

CODE REQUIREMENTS

CODE REQUIREMENTS

1. ALL CONSTRUCTION RELATED TO THE POOL AND SURROUNDING POOL AREA SHALL BE IN FULL ACCORDANCE WITH THE LAC TITLE 51 XXIV CODE, AND ALL OTHER APPLICABLE CODES, AND STANDARDS.
2. THIS POOL IS AN EXISTING OUTDOOR POOL WHICH IS BEING REFURBISHED.

NOTE: GOING FORWARD WITHIN THIS DOCUMENT: ALL SUBSECTIONS REFERENCED FROM THE LAC TITLE XXIV CODE SHALL EXCLUDE "LAC TITLE 51 XXIV CODE" AND LIST ONLY THE SPECIFIC SUBSECTION BEING REFERENCED. IT IS UNDERSTOOD THAT ALL SUBSECTIONS BEING REFERENCED WITHIN THIS DOCUMENT ARE UNDER LAC TITLE 51 XXIV CODE.

DESIGN REQUIREMENTS

3. PER 301.B - ALL INTERIOR SURFACES OF THE POOL SHALL RECEIVE A LIGHT COLORED PLASTER ON ALL SURFACES NOT TILED. PLASTER TO BE WHITE.
4. PER 305.A - ALL POOL WALLS SHALL BE VERTICAL AND PLUMB.
5. PER 311.A - THE MINIMUM WATER DEPTH IS 3'-8".
6. PER 311.C - THIS POOL IS DESIGNED NOT TO EXCEED THE 4'-6" WATER DEPTH, THEREFORE NOT REQUIRING A 4" MINIMUM CONTRASTING BAND. DEEPEST WATER DEPTH ON THIS POOL IS 4'-4".
7. PER 311.E - DUE TO THE ESTABLISHED WATER DEPTHS, THERE WILL BE NO DIVING ALLOWED IN THIS POOL. ALL WATER DEPTH TILE MARKER LOCATIONS SHALL ALSO INCLUDE A 6"x6" INTERNATIONAL NO DIVING SYMBOL.
8. PER 315.A - THE POOL TURNOVER RATE SHALL BE SIZED AT 2 HOURS.
9. PER 317.D - THIS POOL WILL HAVE AN UNDERWATER SEAT BENCH THAT IS IN FULL COMPLIANCE WITH THE DOCUMENT ENTITLED "VARIANCE CRITERIA FOR UNDERWATER SEAT BENCHES" (SEE UNDERWATER SEAT BENCH REQUIREMENTS).
10. PER 323.B - POOL DECK SHALL BE CONSTRUCTED OF PAVERS WHICH ARE SLIP RESISTANT AND EASILY CLEANABLE.
11. PER 323.F.3 - THE MINIMUM CONTINUOUS UNOBSTRUCTED DECK WIDTH SHALL BE 4 FEET.
12. PER 323.G - THE POOL DECK SHALL BE ¼" PER 1 FOOT. (SEE PLAN SHEET PL-1.0 FOR SLOPE DIRECTION). NOTE THAT WATER SHALL SHED OFF OF THE POOL DECK, AND INTO EXISTING LANDSCAPED PLANS WHICH EXHIBIT DRAINAGE TO CATCH STORM WATER.
13. PER 323.J - CONTROL JOINTS AROUND THE COPING AND THROUGHOUT THE DECK SHALL BE CONSTRUCTED TO A MINIMUM WIDTH OF ¼".
14. PER 323.O - POOL DECK SHALL BE SLOPED AS INDICATED ON SHEET PL-1.0.
15. PER 323.P - SITE DRAINAGE SHALL BE INSTALLED TO EFFECTIVELY SHED WATER FROM POOL DECK AND POOL, AND PREVENT FLOODING OR EROSION OF LANDSCAPING ONTO POOL DECK OR POOL.
16. PER 323.Q - ALL POOL CIRCULATION SYSTEM PIPING SHALL BE TESTED WITH AN INDUCED STATIC HYDRAULIC PRESSURE TEST AT 25 PSI FOR 30 MINUTES, AND SHALL BE PERFORMED BEFORE ANY OF THE PIPING IS COVERED UP. PIPING WILL REMAIN UNDER PRESSURE THROUGHOUT THE ENTIRE DURATION OF THE CONSTRUCTION PROCESS AS MUCH AS FEASIBLY POSSIBLE.
17. PER 323.S - A HOSE BIB AND VACUUM BREAKER SHALL BE PROVIDED FOR WASHING DOWN THE ENTIRE POOL DECK AREA.
18. PER 325 - TWO MEANS OF EXIT/EGRESS IS PROVIDED ON THIS POOL BY MEANS OF STAIRS EACH WITH A HANDRAIL.
19. PER 327 - ALL STAIR TREADS ARE 12", ALL RISERS ARE UNIFORMLY 12", WITH THE BOTTOM RISER VARYING NO MORE THAN PLUS OR MINUS 2", ONE HANDRAIL SHALL BE PROVIDED, AND SHALL BE NO MORE THAN 18 INCHES HORIZONTAL DISTANCE FROM THE FACE OF BOTTOM RISER. THE OUTSIDE DIAMETER OF THE HANDRAIL IS 1.90" O.D.,.
20. PER 329 - THIS POOL DOES NOT REQUIRE A POOL LADDER, AS THE EXIT/EGRESS REQUIREMENTS ARE MEET WITH TWO SETS OF STAIRS WITH HANDRAILS RESPECTIVELY PER CODE.

CIRCULATION SYSTEMS

21. PER 501 - ALL POOL EQUIPMENT IS SIZED FOR A 2 HOUR TURNOVER, AND ALL POOL EQUIPMENT SHALL MEET NSF 50 PER.
22. PER 503.A - WATER VELOCITY FOR RETURN PIPING SHALL NOT EXCEED 8FPS, AND VELOCITY FOR THE SUCTION PIPING SHALL NOT EXCEED 6 FPS. (SEE ATTACHED VELOCITY CHART AS SHOWN ON PLAN SHEET PL-1.1)
23. PER 503.C.1 - THIS POOL SHALL BE PROVIDED WITH A FLOW METER SHOWING FLOW RATE THROUGH THE FILTER SYSTEM IN GALLONS PER MINUTE.
24. PER 505 - PROPERLY SIZED SAND FILTER SHALL BE PROVIDED WITH A SIGHT GLASS TO DETERMINE WATER CLARITY.
25. PER 507 - A RECIRCULATION PUMP SHALL BE PROVIDED WHICH MEETS OR EXCEEDS THE MAXIMUM FLOW RATE FOR THE POOL RECIRCULATION SYSTEM.
26. PER 509 - THIS POOL SHALL HAVE A TOTAL OF 4 RETURN INLETS (2 DIRECTIONAL EYEBALL INLETS, AND 2 ADJUSTABLE FLOOR RETURN INLET ON THE TOP LANDINGS OF THE STEPS AS SHOWN PER PLAN PL-1.0 AND PL-1.1. TWO MAIN DRAINS ARE TO BE LOCATED AS SHOWN ON PLANS, AND EACH TO ACCOMMODATE THE MAXIMUM FLOW RATE FOR THIS POOL. ALL RETURN INLETS PROVIDED MEET THE MINIMUM OF TWO INLETS PER 600 SQUARE FEET OF WATER SURFACE AREA.
27. PER 511 - ALL WALL RETURN INLETS AND FLOOR RETURN INLET SHALL BE ADJUSTABLE. THE WALL RETURN INLETS ARE ALL LOCATED BETWEEN 10 INCHES AND 15 INCHES BELOW POOL OVERFLOW LEVEL.
28. PER 513 - ALL SUCTION OUTLETS SHALL HAVE ANTI-VORTEX COVERS (THIS INCLUDES THE MAIN DRAINS, AND ALL SUCTION COVERS FOR THE EQUALIZER LINES ON EACH SKIMMER. EACH 8" MAIN DRAIN IS SPACED AT 6'-0" FROM CENTER TO CENTER.
29. PER 515 - A SURFACE SKIMMER SHALL BE PROVIDED FOR EVERY 500 SQ. FT. OF WATER SURFACE AREA.

GENERAL STANDARDS

30. PER 701 - ALL DEPTH MARKER REQUIREMENTS FOR THIS CODE SECTION ARE IDENTIFIED ON PLAN SHEET PL-1.2, DETAIL 03, AND ALL REFERENCED ON PLANS PL-1.0 AND PL-1.1.
31. PER 703 - THIS CLASS C POOL SHALL UTILIZE THE EXISTING 12FT. LONG STRONG POLE WITH SHEPARD'S HOOK (LIFESAVING HOOK), 60 FT. THROWING ROPE AND RING BUOY, AND TELEPHONE WITH POSTED EMERGENCY NAMES AND NUMBERS.
32. PER 707.A - ALL FRESH WATER SUPPLY LINES, AND BACKWASH LINES SHALL BE SEPARATED BY A 6" MINIMUM AIR GAP, PREVENTING A PHYSICAL CONNECTION OF THE THE FRESH WATER SUPPLY LINE, OR THE BACKWASH LINE TO THE POOL WATER BODY.
33. PER 711 - BACKWASH WATER SHALL BE DISCHARGED INTO A SANITARY SEWER LINE THROUGH A 6" MINIMUM AIR GAP.
34. PER 713.A - POOL CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF THE LATEST NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION AGENCY SHALL BE COMPLIED WITH.

35. PER 715.A - THIS POOL WILL NOT BE OPEN FOR USE DURING NON-DAYLIGHT HOURS, AND THEREFORE REQUIRES NO UNDERWATER POOL LIGHTING.
36. PER 717 - THE EXISTING POOL EQUIPMENT PAD IS OUTDOORS, NOT REQUIRING VENTILATION.
37. PER 733.A - EXISTING POLE HOOKS, ROPES, BUOYS, FIRST AID KIT, AND OTHER LIFESAVING EQUIPMENT ARE TO BE PROVIDED IN COMPLIANCE WITH CODE.

DISINFECTION & BACTERIOLOGICAL QUALITY

38. PER 901.A - ALL DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF STANDARD 50.
39. PER 901.A.2 - THE CHLORINATOR PROVIDING DISINFECTANT TO THE POOL WATER IS TO BE ADJUSTED PENDING FIELD TESTING MEASURES THAT ARE SIMPLE AND ACCURATE.
40. PER 901.C - THE POOL SHALL BE SUPPLIED WITH A CHEMICAL TEST KIT WHICH TESTS ALLOWS FOR TESTING OF ALL LEVELS MENTIONED IN NOTE 66 WITHIN THIS DOCUMENT VIA THE DPD METHOD OF DETECTING CHLORINE RESIDUAL. (TAYLOR TEST KIT K-2006 OR BETTER WILL BE PROVIDED).
41. THE TESTING RESULTS FOR RESIDUALS SHALL MEET THE FOLLOWING.....

