

DESIGN DATA		
	UNITS	POOL
LENGTH	FT.	75'-1"
WIDTH	FT.	34'-11.75"
WATER SURFACE AREA	SQ. FT.	2,417
PERIMETER	FT.	220.1
VOLUME	GALLONS	71,710
RECIRCULATION SYSTEM		
POOL TURNOVER RATE	HOURS	3.57
RECIRCULATION RATE	GPM	335
SURGE CAPACITY	GALLONS	EXISTING TO REMAIN
SEWER CAPACITY	GPM	EXISTING TO REMAIN
BATHER LOAD	PERSONS	157

- GENERAL POOL NOTES**
- ♦ DENOTES WATER DEPTH FROM WATER LEVEL.
  - POOL FINISH SHALL BE ALL CERAMIC TILE WITH A PERIMETER TILE DECK BAND.
  - UNIT PRICING: AS PART OF THE BASE BID, THE CONTRACTOR SHALL PERFORM A SOUND TESTING OF THE EXISTING INTERIOR POOL TILE FINISH AND CARRY 500 SF FOR REPLACEMENT AT AREAS NOT ADHERING, AROUND EXISTING EMBEDS THAT REQUIRE REPLACEMENT, OR WHERE THERE IS DISCOLORATION OR RUST BLEED-THROUGH. AS PART OF THE BASE BID, THE CONTRACTOR SHALL SUBMIT UNIT PRICINGS FOR ADDITIONAL 100 SF THAT IS DEEMED NECESSARY FOR REPLACEMENT FOLLOWING THE SOUND TESTING.
  - TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
  - THE JUNCTION BETWEEN THE SWIMMING POOL WALL AND THE FLOOR SHALL BE COVERED WITH A MAXIMUM 2" RADIUS FOR AN ALL TILE POOL.
  - DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS SHALL NOT EXCEED 25'-0" APART FROM EACH OTHER, AND SHALL BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
  - ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS SHALL BE SUBMITTED FOR APPROVAL.
  - SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
  - REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
  - ALL SURFACE WATER SHALL DRAIN AWAY FROM THE POOL.
  - REFER TO ELECTRICAL FOR GFI OUTLETS IN NATATORIUM.
  - ELECTRICAL INSPECTOR SHALL APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
  - NO GROUND WATER SHALL BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
  - ALL POOL REINFORCING STEEL, METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE AND ANY METAL PARTS OF POOL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM SHALL BE BONDED PER NEC 680. REFER: 12/SP4.1

DRAWING INDEX	
SHEET	DESCRIPTION
SP0.0	POOL REFERENCE PLAN
SP0.1	EXISTING POOL PLAN
SP0.2	POOL DEMOLITION PLAN
SP1.0	POOL PLAN & SECTIONS
SP1.1	POOL DETAILS
SP2.0	POOL LOCATION POINT PLAN
SP3.0	RENOVATED POOL PIPING PLAN
SP4.0	POOL MECHANICAL ROOM PLAN
SP4.1	POOL MECHANICAL DETAILS
SP4.2	POOL MECHANICAL DETAILS
SP5.0	POOL SYSTEMS SCHEMATIC

**POOL ALTERNATES**

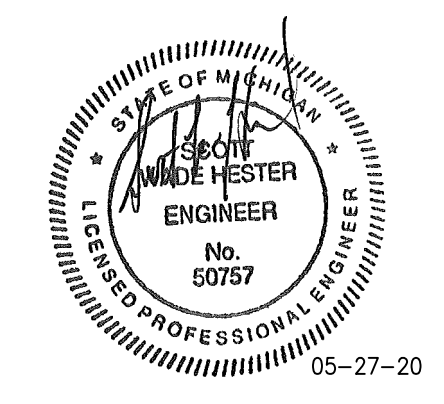
ALTERNATE #6 - CONTRACTOR SHALL FURNISH AND INSTALL A MEDIUM PRESSURE ULTRAVIOLET DECHLORINATION AND DISINFECTION SYSTEM TO HANDLE 100% OF THE RECIRCULATION FLOW PER DRAWINGS AND SPECIFICATIONS.



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REGISTRATION SEAL



CONSULTANT



**PROJECT TITLE**  
**New High Point School**  
**Washtenaw Intermediate School District**  
1735 South Wagner Road  
Ann Arbor, Michigan

**DRAWING TITLE**  
**POOL REFERENCE PLAN**

ISSUE DATES

DATE	ISSUED FOR
05-27-20	FOR CONSTRUCTION-BID PACK #3
05-01-20	95% REVIEW

DATE: ISSUED FOR:

DRAWN: CMB

CHECKED: CPN

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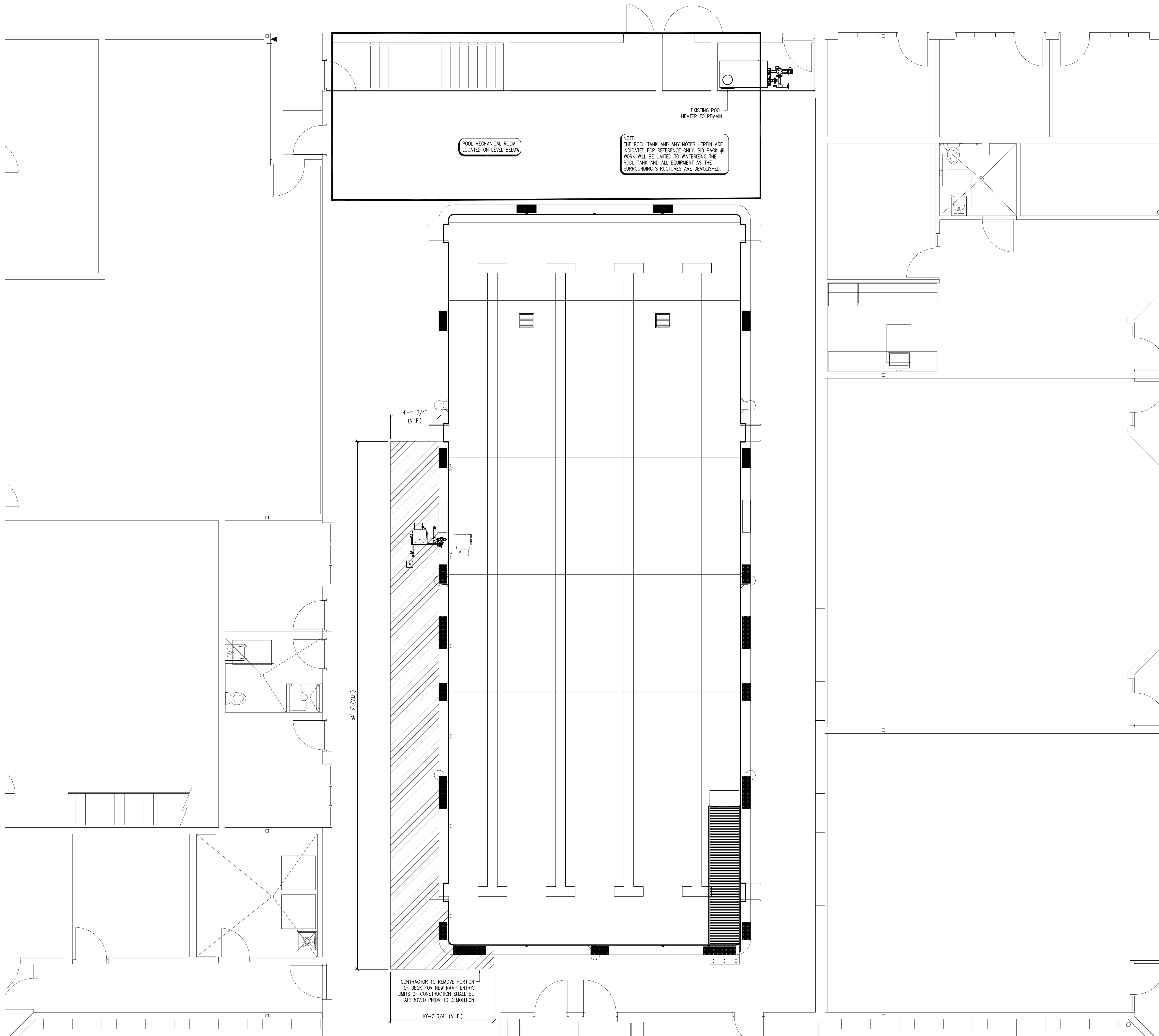
PROJECT NO.

**19040**

DRAWING NO.

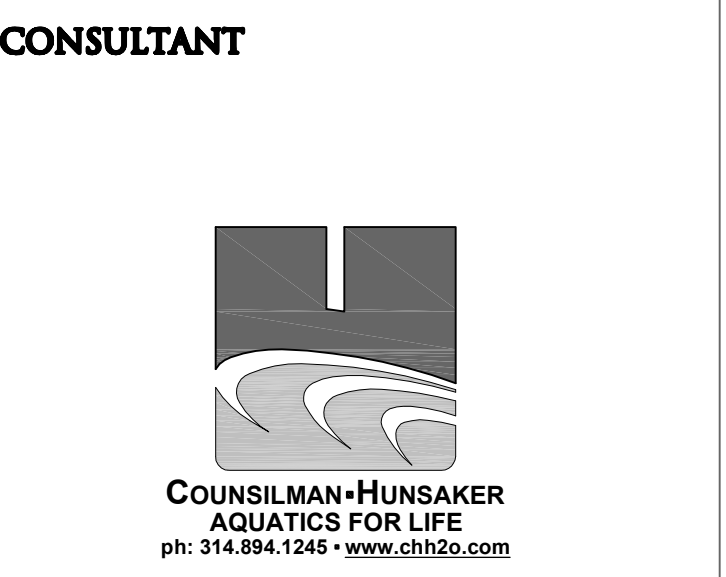
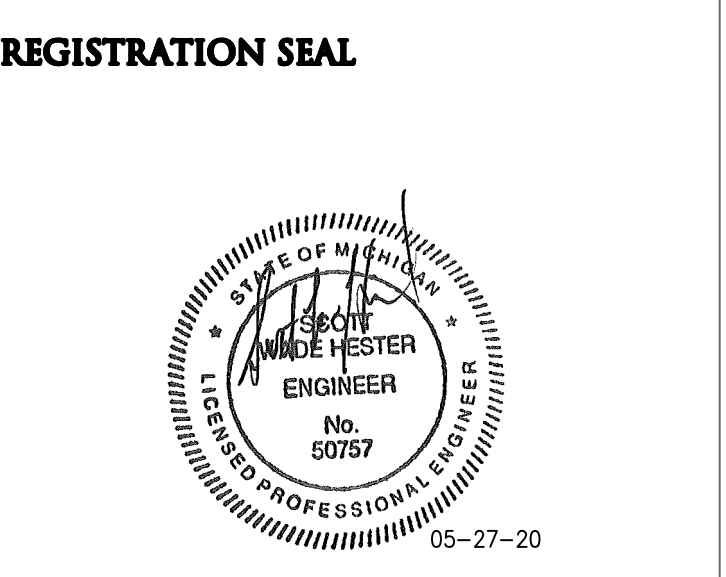
**SP0.0 BP3**

**1**  
**SP0.0** **POOL REFERENCE PLAN**  
3/32" = 1'-0"



- ### GENERAL POOL WINTERIZATION NOTES
1. PRIOR TO DRAINING THE POOL FOR CONSTRUCTION, THE CONTRACTOR SHALL COMPLETE A WATER TIGHTNESS TEST FOR THE POOL STRUCTURE AND REPORT TEST RESULTS FOR OWNER/ENGINEER TO REVIEW. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMPLETING THE TEST.
  2. PROTECT ALL EXISTING POOL FINISHES AND ALL POOL-RELATED APPURTENANCES DURING CONSTRUCTION.
  3. REFER TO OTHER TRADES OF ANY AND ALL OTHER BELOW GRADE PIPING/UTILITIES TO BE PROTECTED DURING RENOVATION.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY MONITORING GROUNDWATER LEVELS ON THE SITE DURING ALL PERIODS WHEN THE SWIMMING POOL IS NOT FULL OF WATER. PROTECTION OF THE EXISTING POOL STRUCTURE FROM DAMAGE DUE TO HYDROSTATIC PRESSURE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  5. CONTRACTOR TO DRAIN AND FILL POOL AT A RATE NOT TO EXCEED 1" OF POOL DEPTH PER HOUR AND AT A WATER TEMPERATURE WITHIN 10 DEGREES FAHRENHEIT OF AMBIENT TO CONTROL MOISTURE AND THERMAL SHOCK TO THE TILE.
  6. CONTRACTOR TO DRAIN AND BLOW OUT ALL PIPES AND INSTALL WINTERIZATION TAPS. CAP ALL PIPES. FOR ADDED PROTECTION AGAINST FREEZING PIPES, IT IS PERMISSIBLE TO FILL THE PIPES WITH ANT-FREEZE.
  7. CONTRACTOR TO FULLY DRAIN TO ENSURE NO CHLORINATED WATER REMAINS WITHIN THE FILTER TANK, POOL HEATER, PUMP, AND STRAINER. REFER TO MANUFACTURER FOR SPECIFIC DECOMMISSIONING REQUIREMENTS.

- ### WATER TIGHTNESS TEST PROCEDURE
1. PRIOR TO DRAINING THE POOL, ISOLATE THE SWIMMING POOL STRUCTURE TO PREPARE FOR VISUAL OBSERVATION OF STATIC WATER LEVELS.
  2. FILL A FLOATING, RESTRAINED, PARTIALLY FILLED, CALIBRATED, OPEN CONTAINER WITH WATER AND ALLOW THE CONTAINER TO FLOAT WITHIN THE POOL DURING THE TESTING PERIOD. THIS WILL BE USE TO MEASURE EVAPORATION.
  3. MEASUREMENTS SHALL BE TAKEN AT THE CORNERS OF THE SWIMMING POOL. REPEAT THE MEASUREMENTS AND DOCUMENT EVERY 12 HOURS FOR A TOTAL OF THREE (3) DAYS. THE CONTRACTOR SHALL CHECK THE SWIMMING POOL FOR WATER LOSS WITH THE ARCHITECT OR OWNER'S REPRESENTATIVE EVERY 12 HOURS. THE CONTRACTOR SHALL SUBMIT PHOTO DOCUMENTATION OF EACH MEASUREMENT WITH THE COMPLETED WATER TIGHTNESS REPORT.
  4. TOTAL LOSS = 7.481 x STRUCTURE SURFACE AREA (SF) x TOTAL WATER LOSS PER DAY (FT) - EVAPORATION PER DAY (FT).



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**DRAWING TITLE**  
**EXISTING POOL PLAN**

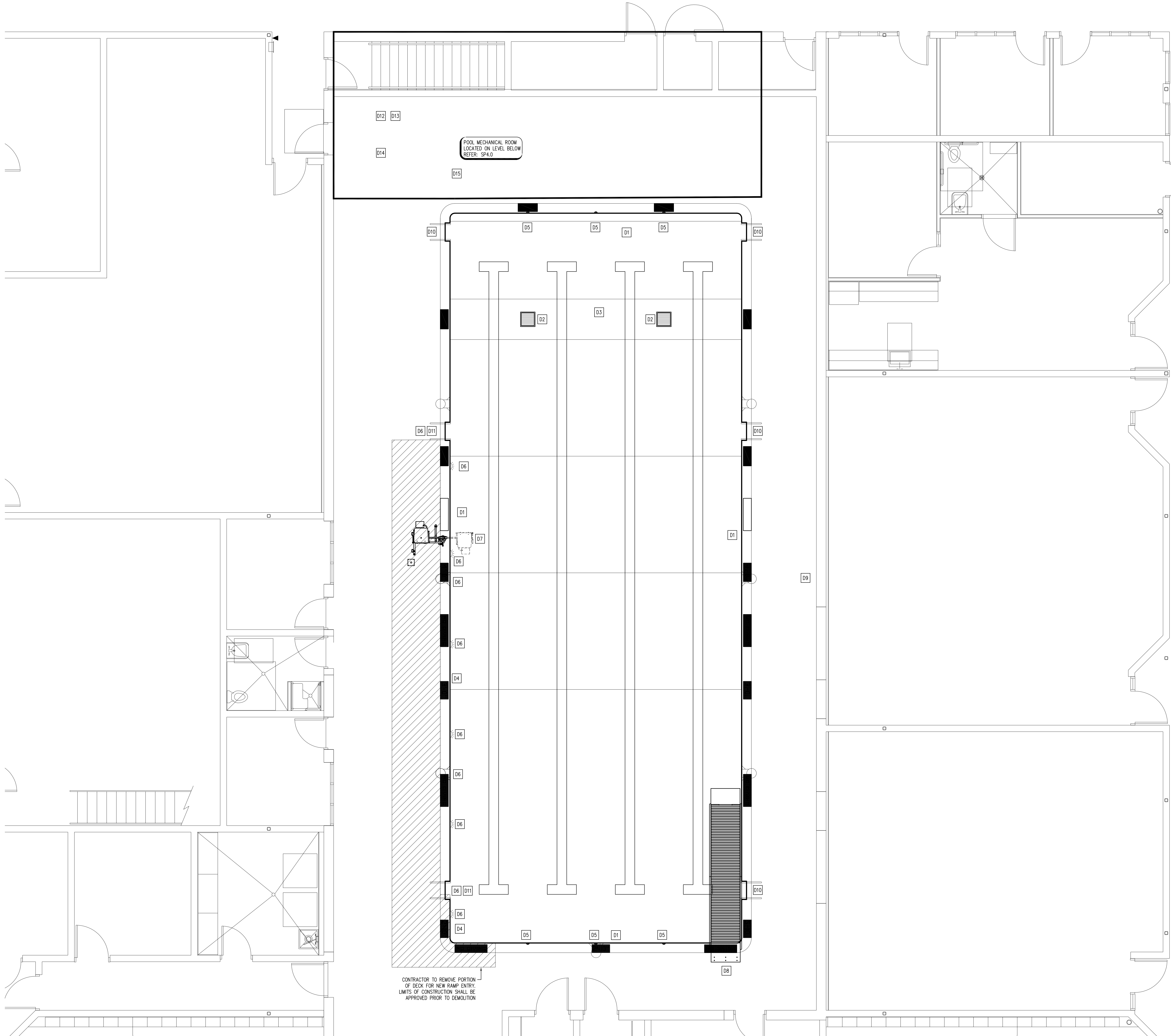
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05-27-20	FOR CONSTRUCTION-BID PACK #3
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**CHECKED** CPN  
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**DRAWING NO.**  
**SP0.1 BP3**

1 EXISTING POOL PLAN  
 SP0.1 1/4" = 1'-0"



POOL DEMOLITION NOTES	
D1	REMOVE DELAMINATED AND DISCOLORED TILE WITH 6" MINIMUM MARGINS SURROUNDING THE DAMAGED FINISHES TO EXPOSED CONCRETE SUBSTRATE FROM THE INTERIOR OF THE POOL.
D2	DEMO AND REMOVE ALL MAIN DRAIN GRATES IN THE POOL AND PREPARE FOR NEW VIRGINIA GRAEME BAKER COVERS.
D3	PLUG ALL MAIN DRAIN PIPING AND POOL INLET FITTINGS PRIOR TO THE REMOVAL OF THE EXISTING POOL FINISH.
D4	REMOVE EXISTING POOL WALL TO PREPARE FOR NEW POOL RAMP EXTENSION. REFER TO STRUCTURAL FOR EXTENT OF REQUIRED DEMOLITION.
D5	REMOVE EXISTING CUP ANCHORS AND PREPARE FOR NEW ANCHOR BONDING AND INSTALLATION.
D6	REMOVE EXISTING HAUNCHES FOR UNDERWATER LIGHTS AND RECESSED STEPS AND ABANDONED SWIMMERS WHERE INDICATED TO ACCOMMODATE NEW RAMP ADDITION. REFER TO STRUCTURAL FOR EXTENT OF REQUIRED DEMOLITION.
D7	REMOVE EXISTING HYDRAULIC POOL LIFT, ANCHOR, AND HYDRANT BOX.
D8	REMOVE EXISTING DROP-IN POOL RAMP.
D9	REMOVE EXISTING OVERHEAD POOL ACCESS.
D10	REMOVE EXISTING GRAB RAILS AND ANCHORS AND PREPARE FOR INSTALLATION OF NEW.
D11	REMOVE EXISTING GRAB RAILS AND ANCHORS NOT TO BE REINSTALLED WITH NEW PREPARE UNDERWATER STEPS AT THE LOCATION TO BE INFILLED AND TILED FLUSH WITH THE ADJACENT POOL WALL.
D12	REMOVE EXISTING WATER CHEMISTRY CONTROLLER.
D13	REMOVE EXISTING POOL CHEMICAL TREATMENT EQUIPMENT.
D14	REMOVE EXISTING REGENERATIVE MEDIA FILTRATION SYSTEM. AIR COMPRESSOR TO BE REUSED WITH THE NEW FILTRATION SYSTEM.
D15	EXISTING POOL REDCIRCULATION PIPING LOCATED WITHIN THE MECHANICAL ROOM SHALL BE REMOVED AND REPLACED WITH NEW.

