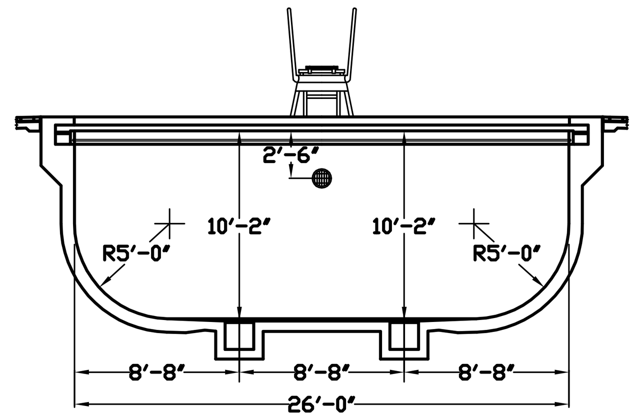
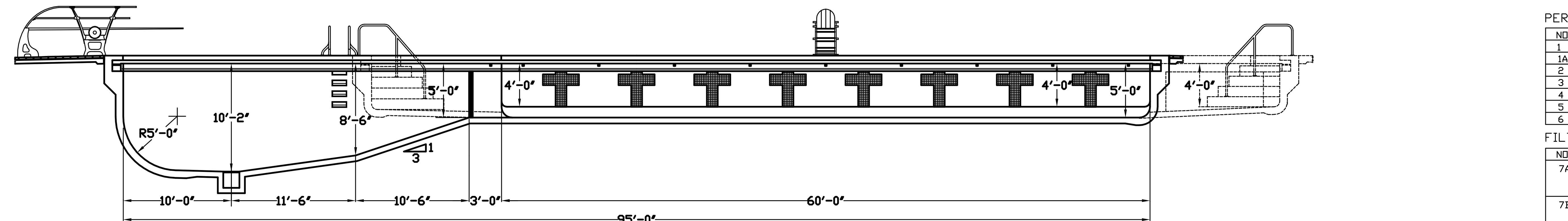
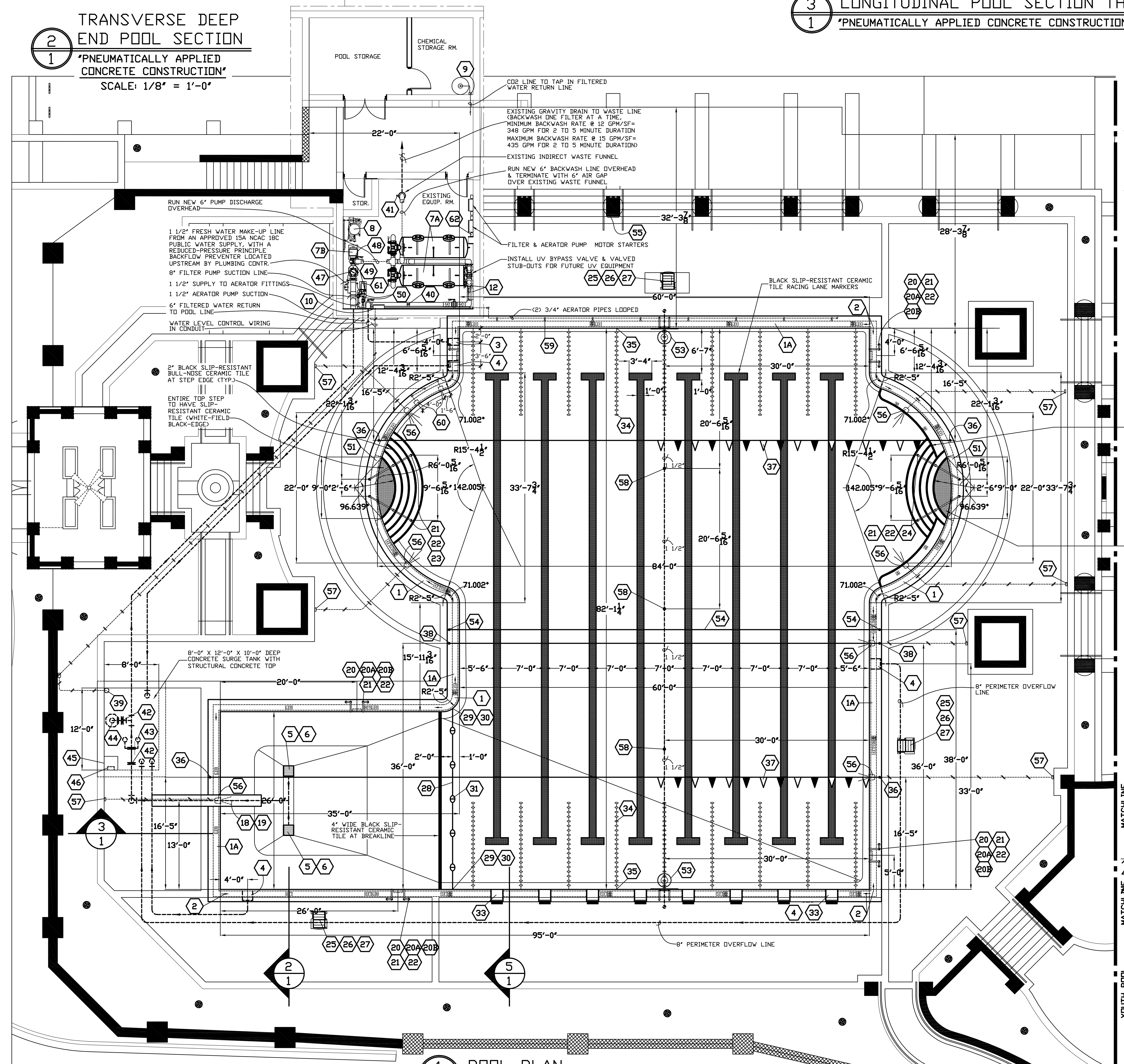