- TESTING FOR DETERMINATION OF pH, CHLORINE (TOTAL AND FREE), TOTAL ALKALINITY, AND CALCIUM HARDNESS.	
- DISINFECTANT LEVELS AND pH SHALL BE MEASURED TWICE PER DAY, AND HOURLY WHEN POOL IS IN HEAVY USE.	
- TOTAL ALKALINITY TO BE MEASURED WEEKLY	
- CALCIUM HARDNESS TO BE MEASURED MONTHLY.	
LEVEL REQUIREMENTS ARE....	
CHLORINE	1.0 ppm MINIMUM
FAC	3.0 ppm MAXIMUM 10 MG/L MAXIMUM
TOTAL ALKALINITY	60 - 180 ppm (MG/l)
CALCIUM HARDNESS	1000 ppm (MG/L) MAXIMUM

UNDERWATER SEAT BENCH

1. UNDERWATER SEAT BENCH ON THIS POOL IS WITHIN LESS THAN 5'-0" WATER DEPTH.
2. THERE ARE NO SWIM LANES WITHIN THIS POOL.
3. THE WATER DEPTH ABOVE THE UNDERWATER SEAT BENCH IS 17 INCHES.
4. THE SEAT DEPTH OF THE UNDERWATER SEAT BENCH FROM FACE OF POOL WALL TO THE VERTICAL FACE OF THE BENCH IS 17 INCHES.
5. A PERMANENT COLORED BAND OF DARK, CONTRASTING AND SLIP-RESISTANT TILE SHALL BE INSTALLED AT THE FRONT EDGE OF THE SEAT EXTENDING TWO INCHES ON THE HORIZONTAL AND VERTICAL SURFACE, AND SHALL BE SLIP RESISTANT (SEE SHEET PL-1.2, DETAIL 04).
6. THE FRONT EDGE OF THE UNDERWATER SEAT BENCH SHALL HAVE A 1 INCH ROUNDED EDGE.
7. THE UNDERWATER SEAT BENCH IS NOT UTILIZED AS AN ENTRY/EXIT. THE BENCH IS TIED INTO ONE OF THE STEPS WHICH SERVE AS AN ENTRY/EXIT.
8. A HANDRAIL WILL BE INSTALLED IN FULL COMPLIANCE WITH THE REQUIREMENTS IN THE LAC TITLE 51 PART XXIV.

GENERAL CONSTRUCTION NOTES

1. REFERENCE HARDSCAPE & DRAINAGE PLANS FOR FINISHED GRADES, AND DRAINAGE.
2. FOR ALL FINISHES ON THE POOL AND POOL DECK, REFERENCE THE HARDSCAPE PLANS.
3. ALL POOL DECK DEPTH MARKERS (BOTH DECK MOUNTED AND WALL MOUNTED) ARE IDENTIFIED IN THE POOL PLAN VIEWS AND SECTIONS, AND SPECIFICALLY ON SHEET PL-1.2, DETAIL 03.
4. ALL 2"x2" DARK CONTRASTING EDGE TILE WITHIN THE POOL IS IDENTIFIED THROUGHOUT ALL POOL PLAN VIEWS AND SECTION VIEWS. COLORS ARE IDENTIFIED IN THE HARDSCAPE PLANS.
5. DIMENSIONAL LAYOUT PLAN FOR POOL ON SHEET PL-1.0 IDENTIFIES THE LOCATIONS OF ALL SKIMMERS, INLETS, DRAINS, DEPTH CHANGES, DEPTH MARKERS, HAND RAIL, LADDER, AND ADA LIFT MOUNTING LOCATION.
6. ALL SKIMMERS ARE TO HAVE EQUALIZER LINES WITH SUCTION COVERS.

POOL CALCULATIONS

POOL VOLUME CALCULATIONS

6' DEPTH = 50 SQ. FT. * .5 FT = 25 CU FT * 7.48 GAL = 187 GALLONS
1'-6" DEPTH = 59 SQ. FT. * 1.5 FT = 88.5 CU FT * 7.48 GAL = 662 GALLONS
2'-6" DEPTH = 24 SQ. FT. * 2.5 FT = 60 CU FT * 7.48 GAL = 45 GALLONS
3'-8" DEPTH = 293 SQ. FT. * 3.67 FT = 1076 CU FT * 7.48 GAL = 8,049 GALLONS
6" ADD TO 3'-8" (4'-2" DEPTH) = 147 SQ. FT. * .5 FT = 73.5 CU FT. * 7.48 GAL = 550 GALLONS
2" ADD TO 4'-2" (4'-4" DEPTH) = 52 SQ. FT. * .17 FT = 52.17 CU FT * 7.48 GAL = 391 GALLONS

TOTAL GALLONS = 9,884

POOL COPING (OUTER PERIMETER) = 109 LN. FT.

POOL COPING (INNER PERIMETER) = 101 LN. FT.

WATER SURFACE AREA = 476 SQ. FT.

TURNOVER CALCULATIONS -9884 GAL / 60 MIN = 164.74 GPH
6 HR TURNOVER = 27.46 GPM
5 HR TURNOVER = 32.95 GPM
4 HR TURNOVER = 41.19 GPM
3 HR TURNOVER = 54.91 GPM
2 HR TURNOVER = 82.37 GPM

DESIGNED AT 83 GPM WITH 75 FT. OF HEAD

20 BATHERS MAX LOAD CAPACITY

SHEER DESCENT WATER FEATURE REQUIRES 12 GPM

2 SCONCES EACH AT 3 GPM

TR140 FILTER TURNOVER CAPACITY AT 8,460 GPH = 141 GPM (RATED AT 106 GPM)

2 HP WHISPERFLO XF PUMP (MODEL XF-8)

HEAD LOSS CALCULATIONS

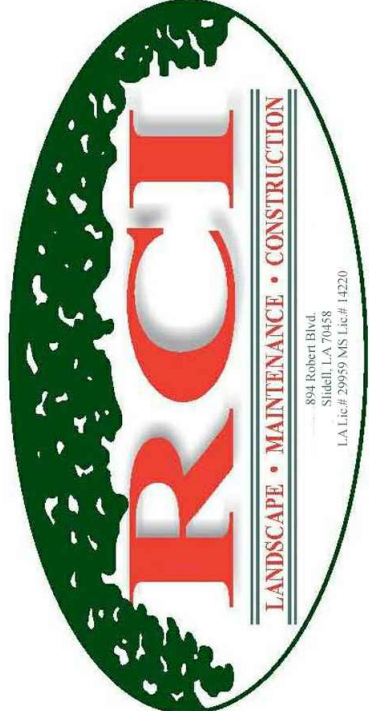
RETURN HEADLOSS

QTY	UNIT	LISTING DESCRIPTION
2.0	FT	2" FLOW METER
4.06	FT	ADJUSTABLE FLOOR INLET (2 EACH AT 2.03 FT)
4.74	FT	¾" DIRECTIONAL EYEBALL FITTING (2 EACH AT 2.37 FT)
8.0	FT.	TR140 SAND FILTER
3.5	FT.	2" HI-FLO VALVE
5.98	FT.	1.5" PIPE (115 LN. FT.)
2.48	FT.	1.0" PIPE (45 LN. FT.)
3.42	FT.	2.5" PIPE (145 LN. FT.)
1.24	FT.	2.5" TEE FITTING (7 EACH)
.69	FT.	2" 90 DEGREE ELBOW FITTING (4 EACH)
.1	FT.	1.5" TEE FITTING (1 EACH)
.17	FT.	1.5" 90 DEGREE ELBOW FITTING (10 EACH)
.43	FT.	2.5" 90 DEGREE ELBOW FITTING (5 EACH)
.35	FT.	90 DEGREE ELBOW FITTING (4 EACH)
3.63	FT.	2.5" BALL VALVE (2 EACH)
1.71	FT.	1.5" BALL VALVE (2 EACH)
.50	FT.	2.5" BALL CHECK VALVE (1 EACH)
43.0	FT.	TOTAL

SUCTION HEADLOSS

QTY	UNIT	LISTING DESCRIPTION
3.63	FT.	2.5" BALL VALVE (2 EACH)
7.0	FT.	SKIMMER (2 EACH)
4.0	FT.	MAIN DRAIN INLETS (2 EACH)
3.92	FT.	2.0" PIPE (70 LN. FT.)
3.30	FT.	2.5" PIPE (140 LN. FT.)
.69	FT.	2" 90 DEGREE ELBOW FITTING (4 EACH)
.35	FT.	2.5" TEE FITTING (2 EACH)
.76	FT.	2.5" 90 DEGREE ELBOW FITTING (9 EACH)
23.65	FT.	TOTAL

GRAND TOTAL HEAD LOSS = 66.65 FT



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APARTMENT HOMES BY TONTI

COPPER HILL
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Project No:

Revisions:		
No:	Date:	Description:

Date: 3/1/2016
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SPECIFICATIONS, NOTES, & CALCULATIONS

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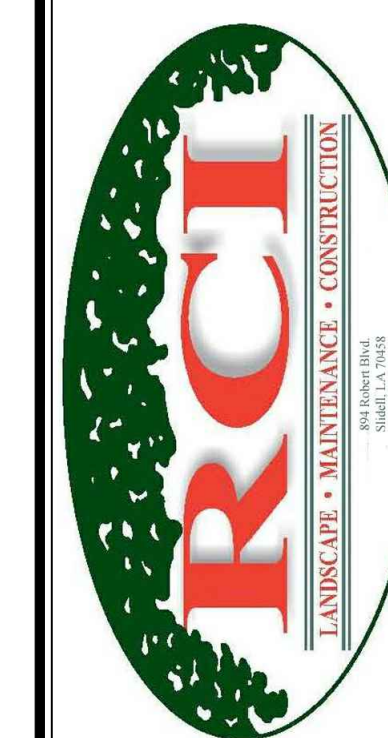
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Sheet No.

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POOL DESIGN DATA

WATER VOLUME = 9,884 GALLONS
TURNOVER RATE = 2 HOURS
DESIGN FLOW RATE = 83 GPM
WATER SURFACE AREA = 476 SQ. FT.
POOL PERIMETER = 109 LN. FT.
TOTAL HEAD LOSS = 75.0 FT.
MAXIMUM BATHER LOAD = 20 PERSONS



APARTMENT HOMES BY TONTI

COPPER HILL
2300 EDENBORN STREET

Project No: _____

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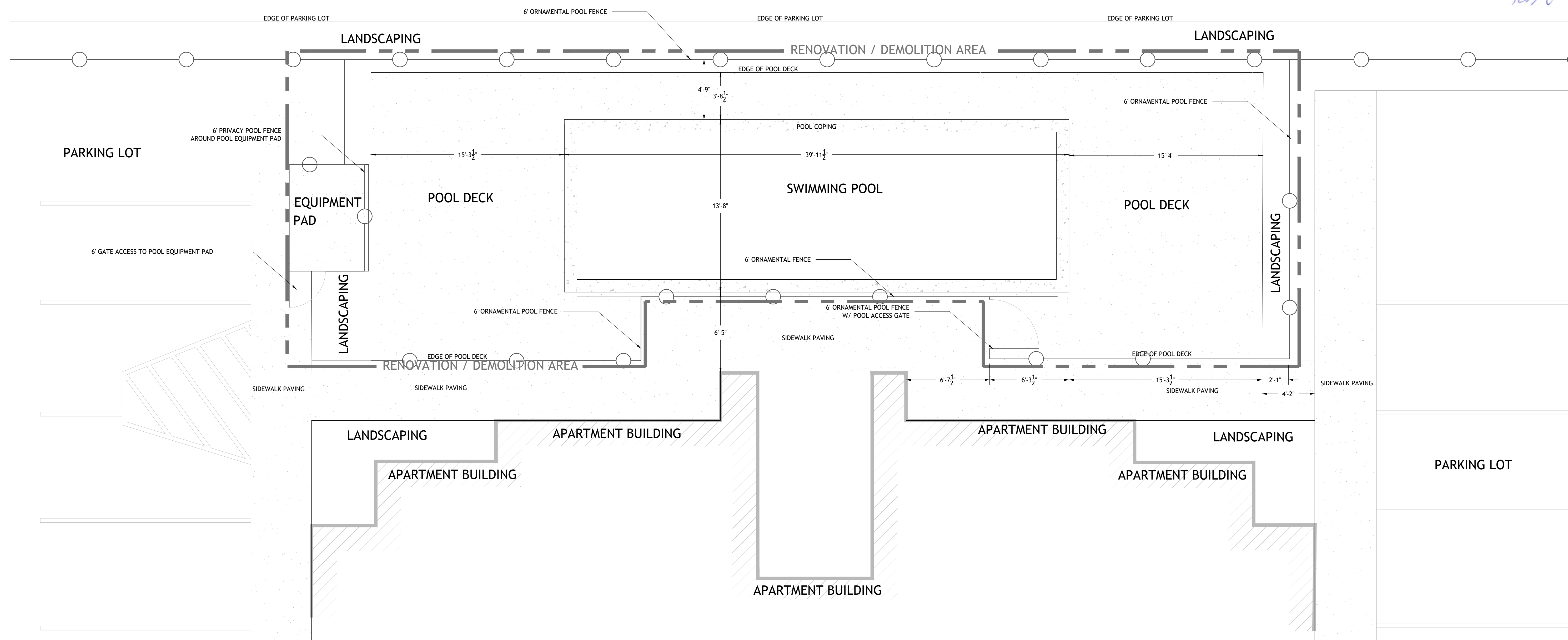
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EXISTING
POOL & DECK
LAYOUT
PLAN