GENERAL POOL NOTES	
1.	PRIOR TO DRAINING THE POOL FOR CONSTRUCTION, THE CONTRACTOR SHALL COMPLETE A WATER TIGHTNESS TEST FOR THE POOL STRUCTURE AND REPORT TEST RESULTS FOR OWNER/ENGINEER TO REVIEW. REFER TO SWIMMING POOL SPECIFICATIONS FOR TESTING REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMPLETING THE TEST. REFER: SP0.1
2.	PROTECT ALL EXISTING POOL FINISHES AND ALL POOL-RELATED APPURTENANCES DURING CONSTRUCTION.
3.	REFER TO OTHER TRADES OF ANY AND ALL OTHER BELOW GRADE PIPING/UTILITIES TO BE PROTECTED DURING RENOVATION.
4.	ELECTRICIAN SHALL VERIFY EXISTING BOND GRID FOR THE POOL AND RELATED SYSTEMS. ALL NEW EMBEDS AND MECHANICAL EQUIPMENT SHALL BE BONDED PER NEC ARTICLE 680.
5.	OWNER HAS FIRST RIGHT OF REFUSAL ON ALL DEMOLITION MATERIALS.
6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY MONITORING GROUNDWATER LEVELS ON THE SITE DURING ALL PERIODS WHEN THE SWIMMING POOL IS NOT FULL OF WATER. PROTECTION OF THE EXISTING POOL STRUCTURE FROM DAMAGE DUE TO HYDROSTATIC PRESSURE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7.	CONTRACTOR TO DRAIN AND FILL POOL AT A RATE NOT TO EXCEED 1" OF POOL DEPTH PER HOUR AND AT A WATER TEMPERATURE WITHIN 10 DEGREES FAHRENHEIT OF AMBIENT TO CONTROL MOISTURE AND THERMAL SHOCK TO THE TILE.
8.	CONTRACTOR TO DRAIN AND BLOW OUT ALL PIPES AND INSTALL WINTERIZATION TAPS, CAP ALL PIPES. FOR ADDED PROTECTION AGAINST FREEZING PIPES, IT IS PERMISSIBLE TO FILL THE PIPES WITH ANT-FREEZE.

CONTRACTOR TO REMOVE PORTION OF DECK FOR NEW RAMP ENTRY. LIMITS OF CONSTRUCTION SHALL BE APPROVED PRIOR TO DEMOLITION

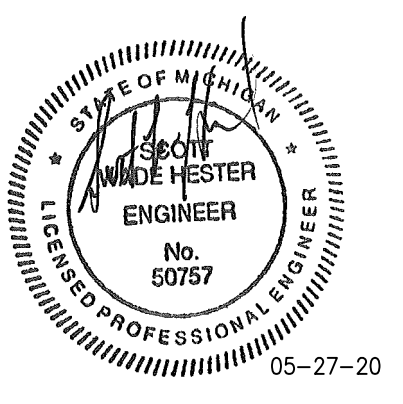
1  
SP0.2  
**POOL DEMOLITION PLAN**  
1/4" = 1'-0"



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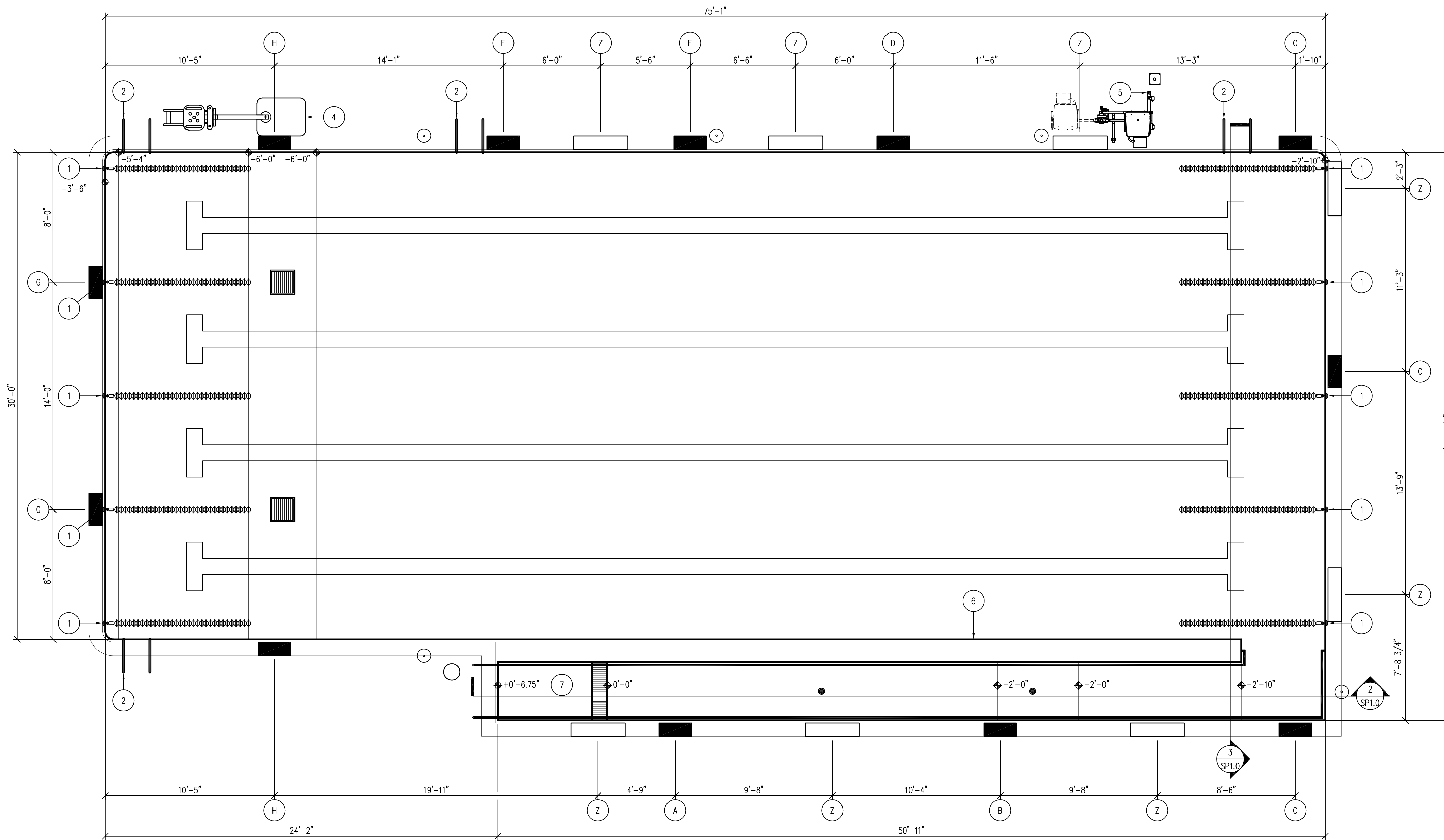
**PROJECT TITLE**  
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**Washtenaw Intermediate School District**  
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**DRAWING TITLE**  
**POOL DEMOLITION PLAN**

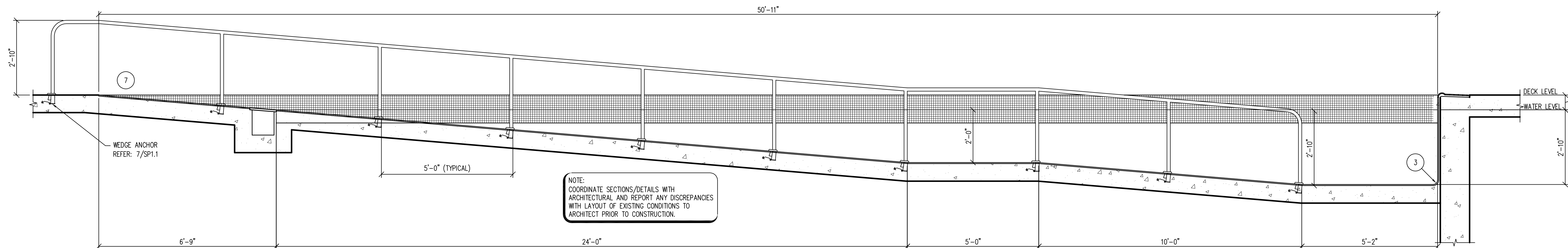
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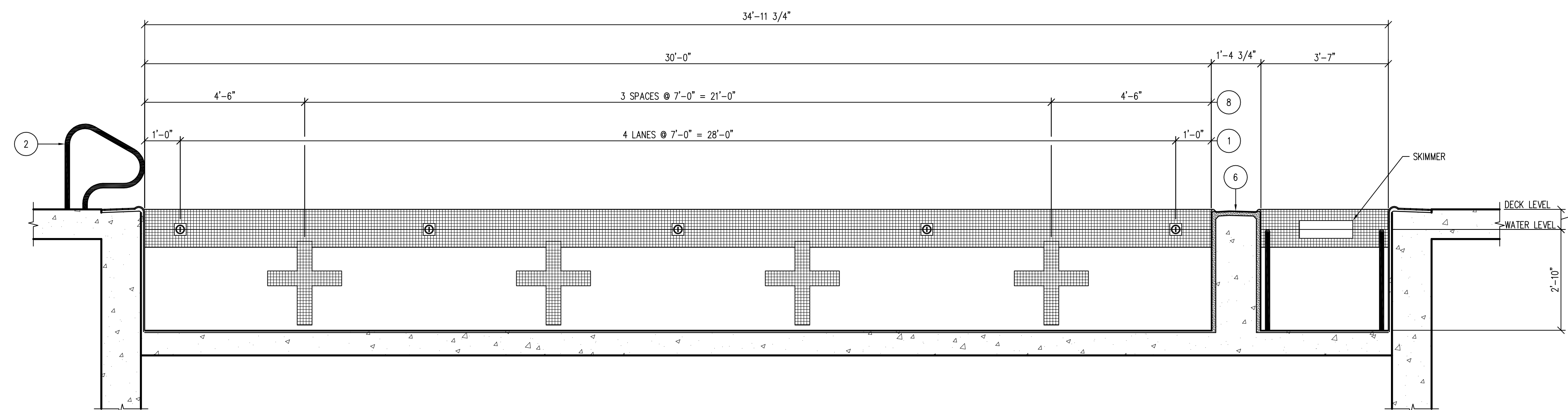
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**19040**  
**DRAWING NO.**  
**SP0.2 BP-3**



1 POOL PLAN  
SP1.0  
1/4" = 1'-0"



2 POOL SECTION  
SP1.0  
1/2" = 1'-0"



3 POOL SECTION  
SP1.0  
1/2" = 1'-0"

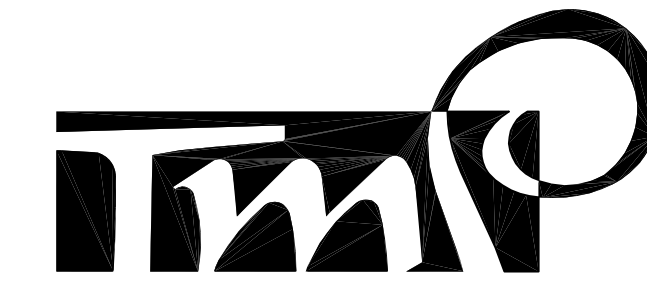
DEPTH & WARNING SIGNAGE SCHEDULE

ID	SIGNAGE
A	0 FT 6 IN
B	2 FT 0 IN
C	2 FT 10 IN
D	3 FT 0 IN
E	4 FT 0 IN
F	5 FT 0 IN
G	5 FT 4 IN
H	6 FT 0 IN
Z	NO DIVING

DEPTH MARKERS & WARNING SIGNS  
REFER: 4/SP1.1

POOL EQUIPMENT SCHEDULE

ID	ITEM
1	LANE ROPE CLIP ANCHOR REFER: 1/SP1.1
2	NEW GRAB RAILS WITH EXISTING RECESSED STEPS. CONTRACTOR TO FIELD VERIFY DIMENSIONS REFER: 11/SP1.1
3	POOL COVE REFER: 10/SP1.1
4	BATTERY POWERED POOL LIFT & ANCHOR REFER: 5/SP1.1
5	HYDRAULIC POOL LIFT & ANCHOR REFER: 6/SP1.1
6	WING WALL REFER: 8/SP1.1
7	ZERO RAMP ENTRY REFER: 2/SP1.1
8	EXISTING WALL TARGETS TO REMAIN

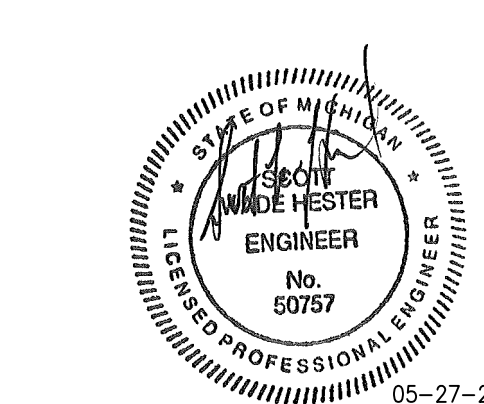


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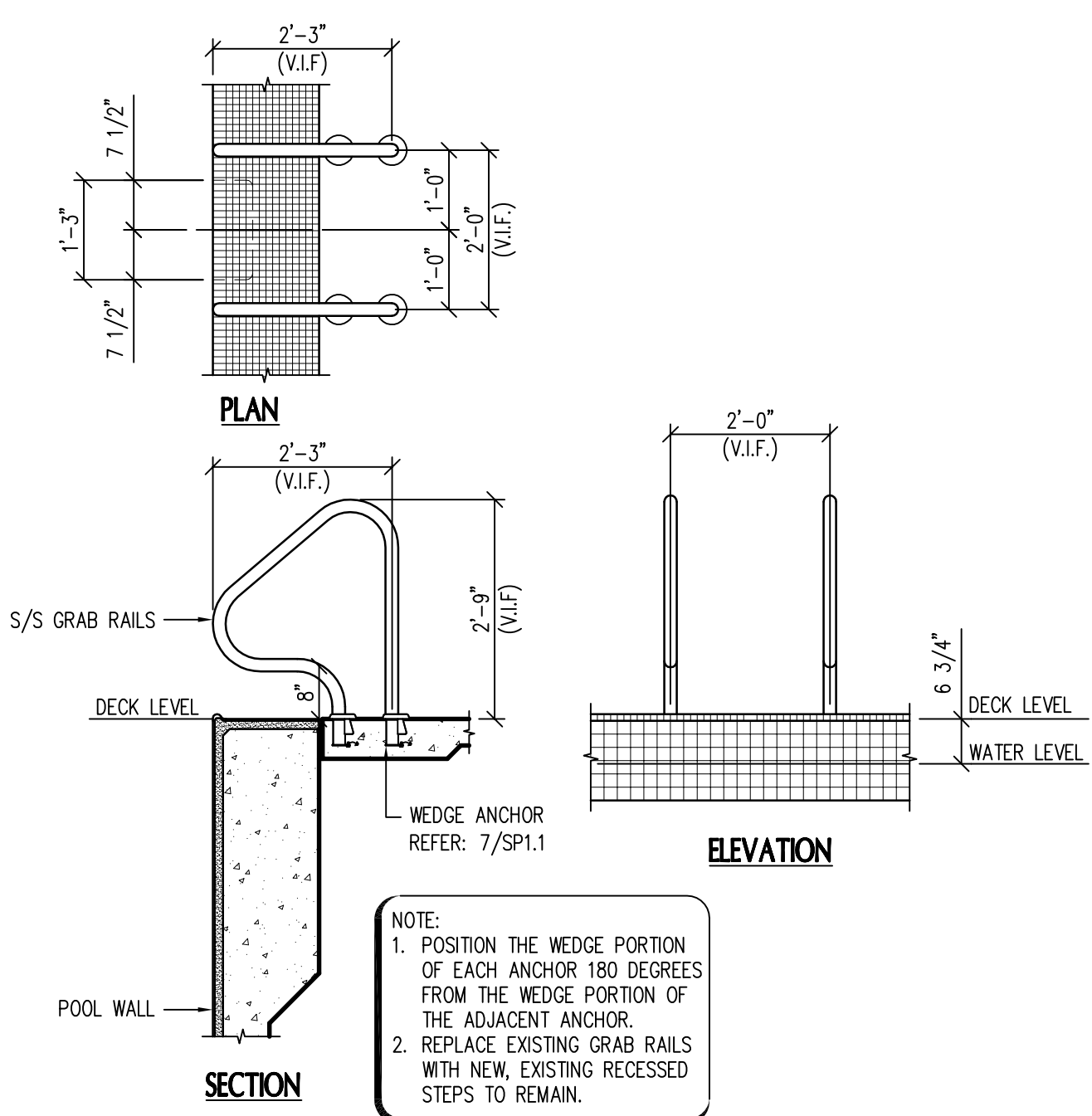
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**POOL PLAN & SECTIONS**

