GENERAL NOTES

1. POOL SHALL BE CONSTRUCTED IN ACCORDANCE WITH LAC TITLE 51 PART XXIV.
2. UNDER WATER SEAT BENCHES IN POOL ARE TO BE CONSTRUCTED IN ACCORDANCE WITH LAC TITLE 51 PART XXIV. VARIANCE CRITERIA FOR THE UNDERWATER SEAT BENCH IN THIS APPLICATION REQUIRES A TO 20 INCHES OF WATER DEPTH OVER THE BENCH AND A PROJECTION DEPTH OF 14 TO 18 INCHES FROM THE POOL WALL. THE EDGE OF THE BENCH WILL BE HAVE A 1" ROUND WITH DARK CONTRASTING 2"X2" TILE TO INDICATE THE EDGE OF BENCH.
3. ALL POOL STEP CORNERS OF THE TREADS SHALL RECEIVE A 1" ROUNDED EDGE WITH 2"X2" DARK CONTRASTING TILE.
4. BASED ON POOL SURFACE AREA, VOLUME, FLOW RATE, AND TURNOVER RATE, RETURNS, SKIMMERS, MAIN DRAINS, POOL LIGHTING ARE TO BE PROVIDED IN THE QUANTITIES REQUIRED IN ACCORDANCE WITH LAC TITLE 51 PART XXIV.
6. FRESH WATER SUPPLY LINE IS TO BE PROVIDED TO THE AUTO-FILL SUPPLY LINE BY A LICENSED PLUMBER, AND BE CONTROLLED BY THE WATER LEVEL CONTROLLER (POOL MISER). (SEE DETAIL ON SHEET PL-1.3)
7. ALL REQUIRED POWER SUPPLIES FOR THE ELECTRICAL EQUIPMENT NEEDED TO OPERATE THE POOL SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND GUIDELINES. THE CITY OF METAIRIE WILL BE SUPPLYING THE FRESH WATER SUPPLY AND ACCEPTING THE WASTEWATER.
8. A HOSE BIBB WITH VACUUM BREAKER SHALL BE PROVIDED FOR WASHING THE POOL DECK.
9. HAND RAILS SHALL MEET CODE ~~XXIV.327.~~
10. LADDERS SHALL MEET CODE ~~XXIV.329.~~
11. POOL INLETS SHALL DISCHARGE 10" TO 15" BELOW POOL OVERFLOW.
12. A 12' STRONG POLE WITH BOAT HOOK, AND A THROWING ROPE WITH BUOY SHALL MEET CODE XXIV.703A1 AND 2.
13. ALL POOL DEPTH MARKERS AND NO DIVING SYMBOLS SHALL BE IN COMPLIANCE WITH LAC TITLE 51 PART XXIV, AND OF NON-SLIP FINISH ON THE POOL DECK. CORRESPONDING DEPTH MARKERS AND NO DIVING SYMBOL TILE SHALL ALSO BE PLACED ON THE POOL WALL WITH A SMOOTH FINISH WITHIN THE WATERLINE TILE.
14. THE POOL PLASTER SHALL BE WHITE PLASTER AND IN ACCORDANCE WITH LAC.51:XXIV.301.B.
15. PER LAC.51.XXIV311.C, THIS POOL IS A CLASS C POOL, WITH NO BEGINNER'S AREA, OR SHALLOW AREA, AS THE DEPTH OF THE MAIN POOL BODY STARTS AT 3'-6" WATER DEPTH. THOSE SHALLOW AREAS SUCH AS WET LEDGES AND BENCHES SHALL BE DEFINED PER LAC.51:XXIV CODE WITH DARK COLORED CONTRASTING SLIP RESISTANT TILE. NO ROPE AND FLOAT, NOR A ROW OF FLOOR TILE WILL BE REQUIRED, AS THIS POOL DESIGN DOES NOT PROVIDE FOR ANY LAP LANES, OR ANY OTHER DESIGNATED AREAS OTHER THAN THOSE WET LEDGES AND BENCHES IDENTIFIED.
16. THE EXISTING HOSE BIBB LOCATION SPECIFICALLY PROVIDED FOR CLEANING AND WASHING OF THE POOL DECK AREA IS LOCATED ON PLAN SHEET DM-1.0.
17. PER CODE LAC 51:XXIV.323.Q THE CIRCULATION SYSTEM PIPING, OTHER THAN THAT INTEGRALLY INCLUDED IN THE MANUFACTURE OF THE POOL, SHALL BE HYDRAULICALLY PRESSURE TESTED (SEALED SYSTEM) AT 25 POUNDS PER SQUARE INCH (psi) FOR 30 MINUTES AND INSPECTED FOR APPROVAL BEFORE BACKFILLING OF ANY TRENCHES OR COVERING OF ANY PIPE.
18. DECK SLOPE SHALL BE ⅛" MINIMUM TO ¼" MAXIMUM PER LAC 51.XXIV CODE AND ADA CODE COMPLIANCIES. THE POOL DECK AREAS SHALL RECEIVE A COLORED CONCRETE TOPPING BY SUNDECK WHICH SHALL PROVIDE FOR A SLIP RESISTANT FINISH.
