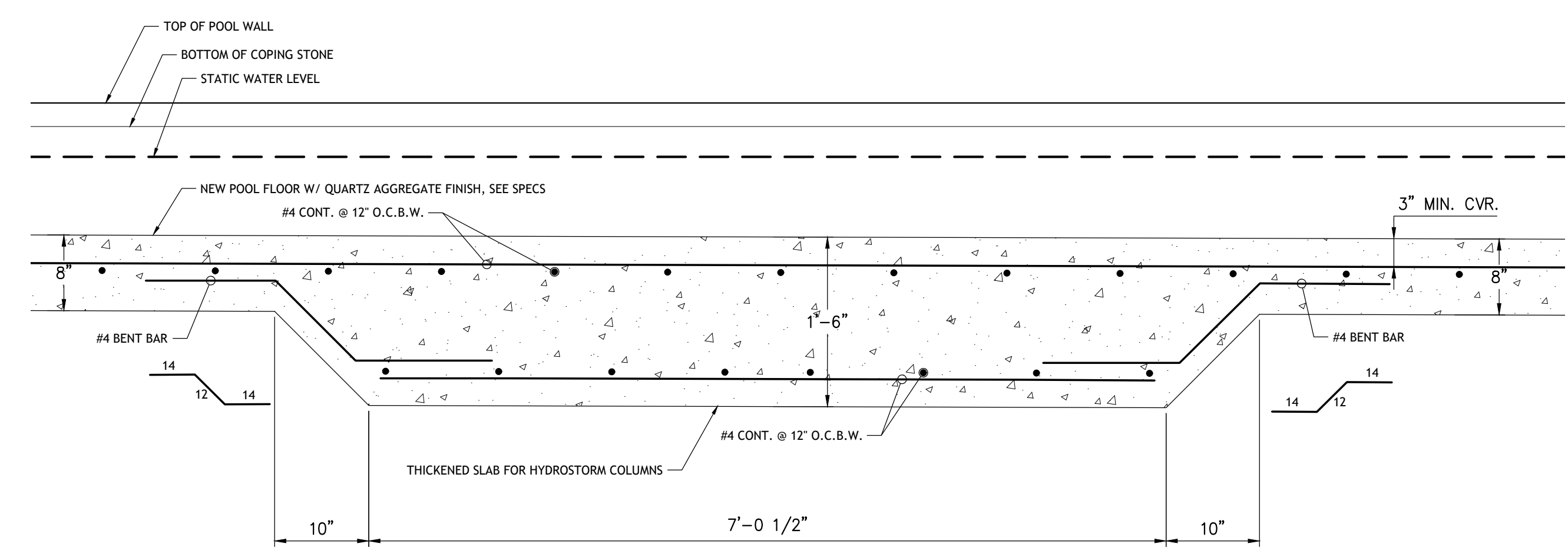
**5** POOL FLOOR/WALL SECTION @ TRENCH  
 SCALE: 1" = 1'-0"



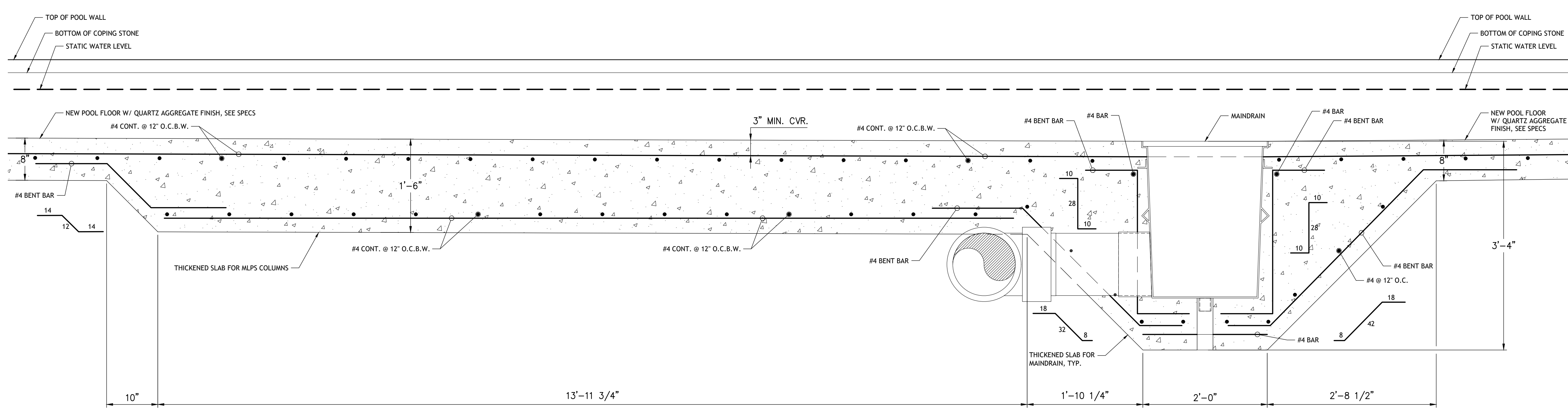
**4** EXISTING-TO-NEW POOL FLOOR DETAIL  
 SCALE: 1" = 1'-0"



**3** TYPICAL POOL FLOOR/WALL SECTION  
 SCALE: 1" = 1'-0"



**2** HYDROSTORM THICKENED SLAB DETAIL  
 SCALE: 1" = 1'-0"

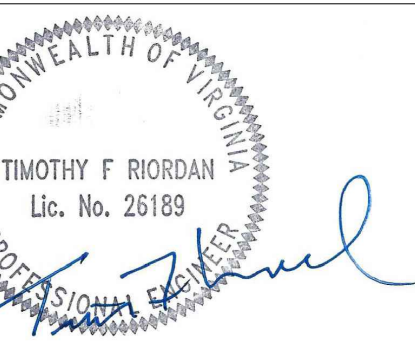


**1** MLPS & MAINDRAIN THICKENED SLAB DETAIL  
 SCALE: 1" = 1'-0"

File: V:\PROJECTS\ANY\09172\0009 - DESIGN\DRAWINGS\01 - SHEETS\SP-301 - MLPS POOL SECTIONS.DWG  
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 5400 OX ROAD  
 FAIRFAX, VA 22039



Date: 7/8/2025  
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**MLPS & Pool Renovation**  
 Volcano Island Waterpark  
 Algonkian Regional Park

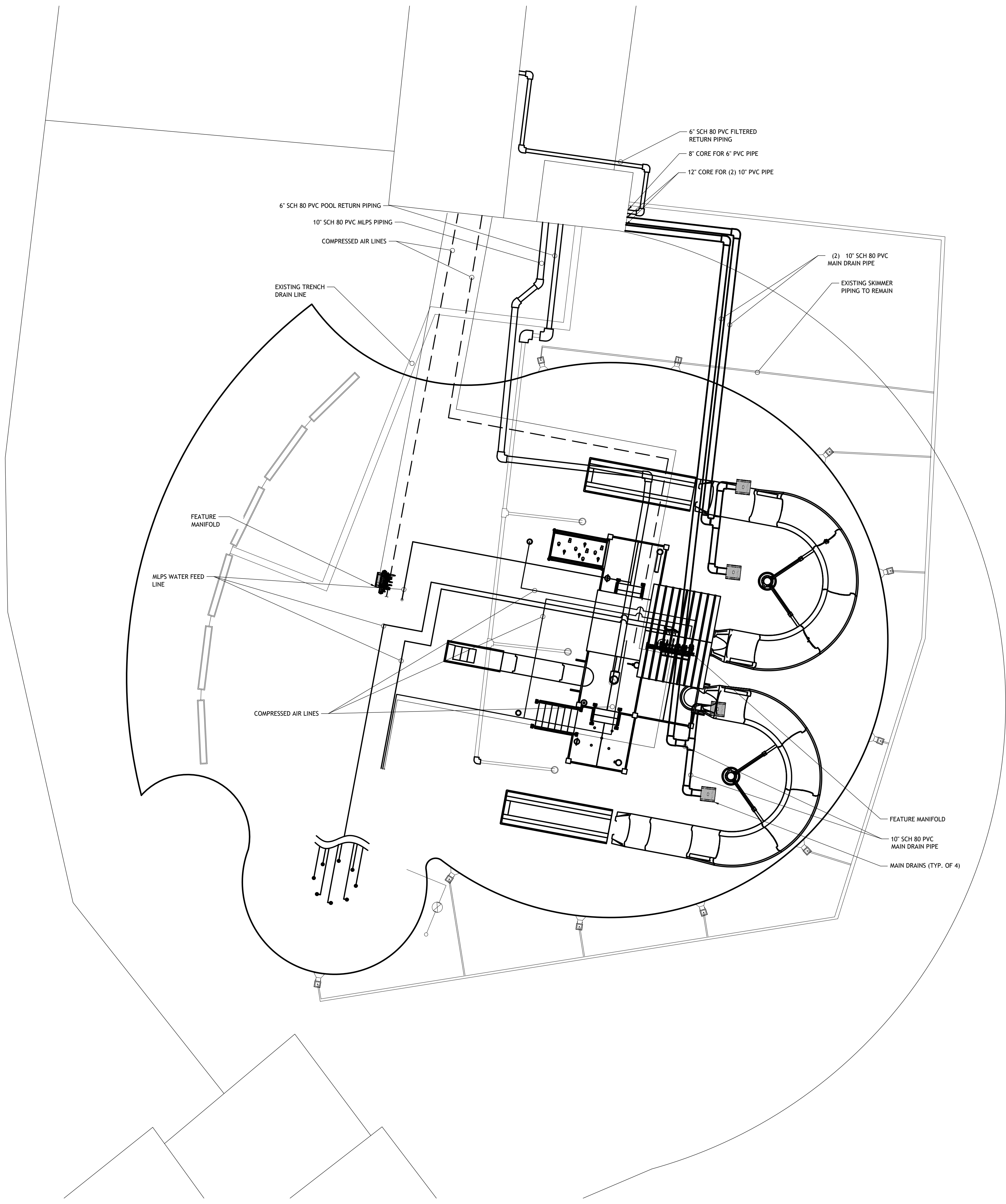
No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

**SHEET TITLE**  
**MLPS POOL PIPING PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**SP-400**  
 Sheet XX of XX

FEATURE FLOW REQUIREMENTS				
MARK	QTY	COMPONENT	FLOW PER UNIT (GPM)	TOTAL FLOW (GPM)
01	2	POWERED WATER BLASTER	30	60
02	2	ELEVATED BLASTER	30	60
03	2	LOOSE HOSE	30	60
04	1	SPIDER SPRAYER	20	20
05	1	UMBRELLA SPRAYER	20	20
06	2	DETONATOR	0	0
07	2	DEPTH CHARGE	0	0
08	1	DECK BUBBLER	40	40
09	1	DOWN JETS	40	40
10	1	ARCH JETS	40	40
11	1	ACTIVATION STATION	0	0
12	1	MILE HIGH GEYSER	50	50
13	1	500 HYDRO STORM	300	300
14	8	FOUNTAINS	20	160
15	2	BODYSLIDE	200	400
		<b>TOTAL</b>		<b>1250</b>
		<b>USAGE FACTOR</b>	<b>80%</b>	<b>1000</b>



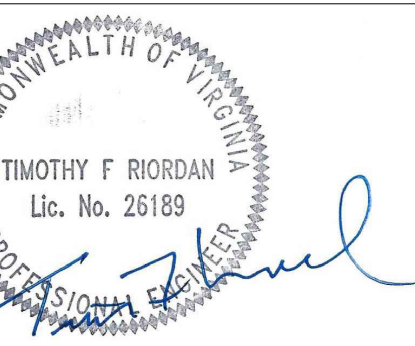
**1 PROPOSED POOL PIPING PLAN**  
 SCALE: 1/8" = 1'-0"

- NOTES:**
- SEE VENDOR DRAWINGS FOR MLPS ANCHOR & FEATURE SCHEDULE
  - EXISTING TRENCH DRAINS, SKIMMERS, MAINDRAINS AND CONNECTED FITTINGS/PIPING TO REMAIN UNLESS SPECIFIED.
  - REMOVAL/ABANDONMENT OF EXISTING FILTERED WATER RETURN PIPING TO BE APPROVED BY ENGINEER