ISSUE DATES

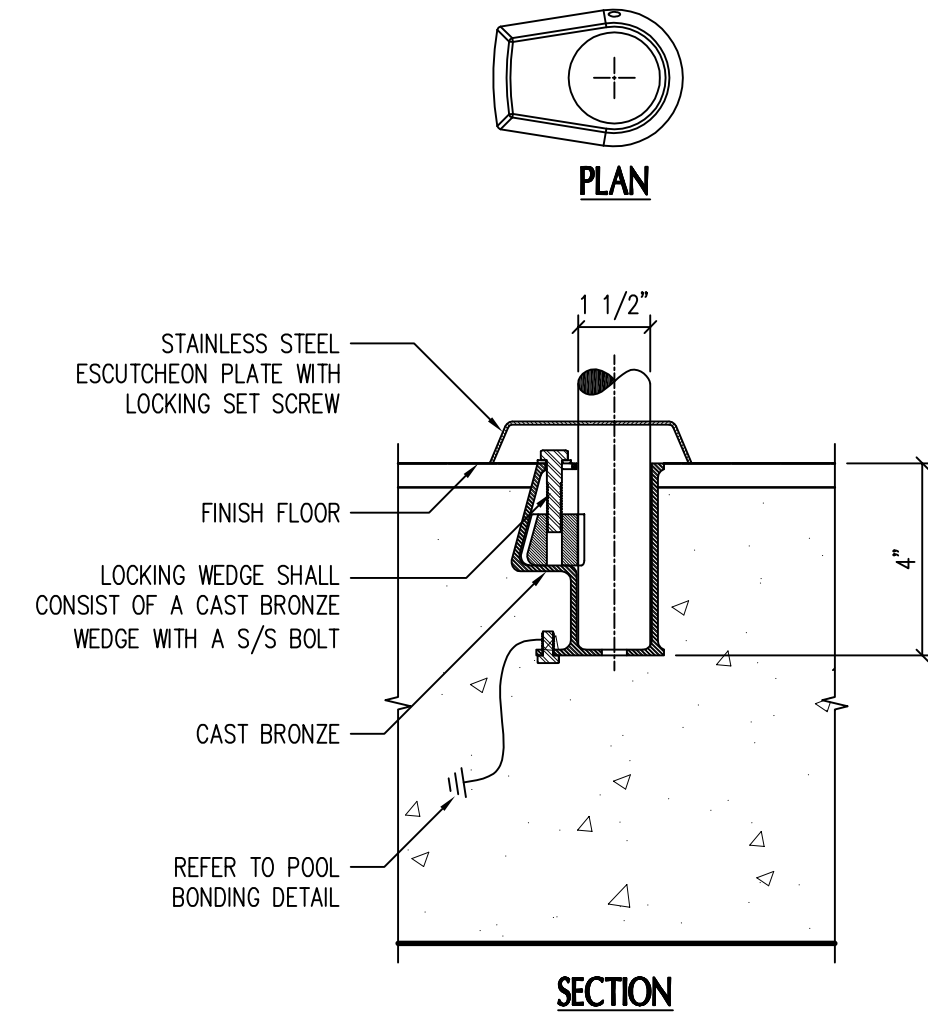
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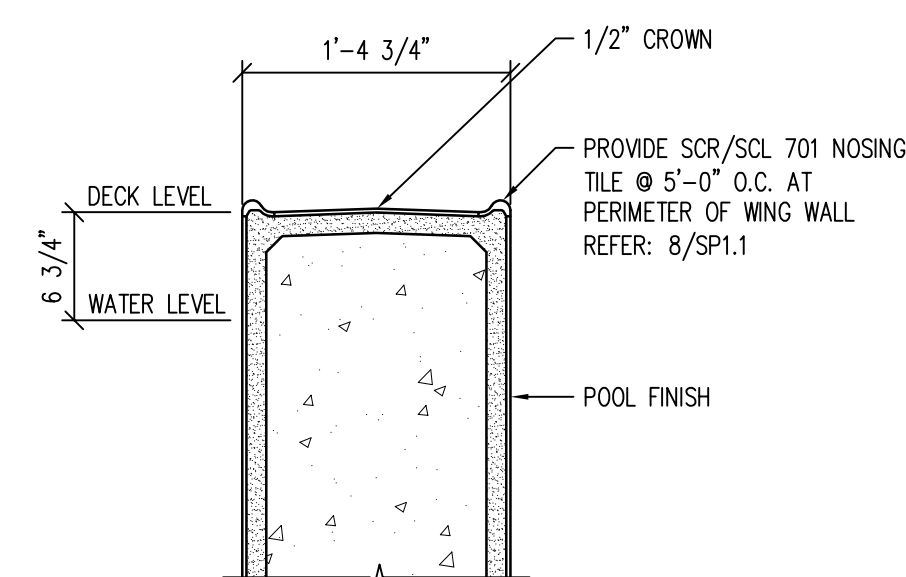
PROJECT NO.  
**19040**  
DRAWING NO.  
**SP1.0 BP3**



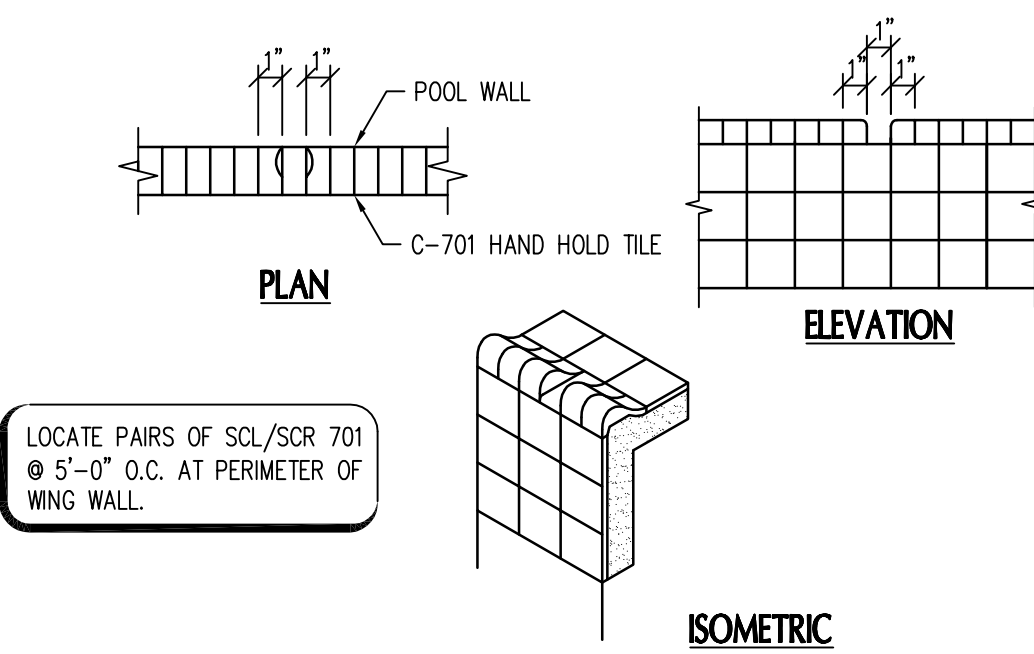
11 GRAB RAILS  
SP1.1 1/2" = 1'-0"



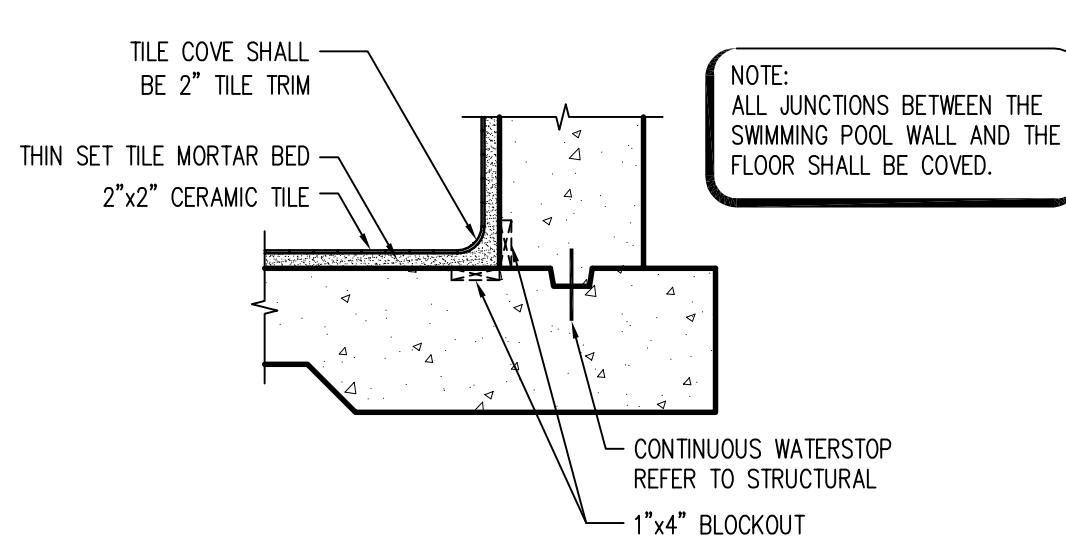
7 WEDGE ANCHOR  
SP1.1 3" = 1'-0"



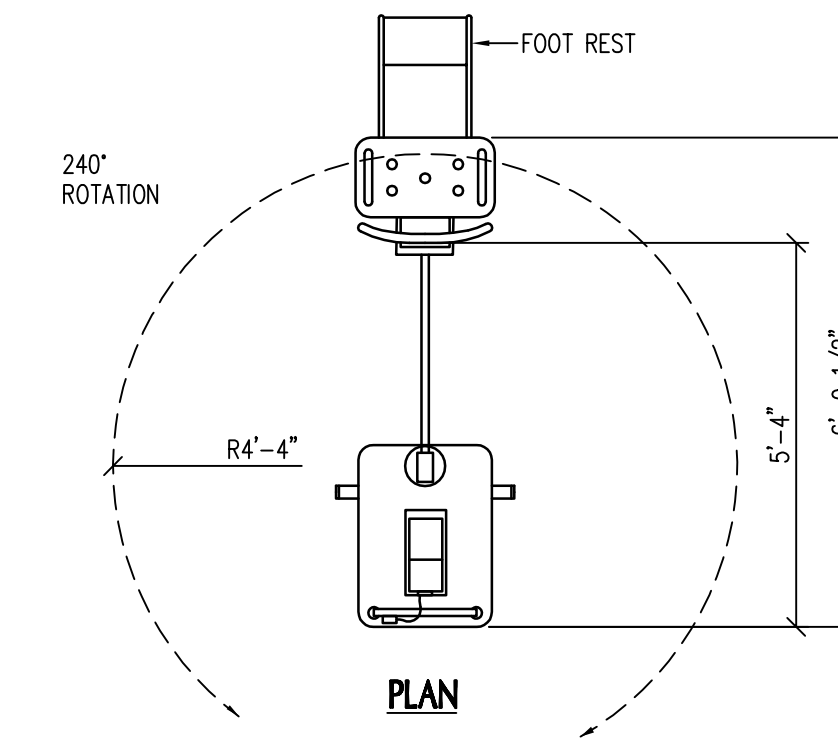
8 WING WALL SECTION  
SP1.1 1" = 1'-0"



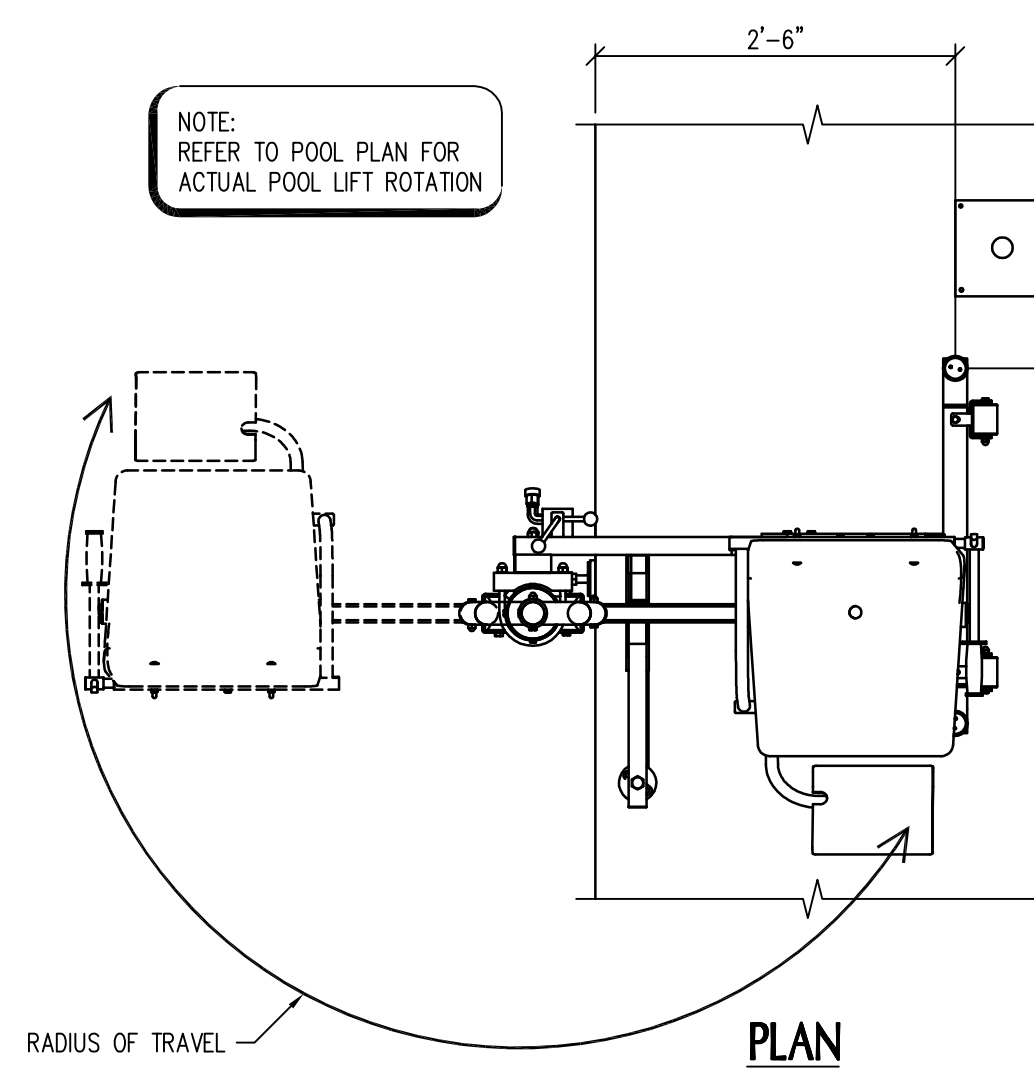
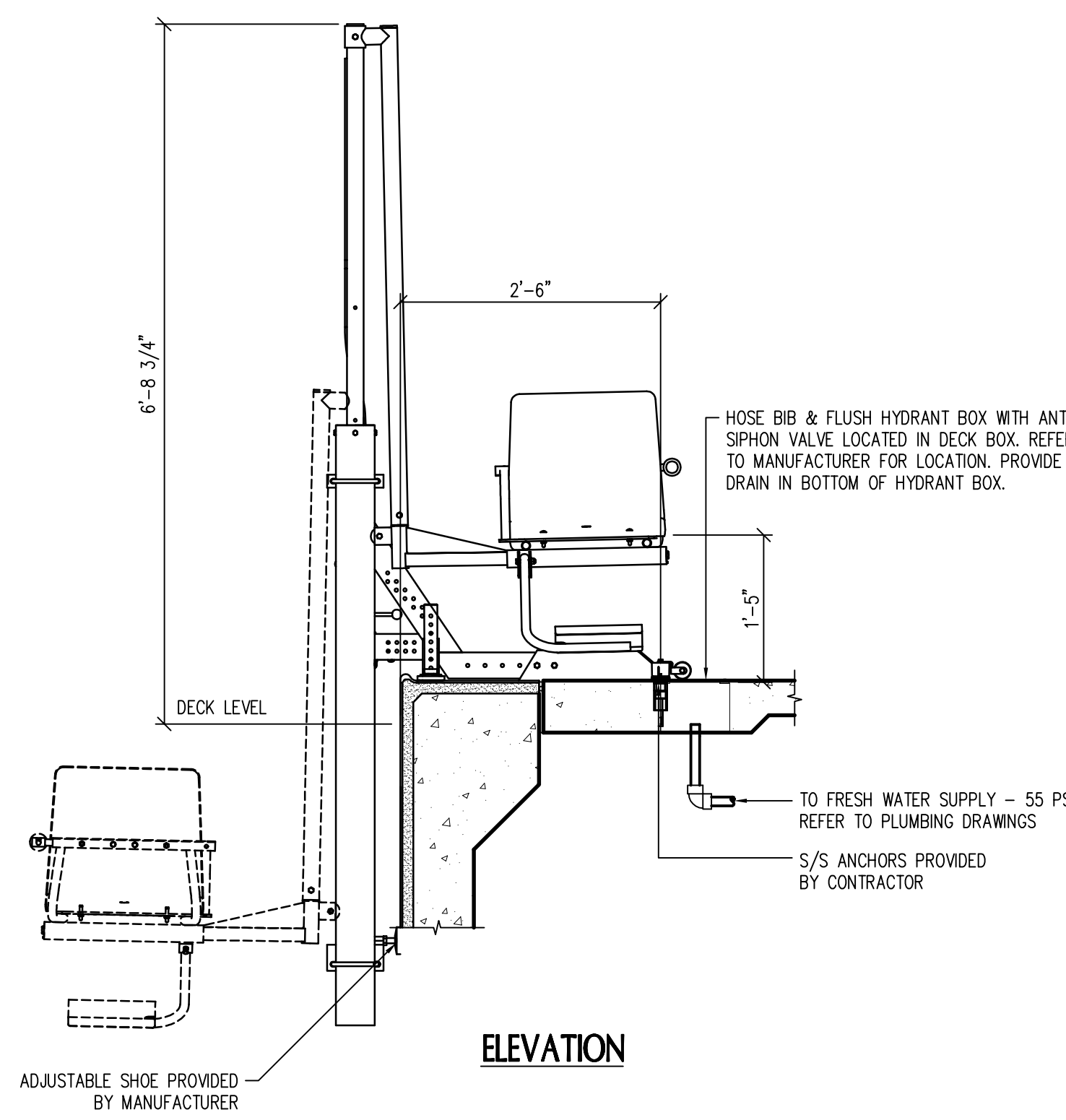
9 SCR/SCL 701 NOSING TILE  
SP1.1 1 1/2" = 1'-0"