PL-1.1

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1. ALL EXISTING POOL PIPING TO BE REMOVED AND REPLACED AS NEEDED.
2. ENTIRE POOL SHELL, INCLUDING ALL SKIMMERS, MAIN DRAINS, AND RETURN INLETS ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.
3. POOL DECK AREA WITHIN THE EXISTING POOL FENCE LINE IS TO BE DEMOLISHED AND REMOVED AS REQUIRED IN ORDER TO RECONSTRUCT NEW POOL AND POOL DECK IN ACCORDANCE WITH THIS POOL PLAN SET.
4. EXISTING POOL FENCE, AND EXISTING EQUIPMENT PAD FENCE ARE TO BE REMOVED WITH CARE TO SALVAGE FENCE FOR REINSTALLATION IN ACCORDANCE WITH THIS PLAN SET.
5. ONCE FENCE IS REMOVED, SAFETY BARRIERS SHALL IMMEDIATELY BE PLACED TO RESTRICT ACCESS TO THE AREA UNDER CONSTRUCTION / DEMOLITION UNTIL FENCE IS REINSTALLED IN NEW LOCATION PER THIS PLAN SET, AND CONSTRUCTION IS COMPLETED.
6. EXISTING EQUIPMENT SLAB IS TO REMAIN, AND ANY DEMOLITION TO THE SLAB SHALL BE AS REQUIRED FOR REROUTING OF NEW POOL PLUMBING.
7. THE EXISTING POOL DECK SHALL BE SAW CUT WHERE POOL DECK PAVING IS SHARED WITH SIDEWALK PAVING. ALL SAW CUTS TO BE DETERMINED IN THE FIELD.
8. A CONSTRUCTION JOINT SHALL THEN BE PLACED TO ALLOW FOR NEW POOL DECKING TO BE POURED IN PLACE.

01 EXISTING POOL & DECK CONDITIONS

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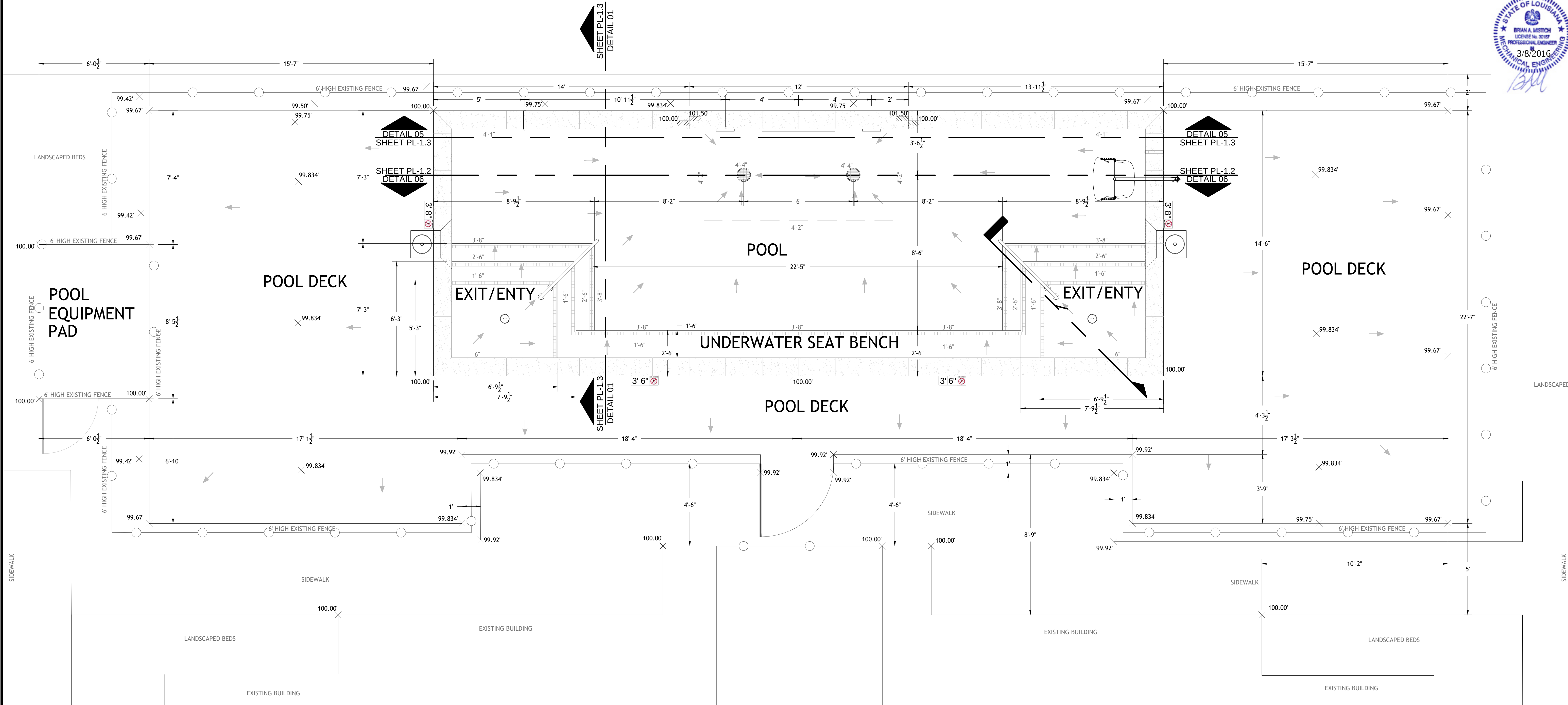
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**POOL, &
POOL DECK
LAYOUT &
GRADING
PLAN**

Drawing No.

PL-1.0

Sheet No.
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01 POOL AND POOL DECK LAYOUT & GRADING PLAN
SCALE: 3/8" = 1'-0"

SYMBOL IDENTIFICATION LEGEND

- ADA POOL LIFT PER CODE
- SKIMMER (NSF CERTIFIED - VGB COMPLIANT)
- WALL INLET FITTING FOR SENSOR
- ADJUSTABLE EYEBALL WALL INLET
- MAIN DRAIN (VGB AND NSF COMPLIANT)
- SHEER DESCENT WATER FEATURE
- SCONCE WATER FEATURE
- 1.90" O.D. S.S. HANDRAIL PER CODE
- ADJUSTABLE FLOOR INLET

NOTES

- ALL ARROWS SHOWN ON THIS PLAN VIEW INDICATE SLOPE DIRECTION.
- ALL SLOPES WITHIN THE POOL SHALL NOT EXCEED 1:12, AND SHALL AT LEAST BE $\frac{1}{8}$ " PER FOOT MINIMUM.
- ALL SLOPES ON THE POOL DECK SHALL BE A MINIMUM OF $\frac{1}{8}$ " PER FOOT, AND A MAXIMUM OF $\frac{1}{4}$ " PER FOOT.
- A SHEPARD'S HOOK (LIFE SAVING HOOK) ALONG WITH ONE 12" MINIMUM FIXED POLE SHALL BE PLACED ON THE FENCE WITH HOOKS, ALLOWING FOR EASY ACCESS. THE POLE AND HOOK SHALL BE LOCATED AS CLOSE TO THE CENTER OF THE POOL AS POSSIBLE ON THE POOL FENCE.
- EXISTING 6 FOOT FENCE AROUND POOL DECK AND EXISTING 6' PRIVACY FENCE AROUND EXISTING POOL EQUIPMENT PAD TO REMAIN.
- ALL FINISHED GRADES SHOWN ON PLACE REPRESENT TOP OF FINISHED SURFACE.
- DRAINAGE SHALL RUN OFF OF CONCRETE PAVED SURFACES AS INDICATED, AND INTO SURROUNDING LANDSCAPING.

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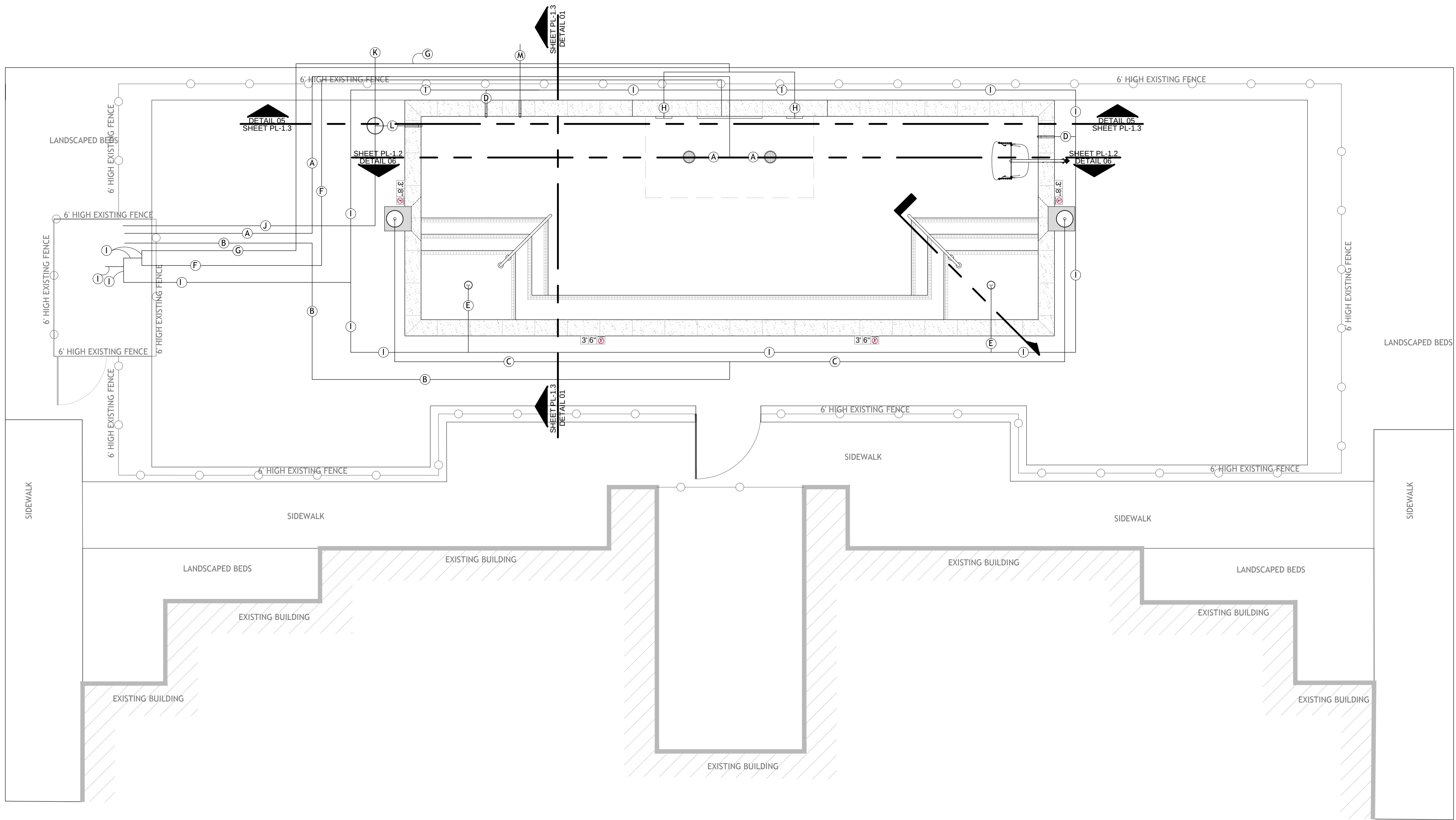
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**POOL
PLUMBING
LAYOUT
PLAN**

Drawing No.