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 Last Saved By: 2493



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**MLPS & Pool Renovation**  
**Volcano Island Waterpark**  
**Algonkian Regional Park**

No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

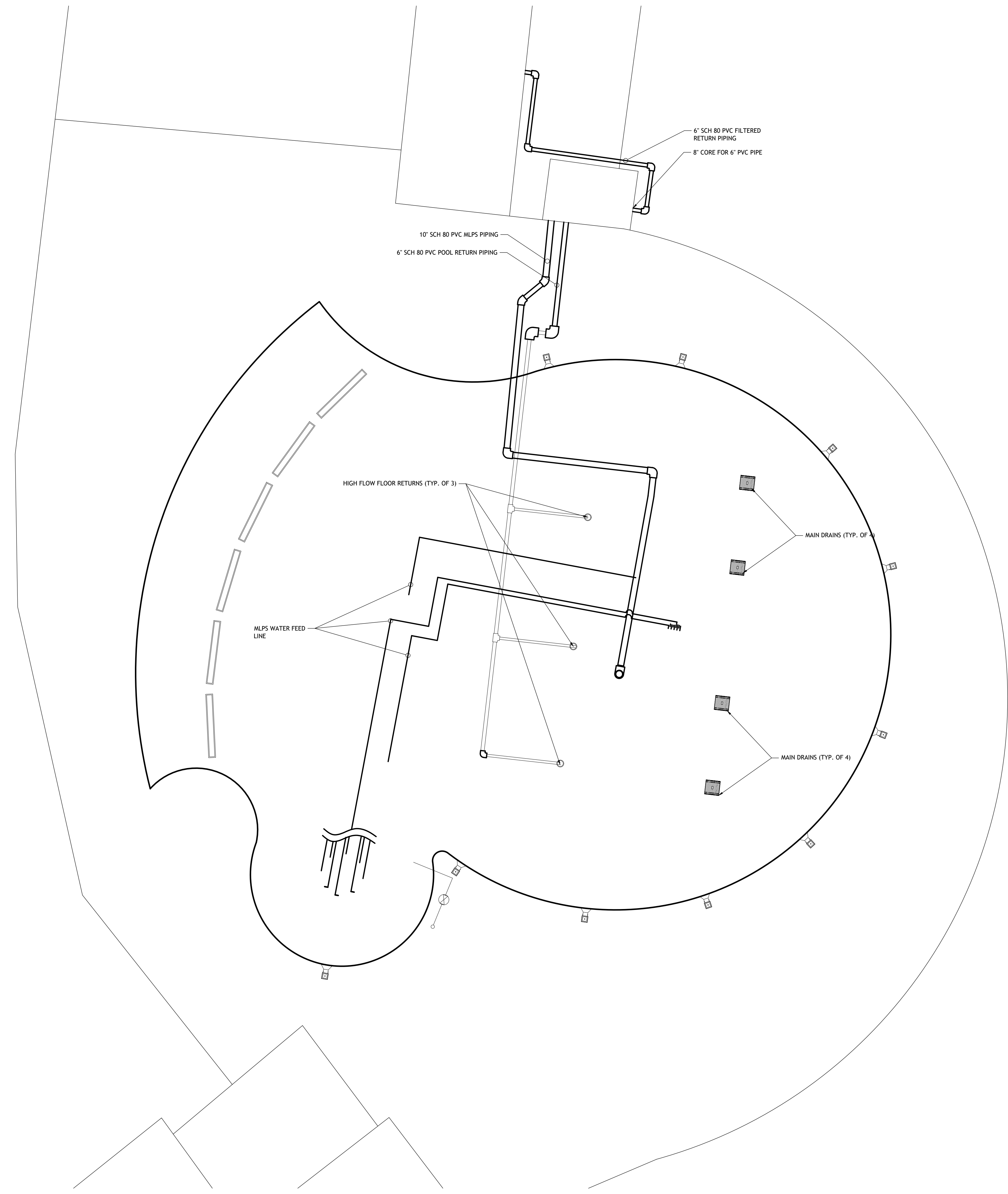
SHEET TITLE  
**MLPS POOL RETURN PIPING PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**SP-401**  
 Sheet XX of XX

FEATURE FLOW REQUIREMENTS				
MARK	QTY	COMPONENT	FLOW PER UNIT (GPM)	TOTAL FLOW (GPM)
01	2	POWERED WATER BLASTER	30	60
02	2	ELEVATED BLASTER	30	60
03	2	LOOSE HOSE	30	60
04	1	SPIDER SPRAYER	20	20
05	1	UMBRELLA SPRAYER	20	20
06	2	DETONATOR	0	0
07	2	DEPTH CHARGE	0	0
08	1	DECK BUBBLER	40	40
09	1	DOWN JETS	40	40
10	1	ARCH JETS	40	40
11	1	ACTIVATION STATION	0	0
12	1	MILE HIGH GEYSER	50	50
13	1	500 HYDRO STORM	300	300
14	8	FOUNTAINS	20	160
15	2	BODYSLIDE	200	400
		<b>TOTAL</b>		<b>1250</b>
		USAGE FACTOR	80%	1000

NOTES:  
 - TABLE IS FOR REFERENCE USE ONLY  
 - FLOWS MAY NOT BE INDICATIVE OF ACTUAL OR INTENDED FLOW



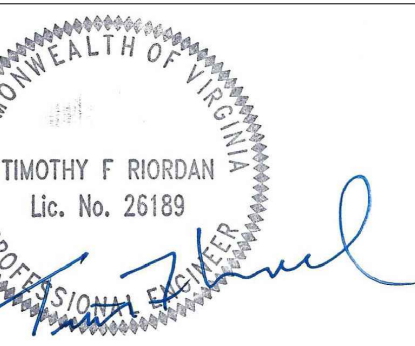
**1** PROPOSED POOL PIPING PLAN  
 SCALE: 1/8" = 1'-0"

- NOTES:
- SEE VENDOR DRAWINGS FOR MLPS ANCHOR & FEATURE SCHEDULE
  - EXISTING TRENCH DRAINS, SKIMMERS, MAINDRAINS AND CONNECTED FITTINGS/PIPING TO REMAIN UNLESS SPECIFIED.
  - REMOVAL/ABANDONMENT OF EXISTING FILTERED WATER RETURN PIPING TO BE APPROVED BY ENGINEER

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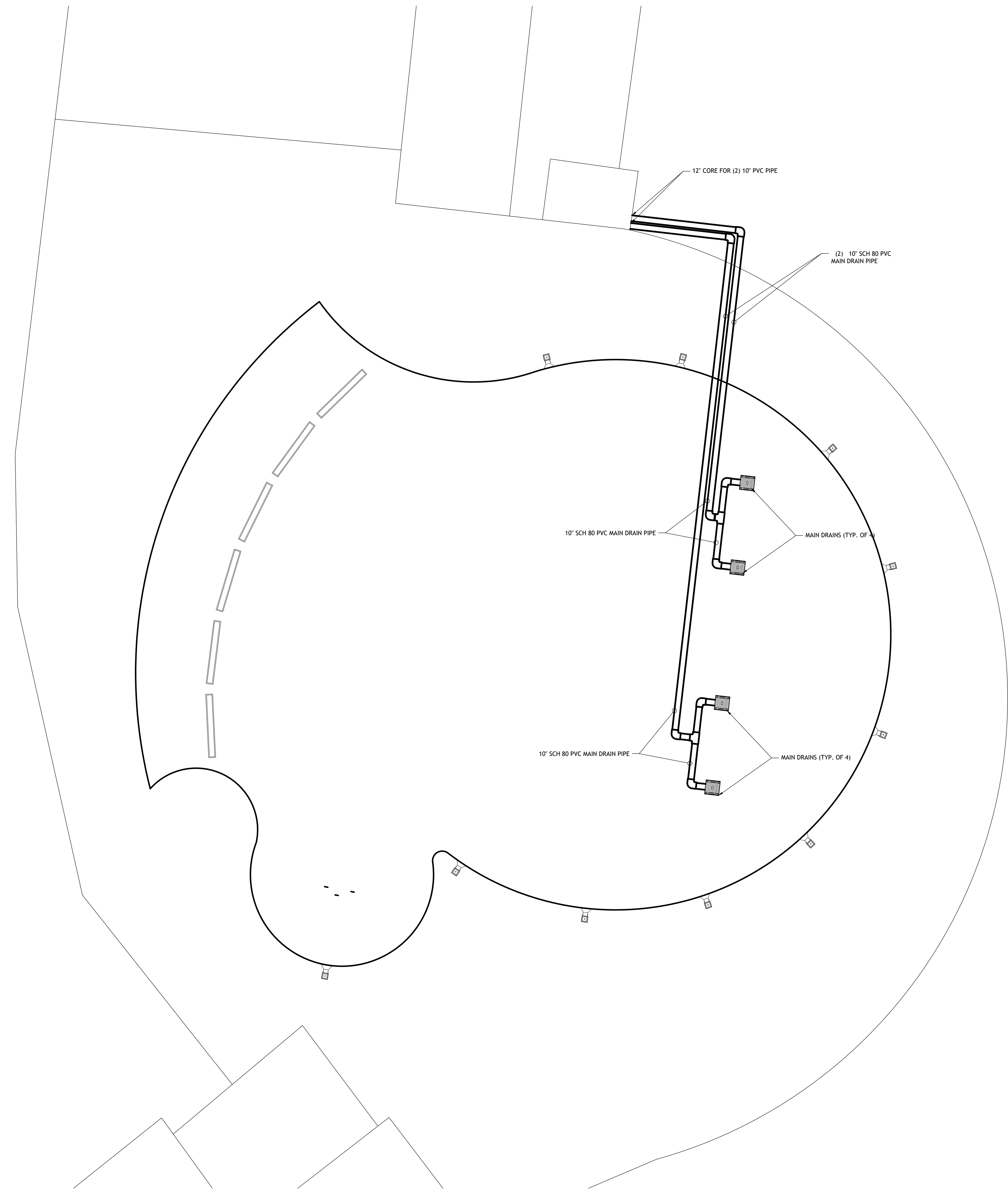
**MLPS & Pool Renovation  
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No.	Submittal / Revision	Appr	By	Date
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2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

**SHEET TITLE**  
**MLPS POOL MAIN DRAIN PIPING PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

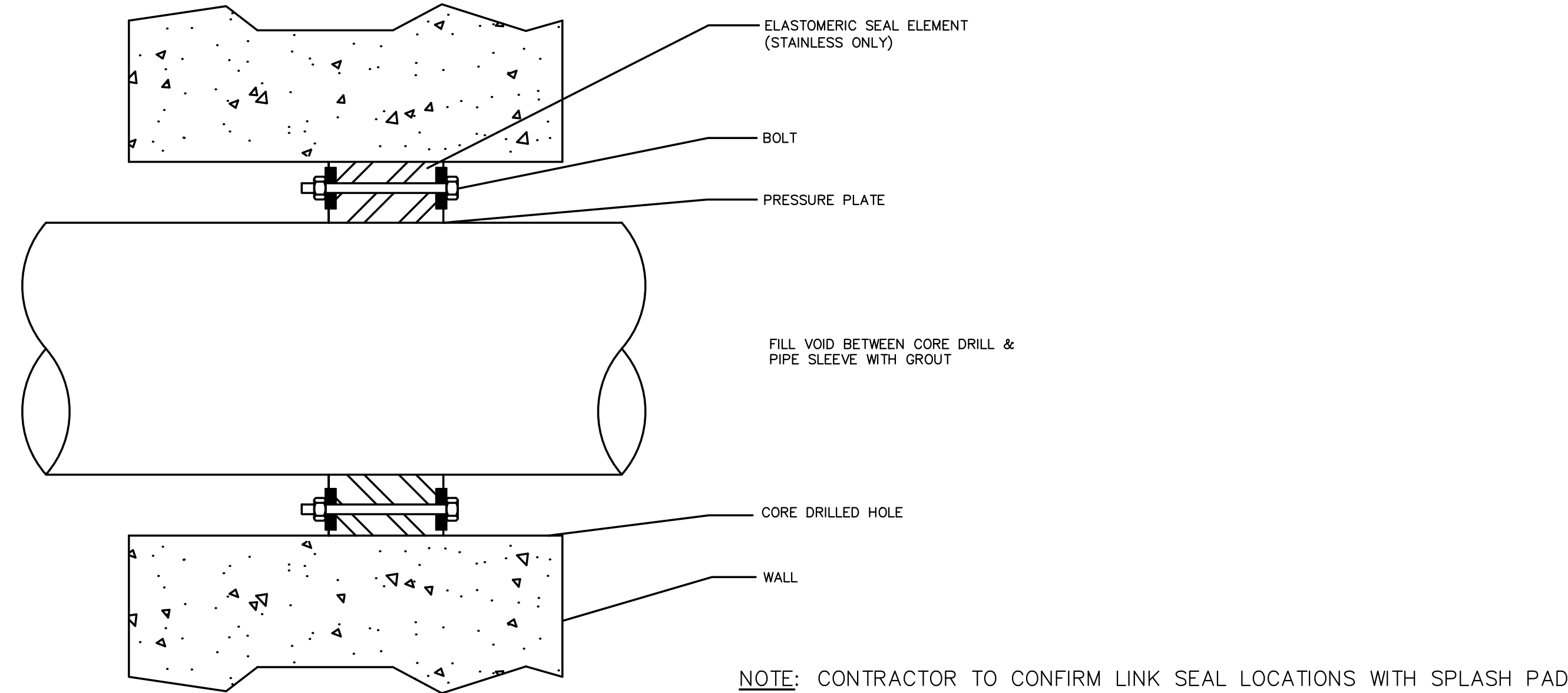
Drawing No.:  
**SP-402**  
 Sheet XX of XX