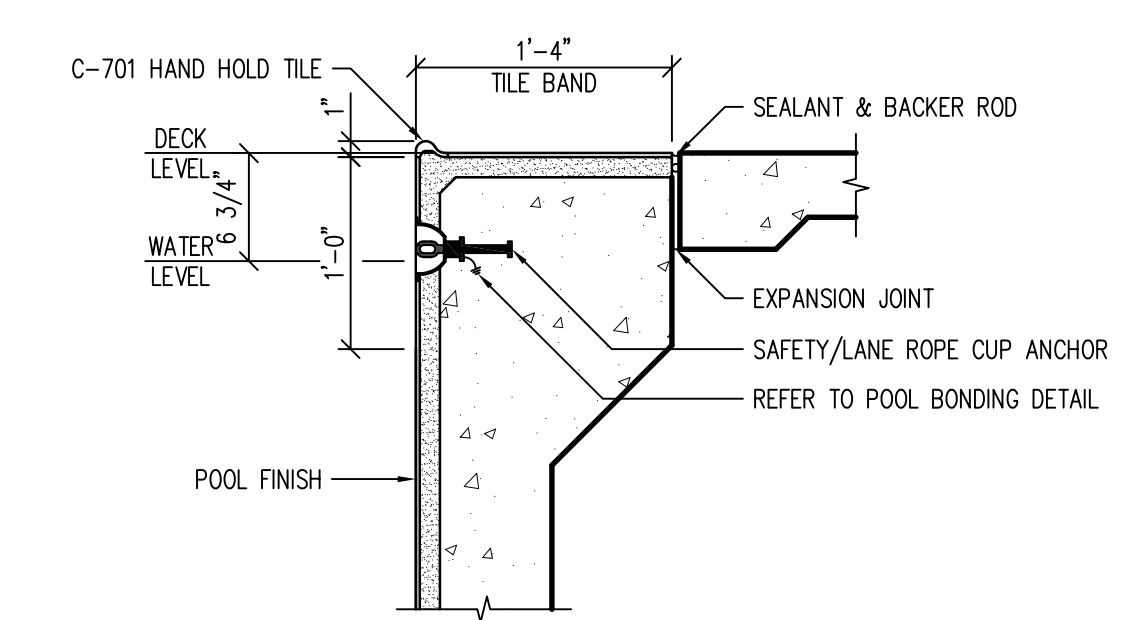
10 CAST IN PLACE CONCRETE COVE  
SP1.1 3/4" = 1'-0"



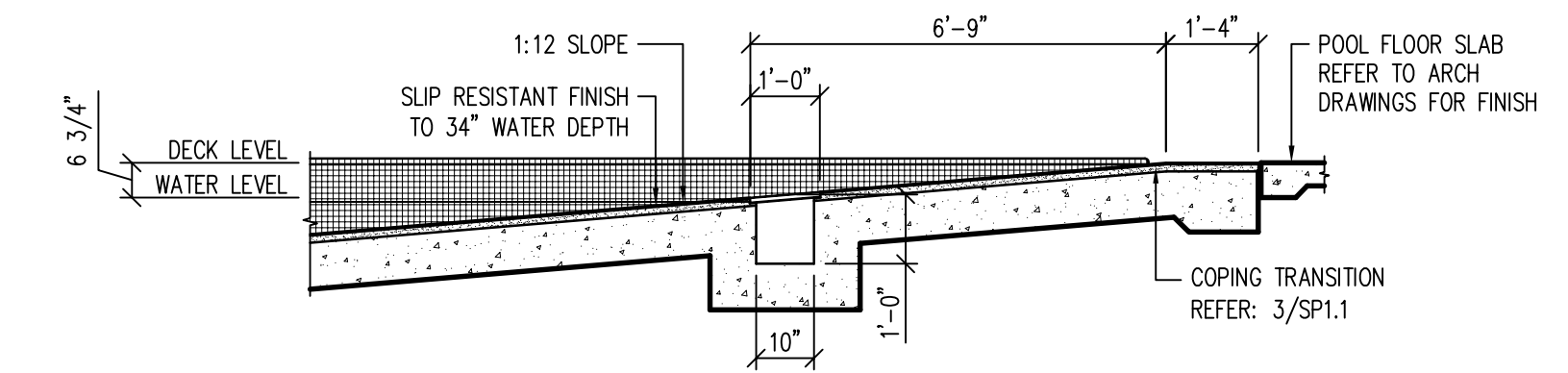
5 BATTERY POWERED POOL LIFT  
SP1.1 3/8" = 1'-0"



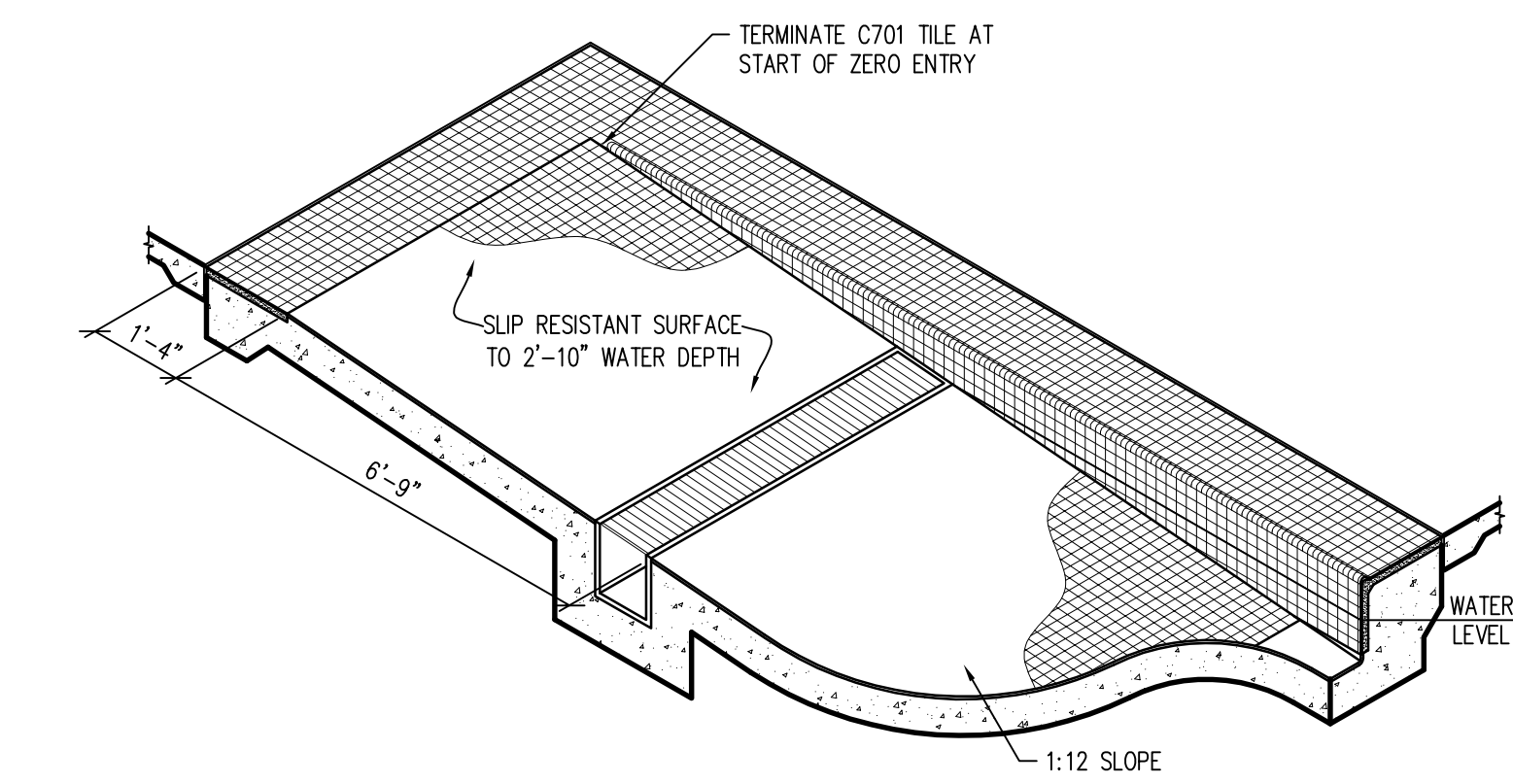
6 HYDRAULIC POOL LIFT  
SP1.1 3/4" = 1'-0"



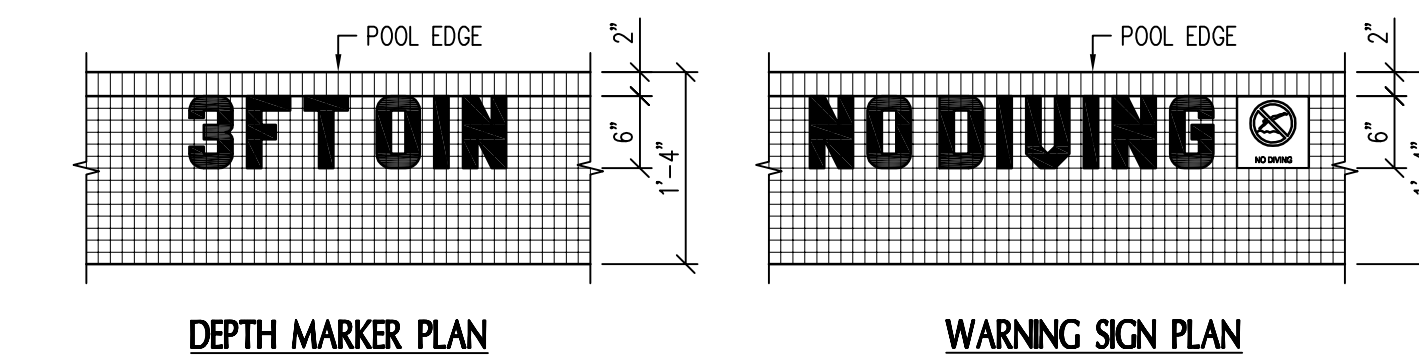
1 POOL WALL SECTION  
SP1.1 1" = 1'-0"



2 ZERO RAMP ENTRY SECTION  
SP1.1 1" = 1'-0"

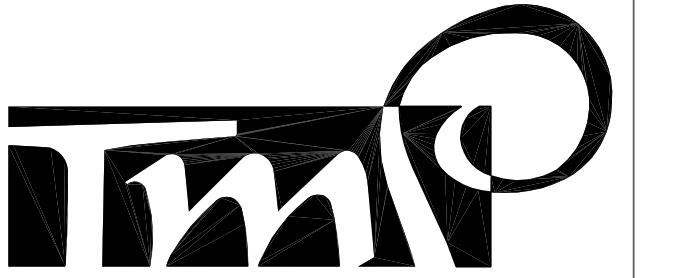


3 ZERO ENTRY ISOMETRIC  
SP1.1 3/8" = 1'-0"



NOTE:  
1. DEPTH MARKERS & WARNING SIGNS SHALL BE PROVIDED AS 1"x1" TILES WITH MINIMUM 6" TALL, CONTRASTING LETTERS AND NUMBERS. COLOR BY ARCHITECT.  
2. PROVIDE NO DIVING WARNING SIGNS WITH 6"x6" TILE DISPLAYING INTERNATIONAL NO DIVING SYMBOL.  
3. ALL HORIZONTAL TILE INSTALLATIONS SHALL HAVE A SLIP RESISTANT FINISH. ALL VERTICAL TILE INSTALLATIONS SHALL HAVE A SMOOTH GLAZED FINISH.  
4. DEPTH MARKERS & WARNING SIGNS SHALL BE PROVIDED AT THREE LOCATIONS AT THE NEW RAMP ENTRY AS PART OF THE BASE BID. ALL NEW DEPTH MARKINGS AND WARNING SIGNS SHALL BE REQUIRED IF THE DECK TILE ALTERNATE IS ACCEPTED.

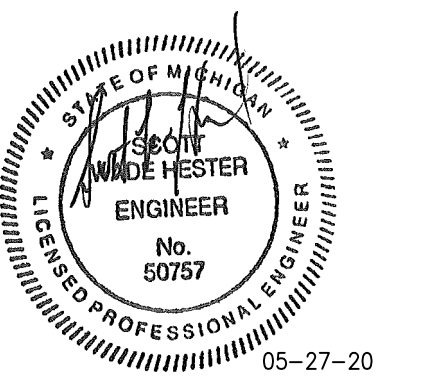
4 DEPTH MARKERS AND WARNING SIGNS  
SP1.1 3/4" = 1'-0"



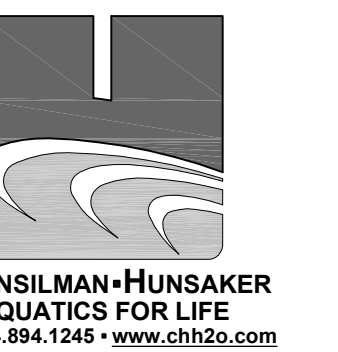
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PROJECT TITLE  
**New High Point School**  
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DRAWING TITLE  
**POOL DETAILS**

ISSUE DATES

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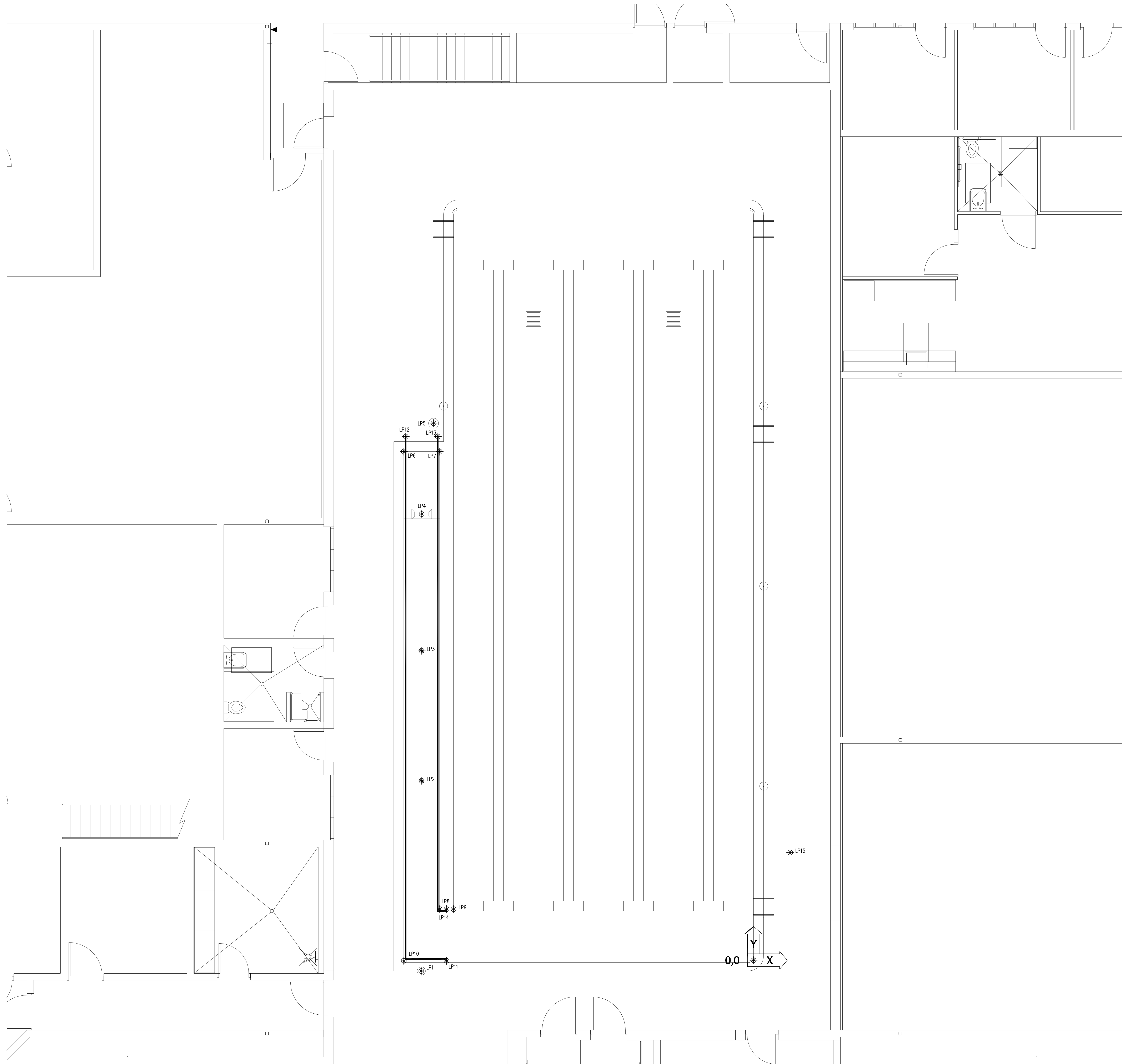
APPROVED CPN

PROJECT NO.

**19040**

DRAWING NO.

**SP1.1 BP3**



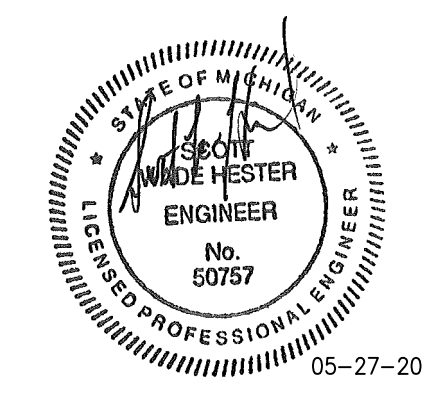
LOCATION POINT SCHEDULE			
LP#	X	Y	DESCRIPTION
1	-33'-2 3/4"	-1'-1"	SKIMMER
2	-33'-2 1/4"	17'-11 1/4"	FLOOR INLET
3	-33'-2 1/4"	30'-11 1/4"	FLOOR INLET
4	-33'-2 1/4"	44'-7 1/4"	TRENCH SUMP
5	-32'-0"	53'-8 1/4"	WATER LEVEL CONTROLLER
6	-34'-11 3/4"	50'-10 1/4"	CONSTRUCTION POINT
7	-31'-4 3/4"	50'-10 1/4"	CONSTRUCTION POINT
8	-31'-4 3/4"	5'-1 1/4"	CONSTRUCTION POINT
9	-30'-0"	5'-1 1/4"	CONSTRUCTION POINT
10	-34'-11 3/4"	-3/4"	CONSTRUCTION POINT
11	-30'-8 1/2"	-3/4"	HANDRAIL END POINT
12	-34'-9 1/2"	52'-4 1/4"	HANDRAIL END POINT
13	-31'-7"	52'-4 1/4"	HANDRAIL END POINT
14	-30'-8 1/2"	5'-1 1/4"	HANDRAIL END POINT
15	3'-8"	10'-9 1/4"	POOL LIFT ANCHOR



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DRAWING TITLE  
**POOL LOCATION POINT PLAN**