19. THE DEEP END OF THE POOL SHALL BE FURNISHED WITH A LADDER/RAIL ASSEMBLY WITH THREE LADDER RUNGS TO FACILITATE A SECOND EXIT/ENTRY FOR THE POOL PER CODE LAC.51:XXIV.331.A. SEE PLANS FOR LADDER/RAIL ASSEMBLY WITH RUNGS. THE POOL LADDER SHALL ALSO MEET CODE LAC.51:XXIV.329. THE LADDER ASSEMBLY SHALL BE OF STAINLESS STEEL, AND PROVIDE TWO HANDRAILS WHICH SHALL MAINTAIN A CLEARANCE OF 3" TO 6" FROM THE POOL WALL AND THE LADDER TREAD EDGE. THE CLEAR DISTANCE BETWEEN THE LADDER RAILS SHALL BE BETWEEN 17" AND 24". THERE SHALL BE A UNIFORM HEIGHT BETWEEN LADDER TREADS, WITH A 7" TO 12" DISTANCE IN BETWEEN EACH TREAD. LADDER TREADS SHALL HAVE A MINIMUM HORIZONTAL DISTANCE OF 1.5 INCHES.
20. ALL POOL EQUIPMENT, POOL MATERIALS, DISINFECTION EQUIPMENT, AND CHEMICAL FEEDERS ARE COMPLIANT WITH NSF 50. AS PER LAC.51:XXIV.501.D AND 901.A WHERE EQUIPMENT SIZING FALLS WITHIN SCOPE OF NSF TESTING, MATERIALS AND EQUIPMENT USED IN THE CIRCULATION SYSTEM SHALL COMPLY WITH THE APPROPRIATE REQUIREMENTS OF NSF STANDARD 50. DISINFECTION EQUIPMENT AND CHEMICAL FEEDERS HEREINAFTER REFERRED TO JOINTLY AS "EQUIPMENT", SHALL COMPLY WITH THE REQUIREMENTS OF NSF 50 STANDARD. THE DISINFECTION EQUIPMENT SHALL BE CAPABLE OF PRECISELY INTRODUCING A SUFFICIENT QUANTITY OF AN APPROVED DISINFECTING AGENT TO MAINTAIN THE APPROPRIATE RECOMMENDED GUIDELINES REQUIRING CONCENTRATIONS AS PER 903 AND 905.
21. PER CODE LAC.51:XXIV.503.A. WATER VELOCITY IN THE POOL PIPING SHALL NOT EXCEED 10 FEET PER SECOND FOR DISCHARGE PIPING, AND 6 FEET PER SECOND FOR SUCTION PIPING, UNLESS SUMMARY CALCULATIONS ARE PROVIDED TO SHOW THAT THE GREATER FLOW IS POSSIBLE WITH THE PUMP AND PIPING PROVIDED. POOL PIPING SHALL BE SIZED TO PERMIT THE RATED FLOWS FOR FILTERING AND CLEANING WITHOUT EXCEEDING THE MAXIMUM HEAD FOR THE PUMP. (SEE CALCULATIONS ON SHEET G-1.0)
22. SEE POOL SCHEMATIC FOR ALL REQUIRED GAUGES, FLOW METERS, AND OTHER REQUIRED COMPONENTS FOR THE OPERATION OF THE POOL SYSTEM IN COMPLIANCE WITH CODE LAC.51:XXIV.503.C.1.
23. SEE SHEET G-1.0 FOR ALL PIPE FRICTION LOSS CALCULATIONS, PRESSURE LOSS ACROSS THE POOL EQUIPMENT, AND ALSO SEE SHEET PL-1.2 FOR PERFORMANCE CURVES.
24. ALL INLETS ARE TO BE THE ¾" EYEBALL ADJUSTABLE DIRECTIONAL FLOW INLET TYPE, AND ARE LOCATED IN THE QUANTITIES SHOWN AS PER PLANS.
25. THE TWO MAIN DRAIN SUMP AND GRATE ASSEMBLIES SHALL BOTH HAVE A DARK GREY SEAT RING, AND WHITE VGB 2008 COMPLIANT COVERS FOR THE SUMP BODIES, BOTH MEETING COMPLIANCE WITH LAC.51XXIV.511.C.3.
26. THE POOL SHALL ONLY BE IN OPERATION DURING DAYLIGHT HOURS, AND WILL HAVE A SECURED ENTRY GATE TO BE LOCKED AFTER DAYLIGHT HOURS.
27. ALL FILTRATION, PUMPING, AN CHEMICAL EQUIPMENT, AND STORAGE AREAS SHALL BE ON AN OPEN CONCRETE PAD, AND ENCLOSED BY A SEPARATE PRIVACY FENCE AROUND THE EQUIPMENT WITH A 4 FOOT LOCKED GATE FOR LIMITED ACCESS TO AUTHORIZED MAINTENANCE STAFF ONLY.
28. A TAYLOR TEST COMPLETE TEST KIT WHICH UTILIZES THE DPD TESTING METHOD PER LAC.51:XXIV.901.C SHALL BE PROVIDED AND USED.
29. IN ACCORDANCE WITH LAC.51:XXIV.901.B.3, THE PH SHALL BE MAINTAINED BY USE OF AN OFFLINE CHLORINATION FEEDER (PENTAIR MODEL 302 - ACCEPTS SMALLER CHLORINE TABLETS). HAND BATCH FEEDING OF ANY PH CHEMICAL INTO THE POOL IS EXPRESSLY PROHIBITED.
30. BOTH THE WET LEDGE ENTRY AND WET SHELF CONSIST OF LESS THAN 200 SQ. FT. SURFACE AREA, AND EACH HAVE ONE SKIMMER LOCATED WITHIN THE POOL WALL CENTERED ON EACH AREA, WHILE ALSO SATISFYING THE OVERALL SURFACE AREA OF 892 SQ. FT. (SEE CALCULATIONS).

