

CODE REQUIREMENTS

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- 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.
- 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

- PER 301.B - ALL INTERIOR SURFACES OF THE POOL SHALL RECEIVE A LIGHT COLORED PLASTER ON ALL SURFACES NOT TILED. PLASTER TO BE WHITE.
- PER 305.A - ALL POOL WALLS SHALL BE VERTICAL AND PLUMB.
- PER 311.A - THE MINIMUM WATER DEPTH IS 3'-8".
- 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'-6".
- 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. DEPTH MARKER SPACING IS NOT TO EXCEED 25'-0" ON CENTERS IN FULL COMPLIANCE WITH CODE.
- PER 315.A - THE POOL TURNOVER RATE SHALL BE SIZED AT 3.1 HOURS.
- PER 323.B - POOL DECK SHALL BE CONSTRUCTED OF 4" CONCRETE SLAB ON GRADE WITH NON-SLIP RESISTANT CONTENTIOUS FINISH.
- PER 323.F.3 - THE MINIMUM CONTINUOUS UNOBSTRUCTED DECK WIDTH SHALL BE 4 FEET.
- PER 323.G - THE POOL DECK SHALL BE 1/2" 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.
- PER 323.J - CONTROL JOINTS AROUND THE COPING AND THROUGHOUT THE DECK SHALL BE CONSTRUCTED TO A MINIMUM WIDTH OF 1/2".
- PER 323.O - POOL DECK SHALL BE SLOPED AS INDICATED ON SHEET PL-1.0.
- 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.
- 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 REMIAN UNDER PRESSURE THROUGHOUT THE ENTIRE DURATION OF THE CONSTRUCTION PROCESS AS MUCH AS FEASIBLY POSSIBLE.
- PER 323.S - A HOSE BIB AND VACUUM BREAKER SHALL BE PROVIDED FOR WASHING DOWN THE ENTIRE POOL DECK AREA.
- PER 325 - TWO MEANS OF EXIT/EGRESS IS PROVIDED ON THIS POOL BY MEANS OF STAIRS EACH WITH A HANDRAIL.
- PER 327 - ALL STAIR TREADS ARE 16". ALL RISERS ARE UNIFORMLY 12", WITH THE BOTTOM RISER VARYING NO MORE THAN PLUS OR MINUS 2", TWO HANDRAILS SHALL BE PROVIDED (ONE HANDRAIL FOR EACH EXIT ENTRY), 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..

CIRCULATION SYSTEMS

- PER 501 - ALL POOL EQUIPMENT IS SIZED TO MEET 3.1 TURN OVER RATE, MEETING THE MINIMUM HOUR REQUIREMENT, AND ALL POOL EQUIPMENT SHALL MEET NSF 50 PER LAC TITLE 51 CODE.
- 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)
- PER 503.C.1 - THIS POOL SHALL BE PROVIDED WITH A FLOW METER SHOWING FLOW RATE THROUGH THE FILTER SYSTEM IN GALLONS PER MINUTE.
- PER 505 - PROPERLY SIZED SAND FILTER SHALL BE PROVIDED WITH A SIGHT GLASS TO DETERMINE WATER CLARITY.
- PER 507 - A RECIRCULATION PUMP SHALL BE PROVIDED WHICH MEETS OR EXCEEDS THE MAXIMUM FLOW RATE FOR THE POOL RECIRCULATION SYSTEM.
- PER 509 - THIS POOL SHALL HAVE A TOTAL OF 6 RETURN INLETS (4 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.
- 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 OPERATING LEVEL.
- 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.
- PER 515 - A SURFACE SKIMMER SHALL BE PROVIDED FOR EVERY 500 SQ. FT. OF WATER SURFACE AREA.

GENERAL STANDARDS

- PER 701 - ALL DEPTH MARKER REQUIREMENTS FOR THIS CODE SECTION ARE IDENTIFIED ON PLAN SHEET PL-1.2, DETAIL 03 & 04, AND ALL REFERENCED ON PLANS PL-1.0 AND PL-1.1.
- PER 703 - THIS CLASS C POOL SHALL BE PROVIDED WITH A 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.
- 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.
- PER 711 - BACKWASH WATER SHALL BE DISCHARGED INTO AN EXISTING SANITARY SEWER LINE THROUGH A 6" MINIMUM AIR GAP.
- 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.
- PER 715.A - THIS POOL WILL NOT BE OPEN FOR USE DURING NON-DAYLIGHT HOURS.

35. PER 717 - THE EXISTING POOL EQUIPMENT IS VENTILATED AS REQUIRED PER LAC TITLE 51..

36. PER 733.A - EXISTING POLE HOOKS, ROPES, BUOYS, FIRST AID KIT, AND OTHER LIFESAVING EQUIPMENT ARE TO BE PROVIDED BY THE OWNER IN COMPLIANCE WITH CODE.