PL-1.1

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01 POOL PLUMBING LAYOUT PLAN
PL-1.1 SCALE: 1/4" = 1'-0"

PIPE SCHEDULE					
PIPE ID	DESCRIPTION	SIZE	TYPE	FLOW RATE	VELOCITY
A	MAIN DRAIN SUCTION	2.5 INCH	SCH 40 PVC	58 GPM	3.79 FPS
B	SKIMMER SUCTION	2.5 INCH	SCH 40 PVC	58 GPM	3.79 FPS
C	SKIMMER SUCTION	2.0 INCH	SCH 40 PVC	29 GPM	2.96 FPS
D	FLOOR INLET RETURN	1.5 INCH	SCH 40 PVC	10 GPM	1.82 FPS
E	WALL INLET RETURN	1.0 INCH	SCH 40 PVC	10 GPM	4.08 FPS
F	SUPPLY TO WTR FTR	1.5 INCH	SCH 40 PVC	12 GPM	2.18 FPS
G	SUPPLY TO SCONCES	1.5 INCH	SCH 40 PVC	6 GPM	1.09 FPS
H	SUPPLY TO SCONCES	1.0 INCH	SCH 40 PVC	3 GPM	1.23 FPS
I	RETURN LINE	2.5 INCH	SCH 40 PVC	58 GPM	3.79 FPS
J	FILL LINE	2.0 INCH	SCH 40 PVC	N/A	N/A
K	OVERFLOW LINE	2.0 INCH	SCH 40 PVC	N/A	N/A
L	FILL LINE	2.0 INCH	SCH 40 PVC	N/A	N/A
M	OVERFLOW LINE	2.0 INCH	SCH 40 PVC	N/A	N/A

SYMBOL IDENTIFICATION LEGEND

- ADA POOL LIFT PER CODE
- SKIMMER (NSF CERTIFIED - VGB COMPLIANT)
- WALL INLET FITTING FOR SENSOR
- ADJUSTABLE EYEBALL WALL INLET
- MAIN DRAIN (VGB AND NSF COMPLIANT)
- SHEER DESCENT WATER FEATURE
- SCONCE WATER FEATURE
- 1.90" O.D. S.S. HANDRAIL PER CODE
- ADJUSTABLE FLOOR INLET

POOL DESIGN DATA

WATER VOLUME = 9,884 GALLONS
TURNOVER RATE = 2 HOURS
DESIGN FLOW RATE = 83 GPM
WATER SURFACE AREA = 476 SQ. FT.
POOL PERIMETER = 109 LN. FT.
TOTAL HEAD LOSS = 75.0 FT.
MAXIMUM BATHER LOAD = 20 PERSONS

NOTES

- ALL EXISTING POOL PIPING TO BE PRESSURE TESTED IN FULL ACCORDANCE WITH LAC TITLE 51 SWIMMING POOL CODE WHEN DETERMINING SUITABILITY TO BE USED, OR IF PLUMBING NEEDS TO BE REPLACED.
- UPON INSTALLATION OF ALL PLUMBING, ALL PIPING SHALL BE PRESSURIZED IN ACCORDANCE WITH LAC TITLE 51 CODE REQUIREMENTS, AND REMAIN SO FOR THE DURATION OF THE CONSTRUCTION PROJECT.
- ALL PLUMBING LINES ARE SHOWN ON PLAN FOR CLARITY, AND SHALL BE FIELD LOCATED AS NEEDED.

1. ANY AND ALL METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATION SYSTEM (I.E. PUMPS) SHALL BE BONDED PER NEC 2008 ARTICLE 680.

2. ALL METAL PARTS WITHIN 5 FT. OF THE INSIDE WALL OF THE POOL AND NOT SEPARATED BY A PERMANENT BARRIER ARE REQUIRED TO BE BONDED PER NEC 2008 ARTICLE 680.

THIS LIST INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ALL METAL PARTS OF THE POOL STRUCTURE, CONDUIT AND PIPING, METAL DOOR FRAMES, METAL WINDOW FRAMES, DIVING BOARDS, HANDRAILS, LADDERS, DRAINS, OUTLET PIPES, SLIDE SUPPORTS, WATER FEATURES, ETC..

THE BONDED OF THESE PARTS DOES NOT MEAN THEY ARE REQUIRED TO BE CONNECTED TO EACH OTHER; RATHER, IT MEANS THEY ARE REQUIRED TO BE CONNECTED TO A COMMON EQUIPOTENTIAL BONDING GRID.

3. ALL EQUIPOTENTIAL BONDING TERMINATIONS MUST BE MADE BY EXOTHERMIC WELDING. LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS, OR OTHER LISTED FITTINGS. (NEC 2008 ARTICLE 680)

POOL LIGHT FIXTURE
ROPE ANCHOR, NOT REQUIRED IF LESS THAN 4" (NEC 2008 ARTICLE 680)

METAL WATER INLET PIPE

METAL DRAIN

POOL FLOOR

POOL DECK

POOL WALL

POOL PUMP, UV STERILIZER, FILTER, ETC. ANY METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATION SYSTEM.

POOL FLOOR

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ALL METAL PARTS WITHIN 5 FT. OF THE INSIDE WALL OF THE POOL AND NOT SEPARATED BY A PERMANENT BARRIER ARE REQUIRED TO BE BONDED.

POOL REINFORCING STEEL (EQUIPOTENTIAL BONDING GRID) MUST EXTEND 3' HORIZONTALLY BEYOND INSIDE WALLS OF POOL.

BONDING CONDUCTOR, TYPICAL #8 SOLID COPPER MINIMUM

3'-0" MIN.

5'-0"

POOL DECK

DECK GRID MUST COMPLY WITH NEC 2008 ARTICLE 680.

LADDER TYP.

POOL PUMP, UV STERILIZER, FILTER, ETC. ANY METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATION SYSTEM.

POOL WALL

REBAR IN POOL BY CONTRACTOR (DECK CONTRACTOR TO COORDINATE WITH POOL CONTRACTOR FOR BONDING REQUIREMENTS).

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NOTE:
ALSO REFER TO THE INSTALLATION AND OPERATION INSTRUCTIONS FROM THE MANUFACTURER ON THE AUTOMATIC WATER LEVEL CONTROLLER. SEE EQUIPMENT LIST FOR MAKE AND MODEL.

SOLENOID VALVE SLOW CLOSING TYPE. PROVIDED TO PLUMBING CONTRACTOR BY POOL CONTRACTOR.

RUN TO SOLENOID VALVE IN 3/4" CONDUIT

AUTOMATIC WATER LEVEL CONTROL PANEL

RUN TO SENSOR IN 3/4" CONDUIT

CONTROL CHAMBER & PROBES SEE EQUIPMENT LIST FOR MODEL

POOL DECK

STATIC WATER LEVEL

POOL

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02 AUTOFILL DETAIL

SCALE: NOT TO SCALE

4 FT
6 IN

MINIMUM 4" LETTERS



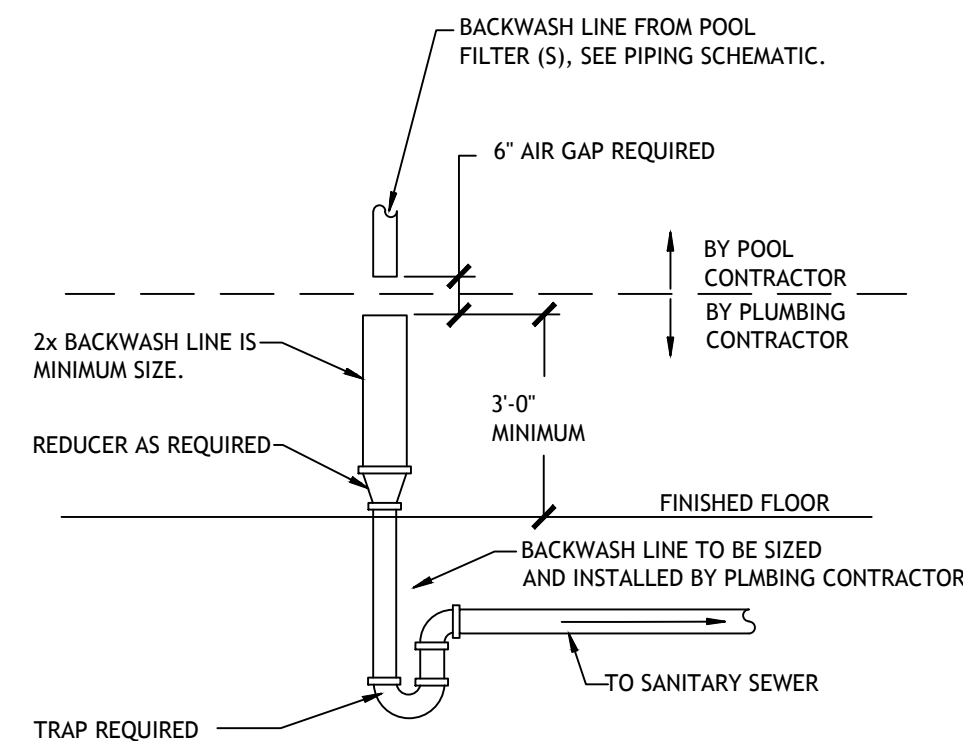
NO DIVING SYMBOL

MARKER REQUIREMENTS:
1. DEPTH MARKERS BOTH SHOWING FEET AND INCHES
2. "NO DIVING" SYMBOL MARKER WITH EACH DEPTH MARKER.

NOTES:
1. DEPTH MARKERS SHALL BE PLACED ON THE DECK WITH SPACING NOT TO EXCEED 25'-0", NO MORE THAN 2' FOOT OF CHANGE IN SLOPE, AND TO ALSO PLACE A CORRESPONDING DEPTH MARKER IN DUPLICATE ON THE POOL WALL.
2. DECK TILES TO BE WITHIN 18" OF THE POOL WATER SURFACE
3. DECK TILES TO BE POSITIONED TO BE READ WHILE STANDING ON THE DECK FACING THE WATER.
4. DEPTH MARKERS TO BE IN ENGLISH.
5. NUMERICAL COLOR OF LETTERING TO BE BLACK, ON WHITE BACKGROUND.
6. "NO DIVING" INTERNATIONAL SYMBOL MARKER TO BE PLACED AT EVERY LOCATION WHERE A DEPTH MARKER IS LOCATED.
7. ALL DECK DEPTH MARKERS & NO DIVING SYMBOLS ARE TO HAVE A SLIP RESISTANT FINISH TYPICAL.
8. POOL WALL DEPTH MARKERS & NO DIVING SYMBOLS ARE TO HAVE A SMOOTH FINISH.