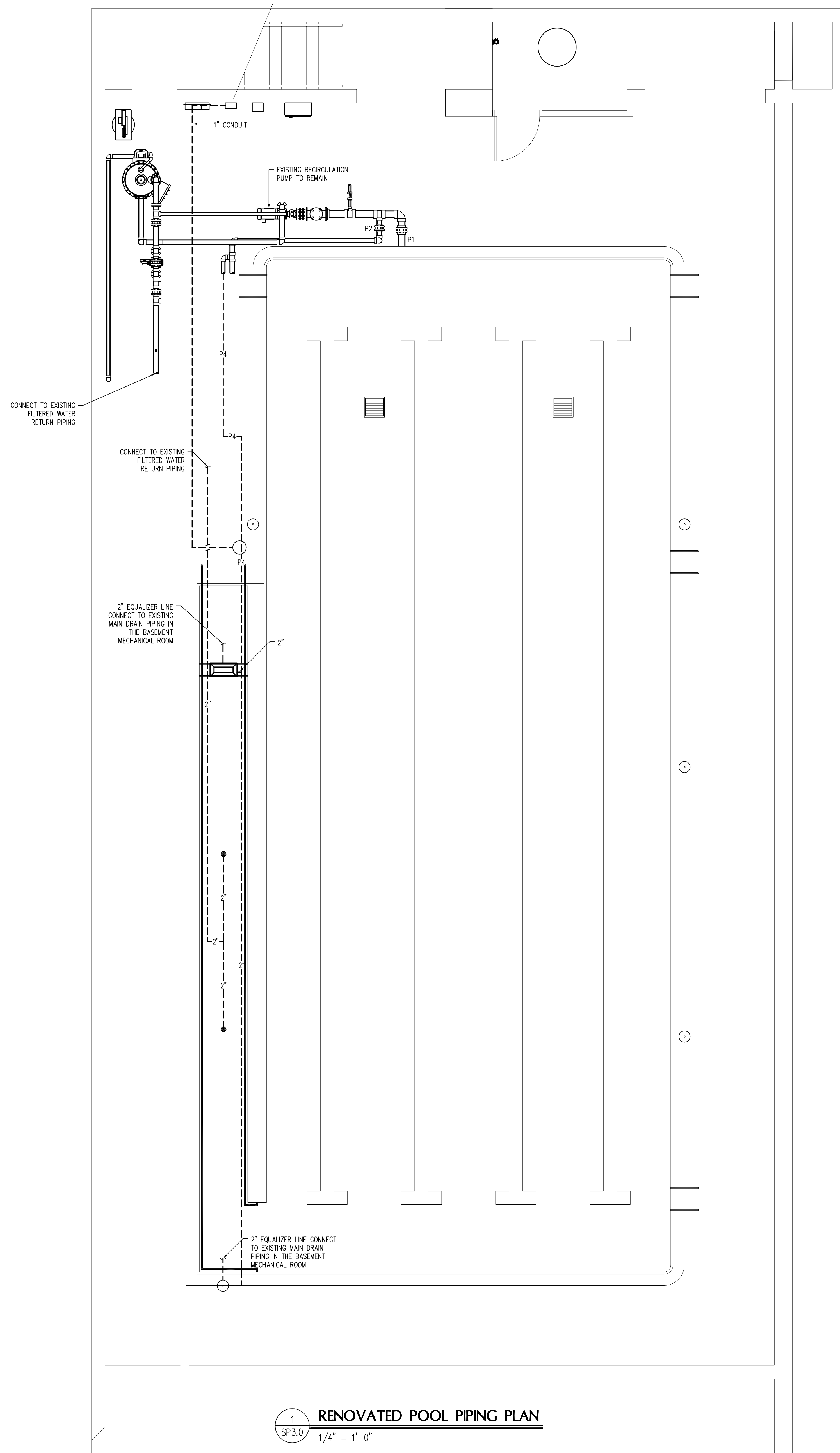
ISSUE DATES

DATE	ISSUED FOR
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PROJECT NO.  
**19040**  
 DRAWING NO.  
**SP2.0 BP3**

1 POOL LOCATION POINT PLAN  
 SP2.0  
 1/4" = 1'-0"



**GENERAL PIPING NOTES**

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. PIPE SIZES INDICATED ARE NOMINAL, I.P.S.
3. UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING SHALL BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB.
4. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
5. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
6. PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR; CHAIN SHALL EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
7. INSTALL ALL PIPING WITHOUT FORGING OR SPRINGING.
8. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS. OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. ALL PIPING INDICATED SHALL BE CONSIDERED DIAGRAMMATIC.
10. ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED.
11. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE.
12. ALL DIMENSIONS INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES.
13. THE CHEMICAL SENSOR LINE SHALL BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO THE BACKWASH CATCH BASIN OR PUMP SUCTION.
14. ALL FLOOR INLETS SHALL BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION THROUGHOUT SYSTEMS.
15. ALL PIPE TEES SHALL BE SIZED FOR LARGEST PIPE CONNECTION.
16. 55 PSI MINIMUM WATER PRESSURE FOR POOL LIFT. REFER TO PLUMBING.

**PIPE SCHEDULE**

ID	DESCRIPTION
P1	6" FROM MAIN DRAINS TO PUMP - EXISTING TO REMAIN
P2	4" FROM SKIMMERS TO PUMP - EXISTING TO REMAIN
P3	2" DIRECT FILL LINE
P4	3" FROM NEW SKIMMER AND TRENCH DRAIN TO P2
P5	4" FROM PUMP TO POOL FILTER
P6	4" FROM POOL FILTER TO EXISTING FILTER WATER RETURN LINE TO POOL INLETS
P7	3" FROM P6 TO PP1 - PRE-COAT LINE
P8	3" FROM POOL FILTER TO EXISTING BACKWASH CATCH BASIN

**PIPING LEGEND**

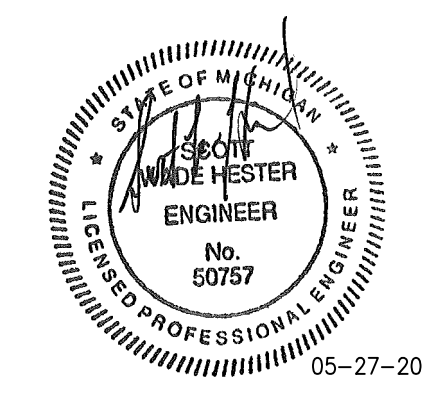
LEGEND	QTY.	ITEM
	2	NEW FLOOR INLET REFER: 13/SP4.1
	1	NEW SKIMMER REFER: 14/SP4.1
	1	NEW TRENCH SUMP REFER: 16/SP4.1
	1	NEW WATER LEVEL CONTROLLER REFER: 11/SP4.1
---	N/A	BELOW GRADE PIPING



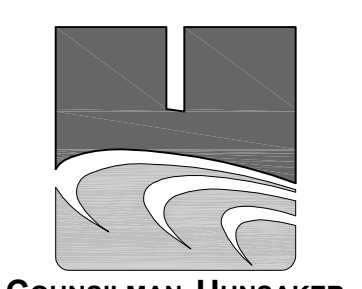
**ARCHITECTURE**  
 T M P ARCHITECTURE I N C  
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**CONSULTANT**



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**PROJECT TITLE**  
**New High Point School**  
**Washtenaw Intermediate School District**  
 1735 South Wagner Road  
 Ann Arbor, Michigan

**DRAWING TITLE**  
**RENOVATED POOL PIPING PLAN**

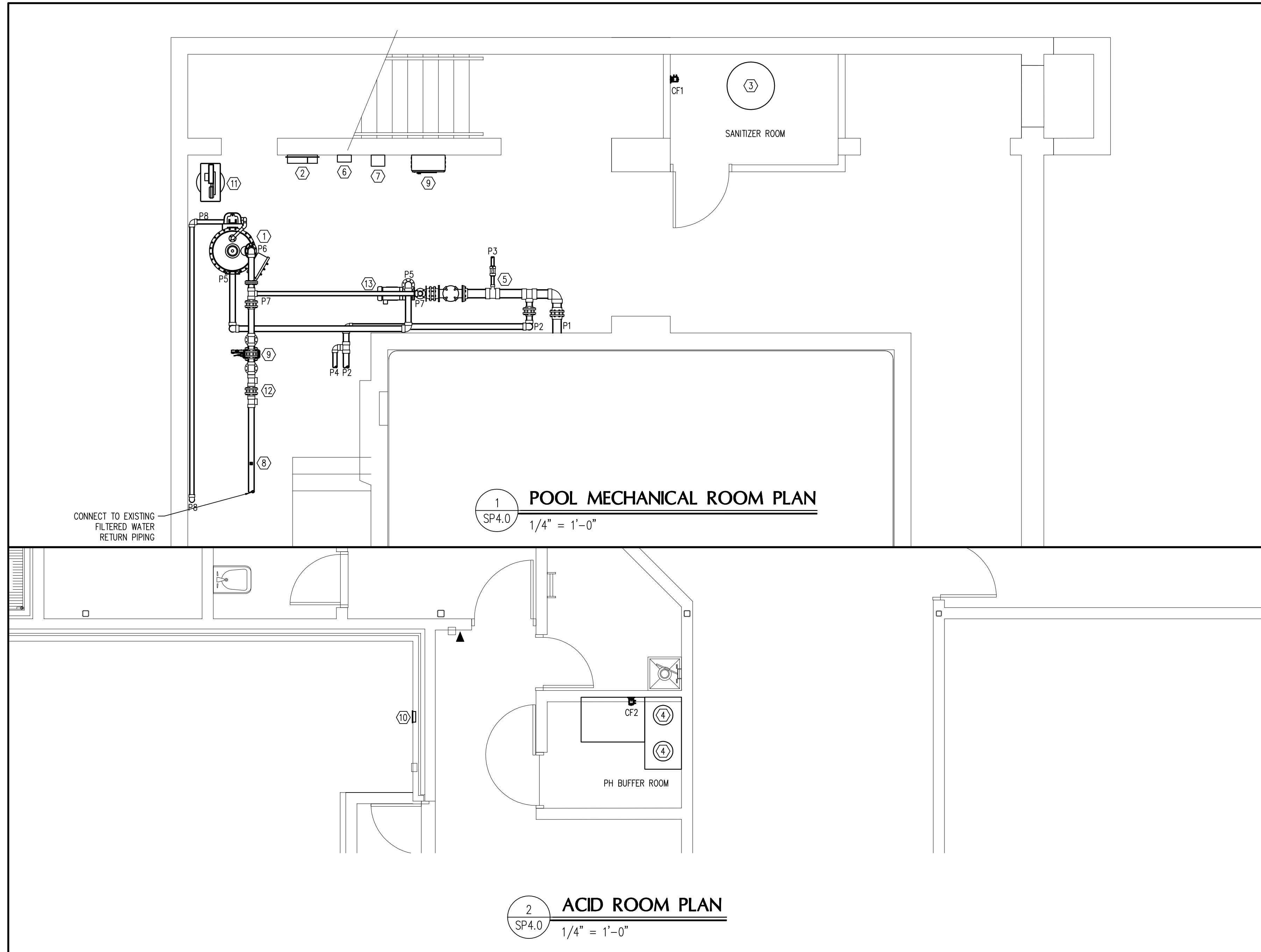
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**PROJECT NO.**  
**19040**  
**DRAWING NO.**  
**SP3.0 BP3**

**1 RENOVATED POOL PIPING PLAN**  
 SP3.0 1/4" = 1'-0"



PIPE SCHEDULE	
ID	DESCRIPTION
P1	6" FROM MAIN DRAINS TO PUMP - EXISTING TO REMAIN
P2	4" FROM SKIMMERS TO PUMP - EXISTING TO REMAIN
P3	2" DIRECT FILL LINE
P4	3" FROM NEW SWIMMER AND TRENCH DRAIN TO P2
P5	4" FROM PUMP TO POOL FILTER
P6	4" FROM POOL FILTER TO EXISTING FILTER WATER RETURN LINE TO POOL INLETS
P7	3" FROM P6 TO PPT - PRE-COAT LINE
P8	3" FROM POOL FILTER TO EXISTING BACKWASH CATCH BASIN

**GENERAL POOL MECHANICAL ROOM NOTES**

POOL PUMP STRAINER TO BE INSTALLED ON A HOUSEKEEPING PAD.

VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.

THE FOLLOWING INFORMATION SHALL BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING & DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS & POOL SYSTEMS SCHEMATICS.

REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.

MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.

PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.

3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.

4. ALL FLOW METERS SHALL BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FILTER RETURN.

5. THE BACKWASH PIPING SHALL TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH CATCH BASIN OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.

6. HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.

7. REFER TO DETAILS 1-6 ON DRAWING SP4.2 FOR INSTALLATION OF PIPE SUPPORTS.

**CHEMICAL TREATMENT**

- CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON SP5.0.
- INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S), AND HEATER(S).
- PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER 8/SP4.1.
- SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
- WATER CHEMISTRY CONTROLLERS SHALL CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
- THE CHEMICAL CONTROL SYSTEM BYPASS LINE SHALL SAMPLE WATER AFTER THE FILTERS AND BEFORE THE HEATER BYPASS LINE.
- VERIFY REMOTE ACCESS CAPABILITY TO ALL CHEMICAL CONTROLLERS. REFER TO ELECTRICAL.
- INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS SHALL BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER 9/SP4.1.

**ELECTRICAL**

- CPD'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
- POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS SHALL BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
- CONDUIT SHALL BE ROUTED OVERHEAD OR BELOW GRADE.

EQUIPMENT SCHEDULE	
ID	ITEM
1	FILTER SYSTEM
2	CHEMICAL CONTROLLER REFER: 2/SP4.1
3	CHLORINATION TANK REFER: 3/SP4.1
4	ACID TANK REFER: 4/SP4.1
5	DIRECT FILL LINE REFER: 7/SP4.2
6	WATER LEVEL CONTROLLER REFER: 11/SP4.1
7	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
8	FLOW METER SENSOR REFER: 10/SP4.1
9	UV TREATMENT SYSTEM & CONTROLLER (ALTERNATE #6) REFER: 7/SP4.1
10	CHLORINE FILL BOX REFER: 15/SP4.1
11	EXISTING AIR COMPRESSOR TO REMAIN
12	HEATER TEES (CONNECT TO EXISTING HEAT LOOP TO REMAIN)
13	EXISTING RECIRCULATION PUMP TO REMAIN REFER: 1/SP4.1

FILTER SCHEDULE										
POOL	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT.)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION RATE (GPM/SQ.FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
POOL	NEPTUNE BENSON	SP-29-36-500	1	RMF	1.30	257.7	1.14	294.0	0.5	147

NOTE:  
1. BACKWASH METHOD SHALL BE SEMI-AUTOMATIC.  
2. ALL FILTER SUPPORTS SHALL BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.  
3. FILTER MANUFACTURER SHALL CERTIFY FILTER MEDIA.  
4. VALVES SHALL BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.  
5. MANUFACTURER SHALL PROVIDE GUARANTEES, WARRANTIES AND SPARE PARTS NECESSARY FOR STANDARD FILTER OPERATION AND MAINTENANCE.  
6. FILTER TANK ASSEMBLIES SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE OF 1.6 GPM PER SQUARE FOOT OF FILTER MEDIA.  
7. PROVIDE HARD PLUMBED SCHEDULE 80 PIPE FROM BOTTOM OF THE FILTER TANK TO WASTE PIT IN ORDER TO DRAIN TANK AND MEDIA ON AN NEEDED BASIS. PIPE SLOPED FROM FILTER TANK TO WASTE PIT.  
8. PROVIDE NON-HAZARDOUS, NON-TOXIC, FILTER MEDIA, PARTICLE SIZE SHALL HAVE MEDIAN PORE SIZE OF NO GREATER THAN 20 MICRONS.

CHEMICAL FEED SCHEDULE						
ID	DESCRIPTION	MANUFACTURER	MODEL	HP	FLOW	NOTES
CF1	SODIUM HYPOCHLORITE PUMP REFER: 3/SP4.1	IMI	C771-26S	FRAC	240 GAL/DAY	1,2,3,4
CF2	ACID FEED PUMP REFER: 4/SP4.1	IMI	B121-392SI	FRAC	60 GAL/DAY	1,2,3,4

NOTE:  
1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. ALTERNATE MANUFACTURER: STENNER OR APPROVED EQUAL.  
2. PROVIDE WITH 120 VOLTS SINGLE PHASE, ADJUSTABLE FEED.  
3. INTERLOCK WITH POOL RECIRCULATION PUMP.  
4. INTERLOCK CHEMICAL FEED PUMP WITH FILTER TO PREVENT FEEDING DURING PRE-COAT CYCLE.

UV TREATMENT SYSTEMS SCHEDULE (ALTERNATE #6)					
POOL	MODEL NUMBER	US EPA 3-LOG AND CALCULATED 40M/CM2 (GPM)	LAMPS	POWER (KW)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
POOL	WF-115-4-N	396	1 @ 1.5KW	1.5	208 V (14)-20A

NOTE:  
THE BASIS OF DESIGN MANUFACTURER IS ENGINEERED TREATMENT SYSTEMS.

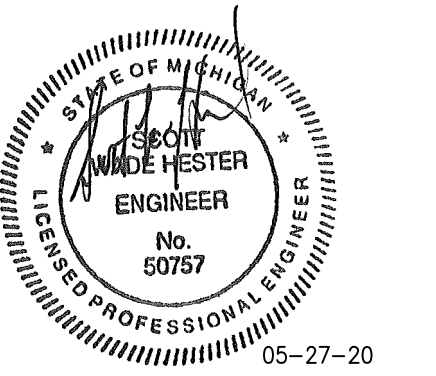


ARCHITECTURE  
TMP ARCHITECTURE INC

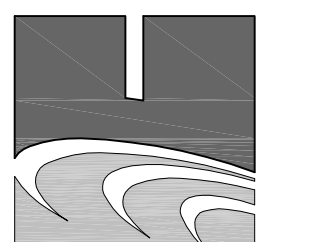
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PROJECT TITLE  
**New High Point School**  
**Washtenaw Intermediate School District**  
1735 South Wagner Road  
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DRAWING TITLE  
**POOL MECHANICAL ROOM PLAN**