**1 POOL MAIN DRAIN PIPING PLAN**  
 SCALE: 1/8" = 1'-0"

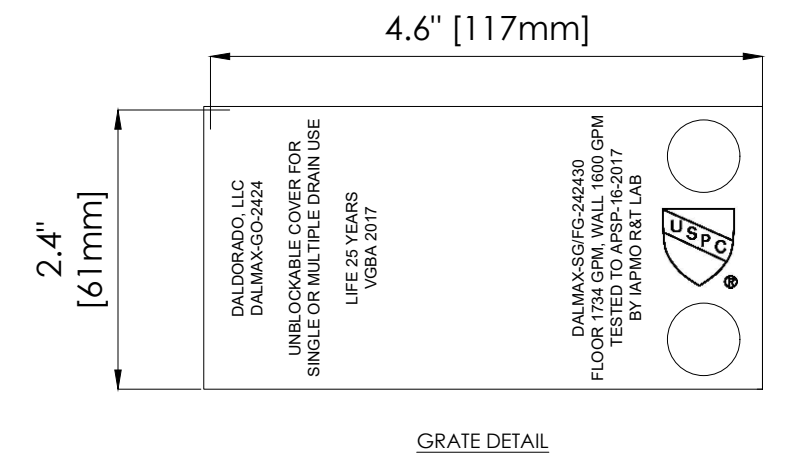
- NOTES:**
- SEE VENDOR DRAWINGS FOR MLPS ANCHOR & FEATURE SCHEDULE
  - EXISTING TRENCH DRAINS, SKIMMERS, MAINDRAINS AND CONNECTED FITTINGS/PIPING TO REMAIN UNLESS SPECIFIED.
  - REMOVAL/ABANDONMENT OF EXISTING FILTERED WATER RETURN PIPING TO BE APPROVED BY ENGINEER

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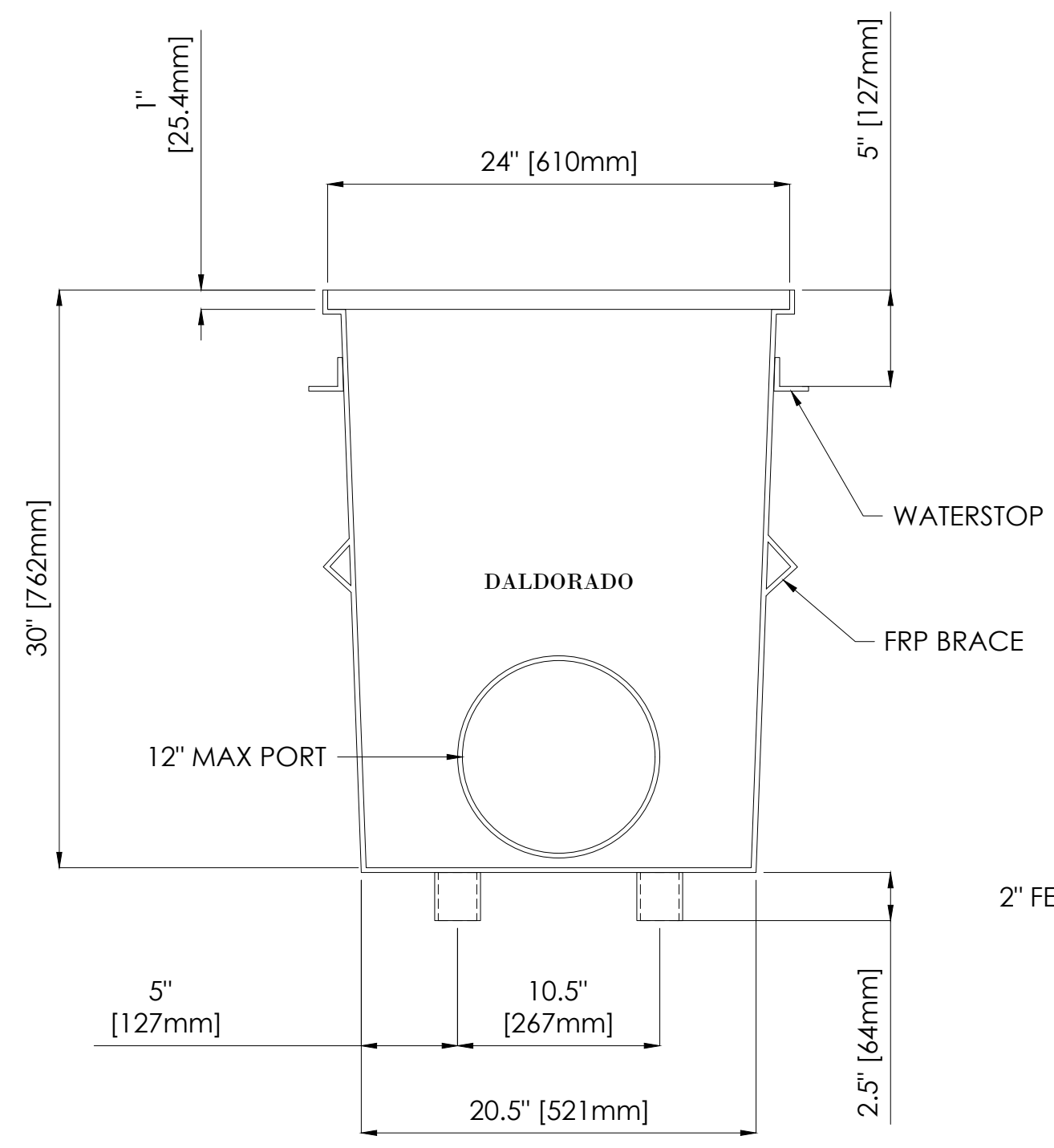
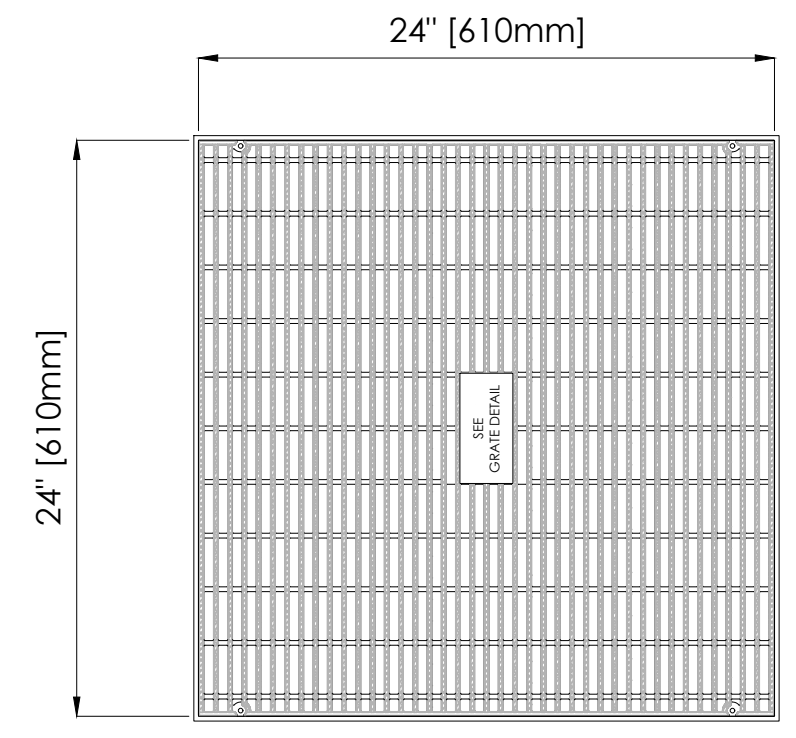
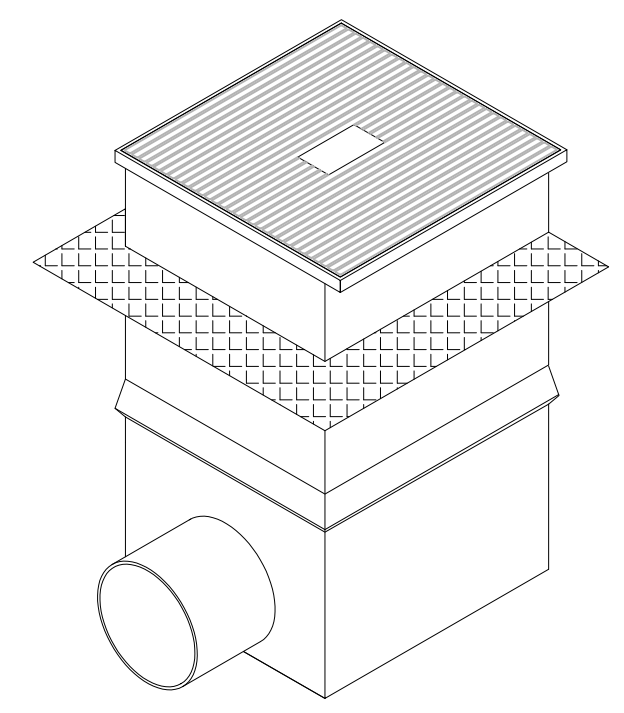


NOTE: CONTRACTOR TO CONFIRM LINK SEAL LOCATIONS WITH SPLASH PAD PIPING INSTALLATION.  
 LINK-SEAL® MODULAR SEALS WITH CAST OR CORE DRILLED WALL OPENING MANUFACTURED BY PIPELINE SEAL & INSULATOR, INC.