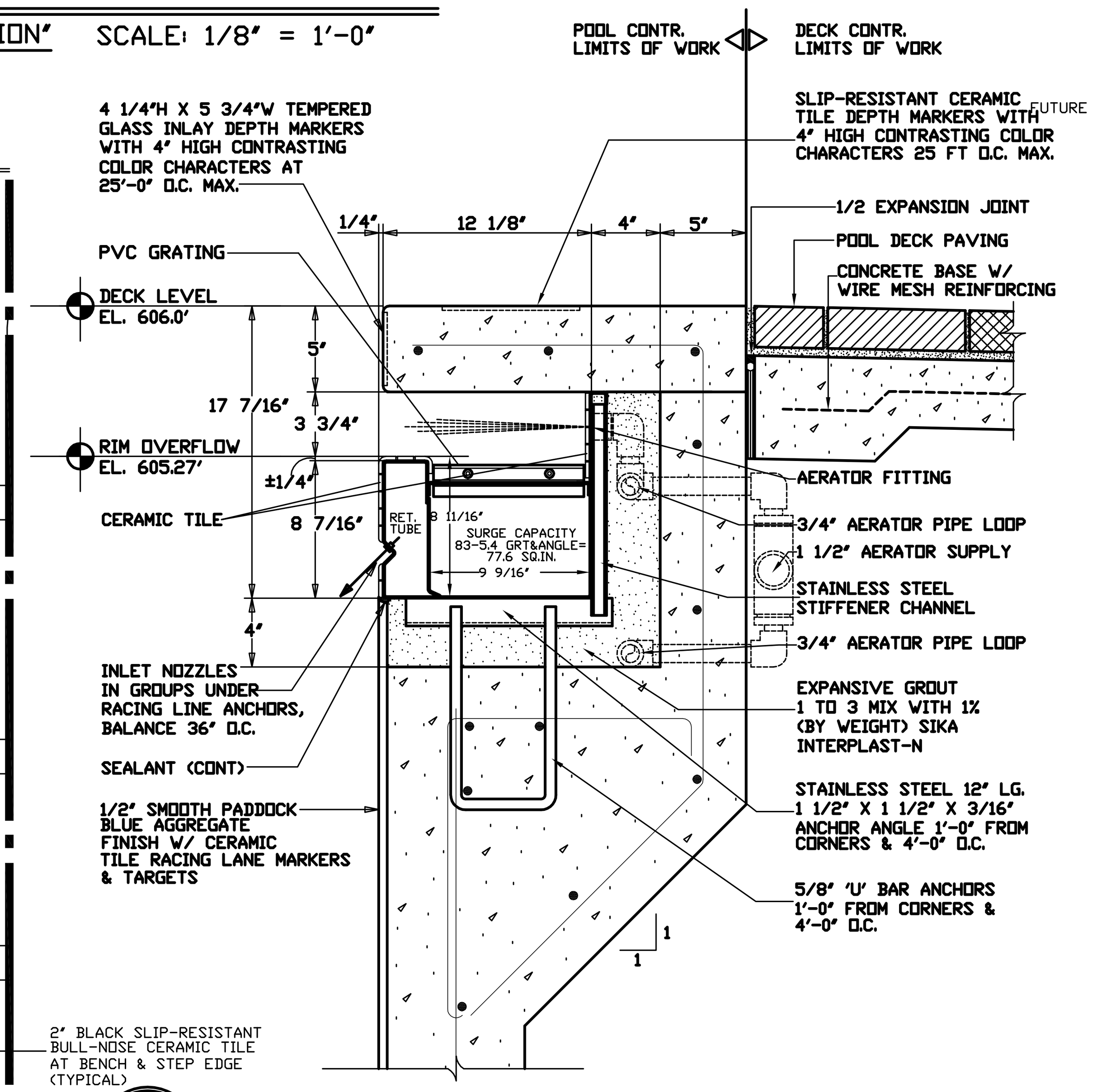
2/1 TRANSVERSE DEEP END POOL SECTION
"PNEUMATICALLY APPLIED CONCRETE CONSTRUCTION"
SCALE: 1/8" = 1'-0"