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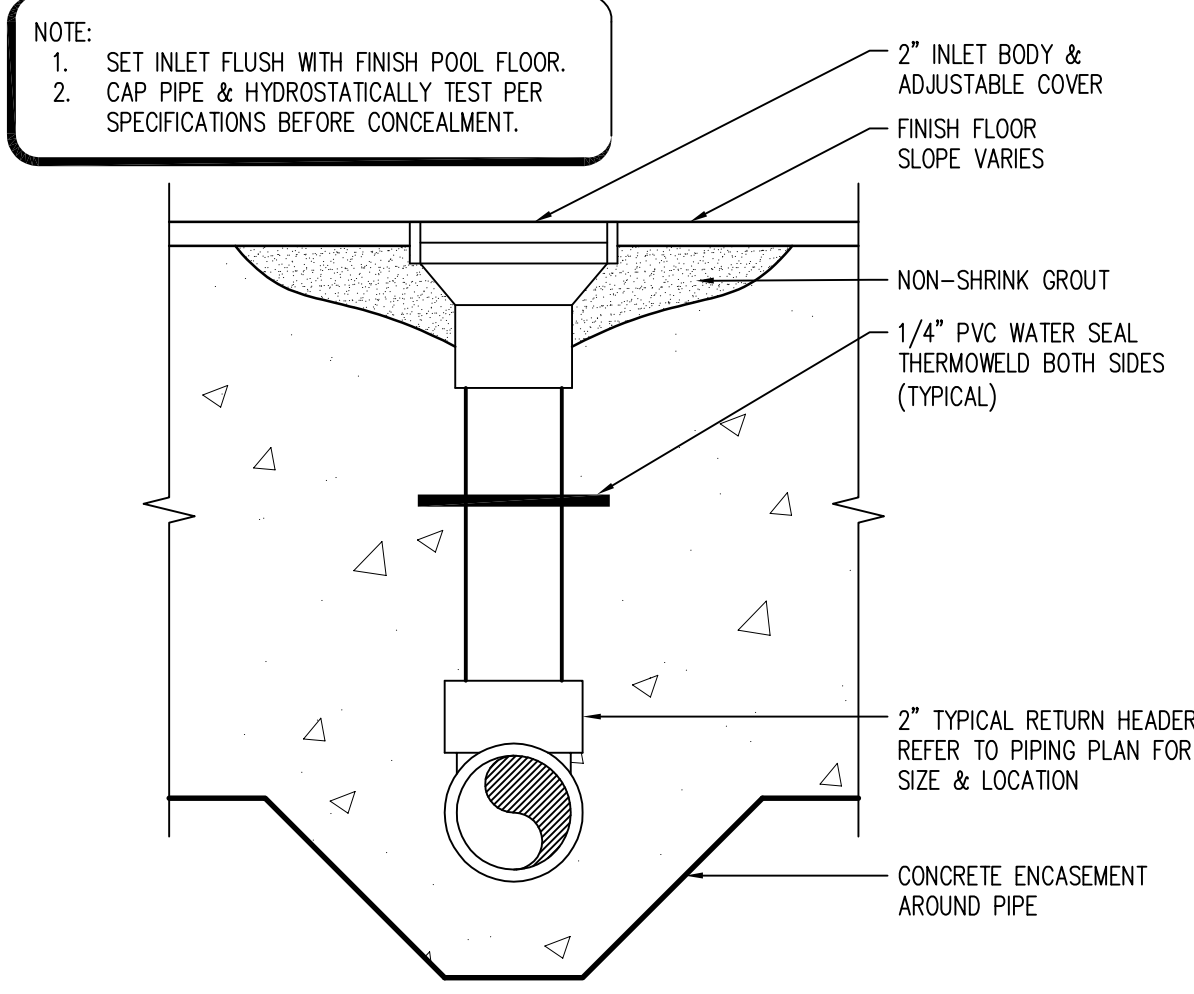
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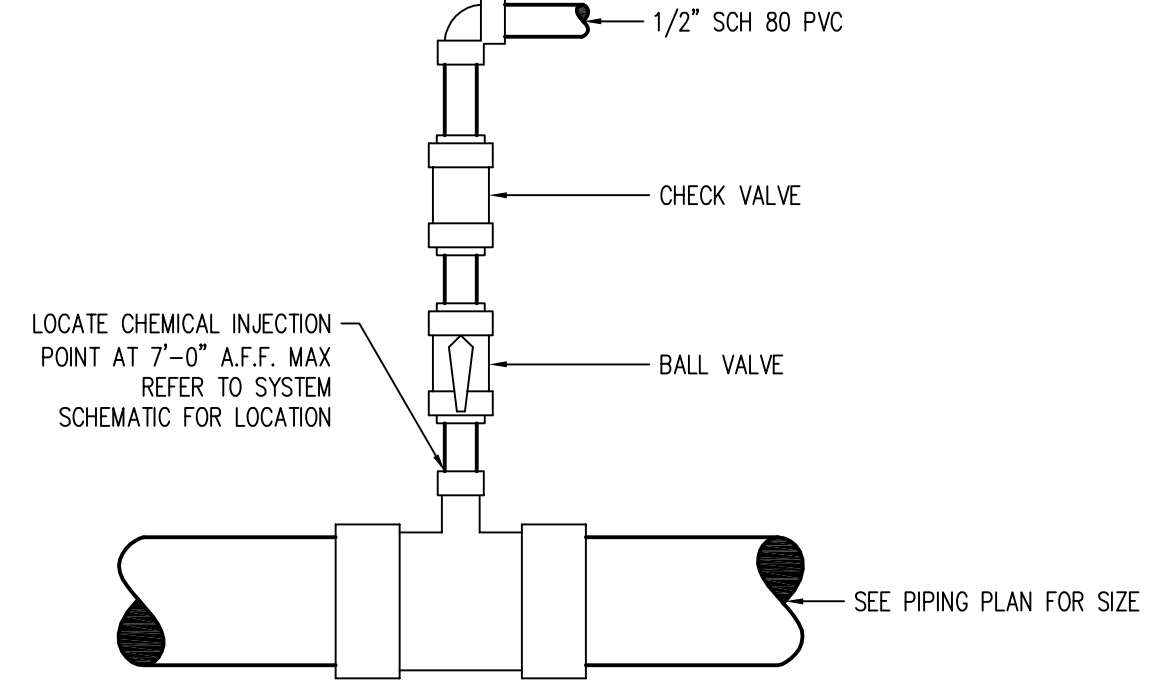
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**SP4.0 BP3**

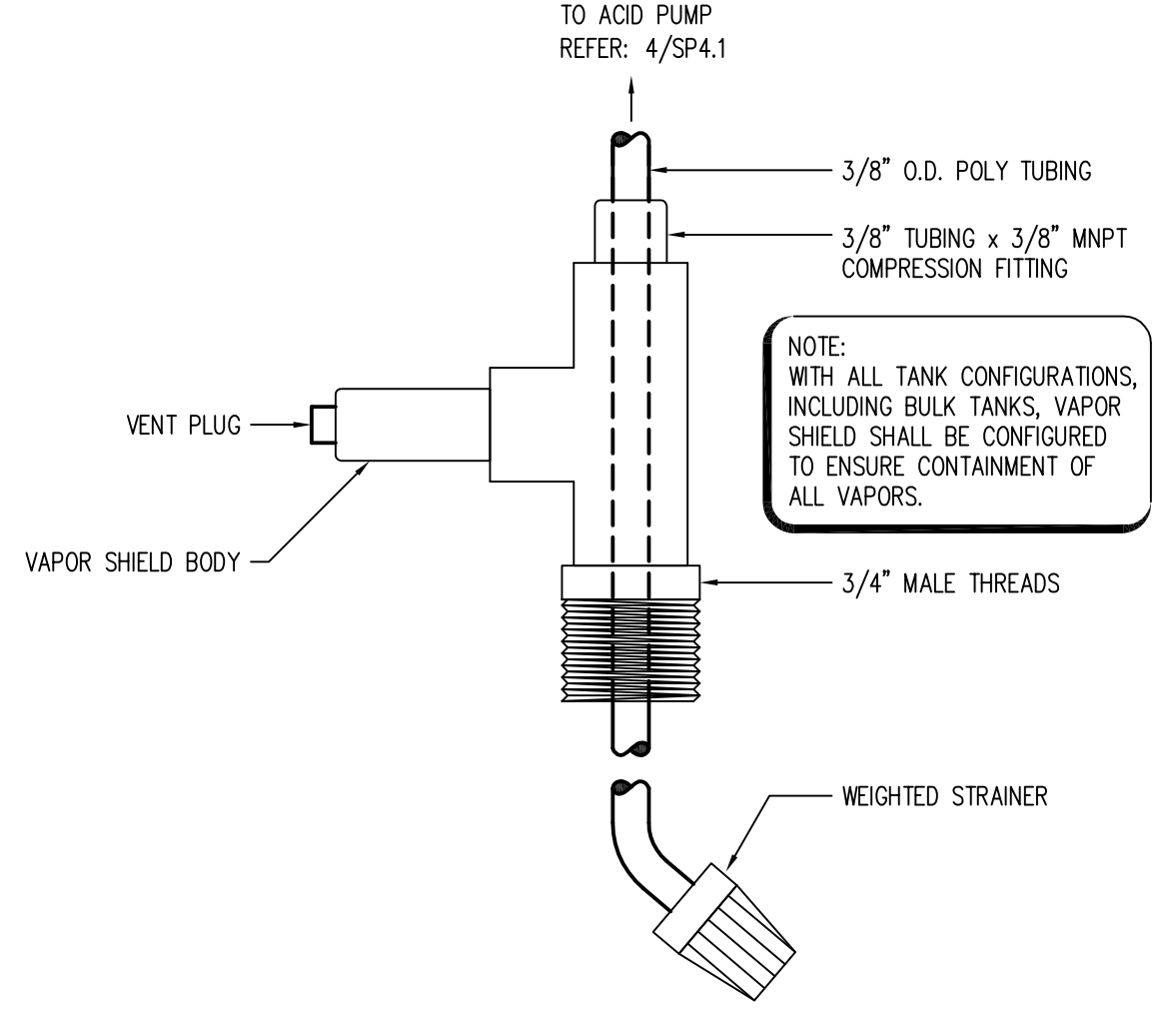




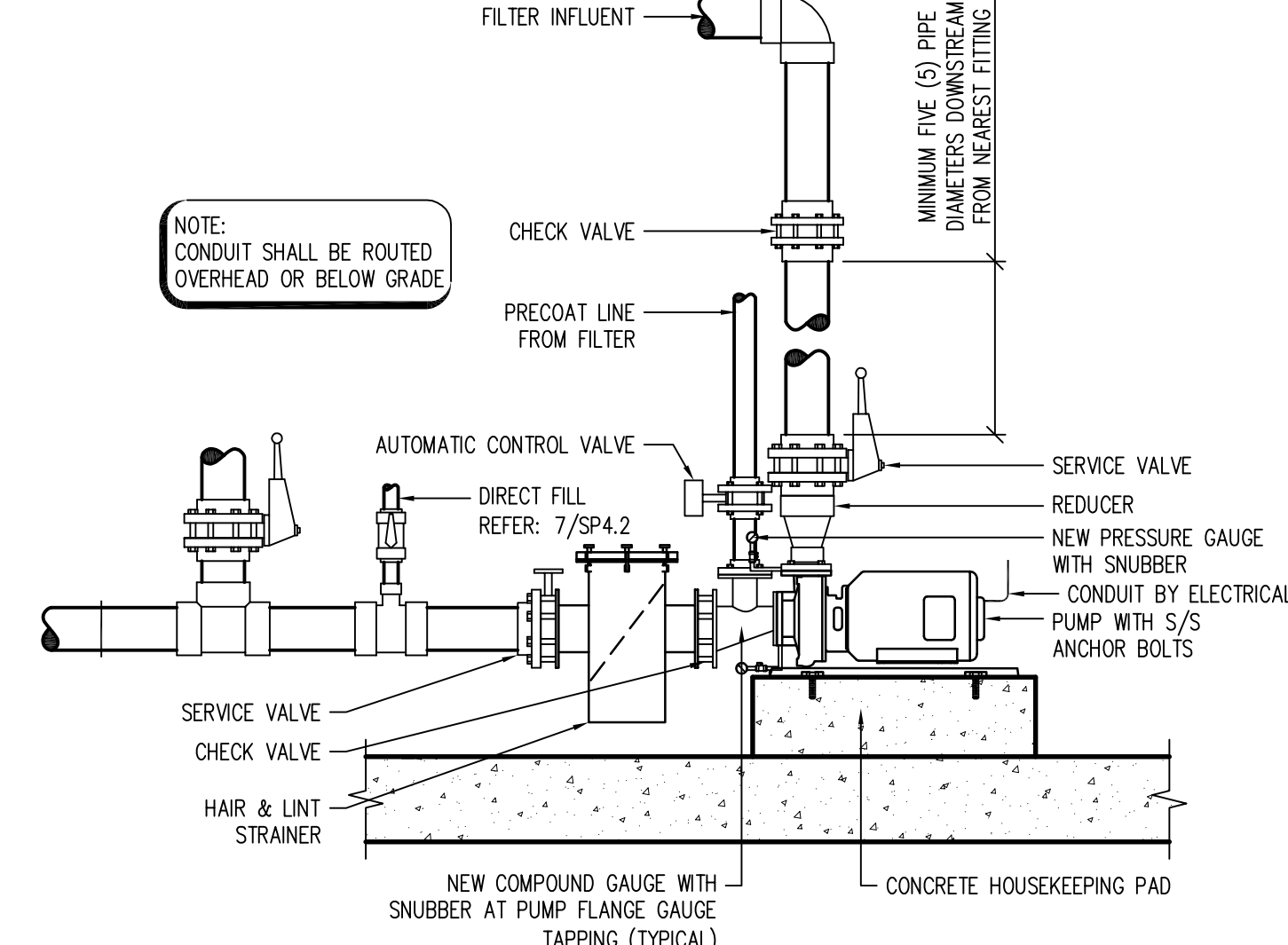
13 FLOOR INLET  
SP4.1  
3" = 1'-0"



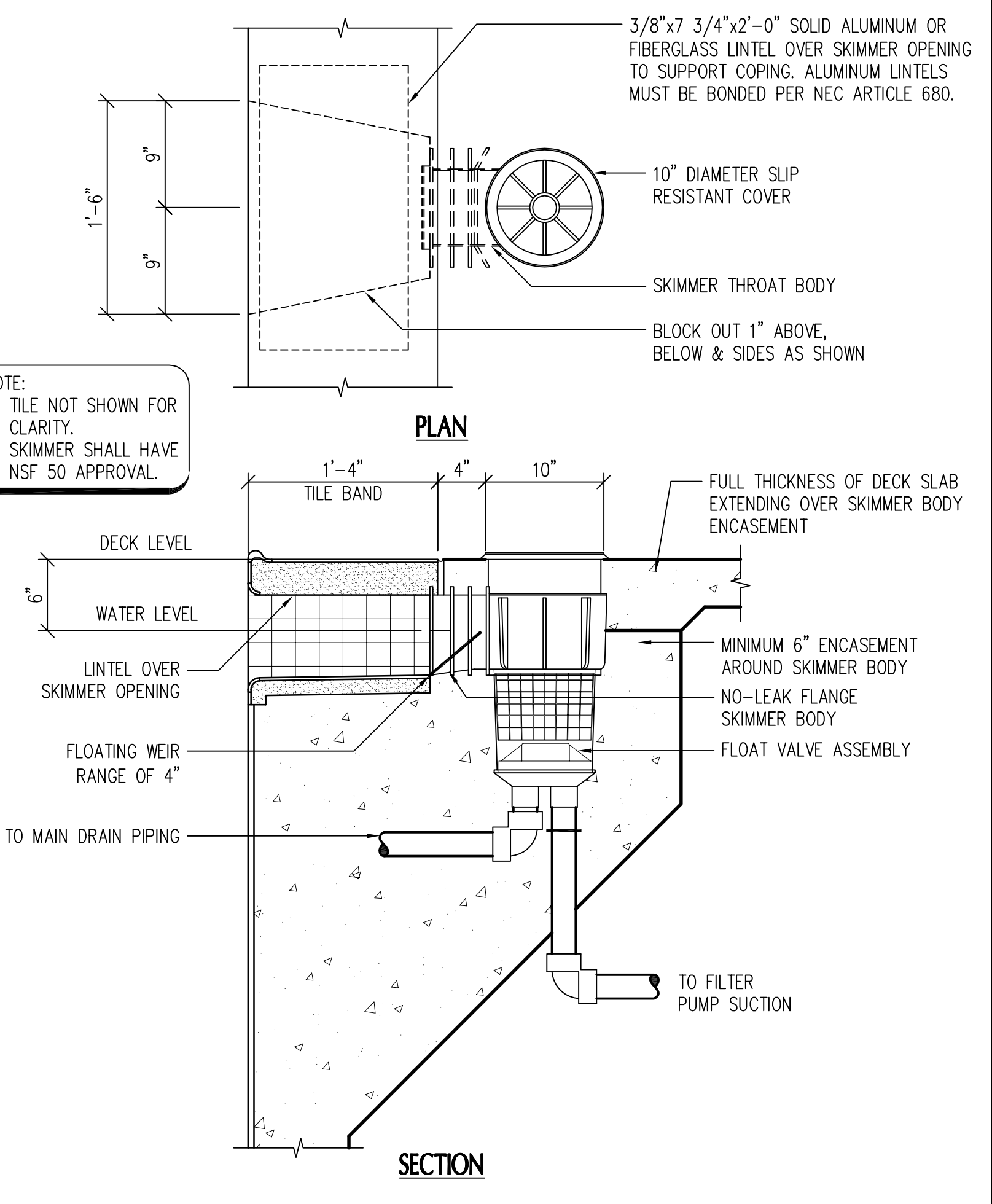
9 CHEMICAL TAP AND VALVE  
SP4.1  
1" = 1'-0"



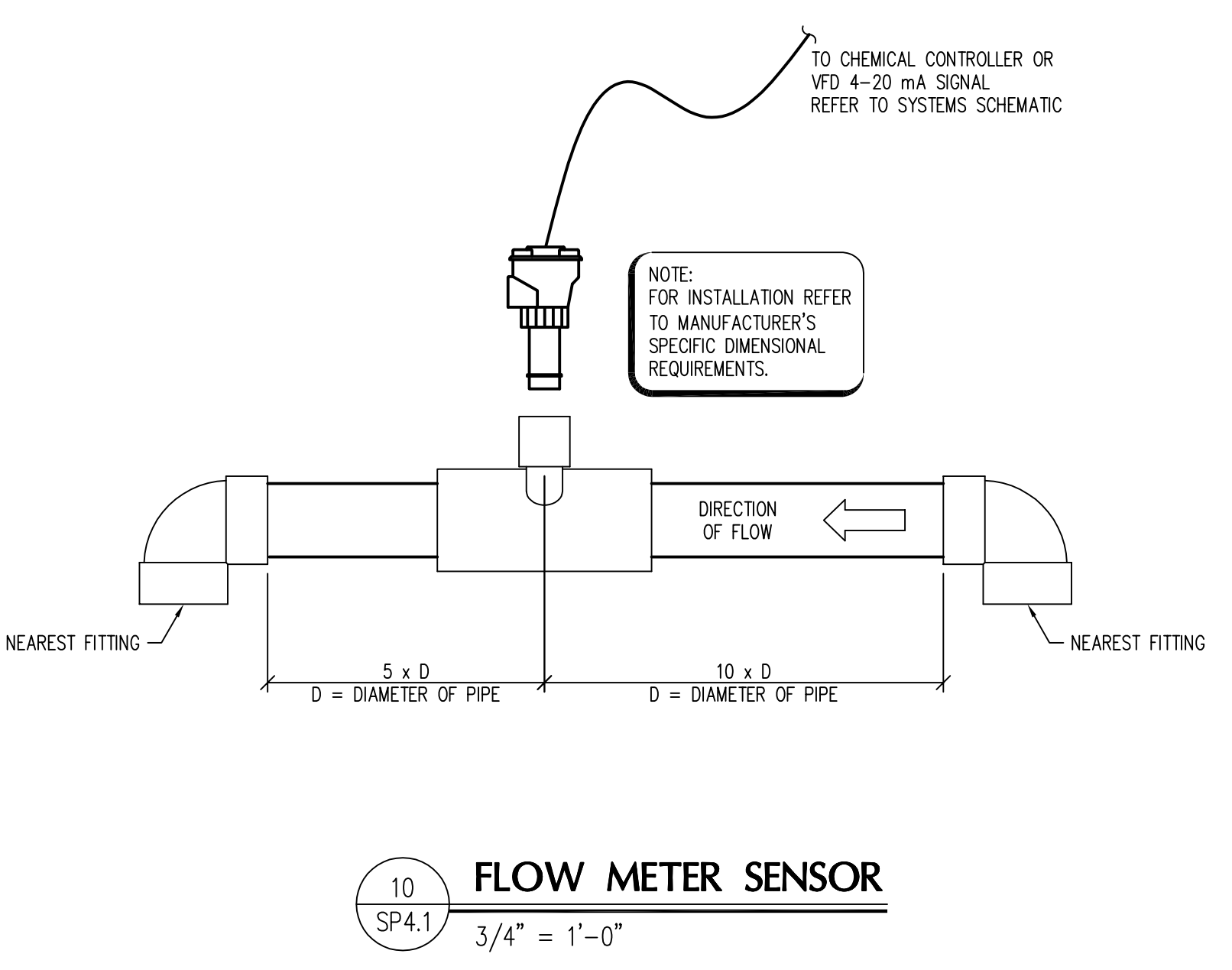
5 ACID VENT PIPING  
SP4.1  
6" = 1'-0"