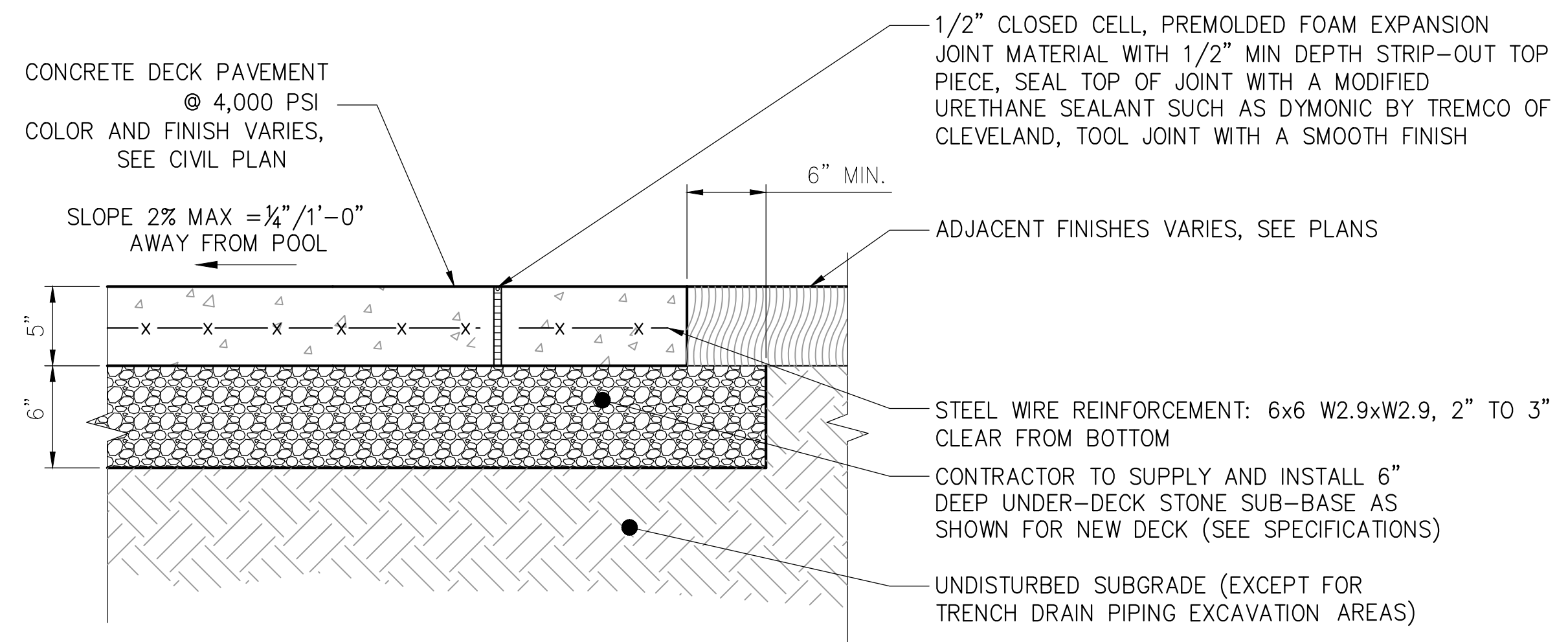
**4 PIPE WALL SLEEVE DETAIL**  
 SCALE: N.T.S.



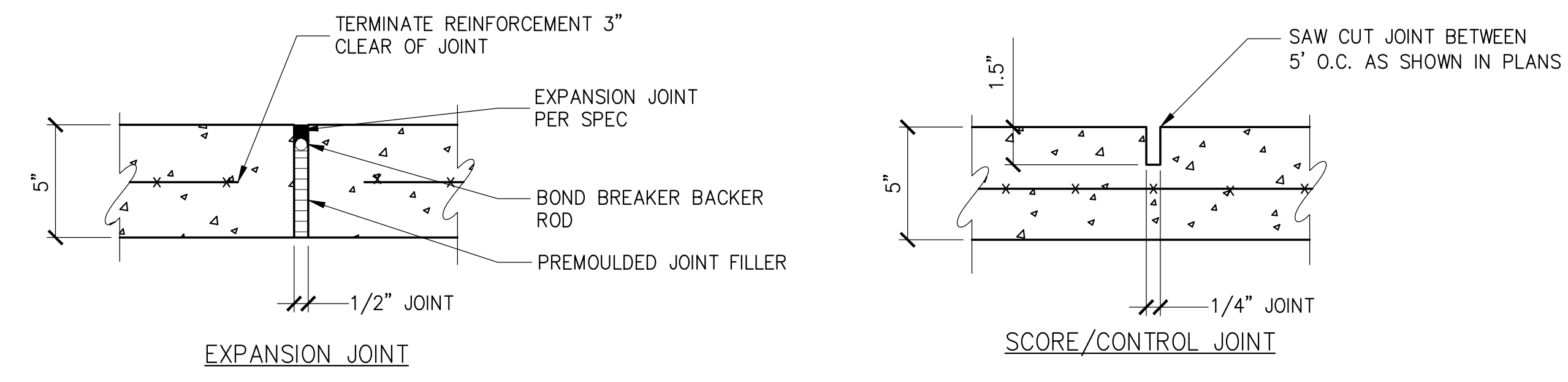
NOTES:  
 1. (1) HYDROSTATIC VALVE PER MAINDRAIN TO BE INSTALLED BY CONTRACTOR IF GROUND WATER IS FOUND DURING EXCAVATION.



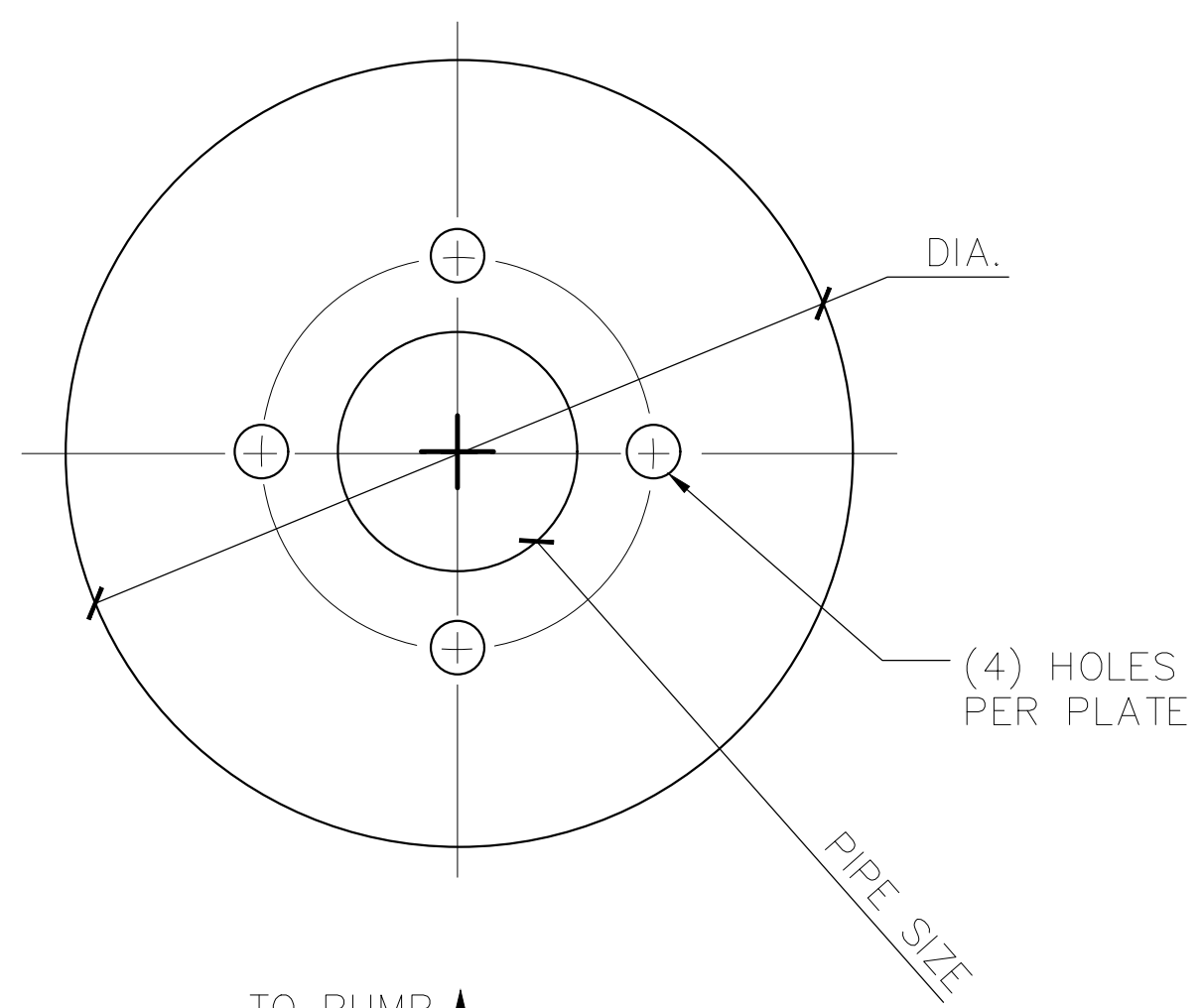
**2 24X24X30 MAIN DRAIN SUMP & GRATE**  
 SCALE: 1/8" = 1'-0"



NOTES:  
 1. CONCRETE DECK CONSTRUCTION SHALL FALL UNDER THE GENERAL CONSTRUCTION CONTRACT.  
 2. PLEASE REFER TO SHEET C-200 FOR DECK LAYOUT PLAN FOR ALL CONCRETE EXPANSION AND CONTROL LOCATIONS. EXPANSION JOINT TO EXPANSION JOINT DISTANCE SHALL BE 20' MAX BETWEEN JOINTS. CONTROL JOINT DISTANCES SHALL BE 5' PER PLANS. SEE SHEET C-201 FOR DECK GRADING AND DRAINAGE PLAN.

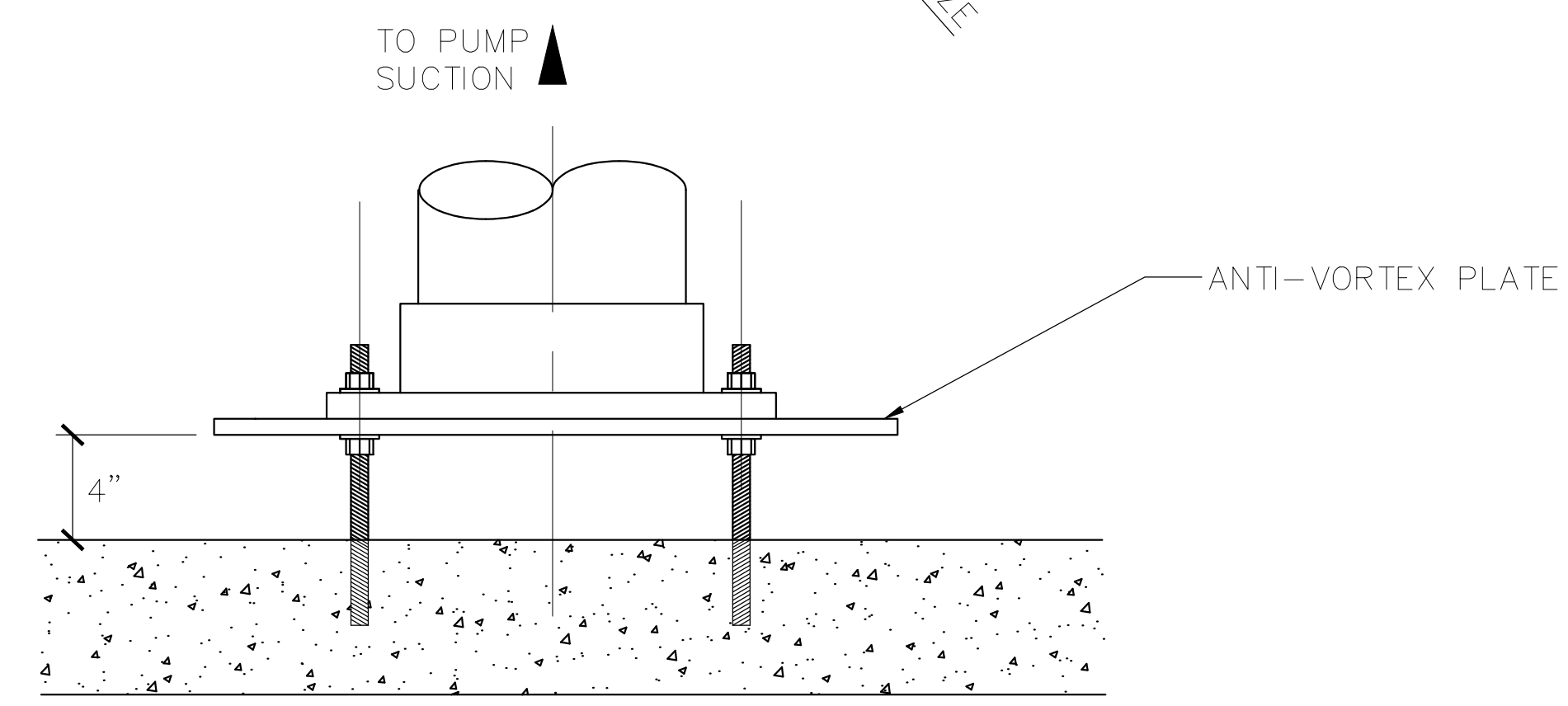


**3 CONCRETE POOL DECK**  
 NOT TO SCALE



DIMENSIONS				PART #
QTY	PIPE SIZE	PLATE DIA.	BOLT SIZE	PVC PLATE
(1)	6"	16"	5/8"	AVPLATE6PVCKIT
(1)	10"	24"	3/4"	AVPLATE8PVCKIT

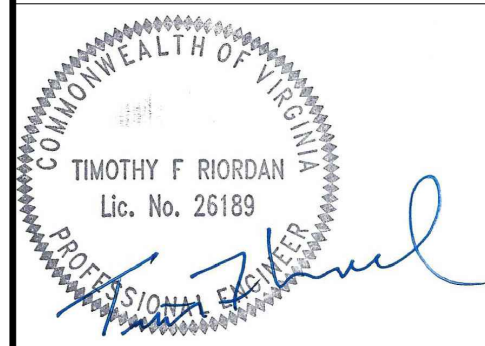
NOTES:  
 1. PLATE DIAMETER MAY VARY DEPENDING ON REQUIRED SUCTION FLOW.  
 2. A.V. PLATES SHALL BE SUPPLIED BY NEPTUNE BENSON INC. OR APPROVED EQUAL.  
 3. CONTRACTOR SHALL INSTALL A.V. PLATE ON FILTER PUMP AND FEATURE PUMP SUCTION PIPE TERMINATIONS IN BALANCE TANK.  
 5. QTY = (2) PLATES TO BE FURNISHED & INSTALLED.