3/1 LONGITUDINAL POOL SECTION THRU DIVING WELL
"PNEUMATICALLY APPLIED CONCRETE CONSTRUCTION" SCALE: 1/8" = 1'-0"



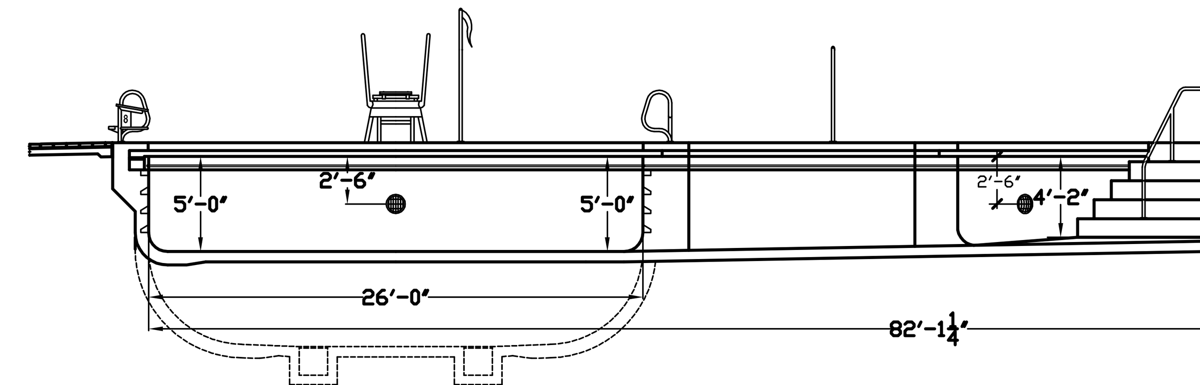
1/1 POOL PLAN
SCALE: 1/8" = 1'-0"