Pool shall have a 4' deck surrounding entire pool.

VGB compliant MAIN drain covers

DEMOLITION NOTES

1. EXISTING POOL FENCE IS TO BE REMOVED AND REPLACED COMPLETELY WITH AN ORNAMENTAL SECURITY FENCE AROUND THE POOL AND POOL DECK AREA AS SHOWN PER PLAN DM-1.0.
2. THE NEW GRILL AREAS ARE TO EACH BE 6 LN. FT. AS SHOWN PER PLANS.
3. EXISTING POOL, POOL DECK, POOL PLUMBING, AND POOL EQUIPMENT ARE TO BE DEMOLISHED AND REMOVED COMPLETELY, AND RECONSTRUCTED AS PER PLANS, IN ACCORDANCE WITH LAC.51:XXIV AND OTHER APPLICABLE REGULATIONS, STANDARDS, AND CODES.
4. A NEW 4" POOL DECK WILL RECEIVE A SLIP RESISTANT DECK TOPPING WHICH IS TO BE BY SUNDECK. THE POOL DECK FINISH SHALL PROVIDE A ⅛" MINIMUM SLOPE AS INDICATED ON PLANS, AND TO PROVIDE FOR A SLIP RESISTANT FINISH PER LAC.51:XXIV CODE.
5. A NEW WOODEN PERGOLA WILL BE PLACED AS SHOWN.
6. LANDSCAPING WILL BE AS SHOWN.
7. EXISTING SIDEWALK WILL REMAIN.