**1 ANTI-VORTEX PLATE DETAIL**  
 SCALE: N.T.S.



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MLPS & Pool Renovation  
 Volcano Island Waterpark  
 Algonkian Regional Park

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3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE

**AQUATIC DETAILS**

Designed By:	Drawn By:	Checked By:
MC	RS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN

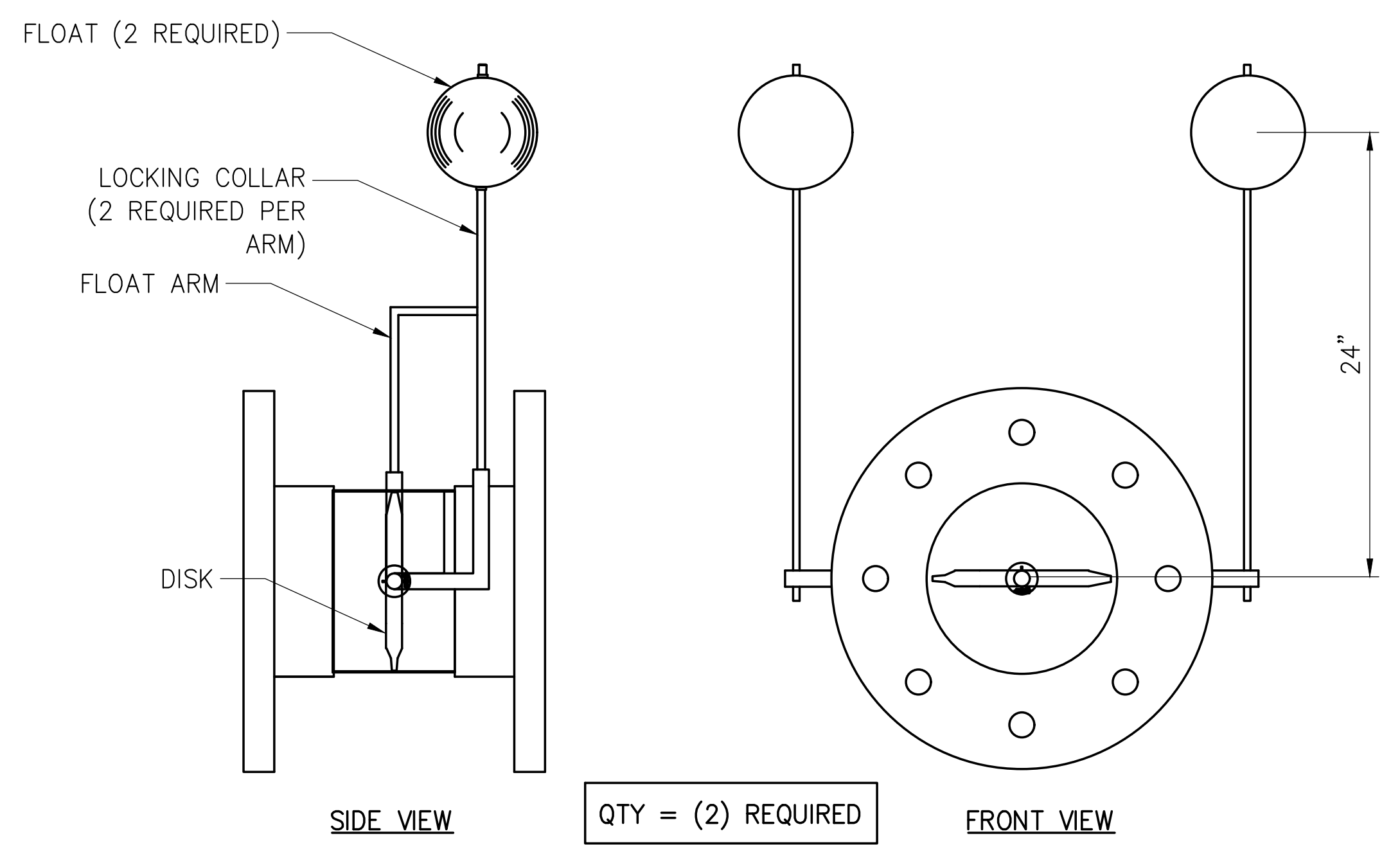
Drawing No.:  
**SP-500**  
 Sheet XX of XX

No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE

**AQUATIC DETAILS**

Designed By:	Drawn By:	Checked By:
MC	RS	MC
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN



- NOTES:**
1. MODULATING VALVES SHALL BE 10" VERTICAL TYPE WITH DUAL/DOUBLE FLOAT ARMS WITH EXTRA WEIGHTED FLOAT BALLS.
  2. VALVE TO BE MANUFACTURED BY MERMADE OR APPROVED EQUAL.
  3. ALL METALLIC COMPONENTS TO BE STAINLESS STEEL.
  4. POOL CONTRACTOR SHALL PROVIDE ALL NECESSARY FLANGED CONNECTIONS FOR A COMPLETE INSTALLATION.
  5. THE MODULATING VALVES IN THE FULLY CLOSED POSITION SHALL ALLOW A SMALL PERCENTAGE OF FLOW THROUGH. THIS MAY REQUIRE CUSTOMIZATION OF VALVE DISK. CONSULT WITH MANUFACTURER.

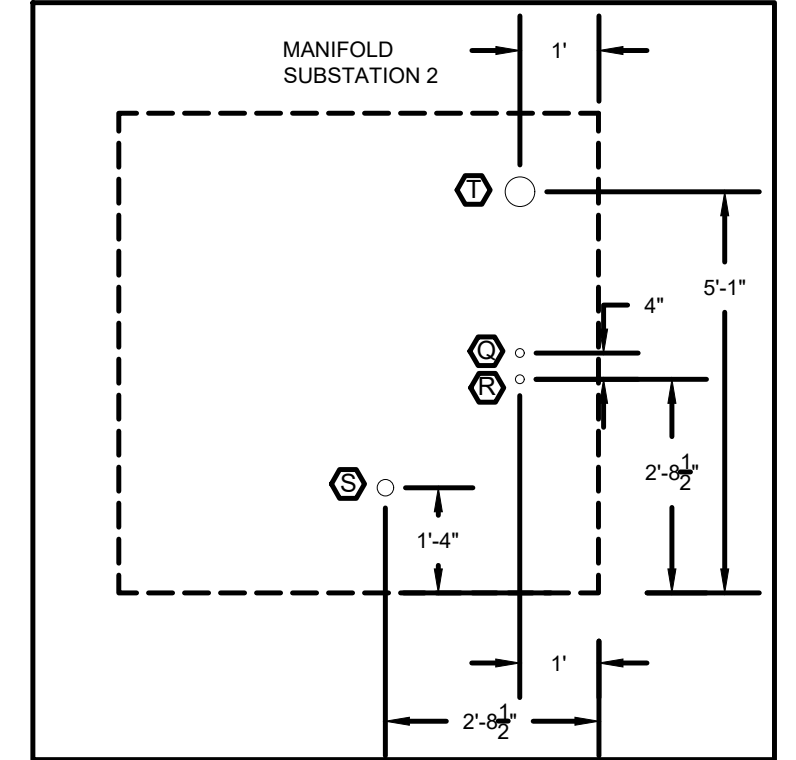
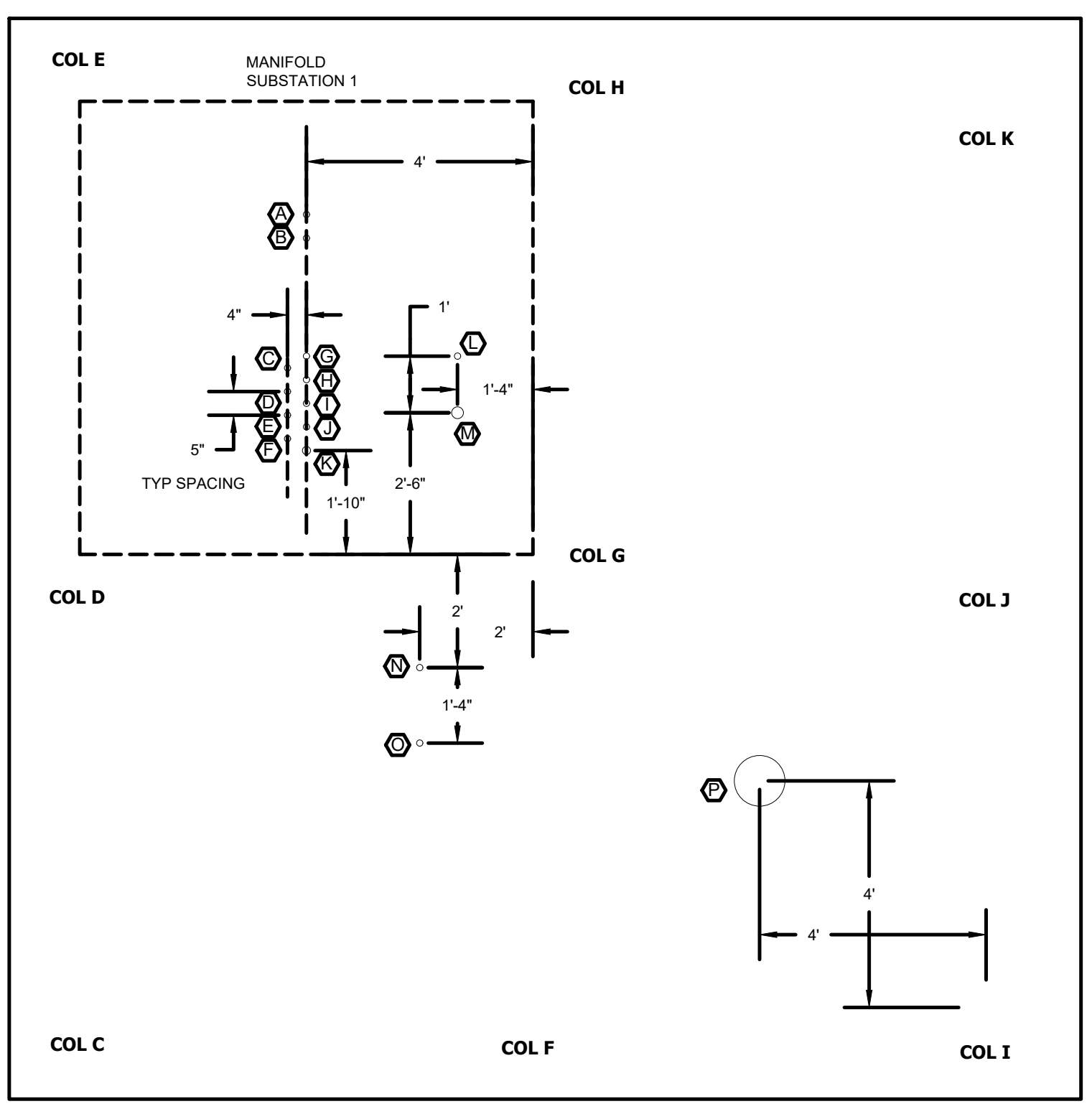
**2 MODULATING FLOAT VALVE DETAIL**  
 SCALE: N.T.S.