DISINFECTION & BACTERIOLOGICAL QUALITY

- PER 901.A - ALL DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF STANDARD 50.
- 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.
- 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).
- 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

GENERAL CONSTRUCTION NOTES

- REFERENCE HARDSCAPE & DRAINAGE PLANS FOR FINISHED GRADES, AND DRAINAGE.
- FOR ALL FINISHES ON THE POOL AND POOL DECK, REFERENCE THE HARDSCAPE PLANS.
- 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 & 04.
- 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.
- 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.
- ALL SKIMMERS ARE TO HAVE EQUALIZER LINES WITH SUCTION COVERS.
- POOL EQUIPMENT ROOM IS EXISTING, AND SHALL REMAIN DIRECTLY EXHAUSTED TO THE OUTSIDE ATMOSPHERE.
- THE POOL BEING RENOVATED IS OUTDOORS.

POOL CALCULATIONS

POOL VOLUME CALCULATIONS

136 sq. ft x 17 ln. ft. = 2312 cu ft.
2,312 x 7.48 gallons = 17,294 gallons

TOTAL SYSTEM DESIGN FLOW RATE = 116.0 GPM
POOL FLOW RATE = 116 X 0.80 = 92.8 GPM
WATER FEATURE FLOW (DECK JETS) = 116 X .02 = 23.2 GPM

20% of 116 GPM = 23.2 GPM

POOL COPING (OUTER PERIMETER) = 133 LN. FT.

POOL COPING (INNER PERIMETER) = 125 LN. FT.

WATER SURFACE AREA = 698 SQ. FT.

DESIGNED AT 116 GPM WITH 75 FT. OF HEAD

27 BATHERS MAX LOAD CAPACITY

TR160 C FILTER

3 HP WHISPERFLO XF PUMP

HEAD LOSS CALCULATIONS

RETURN HEADLOSS

QTY	UNIT	LISTING DESCRIPTION
2.0	FT	2" FLOW METER
4.06	FT	ADJUSTABLE FLOOR INLET (2 EACH)
2.68	FT	3/2" DIRECTIONAL EYEBALL FITTING (4 EACH)
8.0	FT.	TR140 SAND FILTER
7.0	FT.	2" HI-FLO VALVE
.34	FT.	1.5" PIPE (476 LN. FT.)
1.37	FT.	1.5" TEE FITTING (13 EACH)
5.15	FT.	1.5" 90 DEGREE ELBOW FITTING (24 EACH)
6.66	FT.	2.0" PIPE (90 LN. FT.)
2.06	FT.	2" 90 DEGREE ELBOW FITTING (9 EACH)
3.63	FT.	2.5" BALL VALVE (2 EACH)
5.00	FT.	3" BALL VALVE (2 EACH)
.50	FT.	3" BALL CHECK VALVE (1 EACH)
6	FT	4 DECK JETS (EACH AT 1.5 FT. OF ELEVATION CHANGE)
55.86	FT.	TOTAL

SUCTION HEADLOSS

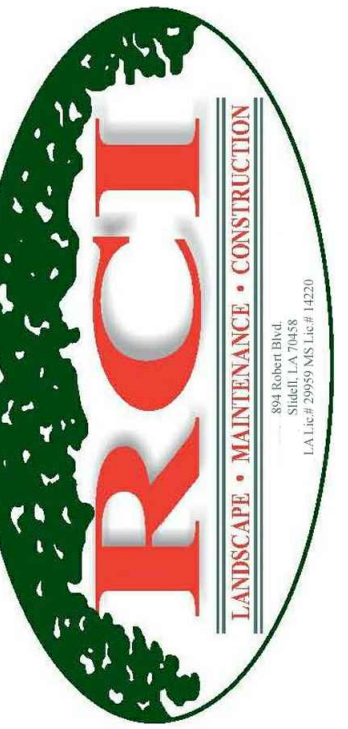
QTY	UNIT	LISTING DESCRIPTION
3.00	FT.	2.0" BALL VALVE (2 EACH)
7.0	FT.	SKIMMER (2 EACH)
4.0	FT.	MAIN DRAIN INLETS (2 EACH)
1.86	FT.	3" PIPE (134 LN. FT.)
.05	FT.	3" TEE FITTING (2 EACH)
.29	FT.	3" 90 DEGREE ELBOW FITTING (6 EACH)
.07	FT.	2" PIPE (238 LN. FT.)
.20	FT.	2" TEE FITTING (1 EACH)
1.22	FT.	2" 90 DEGREE ELBOW FITTING (15 EACH)
17.69	FT.	TOTAL

GRAND TOTAL HEAD LOSS = 73.45 FT

SYSTEM HEAD LOSS TO BE 75 FT FOR DESIGN.

POOL DESIGN DATA

WATER VOLUME =	17,294 GALLONS
POOL TURNOVER RATE @92.8 GPM =	3.1 HOURS
TOTAL TURN OVER RATE @116 GPM =	2.48 HOURS
TOTAL DESIGN FLOW RATE =	116 GPM
WATER SURFACE AREA =	698 SQ. FT.
POOL PERIMETER =	125 LN. FT.
DESIGN HEAD LOSS =	75 FT.
MAXIMUM BATHER LOAD =	27 PERSONS



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SPECIFICATIONS,
NOTES, &
CALCULATIONS

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G-1.0

Sheet No.

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