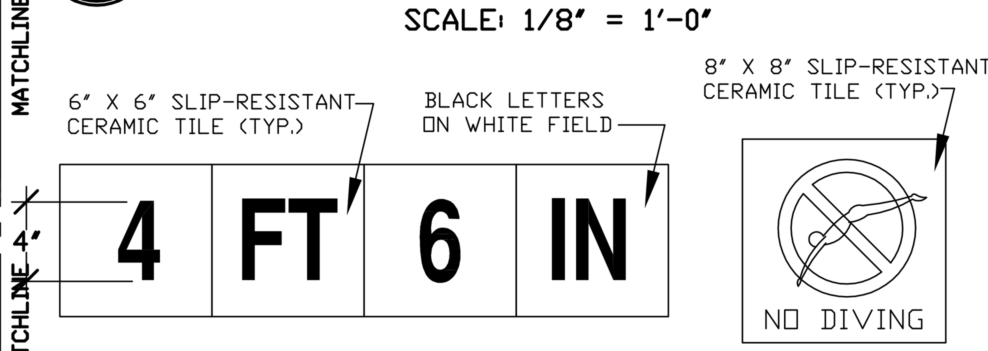
4/1 TYPICAL POOL WALL SECTION
LOW CARBON TYPE 304 STAINLESS STEEL R-300 SYSTEM
SCALE: 1 1/2" = 1'-0"

POOL NOTES:

1	POOL PERIMETER = 374'- 1 1/4" (RIM FLOW)
2	POOL AREA = 6,377 SQ.FT.
3	POOL CAPACITY = 239,000 GALS
4	POOL FLOW RATE FOR 4.73 HR. TURNOVER = 842 GPM
5	TOTAL RECIRCULATION RATE = 842 GPM
6	FILTER AREA= 58 SQ.FT.
7	FILTER RATE PER SQ.FT. OF FILTER AREA= 14.52 GPM
8	BATHER LOAD= 22 SWIMMERS+ 369 NON-SWIM= 391 TOTAL



5/1 LONGITUDINAL POOL SECTION THRU LAP AREA
"PNEUMATICALLY APPLIED CONCRETE CONSTRUCTION"
SCALE: 1/8" = 1'-0"



6/1 TYPICAL DEPTH MARKERS @ DECK
N.T.S.

DEPTH MARKER SCHEDULE

QTY	DEPTH	QTY	DEPTH
6	4 FT (NO DIVING)	5	5 FT (NO DIVING)
2	4 FT 2 IN (NO DIVING)	2	8 FT 6 IN
1	4 FT 6 IN (NO DIVING)	4	10 FT
2	4 FT 9 IN (NO DIVING)	4	NO STEP

PERIMETER OVERFLOW AND RECIRCULATION SYSTEM
ELECTRICALLY GROUNDED TO POOL STEEL

NO.	QTY.	CAT. NO.	DESCRIPTION	
1	±92'	R-300C	CURVED TYPE 304 ST.ST. RS PERIMETER WITH PVC GRATING	✓
1A	±324'	R-300S	STRAIGHT TYPE 304 ST.ST. RS PERIMETER WITH PVC GRATING	✓
2	12	9018SL	JET WASH FITTING	
3	1	6RC	STAINLESS STEEL RETURN CONVERTER W/ 6" ST.ST. FLG. CONN.	
4	3	8POC	STAINLESS STEEL P.O. CONVERTER W/ 8" ST.ST. FLG. CONN.	
5	2	8818-P	18"x 18" PVC MAIN DRAIN BOX W/ PVC BAR GRATE, 8" CONN.	
6	2	8703-S	COMMERCIAL HYDROSTATIC RELIEF VALVE	

FILTRATION EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
7A	2	6723-H-9 -1C-SS	36" DIAMETER X 9'-0" SIDE SHELL TYPE 316L STAINLESS STEEL 1-CELL HORIZONTAL PRESSURE SAND FILTER WITH MANUAL WATER VALVE CONTROL	
7B	1	5095-7	PACO FLOODED SUCTION PUMP & MOTOR, MODEL 5095-7, 20 H.P., RATED FOR 842 GPM @ 65' TDH, 460/230/208V, 3 PHASE, 60 CYCLE, 1750 RPM	