**MANIFOLD SUBSTATION 1 STUB-UP DETAIL**

- Ⓐ 1/2" PEX AIR TO DC 1
- Ⓑ 1/2" PEX AIR TO DC 2
- Ⓒ 1/2" PVC WATER TO FOUNTAIN
- Ⓓ 1/2" PVC WATER TO FOUNTAIN
- Ⓔ 1/2" PVC WATER TO FOUNTAIN
- Ⓕ 1/2" PVC WATER TO FOUNTAIN
- Ⓖ 1/2" PVC WATER TO FOUNTAIN
- Ⓗ 1/2" PVC WATER TO FOUNTAIN
- Ⓘ 1/2" PVC WATER TO FOUNTAIN
- Ⓚ 1/2" PVC WATER TO FOUNTAIN
- Ⓛ 1" PVC WATER TO MHG
- Ⓜ 2" PVC ELECT CONDUIT TO MHG
- Ⓝ 1/2" PEX AIR FROM MECHANICAL ROOM
- Ⓞ 1/2" PEX AIR FROM MECHANICAL ROOM
- Ⓟ 1/2" PEX AIR TO MHG
- Ⓣ 10" MAIN WATER IN FROM FEATURE PUMP

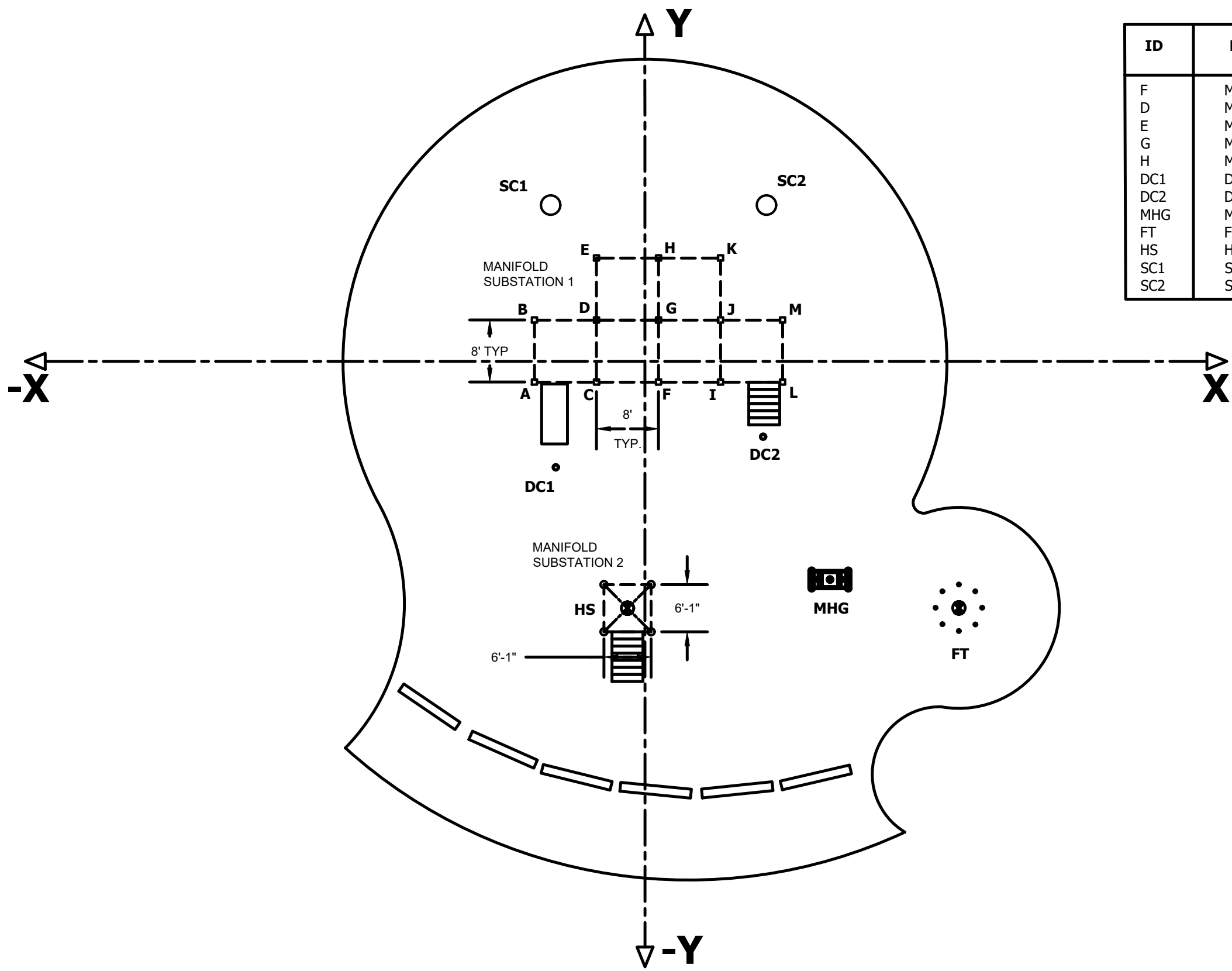
**MANIFOLD SUBSTATION 2 STUB-UP DETAIL**

- Ⓝ 1/2" PEX AIR FROM MECHANICAL ROOM
- Ⓞ 1/2" PEX AIR FROM MECHANICAL ROOM
- Ⓟ 1/2" PEX AIR TO MHG
- Ⓣ 4" MAIN WATER IN FROM FEATURE PUMP



**3 MLPS & FEATURE STUB-UP LAYOUT**  
 SCALE: N.T.S.

ID	PLAY FEATURE	X DIRECTION	Y DIRECTION
F	MLPS COL F	1' 9"	-2' 8"
D	MLPS COL D	-6' 3"	13' 4"
E	MLPS COL E	-6' 3"	8' 4"
G	MLPS COL G	1' 9"	8' 4"
H	MLPS COL H	1' 9"	13' 4"
DC1	DEPTH CHARGE 1	-11' 6"	-13' 8"
DC2	DEPTH CHARGE 2	15' 3"	-9' 9"
MHG	MILE HIGH GEYSER	23' 7"	-28' 2"
FT	FOUNTAIN CENTER A/C 2		
HS	HYDRO STORM	-2' 3"	-31' 10"
SC1	SLIDE COLUMN 1	-12' 2"	20' 2"
SC2	SLIDE COLUMN 2	15' 8"	20' 2"



**1 MLPS & FEATURE ANCHORING LAYOUT**  
 SCALE: N.T.S.

**GENERAL ELECTRICAL NOTES**

- THESE CONTRACT DOCUMENTS ARE SCHEMATIC IN NATURE AND REPRESENT A COMPLETED PROJECT. MINOR MODIFICATIONS OF WORK SHALL BE PROVIDED BY THE CONTRACTOR TO COMPLY WITH PROJECT REQUIREMENTS AND TO INSTALL A WORKING SYSTEM. LOCATIONS OF DEVICES AND EQUIPMENT SHOW A GENERAL ARRANGEMENT AND/OR INTENDED FUNCTION. ALL COMPONENTS TO BE INSTALLED ARE NOT SHOWN ON ALL DRAWINGS OR DETAILS BUT SHALL BE INCLUDED AS NECESSARY. EXACT LOCATIONS OF CERTAIN EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS MAY BE SHOWN ON THE DRAWINGS SHOWING THAT EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION FOR THAT EQUIPMENT.
- THE CONTRACT SPECIFICATIONS FOR THIS PROJECT ARE AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS AND SHALL BE CONSIDERED PART OF AND COMPLEMENTARY TO THE INFORMATION IN THESE CONTRACT DRAWINGS.
- ALL REFERENCES TO THE CONTRACTOR REFERS TO THE CONTRACTOR OR CONTRACTORS RESPONSIBLE FOR ANY AND ALL WORK SHOWN ON THESE ELECTRICAL CONTRACT DOCUMENTS.
- ALL MATERIAL AND EQUIPMENT SHALL BE LISTED AS APPROPRIATE FOR THE APPLICATION.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR SHOP FABRICATION. REQUIRED CHANGES TO THE WORK AS SHOWN ON THESE CONTRACT DOCUMENTS SHALL BE APPROVED AND ACKNOWLEDGED BY THE DIRECTOR'S REPRESENTATIVE. OTHER TRADES, AND OWNER, IN WRITING, PRIOR TO ANY CONSTRUCTION. BEFORE INSTALLATION OF WORK, THE CONTRACTOR SHALL CHECK FOR ALL REQUIRED CLEARANCES, INCLUDING DOOR SWINGS AND ELEVATIONS, TO AVOID INTERFERENCE WITH OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COORDINATING WITH ALL CONTRACT DOCUMENTS, SHOP DRAWINGS, CONTRACTOR SUBMITTALS AND EQUIPMENT CONTRACT DOCUMENTS.
- COORDINATE THE WORK ON THESE DRAWINGS WITH THE WORK OF ALL OTHER DRAWINGS AND CONTRACTS IN THE AFFECTED AND/OR ADJACENT AREAS. COORDINATE SHUTDOWN OF EXISTING SYSTEMS WITH OWNER AND OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR DISABLING EXISTING SYSTEMS AS REQUIRED AND IS RESPONSIBLE FOR PERFORMING ALL WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF THE LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES AND AGENCIES WITH LAWFUL JURISDICTION.
- PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE CONTRACT DOCUMENTS. ALL CONDUCTORS SHALL BE COPPER UNLESS INDICATED OTHERWISE. ALL FEEDERS, BRANCH CIRCUITS, AND OTHER WIRING SYSTEMS SHALL HAVE A SEPARATE DEDICATED INSULATED GROUND WIRE EXCEPT AS SPECIFICALLY NOTED. ELECTRICALLY CONDUCTIVE MATERIALS ASSOCIATED WITH THE PROJECT SHALL BE CONNECTED TOGETHER IN A MANNER THAT CREATES A PERMANENT, LOW IMPEDANCE PATH FOR GROUND FAULT CURRENT. ALL BRANCH CIRCUITS REQUIRING A NEUTRAL SHALL HAVE SEPARATE DEDICATED FULL SIZE NEUTRAL CONDUCTORS OR AS INDICATED OTHERWISE.
- PROVIDE ELECTRICAL CONNECTION FOR EVERY FIXTURE, ITEM OR ANY EQUIPMENT REQUIRING ANY ELECTRICAL CONNECTION WHICH IS SHOWN ON ANY CONTRACT DRAWING OR NOTED IN TECHNICAL SPECIFICATION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND CONDITIONS FOR WARRANTY AND GUARANTEE. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION READY FOR CONTINUOUS USE.
- EXISTING CIRCUITS, AND DEVICES, WHICH ARE PRESENT OR PASS THROUGH AFFECTED AREAS, SHALL BE MAINTAINED OPERATIONAL, AS REQUIRED, AND AS DIRECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING, IF POSSIBLE, THESE CIRCUITS AND DEVICES. IF DISTURBED, UNLESS OTHERWISE APPROVED CIRCUITS AND DEVICES, SHALL BE REPAIRED, OR REPLACED, AND MADE OPERATIONAL AS SOON AS POSSIBLE AND AT THE CONTRACTOR'S EXPENSE. ALL INTERRUPTIONS TO LIFE SAFETY SYSTEMS INCLUDING MONITORING AND ALARM SYSTEMS SHALL BE KEPT TO A MINIMUM AND SHALL BE RESTORED AS SOON AS POSSIBLE.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY EQUIPMENT OR WORK THAT MAY BE REQUIRED TO BE TEMPORARILY DISCONNECTED, REMOVED AND/OR RELOCATED AS PART OF THE CONTRACTOR'S WORK OR THE WORK OF OTHER TRADES. THE EQUIPMENT SHALL BE PROTECTED FROM DAMAGE. THE CONTRACTOR IS RESPONSIBLE TO RECONNECT AND MAKE ELECTRICALLY OPERATIONAL ALL EQUIPMENT THAT IS DISCONNECTED AND/OR RELOCATED AS PART OF THE WORK.
- ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. ALL WIRING SHALL BE RUN CONCEALED OR IN RACEWAY UNLESS SPECIFIED OTHERWISE.
- ALL RACEWAYS THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS. CUT AND PATCH BUILDING STRUCTURE AS REQUIRED. PROVIDE UL LISTED FIRE STOP METHODS FOR PENETRATIONS OF FIRE-RATED BUILDING COMPONENTS OR BARRIERS PER CONTRACT SPECIFICATIONS. WATERPROOF ALL EXTERIOR OUTDOOR PENETRATIONS.
- ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES. COORDINATE ALL WORK ON EXISTING BUILDING COMPONENTS WITH RESPECTIVE OWNER AND OTHER TRADES.
- CONTRACTORS PERFORMING ELECTRICAL WORK SHALL PROVIDE NECESSARY SUPPORT FRAMING, STIFFENERS, BRACING, AND HANGERS TO ENSURE A COMPLETE AND DURABLE SYSTEM. SUPPORTS MAY VARY FROM THOSE SHOWN IN DETAILS AND AS REQUIRED FOR EQUIPMENT TO BE FURNISHED OR FOR EXISTING FIELD CONDITIONS. DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
- 120/277V, 20A CIRCUITS SHALL BE FED WITH #12AWG CONDUCTORS AND A #12AWG GROUND MINIMUM, UNLESS STATED OTHERWISE. CIRCUITS PROTECTED AT GREATER THAN 20A, UP TO AND INCLUDING 30A, SHALL BE FED WITH #10AWG CONDUCTORS AND A #10AWG GROUND, UNLESS STATED OTHERWISE. CIRCUITS PROTECTED AT GREATER THAN 30A, SHALL BE FED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE AND REGULATIONS, IF NOT INDICATED.
- NOT ALL SYMBOLS AND NOT ALL NOTES ARE USED ON THESE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE SHOWING CHANGES MADE DUE TO FIELD CONDITIONS OR DIRECTOR'S REPRESENTATIVE APPROVED CHANGES. THE RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUESTIONS FOR PAYMENT ARE SUBMITTED. ELECTRONIC