03 TYPICAL DEPTH MARKER DETAIL

SCALE: NOT TO SCALE

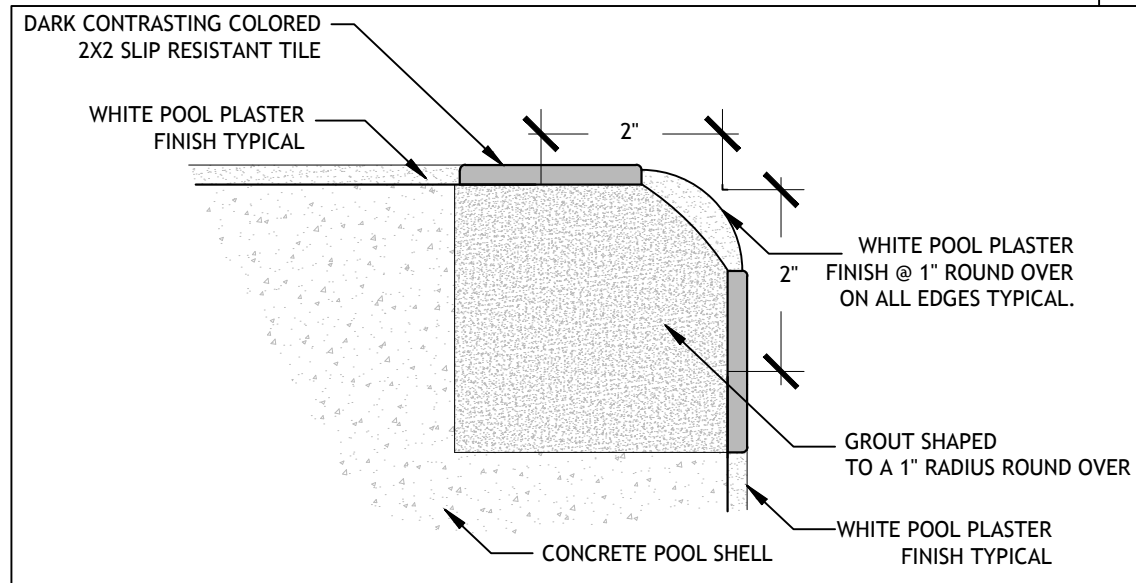


05 BACKWASH DETAIL

SCALE: NOT TO SCALE

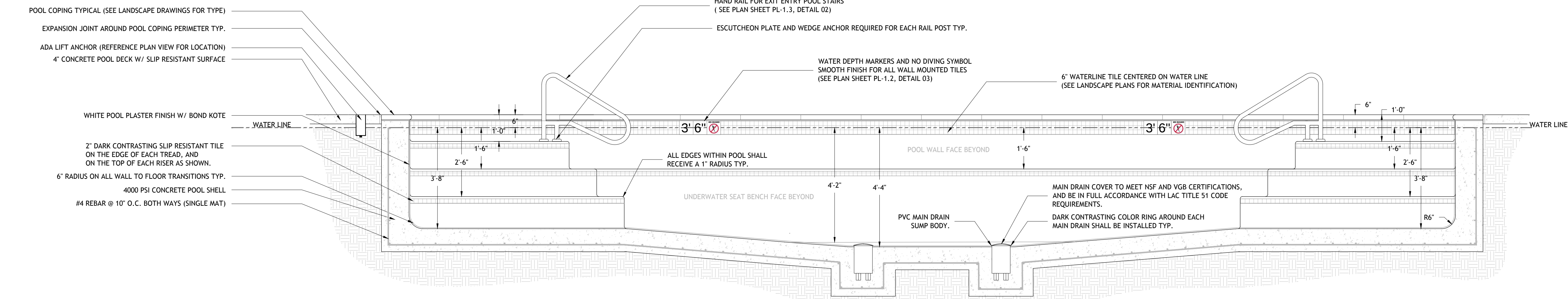
01 TYPICAL GROUNDING & BONDING DETAIL

SCALE: NOT TO SCALE



04 TRIM TILE DETAIL

SCALE: NOT TO SCALE



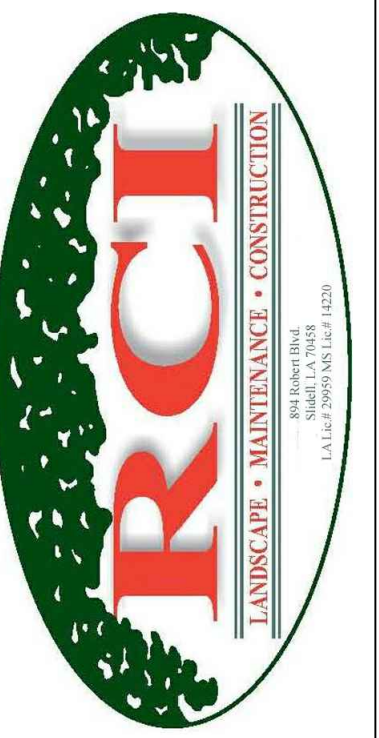
06 POOL CROSS SECTION

SCALE: 1/2" = 1'-0"



FILE: --

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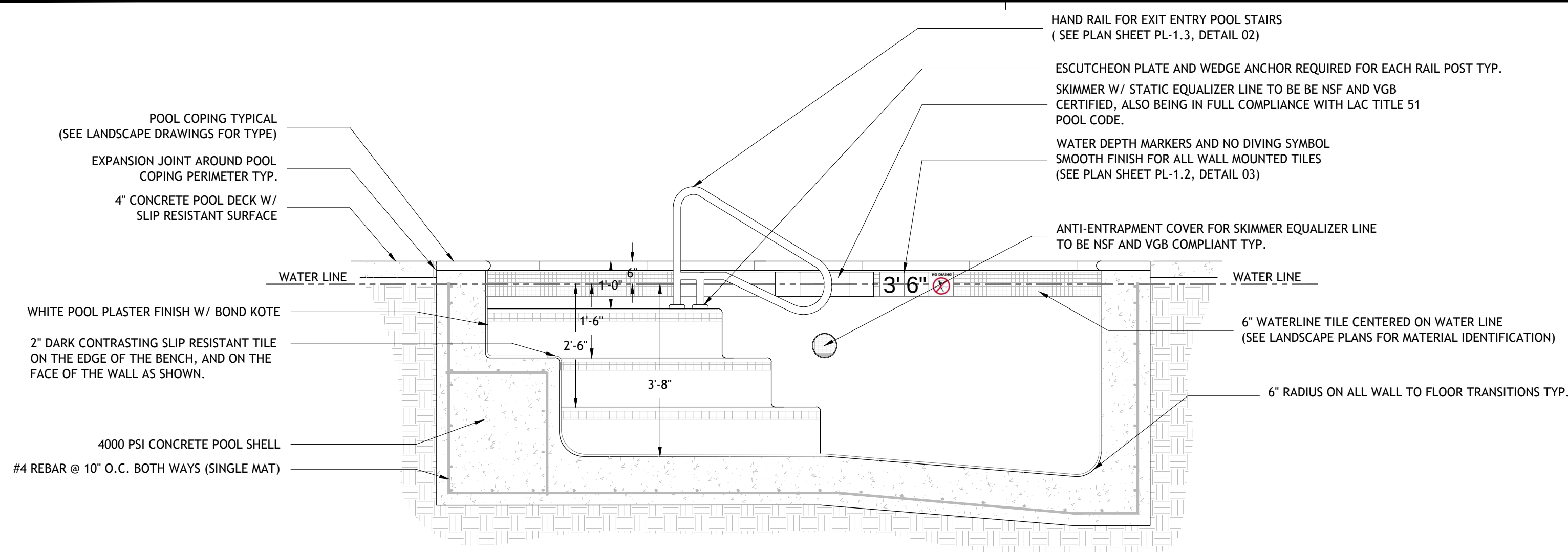
Date: 3/1/2016
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Checked: MR

Sheet Title:
POOL SECTIONS
&
TYPICAL DETAILS

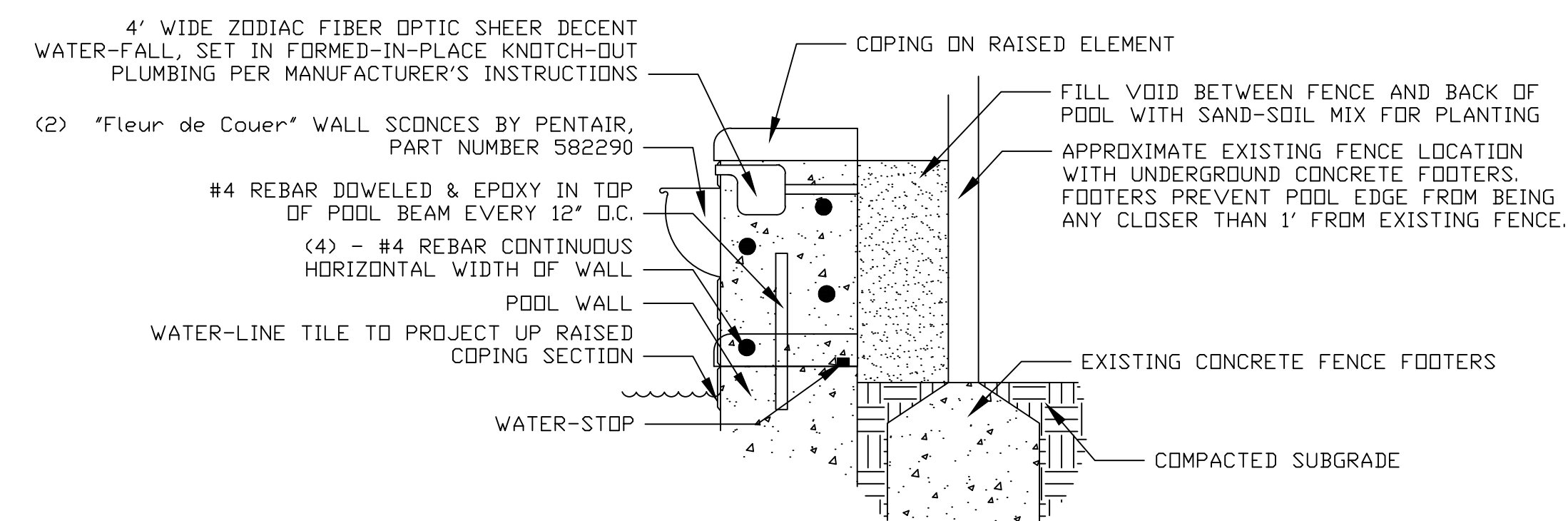
Drawing No.