CHLORINATION EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
8	1	3140	PPG CHLORINATOR, BALANCE TANK, BOOSTER PUMP & STAND	
9	1	PA004	BULK TANK C02 FEEDER	
10	1	5000	C.A.T. WATER CHEMISTRY & LEVEL CONTROLLER	
11	1	2814	COMMERCIAL TEST SET DPD FREE CHLORINE TYPE	
12	1	PMD200E1/8AW	HANOVIA UV TREATMENT SYSTEM, 5.5 KW, TOP IN & OUT CONN.	

FUTURE N.I.C.

MAINTENANCE EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
13	1	3163	VACUUM CLEANER SET WITH 50' - 1 1/2" HOSE	
14	1	3180-E	PORTABLE PUMP & MOTOR FOR VACUUM CLEANER (ELECTRIC) 1/2 H.P., 115 VOLT, 1 PHASE	
15	1	3330	WALL BRUSH & HOLDER	
16	1	3348	SKIMMER HEAD	
17	1	3367	TELESCOPIC HANDLE 8' TO 16'	

DECK EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
18	1	70-231-402	1-METER DURAFIRM DIVING STAND W/ SINGLE GUARD RAILS	✓
19	1	66-231-324	14'-0" DURAFLEX DIVING BOARD	
20	5	4497	STAINLESS STEEL "PRETZEL BEND" GRAB RAIL SET	
20A	5	9027S	SPECIAL STAINLESS STEEL STEP INSERT	
20B	13	4501-F	CYCOLAC STEP INSERT	
21	32	4837	ST.ST. ESCUTCHEONS	
22	32	4801	1-1/2" BRONZE WEDGE DECK ANCHORS	✓
23	2	4718	38" HIGH X 7'-0 5/16"LG. ST.ST. HANDRAIL (1 RAIL, 3 POST)	
24	2	4718	38" HIGH X 7'-0 5/16"LG. ST.ST. HANDRAIL (1 RAIL, 3 POST)	

SAFETY EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
25	3	-	TAILWIND WHITE LIFEGUARD CHAIR WITH 2 STEPS	
26	3	4723	LIFE HOOK WITH 16'-0" HANDLE	
27	3	4726	24" LIFE RING BUOY W/ 50 FT 1/4" THROW ROPE	
28	29'	4747	3/4" POLYETHYLENE ROPE	
29	2	4774	3/4" ROPE HOOK TERMINAL	
30	2	9026SQ	1 7/8"X 1 7/8" ST.ST. SQUARE RECESSED ANCHOR FOR LIFELINE	
31	5	4778	5" X 9" LIFELINE FLOATS	
32				

RACING EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
33	8	4909	E-Z SET TWO STAINLESS STEEL STARTING PLATFORM W/ ANCHORS	✓
34	9	200 331000	4" COMPETITOR RACING LINE FOR 25 METER COURSE	
35	18	9026SQ	1 7/8"X 1 7/8" ST.ST. SQUARE RECESSED ANCHOR FOR RACING LINE	
36	4	4905	STAINLESS STEEL BACKSTROKE MARKER POST W/ ANCHOR & CAP	✓
37	2	4906	BACKSTROKE PENNANT FLAGS & ROPE (100 FT)	
38	2	4905-R	STAINLESS STEEL RECALL POST W/ ANCHOR & CAP	✓