VERSIONS, AS APPROVED BY THE DIRECTOR'S REPRESENTATIVE, ARE ACCEPTABLE.

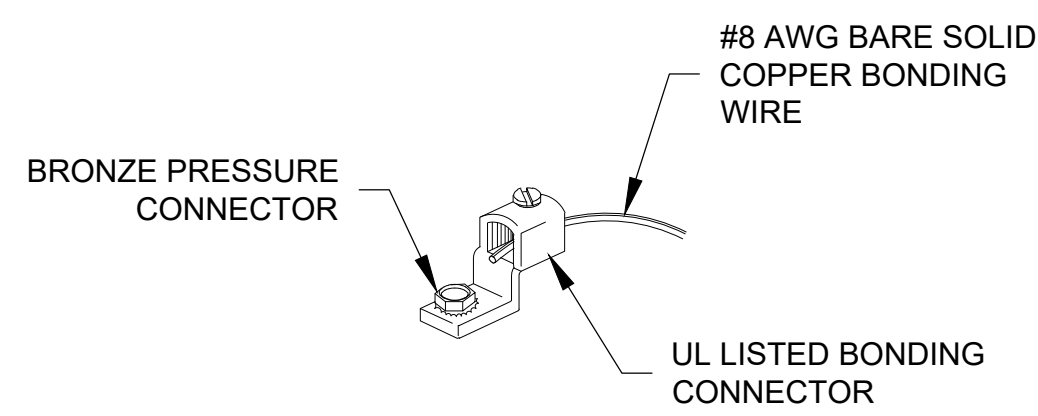
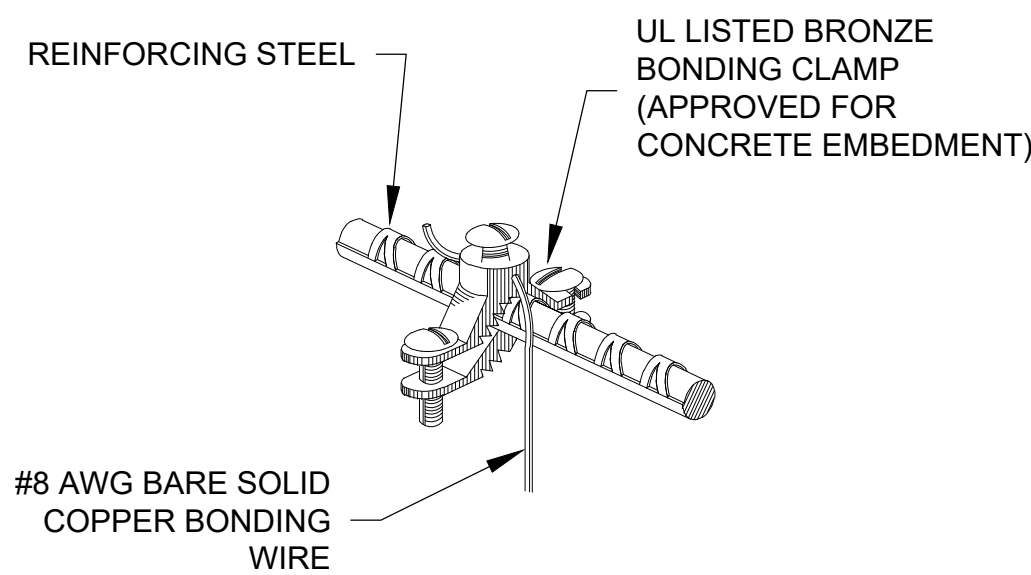
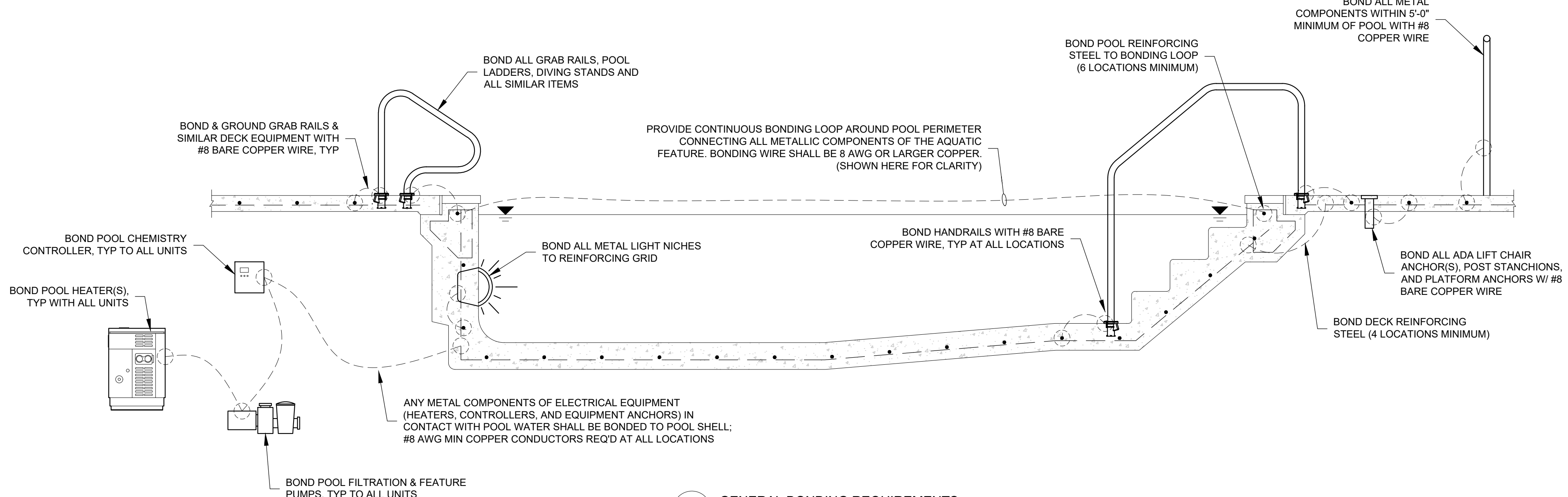
- ALL WORK SHOWN WITHIN THE E-SHEETS SHALL BE COMPLETED BY EITHER THE GENERAL CONTRACTOR OR THE ELECTRICAL CONTRACTOR SEE NOTES 19 & 20.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE ALL ELECTRICAL WORK INSIDE THE EQUIPMENT ROOM.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE ALL ELECTRICAL WORK OUTSIDE OF THE EQUIPMENT ROOM.

**ELECTRICAL SCOPE OF WORK - OUTSIDE OF EQUIPMENT ROOM.**

- ELECTRICAL DEMOLITION - THIS INCLUDES ALL ELECTRICAL DEMO OUTSIDE OF THE EQUIPMENT ROOM.
- WATER MAKEUP CONDUIT (FOR SENSORS).
- GROUNDING / BONDING OF ALL ELECTRICAL AND POOL EQUIPMENT OUTSIDE OFF EQUIPMENT ROOM INCLUDING BUT NOT LIMITED TO ALL NEWLY INSTALLED METALLIC COMPONENTS WITHIN THE KIDDEE POOL AND SLIDE POOL, NEW AND RELOCATED METAL SHADE STRUCTURES, FENCING, WATER FEATURE BONDING, AND SLIDE POOL EQUIPMENT SHED REQUIREMENTS (NEW PUMPS AND RELOCATED ELECTRICAL PANELS).
- ALL EXCAVATION, TRENCHING, BACKFILL AND COMPACTION RELATING TO ELECTRICAL SCOPE (REGARDLESS OF WHERE IT IS REQUIRED).