PL-1.2

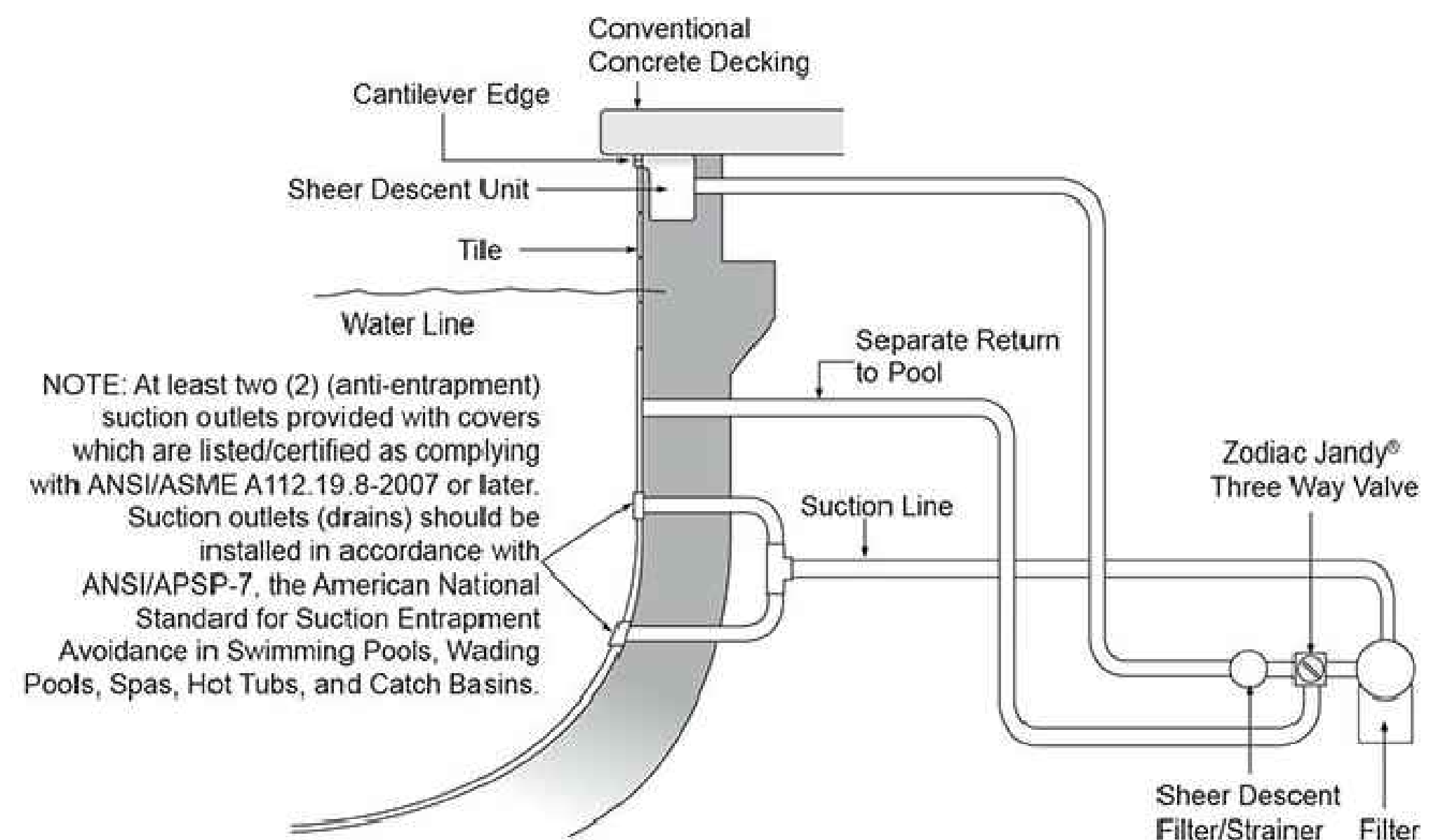
Sheet No.
5 of 7



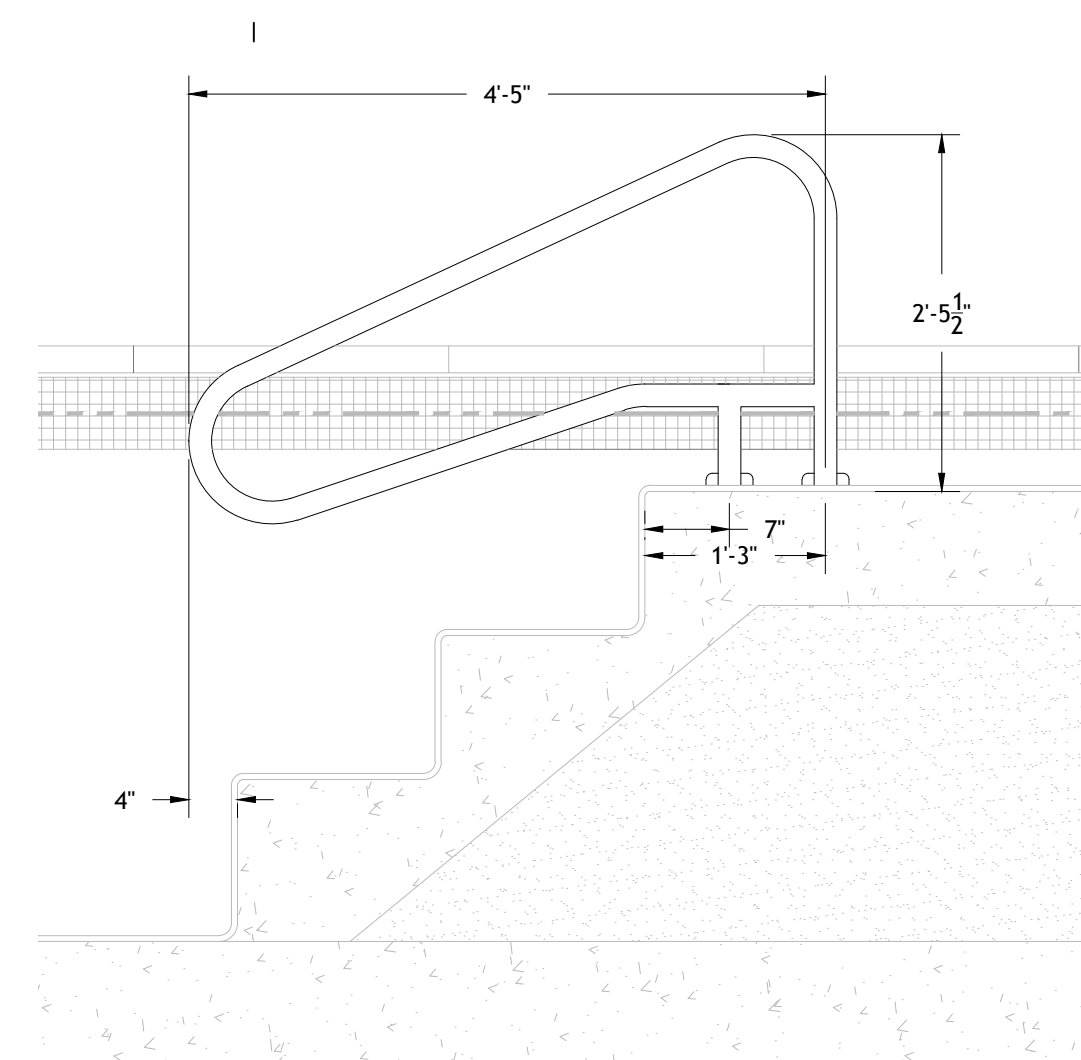
01 POOL SECTION
 PL-1.3 SCALE: 1/2" = 1'-0"



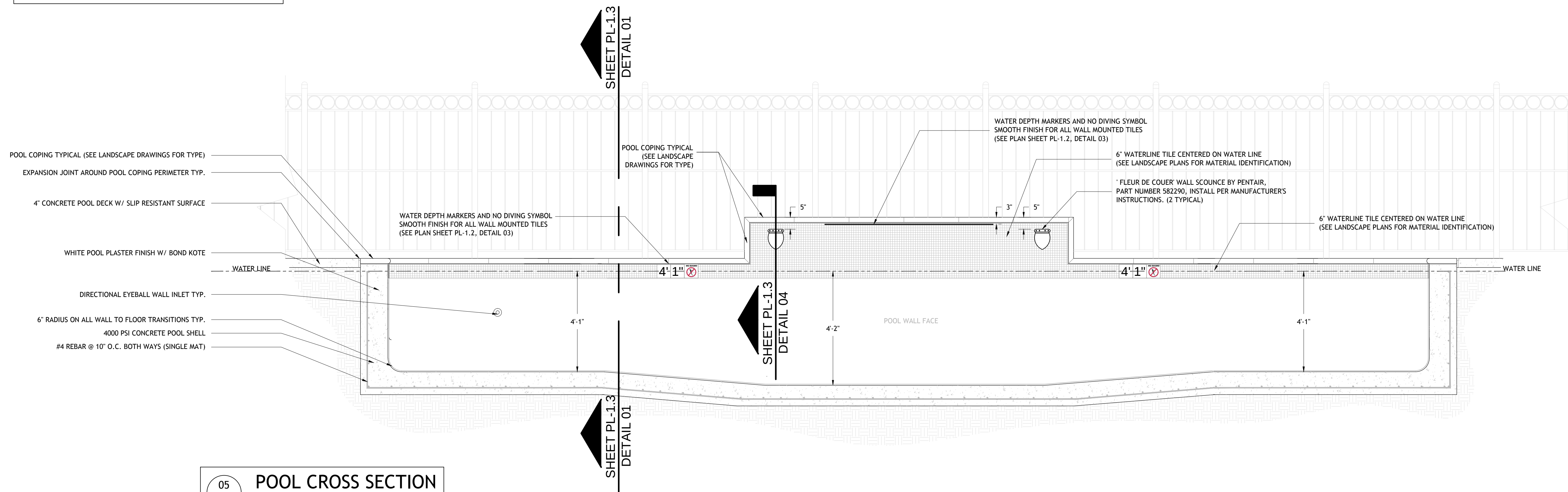
03 WALL SCENCE DETAIL
 PL-1.3 SCALE: 1" = 1'-0"