RETURN PIPE CALCULATIONS

170 LN. FT. OF 2" PIPE + 10 EACH 2" 90 DEGREE ELBOWS + 10 EACH 2" TEES =

(170/100) 6.037 FT. + [(10*8.6 LN. FT.)/100] 6.037 FT. + [(10*4.3 LN. FT.)/100]

6.037 =

10.26 + 5.19 + 2.6 = 18.05 FEET OF HEAD TOTAL

SUCTION PIPE CALCULATIONS

153 LN. FT. OF 2" PIPE + 7 EACH 2" 90 DEGREE ELBOWS + 3 EACH 2" 45 DEGREE

ELBOWS + 3 EACH 2" TEES =

(153/100) 6.037 FT. + [(7*8.6 LN. FT.)/100] 6.037 FT. + [(3*2.6 LN. FT.)/100]

6.037 FT. + [(3*4.3 LN. FT.)/100] 6.037 FT. =

9.24 + 3.63 + .47 + .78 = 14.12 FEET OF HEAD TOTAL

EQUIPMENT HEAD LOSS

1 FILTER = 5.8 FT

1 2" MULTIPORT HI-FLO VALVE = 5.2 FT.

2 SKIMMERS = 1.75 * 2 = 3.5 FT.

TOTAL HEAD CALCULATION

18.05 + 14.12 + 5.8 + 5.2 + 3.5 = 46.67 FT OF HEAD TOTAL

FLOW RATE CALCULATIONS

WET LEDGE ENTRY = 62.5 CU FT

BENCH AREA = 133.5 CU FT

WET SHELF = 21 CU FT

BOTTOM STEP = 44 CU FT

MAIN POOL BODY = 2093 CU FT

TOTAL VOLUME = 2354 CU FT. = 17608 GALLONS F WATER

6 HOUR TURNOVER DESIGN = 2935 GPH = 48.92 GPM

MAIN RECIRCULATION PUMP SHALL BE 1 HP SIZED AT 52 FT. OF HEAD FOR OPTIMAL PERFORMANCE WITH SYSTEM DESIGN.

THE THROTTLING VALVE FOLLOWING THE PUMP, AS SHOWN IN THE PIPE SCHEMATIC, SHALL BE THROTTLED DOWN ACCORDINGLY TO RUN WITH 52 FT. OF HEAD AS SHOWN IN THE PUMP PERFORMANCE CURVE. THIS WILL ALLOW THE PUMP TO RUN AT AN OPTIMAL PERFORMANCE.

PIPE IDENTIFICATION LEGEND

IDENTIFICATION	PLAN ID	SIZE	TYPE	FLOW RATE	VELOCITY
MAIN DRAIN SUCTION	A	2.0"	SCH 40 PVC	49 GPM	5.00 FPS
SKIMMER SUCTION	B	2.0"	SCH 40 PVC	49 GPM	5.00 FPS
SKIMMER SUCTION	C	2.0"	SCH 40 PVC	49 GPM	5.00 FPS
INLET RETURN	D	2.0"	SCH 40 PVC	49 GPM	5.00 FPS
INLET RETURN	E	1.5"	SCH 40 PVC	25 GPM	4.54 FPS
OVERFLOW LINE	F	1.5"	SCH 40 PVC	N/A	N/A
WL SAMPLE LINE	G	1.0"	SCH 40 PVC	N/A	N/A
ELECTRICAL CONDUIT	H	1.0"	CONDUIT	N/A	N/A
CHLORINE SAMPLE	I	1.0"	SCH 40 PVC	N/A	N/A

SWIMMING POOL DATA

POOL PERIMETER:	120 FEET
POOL VOLUME:	17,608 GALLONS
RECIRCULATION RATE:	6 HOUR
DESIGN FLOW RATE	49 GPM
TOTAL HEAD	51 FT
POOL AREA	734 SQ. FT.
DECK AREA	4,175 SQ. FT.
POOL CAPACITY	36 EACH
POOL CONSTRUCTION	CONCRETE
POOL FINISH	PLASTER / TILE

RCI
894 ROBERT ROSE FEYARD
SLIDELL, LOUISIANA 70458
PH: 985-643-2427
FAX 985-643-2691
RICHARDCONSTRUCTIONCONSULTANTS.COM

LAKEWOOD MANOR APARTMENTS
LAKE AVENUE
METAIRIE, LA.

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Contact: Rod Richard 985.643.2427
Project No: 15-14000-LA

Revisions		
No.	Date:	Description:
01	5.27.2016	REVISIONS PER RDH 1-7

Date: 3/17/2015
Drawn: TJH
Checked: RDR
Sheet Title:

NOTES AND CALCULATIONS

Drawing No.

G-1.0

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