**ELECTRICAL ABBREVIATIONS**

A	AMPERE(S)	DPS	DOOR POSITION SWITCH	ID	IDENTIFY / IDENTIFICATION	PC	PERSONAL COMPUTER
AC	ALTERNATING CURRENT	DS	DISCONNECT SWITCH	IDF	INTERMEDIATE DISTRIBUTION FRAME	PNL	PANELBOARD
ACP	ACCESS CONTROL PANEL	DWG	DRAWING	IMS	INTERCOM MASTER STATION	POE	POWER OVER ETHERNET SWITCH
AF	AMPERE FRAME / AMPERE FUSE	EA	EACH	ISS	VIDEO INTERCOM SUBSTATION	PR	PAIR
AF/F/G	ABOVE FINISHED FLOOR/GRADE	EC	EMPTY CONDUIT	J-BOX	JUNCTION BOX	PS	POWER SUPPLY
AIC	AMPERE INTERRUPTING CAPACITY	EF	EXHAUST FAN	JCT	JUNCTION	PWR	POWER
AS	AMPERE SWITCH	EL	ELEVATION	KAIC	KILOAMPS INTERRUPTING CAPACITY	PH	PHASE
AT	AMPERE TRIP	ELEC	ELECTRIC / ELECTRICAL	KB	KEYBOARD AND MOUSE	PP	POWER PANEL
ATS	AUTOMATIC TRANSFER SWITCH	ELEV	ELEVATOR	KCML	THOUSAND CIRCULAR MILS	PT	POTENTIAL TRANSFORMER
AUX	AUXILIARY	EMER	EMERGENCY	KVA	KILOVOLT-AMPERE(S)	REM	REMOVE
A/V	AUDIO/VISUAL	EMT	ELECTRICAL METALLIC TUBING	KW	KILOWATT(S)	RCPT	RECEPTACLE
AWG	AMERICAN WIRE GAUGE	ENCL	ENCLOSURE	LTG	LIGHTING	REX	REQUEST TO EXIT
BB	BACKBOARD	EQUIP	EQUIPMENT	L	LONG / LENGTH	RCS	RIGID GALVANIZED STEEL
BCW	BARE COPPER WIRE	ES	ETHERNET SWITCH	LP	LIGHTING PANEL	RM	ROOM
BATT	BATTERY	ETR	EXISTING TO REMAIN	LPS	LIGHTNING PROTECTION SYSTEM	RMC	RIGID METAL CONDUIT
BIU	BIPOLAR IONIZATION UNIT	EWC	ELECTRIC WATER COOLER			RMS	ROOT MEAN SQUARE
BTM	BOTTOM	EWV	ELECTRIC WATER HEATER			RP	RECEPTACLE PANEL
BLDG	BUILDING	EXT	EXTERIOR				
C	CONDUIT	F	FUSE / FUSED	MAX	MAXIMUM	SEC	SECONDARY
CAB	CABINET	FA	FIRE ALARM	MCB	MAIN CIRCUIT BREAKER	SH	SHIELDED
CATV	CABLE TELEVISION	FAAP	FIRE ALARM ANNUNCIATOR PANEL	MC	METAL CLAD	SPKR	SPEAKER
CB	CIRCUIT BREAKER	FACP	FIRE ALARM CONTROL PANEL	MDF	MAIN DISTRIBUTION FRAME	SW	SWITCH
CKT	CIRCUIT	FC	FOOTCANDLE(S)	MDP	MAIN DISTRIBUTION PANEL	TEMP	TEMPORARY / TEMPERATURE
CL	CENTERLINE	FIXT	FIXTURE	MFR	MANUFACTURER	T-STAT	THERMOSTAT
CO	COMPANY	FLR	FLOOR	MECH	MECHANICAL	TB	TERMINAL BOARD
COMM	COMMUNICATIONS	FS	FUSIBLE SWITCH	MIN	MINIMUM	TYP	TYPICAL
CONN	CONNECTION / CONNECT	FT	FOOT / FEET	MLO	MAIN LUG ONLY	UH	UNIT HEATER
CP	CONTROL PANEL	FUT	FUTURE	MON	MONITOR	UON	UNLESS OTHERWISE NOTED
CPP	COPPER PATCH PANEL	G, GND	GROUND	MTD	MOUNTED	UPS	UNINTERRUPTIBLE POWER SUPPLY
CPS	CONTINUOUS POWER SYSTEM	GALV	GALVANIZED	MTG	MOUNTING	V	VOLT(S)
CUH	CABINET UNIT HEATER	GC	GENERAL E.C.	MTR	MOTOR	VA	VOLT-AMPERE(S)
CT	CURRENT TRANSFORMER	GP	GENERAL PURPOSE	N	NEUTRAL, NEW	W	WATT(S) / WIRE(S)
CU	COPPER	GEC	GROUNDING ELECTRODE CONDUCTOR	NEC	NATIONAL ELECTRICAL CODE	W/	WITH
Δ	DELTA (THREE PHASE CONFIG.)	GFI	GROUND FAULT CIRCUIT INTERRUPTER	NFS	NON-FUSIBLE SWITCH	WC	WATER COOLER
D	DEEP / DEPTH	GFP	GROUND FAULT PROTECTION	NL	NIGHT LIGHT	WP	WEATHERPROOF
DB	DECIBEL	HD	HEAVY DUTY	NO. / #	NUMBER	WS	WORKSTATION
DET	DETECTOR	HGT	HEIGHT	NTS	NOT TO SCALE	XFMR	TRANSFORMER
DIA	DIAMETER	HH	HANDHOLE	OC	OVER COUNTER	XP	EXPLOSION PROOF
DISC	DISCONNECT	HOA	HAND-OFF-AUTOMATIC	OFR	OPTICAL FIBER TERMINATION RACK		
DIST	DISTRIBUTION	HP	HORSEPOWER	OHD	OVERHEAD DOOR		
DIV	DIVISION	HPF	HORSEPOWER FACTOR	OL	OVERLOAD		
DN	DOWN	HTR	HEATER	P	POLE(S)		
DO	DOOR OPERATOR	HV	HIGH VOLTAGE	PA	PUBLIC ADDRESS		
DP	DISTRIBUTION PANEL	HZ	HERTZ				



**GENERAL**

⬡	NUMBER IN HEXAGON, WITH OR WITHOUT ARROW OR LEADER; REFER TO MATCHING NUMBERED KEYED NOTE
X XXX	DETAIL CALLOUT
---	INDICATES EXISTING DEVICES OR EQUIPMENT THAT ARE TO BE REMOVED

**RACEWAYS**

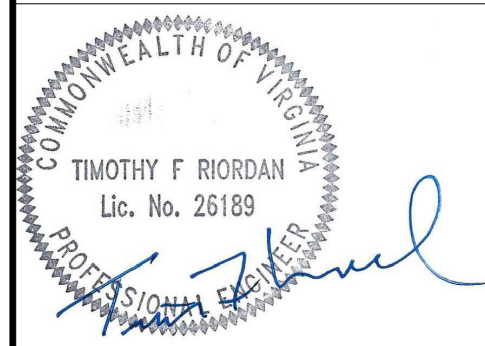
---	CONDUIT CONCEALED OR EXPOSED AS SPECIFIED
○	CONDUIT TURNING UP
●	CONDUIT TURNING DOWN
PP-1 1/3/3	HOMERUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED)
→	CIRCUIT CONTINUED OR CONNECTED TO EQUIPMENT AS INDICATED
---	UNDERGROUND CONDUIT
---	GROUND CONDUCTOR
⊕	GROUNDING CONDUCTOR TERMINATION POINT AT SERVICE EQUIPMENT

**POWER DISTRIBUTION EQUIPMENT**

■	120/208V SURFACE MOUNTED ELECTRICAL PANELBOARD. SEE PANELBOARD SCHEDULES & SPECIFICATION FOR REQUIREMENTS.
\$M	DISCONNECT SWITCH, TOGGLE TYPE, MOTOR RATED WITH POLES AND CURRENT RATINGS AS REQUIRED TO SERVE EQUIPMENT CONNECTED
VFD	VARIABLE SPEED DRIVE WITH INTEGRATED DISCONNECT
⊕	DUPLEX RECEPTACLE
⊕	GFI DUPLEX RECEPTACLE WP DENOTES WEATHERPROOF RECEPTACLE
⊕	SIMPLEX RECEPTACLE WITH WEATHERPROOF WHILE IN USE BOXES
⊕	SPECIAL RECEPTACLE (WITH CHARACTERISTICS NOTED ON PLANS)
⊕	GROUNDING CONNECTION
⊕	ELECTRICAL MOTOR, NUMBER INDICATES HORSEPOWER.



**NOVA PARKS**  
 5400 OX ROAD  
 FAIRFAX, VA 22039



Date: 7/8/2025

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER, REPRODUCE OR REUSE IN ANY MANNER THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE LICENSE NUMBER, ADDRESS, AND SIGNATURE. IF THESE SIGNATURES, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

**MLPS & Pool Renovation**  
 Volcano Island Waterpark  
 Algonkian Regional Park

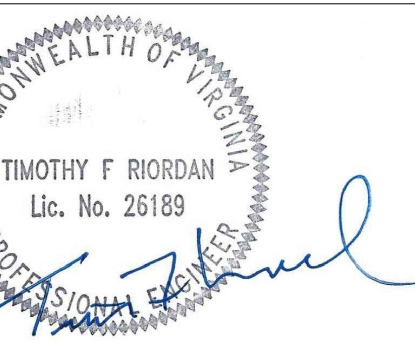
No.	Submittal / Revision	Appr	By	Date
1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

**ELECTRICAL LEGEND & NOTES PLAN**

Designed By:	Drawn By:	Checked By:
MC	MC	ME
Issue Date:	Project No.:	Scale:
05/29/2025	090172	AS SHOWN



**NOVA PARKS**  
 5400 OX ROAD  
 FAIRFAX, VA 22039



Date: 7/8/2025  
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**MLPS & Pool Renovation  
 Volcano Island Waterpark  
 Algonkian Regional Park**

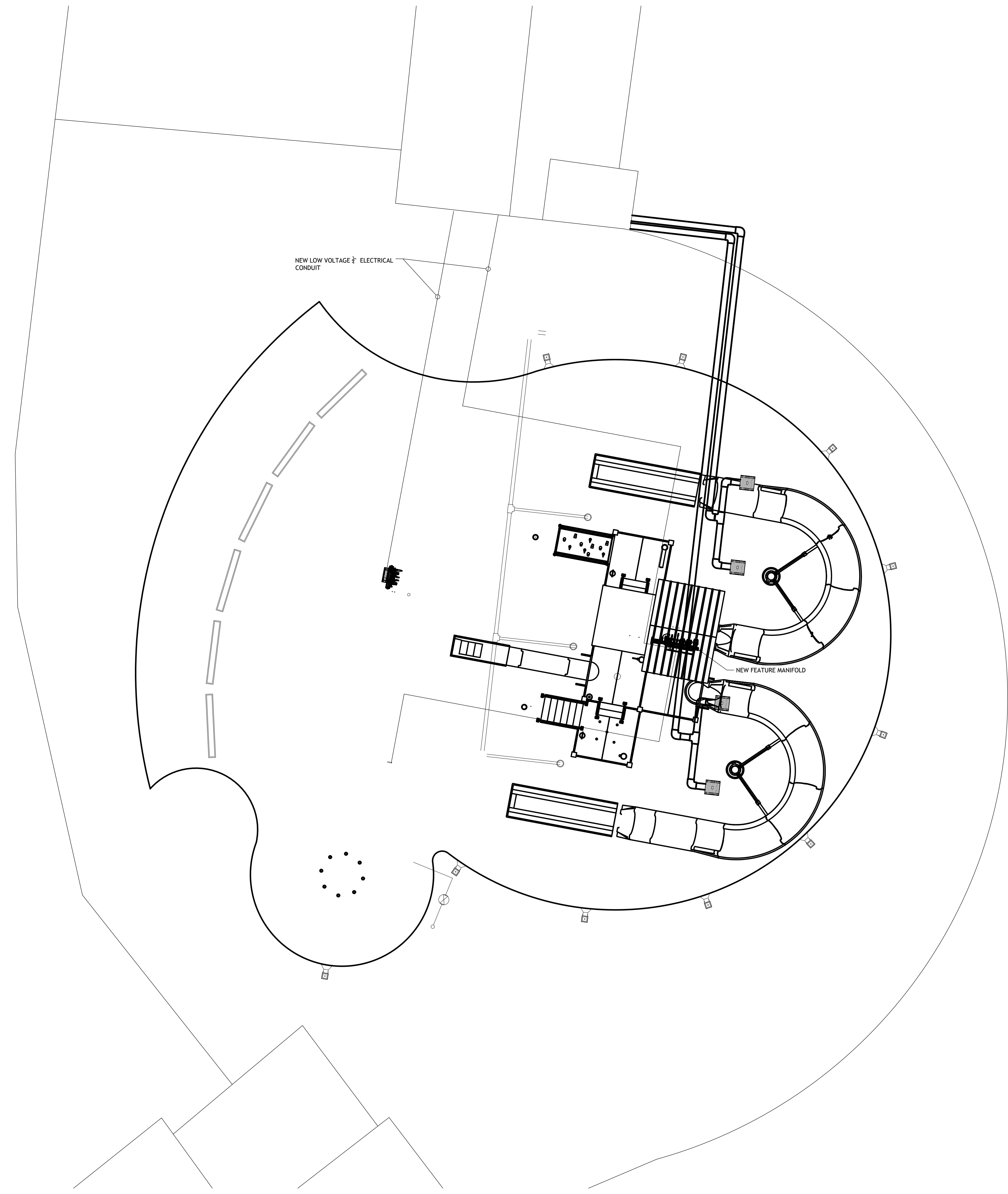
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1	60% DESIGN DEVELOPMENT	MC	RS	03/21/25
2	PROGRESS SET	MC	RS	04/11/25
3	PERMITTING SET	MC	RS	05/29/25

SHEET TITLE

**ELECTRICAL LAYOUT PLAN**

Designed By: MC	Drawn By: RS	Checked By: MC
Issue Date: 05/29/2025	Project No.: 090172	Scale: AS SHOWN

Drawing No.:  
**E-100**  
 Sheet XX of XX



**1 ELECTRICAL LAYOUT PLAN**  
 SCALE: 1/8" = 1'-0"

File: V:\PROJECTS\ANY\09172\00099\_DESIGN\DRAWINGS\01\_SHEETS\E-100 ELECTRICAL LAYOUT PLAN.DWG  
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 Last Saved By: 2493