04 SHEER DESCENT WATER FEATURE SCHEMATIC
 PL-1.3 SCALE: NTS



02 HAND RAIL DETAIL
 PL-1.3 SCALE: 1-1/2" = 1'-0"



05 POOL CROSS SECTION
 PL-1.3 SCALE: 1/2" = 1'-0"

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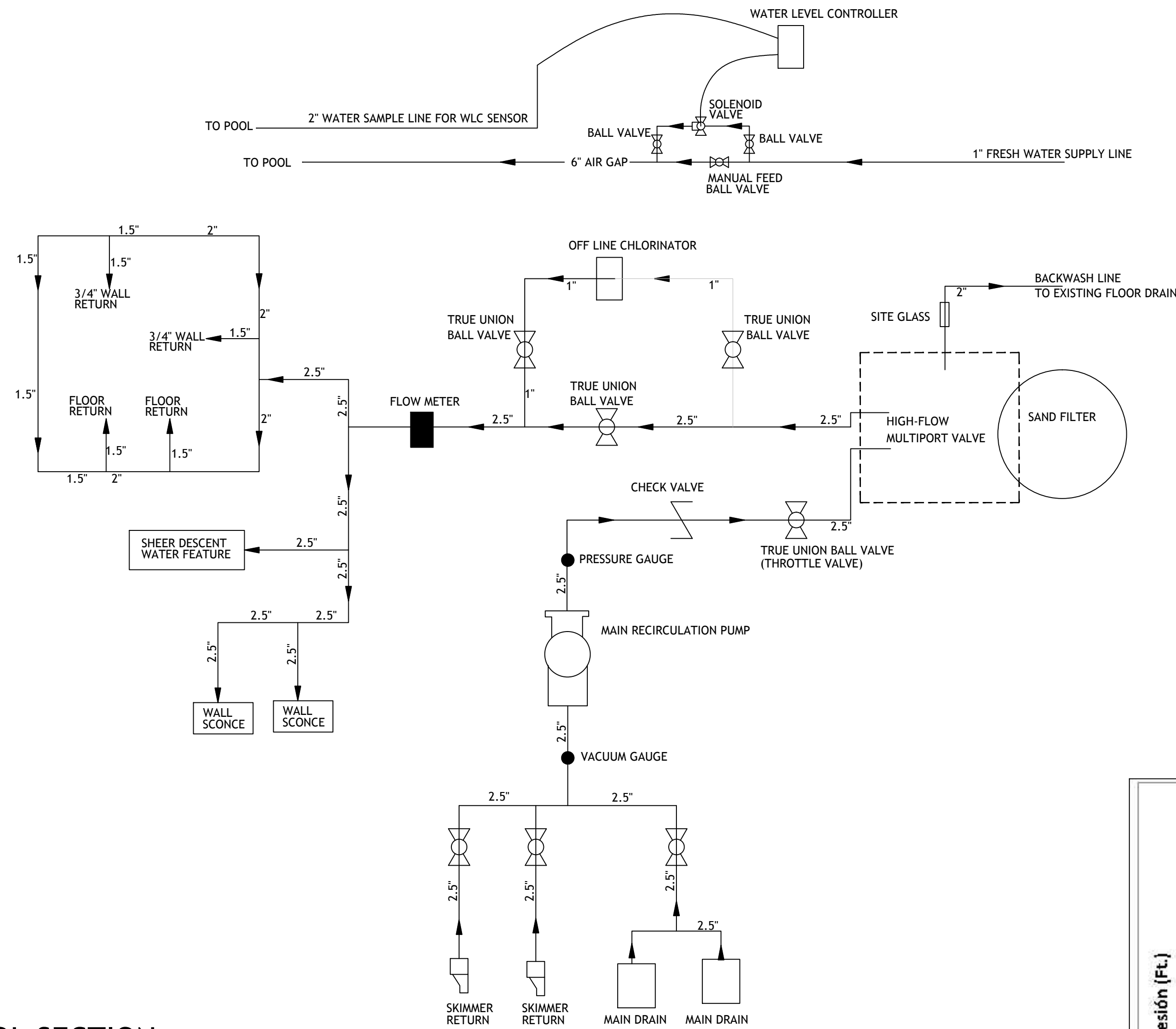
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Sheet Title:
POOL SECTIONS & TYPICAL DETAILS

Drawing No.
PL-1.3
 6 of 7



01 POOL SECTION
PL-1.3 SCALE: NO TO SCALE

Hand & Stair Rails

DMS-102

- Tubing: 1.90" O.D.
- Wall Thickness: .049" or .065"
- Stainless Steel 304 or 316L Marine Grade** (add -MC to part number)
- Bends: 6" Radius
- Options: Powder-coating and SealedSteel Salt Friendly
- Recommended Anchors: AS-100P or AS-100B (order separately)
- Recommended Escutcheons: EP-100P (order separately)
- Sold as a single rail
- *Minimum rail thickness -- .049 for Residential, .065 for Commercial
- **Minimum requirement for salt pools is 316L Marine Grade

Model No.	Description	Weight	Length	Width	Height
DMS-102A	54" Center Grab Rail .049"	15 lbs -- 19 lbs	59"	39"	2"
DMS-102B	54" Center Grab Rail .065"	15 lbs -- 19 lbs	59"	39"	2"
DMS-102P	54" Center Grab Rail .049" w/ powder-coating	15 lbs -- 19 lbs	59"	39"	2"

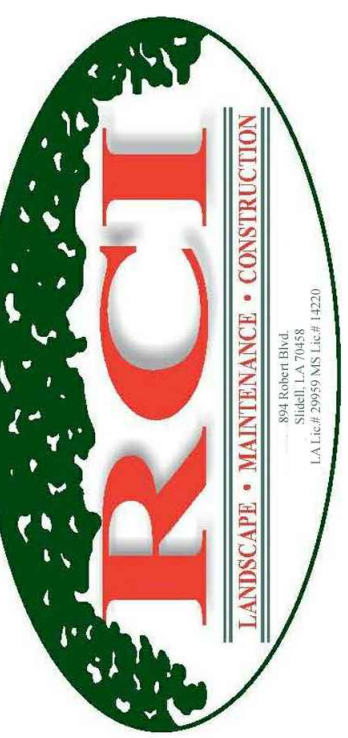
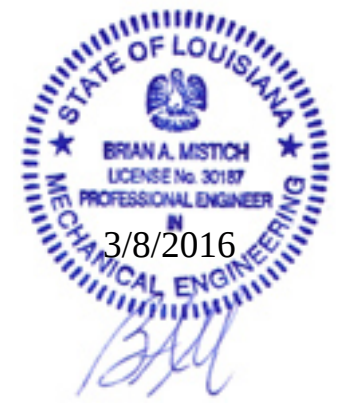
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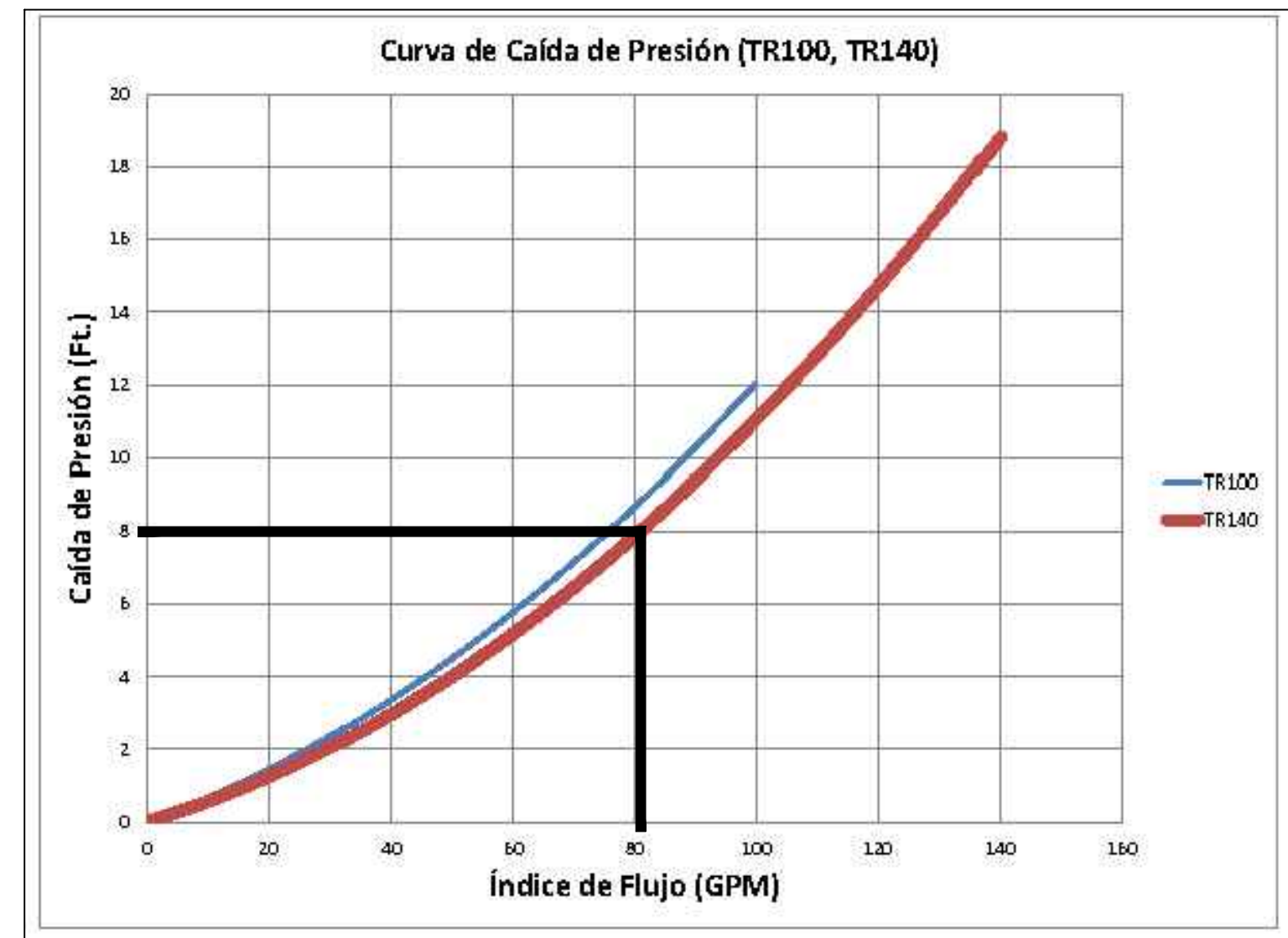
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02 HAND RAIL CUT SHEET
PL-1.3 SCALE: NO TO SCALE