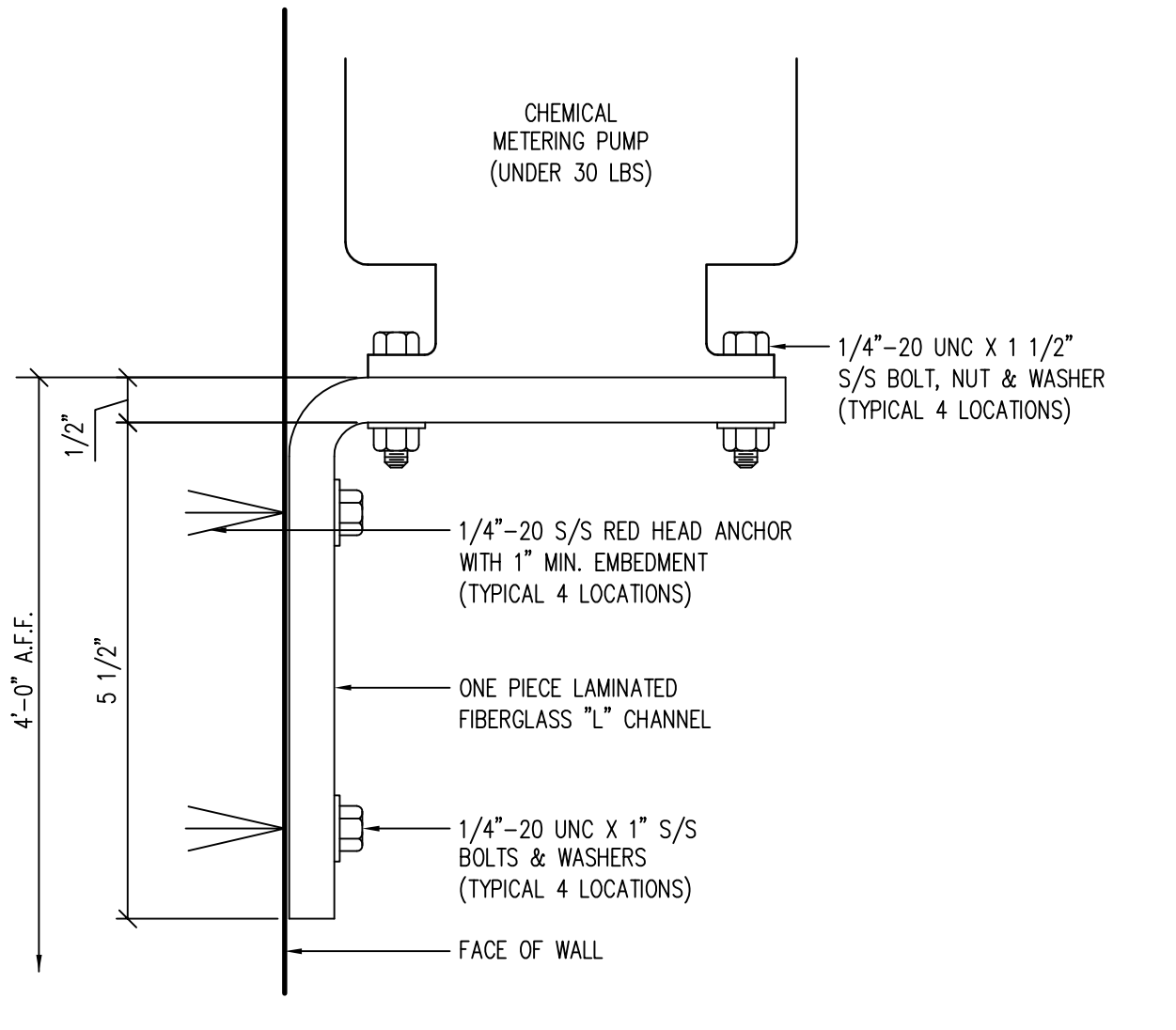
1 EXISTING PUMP DETAIL  
SP4.1  
1/2" = 1'-0"



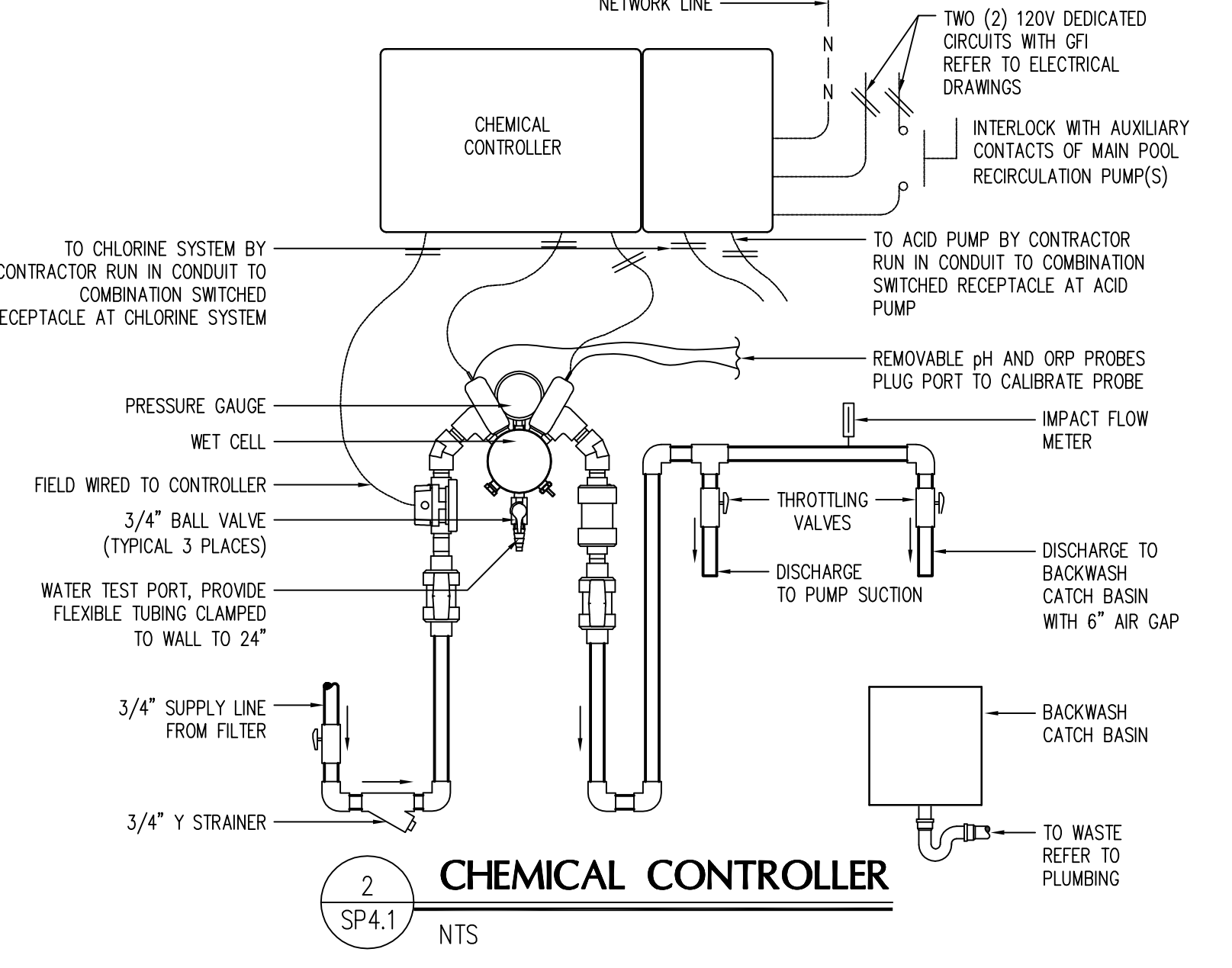
14 SKIMMER DETAIL  
SP4.1  
1" = 1'-0"



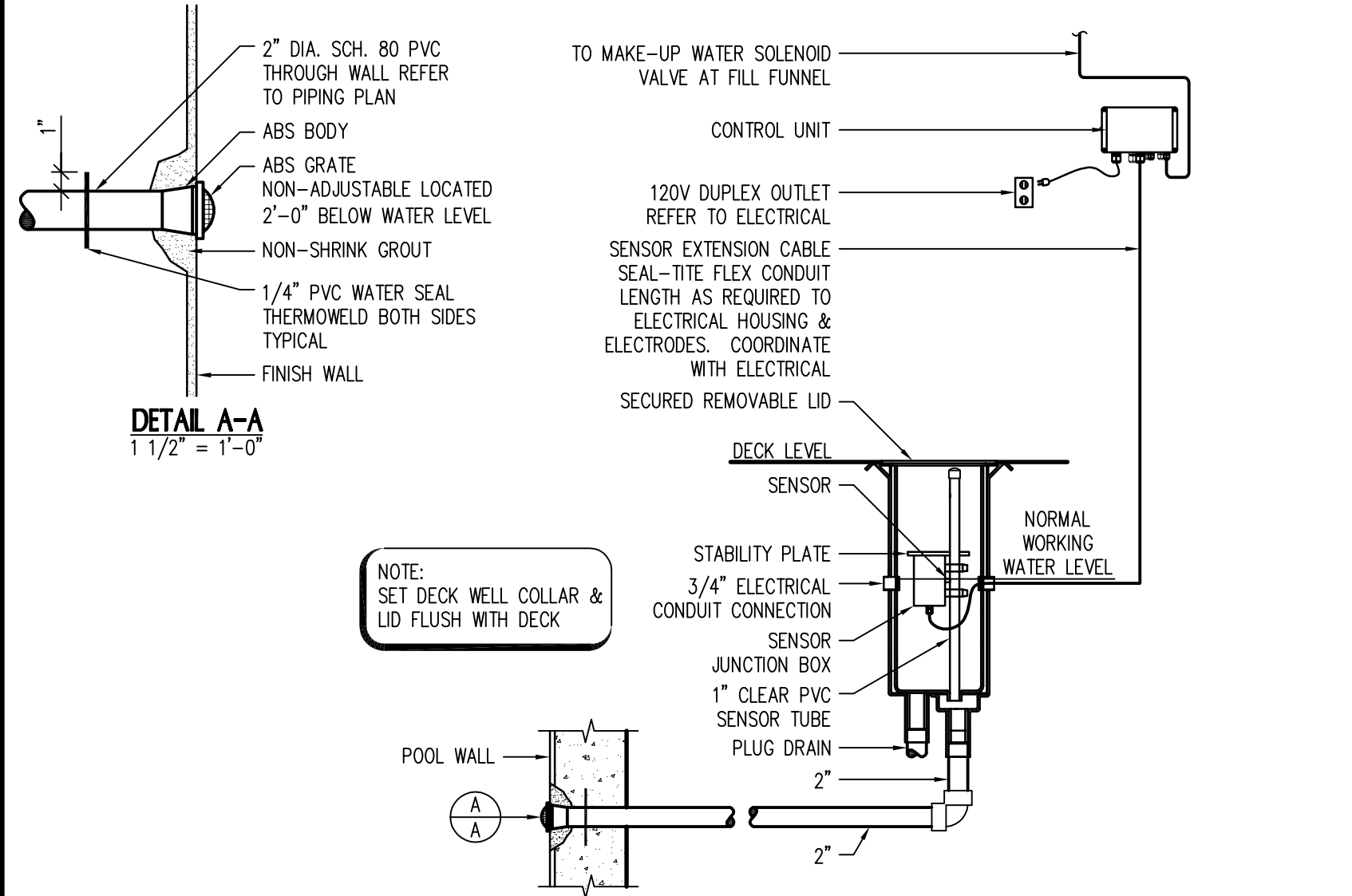
10 FLOW METER SENSOR  
SP4.1  
3/4" = 1'-0"



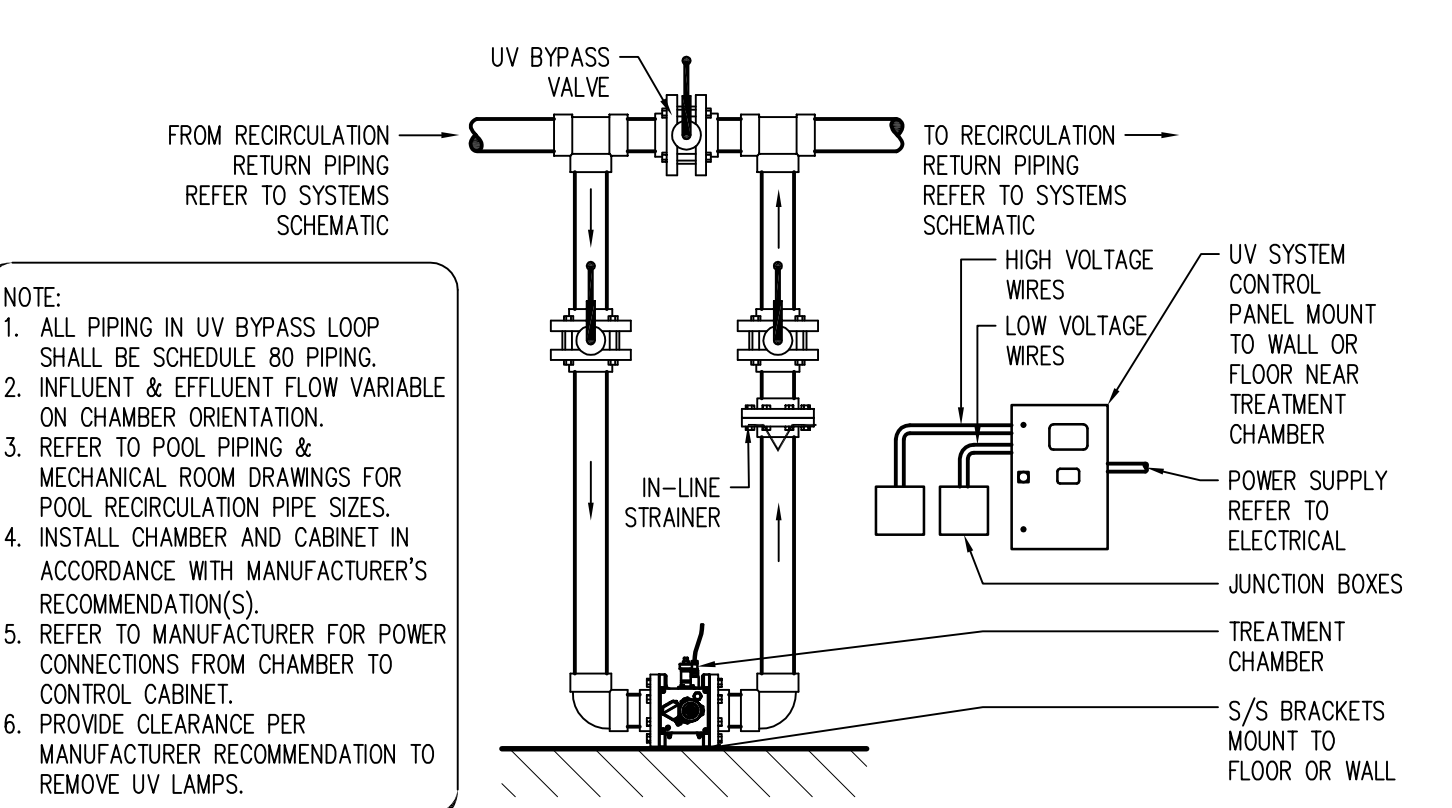
6 CHEMICAL PUMP SHELF  
SP4.1  
6" = 1'-0"