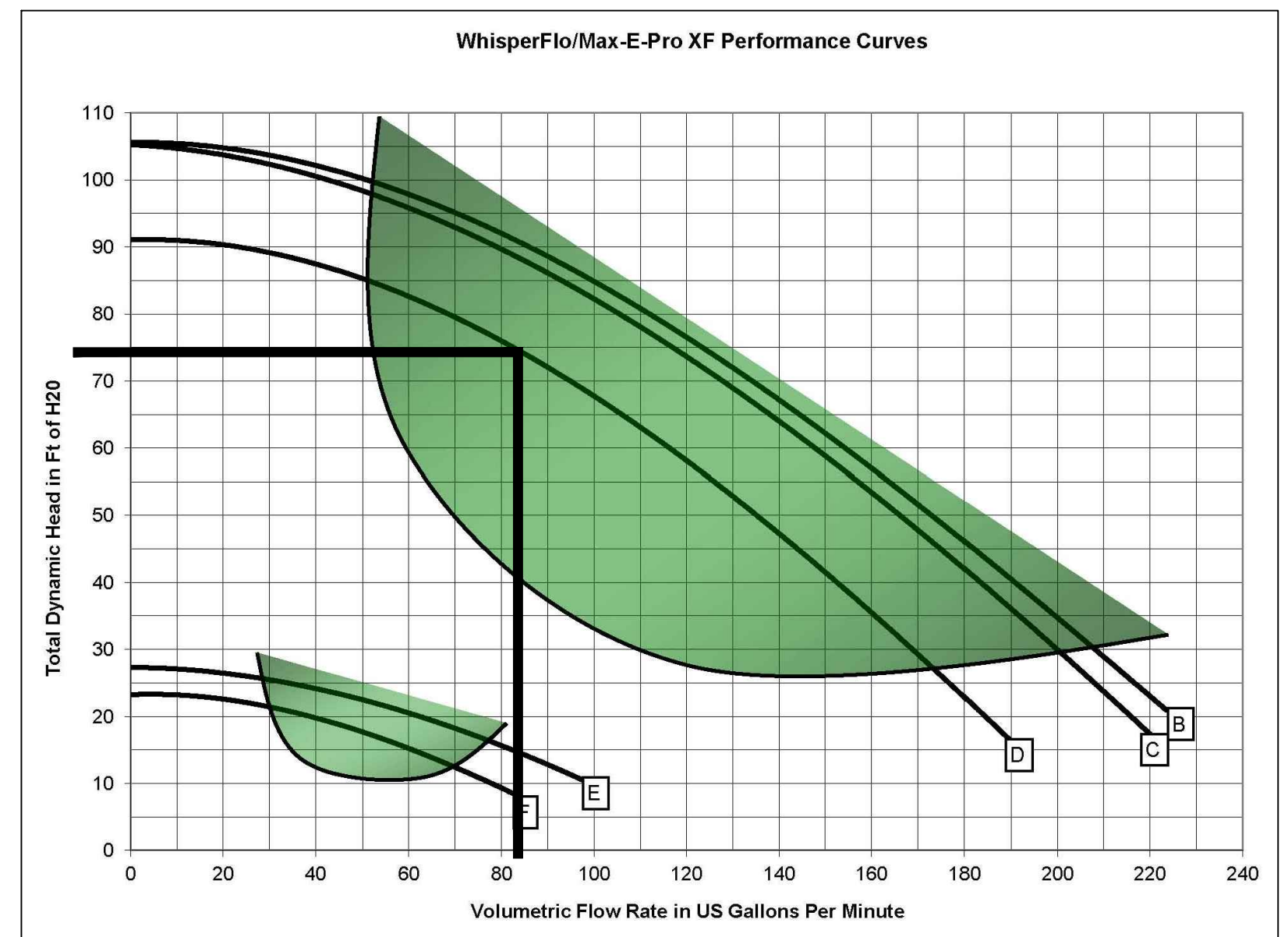
POOL EQUIPMENT LEGEND	
QTY	DESCRIPTION
1	TR140 SAND FILTER BY PENTAIR
1	WHISPERFLO 2HP PUMP XFE-8 HIGH EFFICIENCY
1	HI-FLO MULTI-PORT VALVE (TO ACCEPT 2" PIPING)
2	10" MAIN DRAIN SUMP AND GRATE ASSEMBLY
1	2.5" BLUE-WHITE IMPACT FLOW METER
1	RAINBOW CHLORINATOR MODEL #320 BY PENTAIR
5	SP1419D HAYWARD 3/4" DIRECTIONAL EYEBALL
6	HAY-25-1504 SP10225 INLET SLIP FITTING
2	HAY-25-1507 SP1026 GRATE INSERT (FOR SKIMMER EQ LINES)
1	HAY-25-1500 SP1019 GUTTER DRAIN (FOR OVERFLOW INLET)
1	LEVELOR - WATER LEVEL CONTROLLER MODEL K-1100
2	TRUE-UNION BALL VALVES FOR PIPE SIZE 3"
	SCH 40 PVC PIPE FOR ALL SUCTION, RETURN, AND EQUIPMENT ROOM PIPING
1	CUSTOM 1.90" O.D. HANDRAIL, DMS-102 DECK MOUNTED
1	3 TREAD STAINLESS STEEL ECONOMY LADDER
1	1" SLOW CLOSING SOLENOID VALVE
1	TAYLOR TEST KIT K-2006 (DPD METHOD OF TESTING FOR CHLORINE RESIDUALS)
4	4" 1.90" WEDGE ANCHORS FOR HANDRAIL AND LADDER
4	1.90" O.D. ESCUTCHEONS FOR HANDRAIL AND LADDER
	1"x1" WATERLINE TILE (SEE HARDSCAPE PLAN FOR COLOR AND STYLE)
	2X2 KEYSTONE TILE FOR STEPS AND UNDERWATER BENCHES (SEE HARDSCAPE PLAN)
	6X6 DEPTH MARKERS, 4" BLACK LETTERING ON WHITE BACKGROUND (SLIP RESISTANT FINISH)
	6X6 INTERNATIONAL "NO DIVING" SYMBOL
	WHITE PLASTER



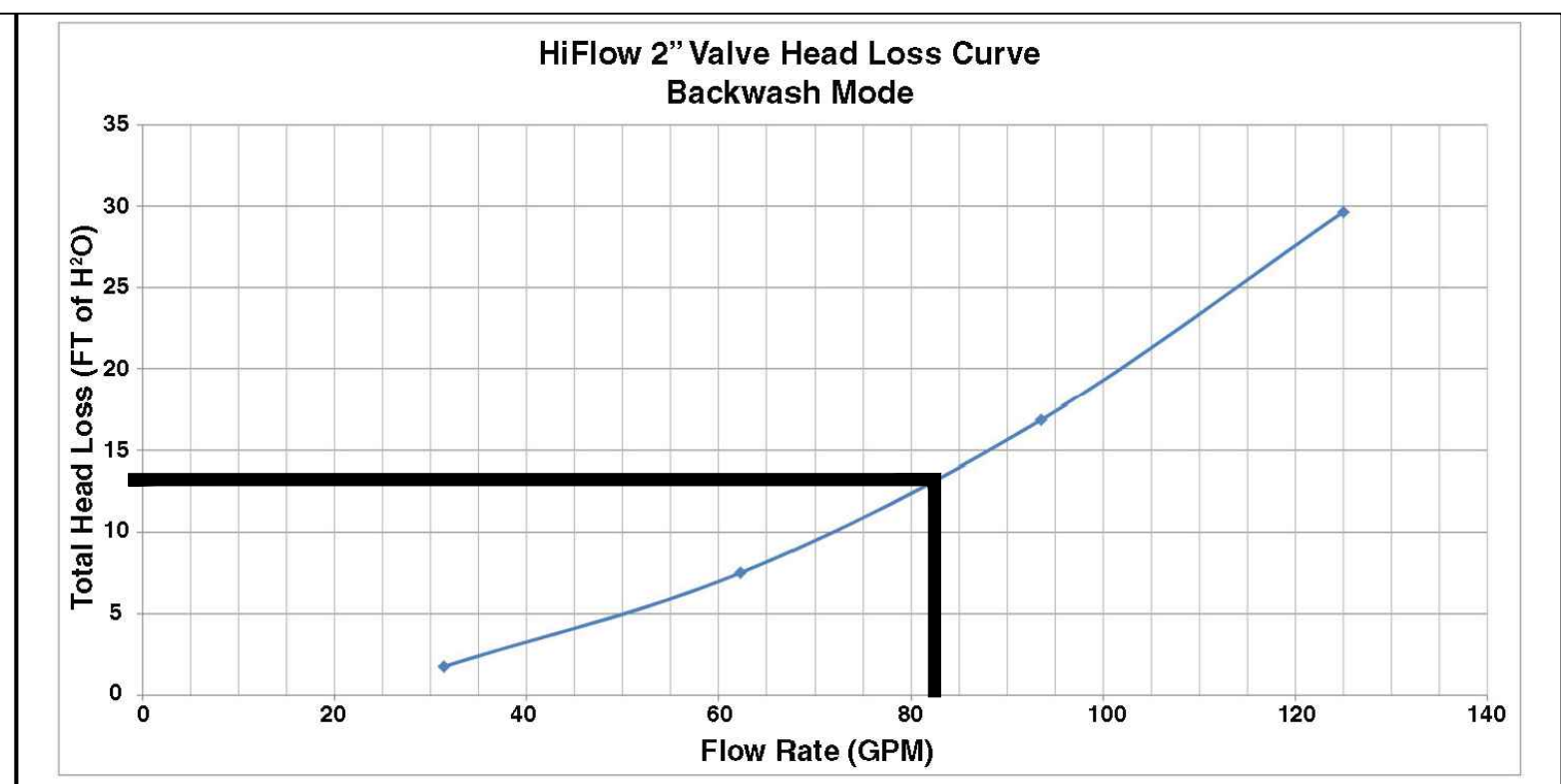
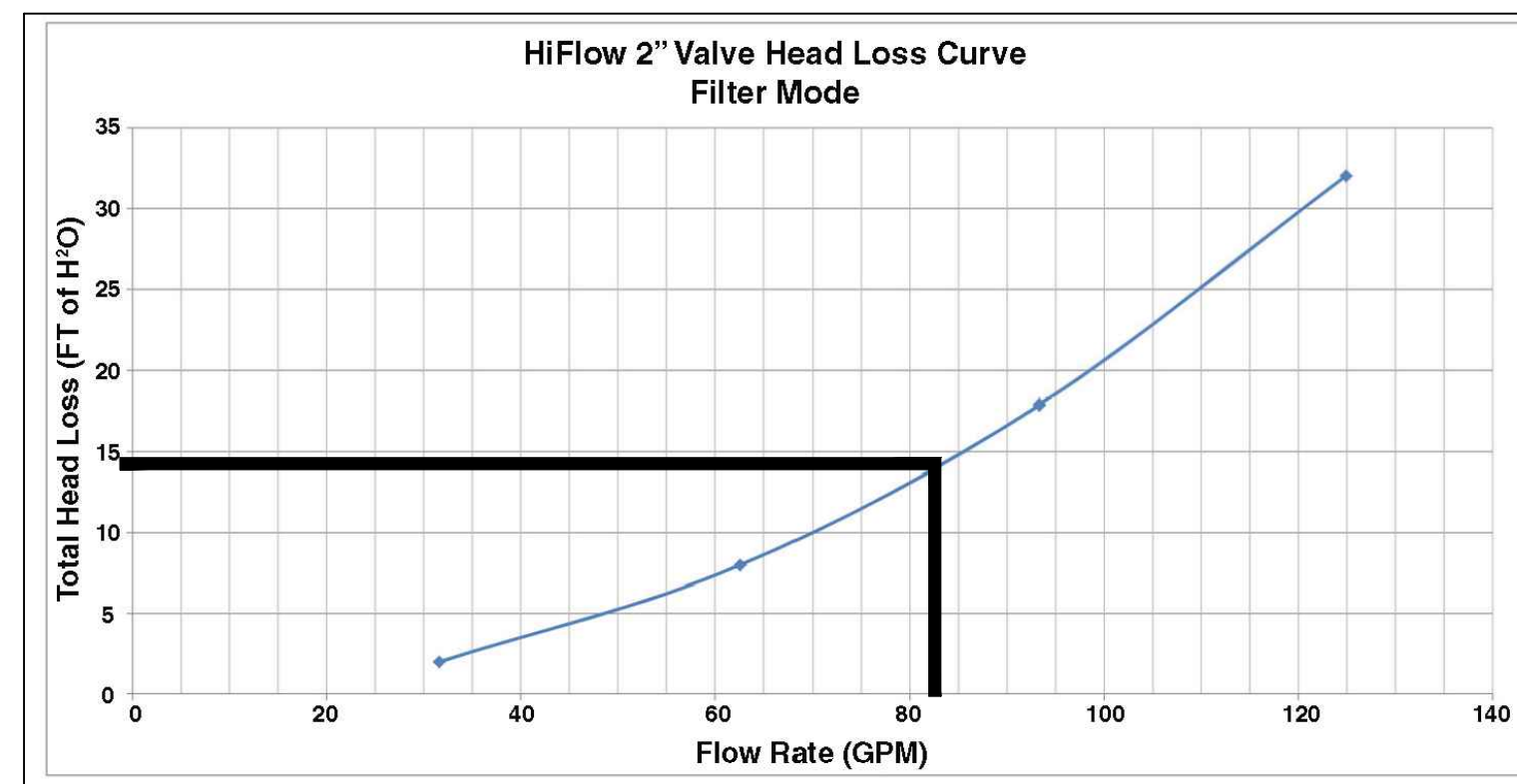
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04 SAND FILTER PERFORMANCE CURVE
PL-1.3 SCALE: NOT TO SCALE



05 RECIRCULATION PUMP PERFORMANCE CURVE
PL-1.3 SCALE: NOT TO SCALE



06 HI-FLO VALVE PERFORMANCE CURVE
PL-1.3 SCALE: NOT TO SCALE

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EQUIPMENT
DATA
&
PIPING
SCHEMATIC

Drawing No.

PL-1.4

Sheet No.
7 of 7