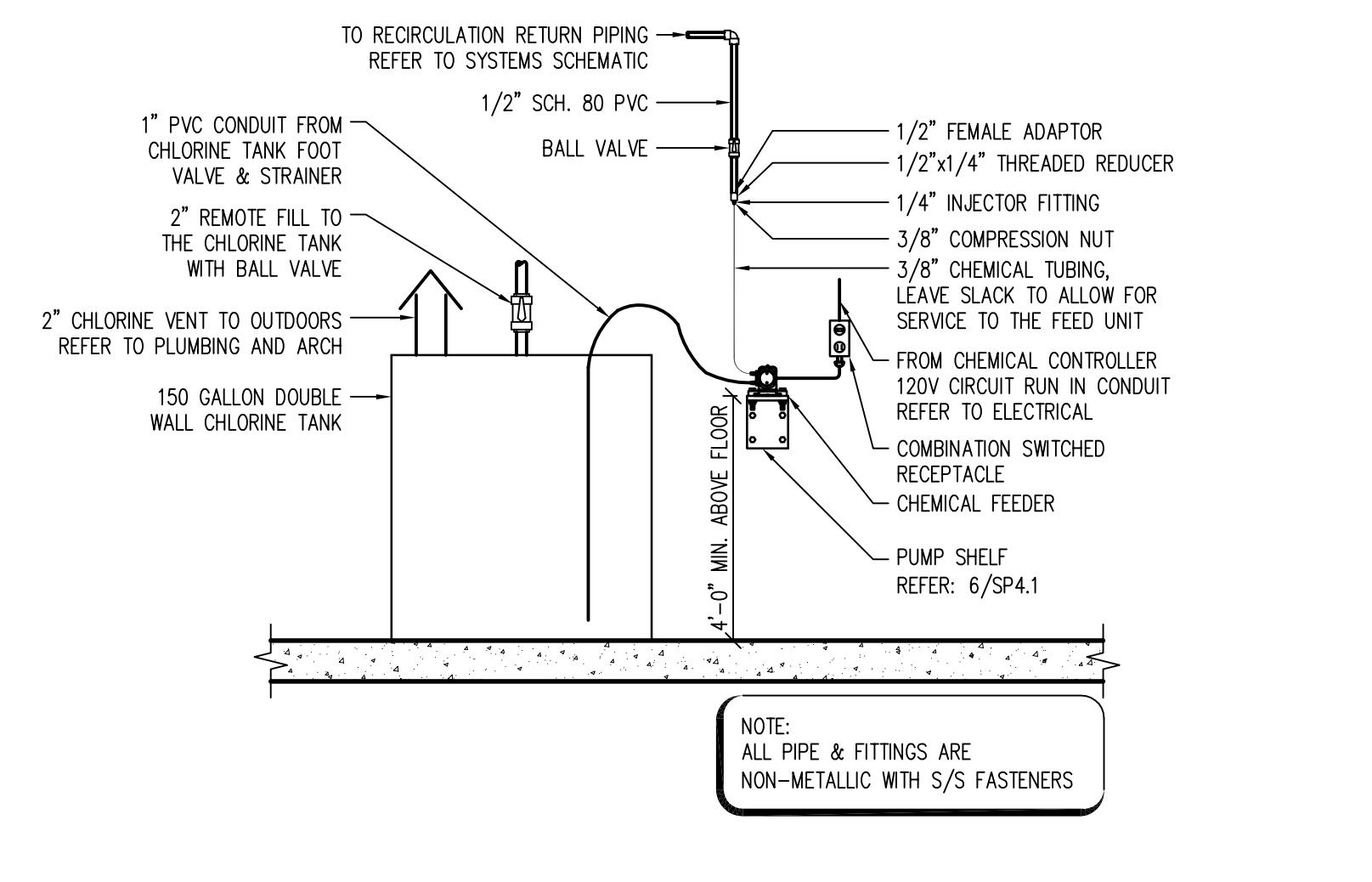
2 CHEMICAL CONTROLLER  
SP4.1  
NTS



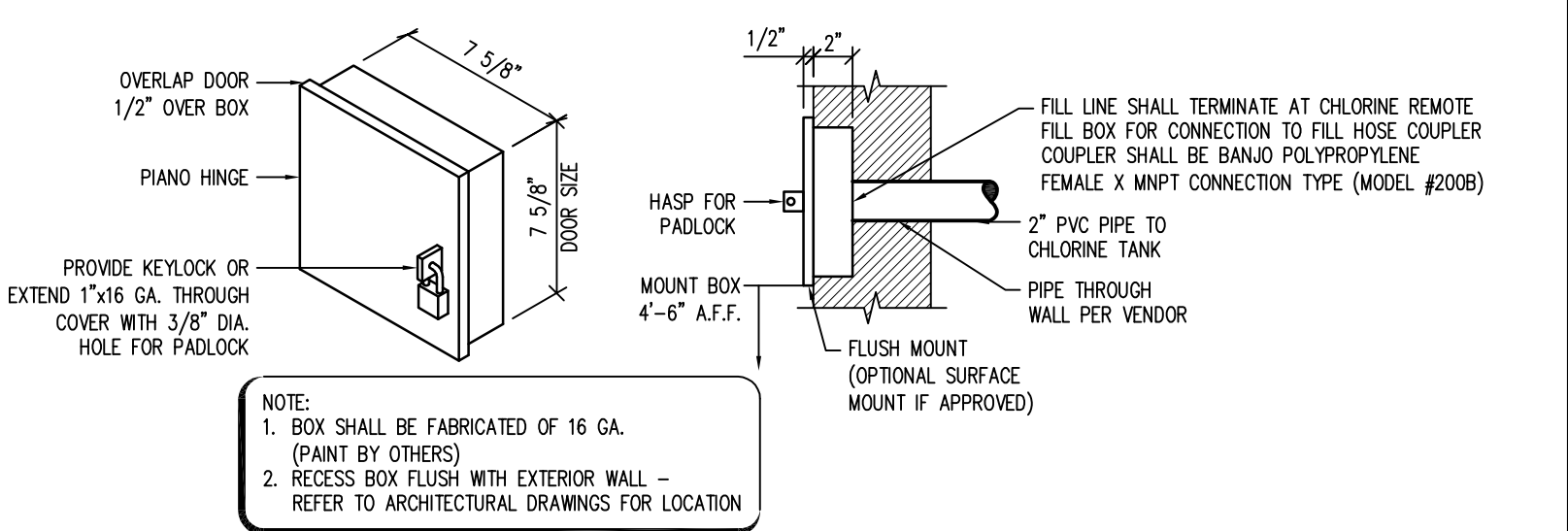
11 WATER LEVEL CONTROLLER  
SP4.1  
3/4" = 1'-0"



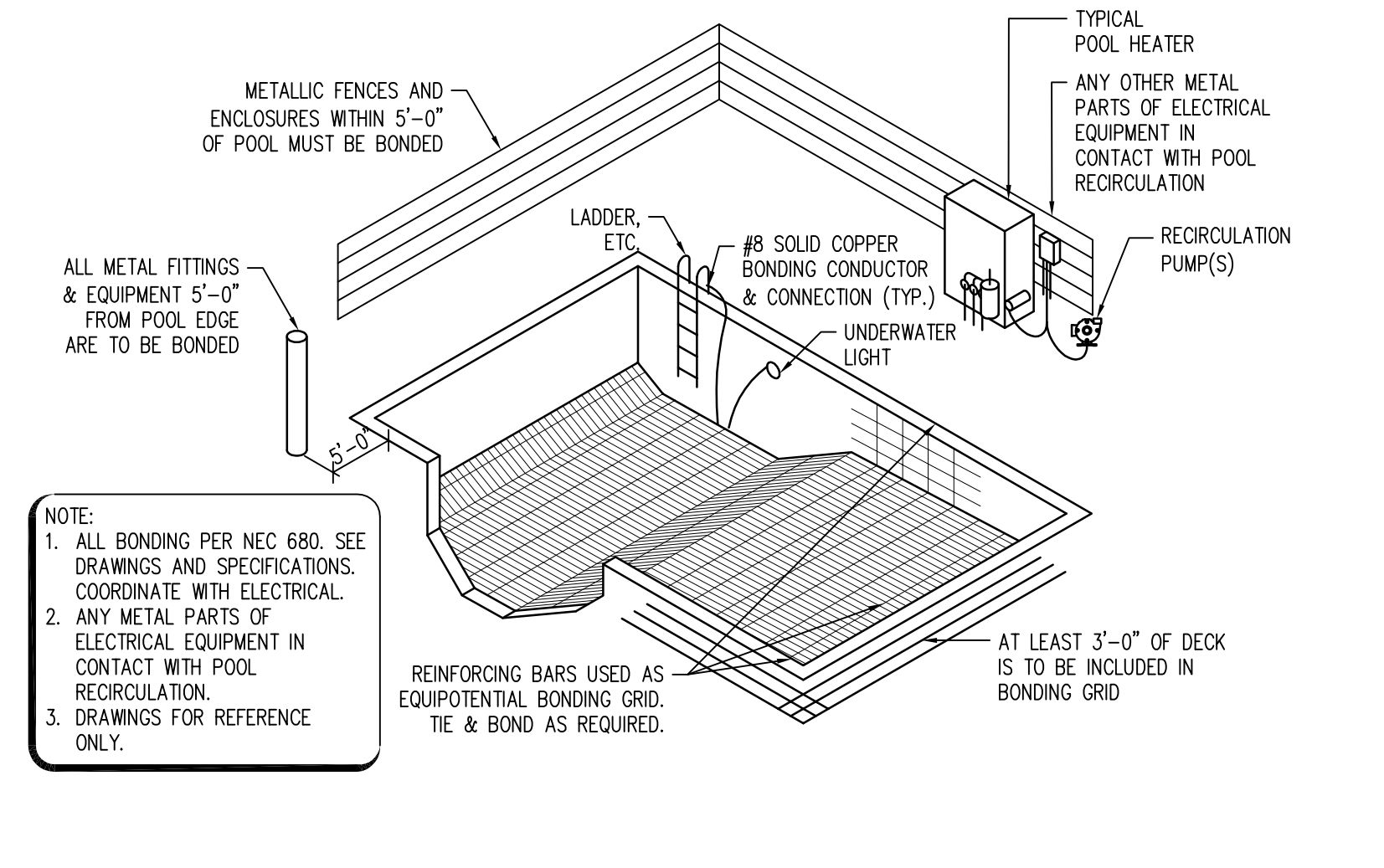
7 UV TREATMENT SYSTEM (ALTERNATE #6)  
SP4.1  
1/2" = 1'-0"



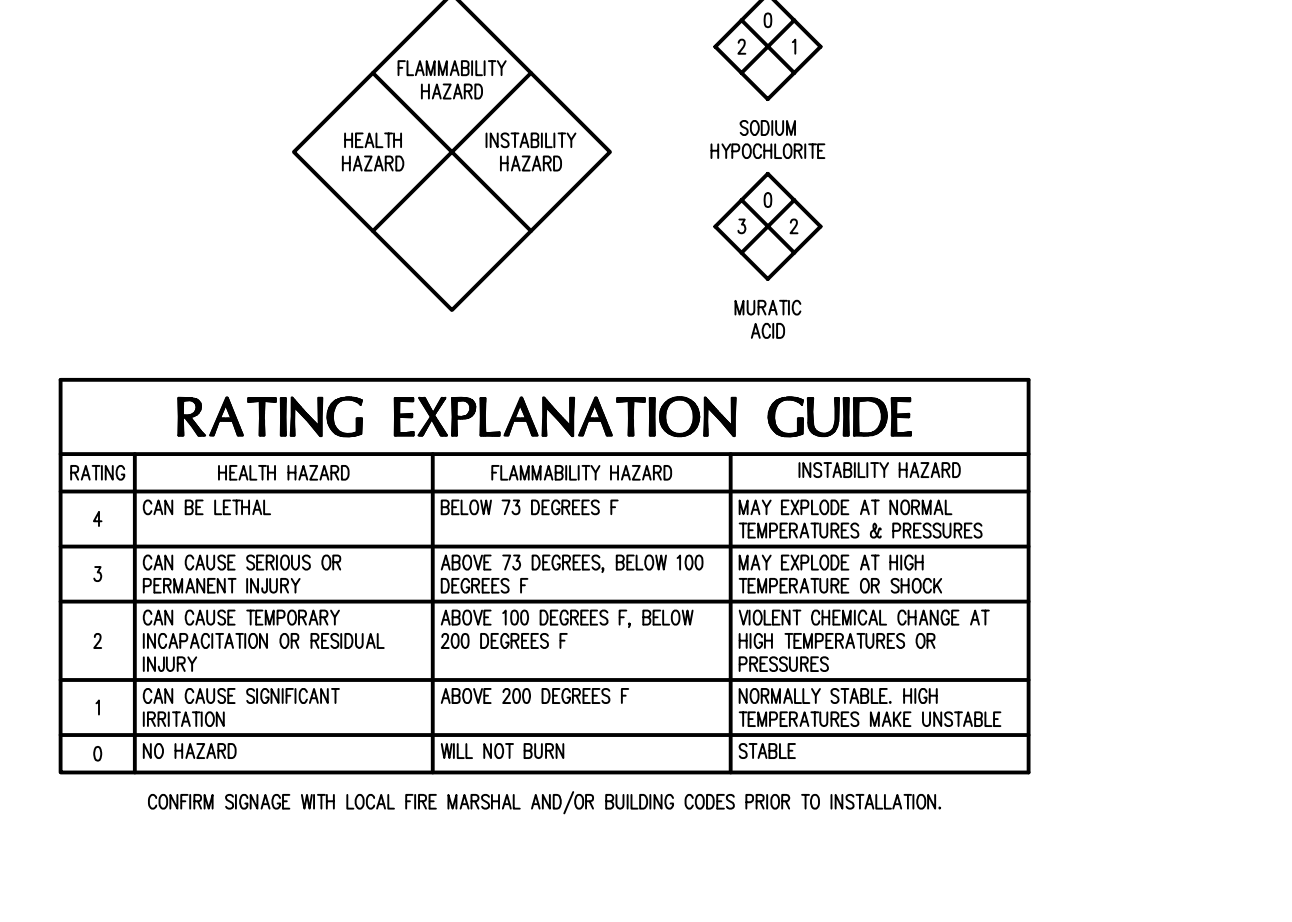
3 CHLORINATION SYSTEM  
SP4.1  
3/8" = 1'-0"



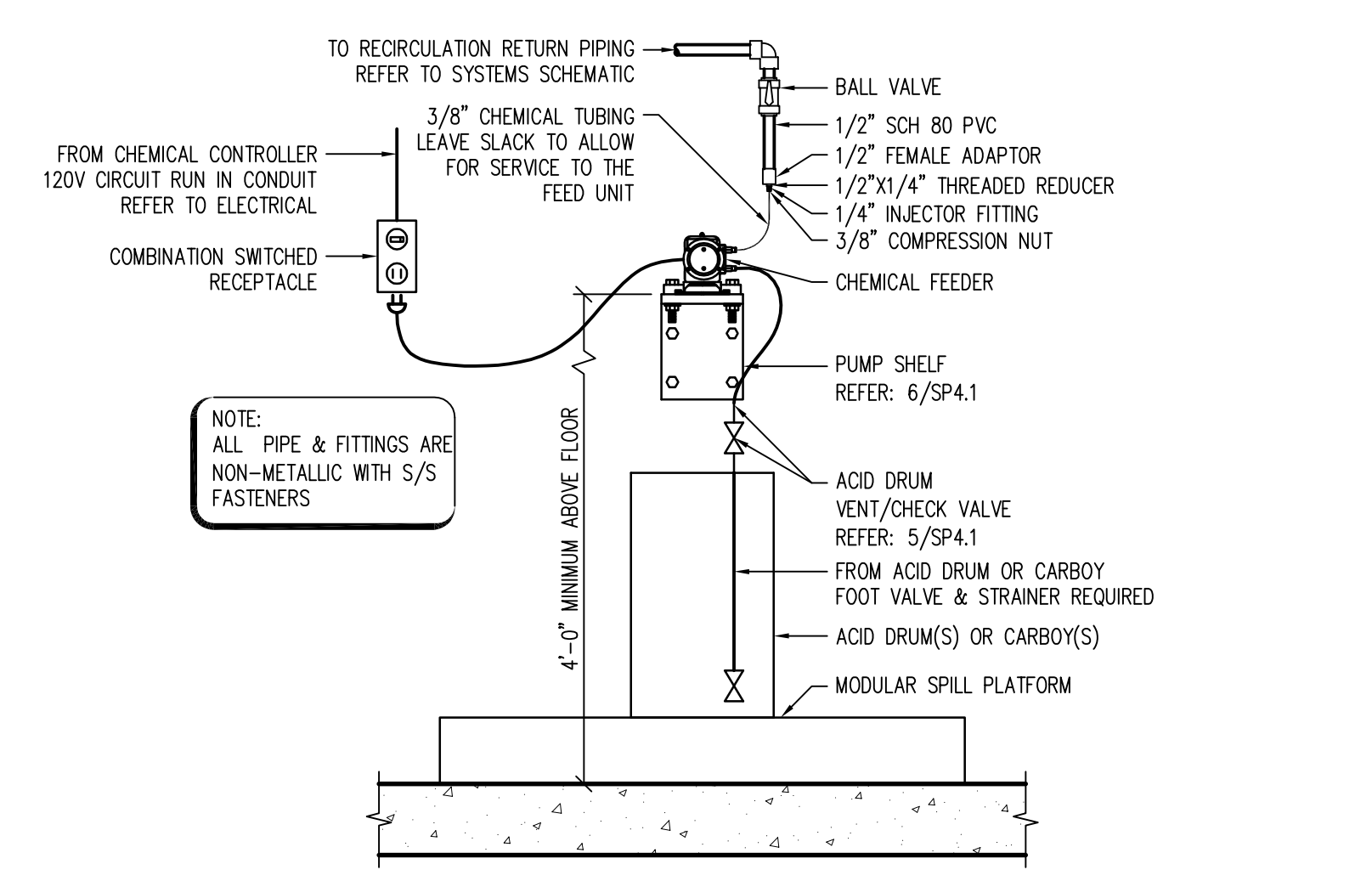
15 CHLORINE FILLBOX  
SP4.1  
1 1/2" = 1'-0"



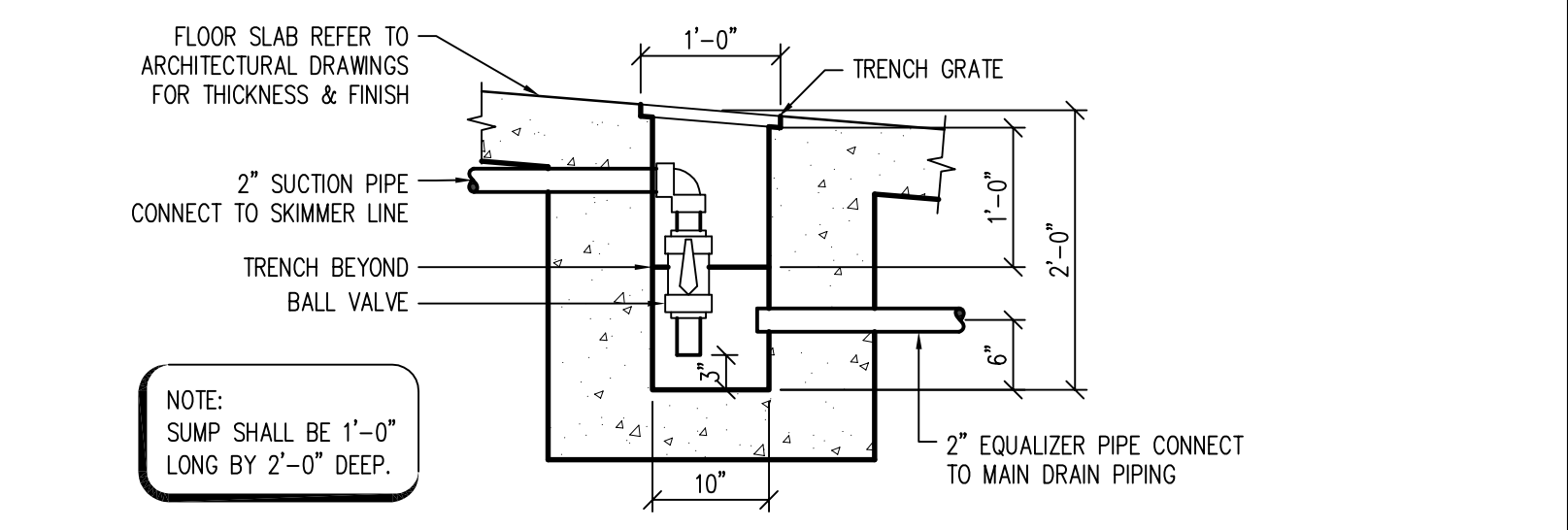
12 TYPICAL POOL BONDING DETAIL  
SP4.1  
NTS



8 HAZARD SIGNAGE  
SP4.1  
NTS

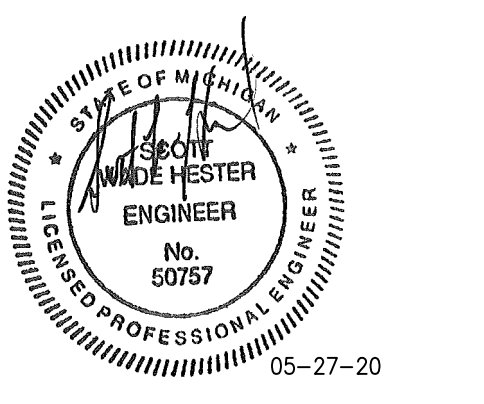


4 ACID SYSTEM  
SP4.1  
3/4" = 1'-0"

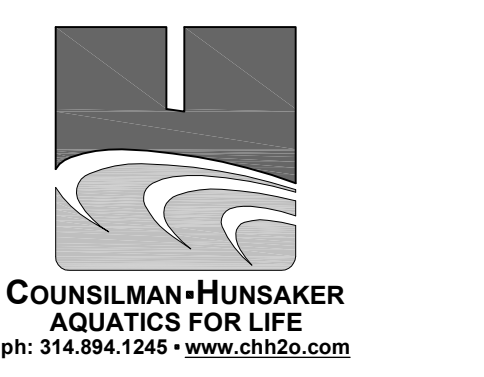


16 TRENCH SUMP  
SP4.1  
3/4" = 1'-0"

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**PROJECT TITLE**  
**New High Point School**  
**Washtenaw Intermediate School District**  
1735 South Wagner Road  
Ann Arbor, Michigan

**DRAWING TITLE**  
**POOL MECHANICAL DETAILS**

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