MISCELLANEOUS EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION	
39	1	LS010	C.A.T. PRISM-TYPE WATER LEVEL SENSOR IN PVC STILL WELL	
40	1	DF010	C.A.T. DIGITAL FLOWMETER WITH DF030 6" SADDLE CLAMP	
41	1	5818	1 1/2" BACKWASH SIGHT GLASS	
42	2	-	8" ST.ST. SURGE TANK VALVE EXTENSION, ST.ST. DECK SLEEVE, & ST.ST. 'T'-HANDLED VALVE KEY	
43	1	8FV	8" DUAL MODULATING FLOAT VALVE	
44	1	8AVP	8" STAINLESS STEEL ANTIVORTEX PLATE	
45	1	-	2' X 2' ST.ST. SURGE TANK ACCESS HATCH	
46	9	-	SURGE TANK LADDER RUNG	
47	1	8X6ER	8" X 6" ST.ST. ECCENTRIC STRAINER WITH EXTRA BASKET	
48	1	6X5CR	6" X 5" ST.ST. CONCENTRIC REDUCER	
49	2	-	PRESSURE GAUGE	
50	2	-	VACUUM GAUGE	
51	2	-	±9'-1 1/2" GUTTER COVER AT STEPS	
52				
53	2	BASKC	S.R. SMITH DECK MOUNT BASKETBALL GOAL/ANCHOR SET	✓
54	1	VOLYC52	DECK MOUNT VOLLEYBALL (2)POST/ANCHOR SET, 50-56'LG. NET, & 25 FT NET ROPE	✓
55	1	R234100	N.C. POOL RULES SIGN	
56	7	78454100	500 WATT, 120V UNDERWATER LIGHT W/ 30' CORD, ST/ST. NICHE	✓
57	7	4416	JUNCTION BOX FOR UNDERWATER LIGHT	
58	3	8804	FLOOR INLET FITTING	
59	8	DJSS4070	SPRAYING SYSTEM CO. AERATOR DISC W/ 3/4" ST.ST. COUP.	
60	2	SP-1048AV	ANTIVORTEX MAIN DRAIN WITH 1 1/2" CONNECTIONS	
61	1	CFII-N1-1/2F	CHALLENGER SELF PRIMING AERATOR PUMP & MOTOR WITH STRAINER & EXTRA BASKET, 28 GPM @ 54'TDH, 1/2 H.P., 115/230V	
62	1	-	AERATOR PUMP TIME CLOCK (8 HRS)	

GENERAL NOTES:

1. ⬡ DENOTES POOL EQUIPMENT LIST NUMBER.
2. ALL BURIED PIPING BETWEEN POOL AND FILTER TO BE NSF APPROVED SCHEDULE 40 PVC PIPE WITH SOLVENT WELD SOCKET FITTINGS. PRIOR TO BEING COVERED BY EARTH, PIPING TO BE PRESSURE TESTED.
3. ALL PIPING IN FILTER ROOM TO BE PERMANENTLY MARKED WITH DIRECTIONAL ARROWS & LABELED. ALL VALVES TO BE TAGGED & LABELED.
4. ALL WIRING & GROUNDING TO CONFORM TO THE NATIONAL ELECTRIC CODE. ALL ELECTRICAL CIRCUITS TO HAVE GROUND FAULT INTERUPTORS, BY ELECTRICAL CONTRACTOR.
5. A TELEPHONE WITH EMERGENCY NUMBERS SHALL BE LOCATED WITHIN POOL AREA.
6. UNDERWATER LIGHTS TO HAVE 30 FT CORDS. POOL CONTRACTOR TO RUN CORDS IN CONDUIT TO JUNCTION BOX. ELECTRICAL CONTRACTOR TO RUN POWER TO JUNCTION BOX.
7. THE AERATOR/COOLING SYSTEM IN THE POOL WILL BE OPERATED ON A TIME CLOCK. DURING THE NIGHT TO COOL THE POOL WATER IN THE SUMMER. THIS SYSTEM WILL HAVE ITS OWN SUPPLY PUMP AND TIME CLOCK.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 7011 ALAN R. HINE

HINE'S AQUATIC ENGINEERING
405 WILLOWCREST DR.
WINSTON-SALEM, N.C. 27107
(336) 769-4900

NSF LISTED FILTER
PADDOCK CATALOG NO 6723-H-9-1C-SS

Paddock

CARMEL COUNTRY CLUB
CHARLOTTE, NORTH CAROLINA

COMPETITION POOL PLAN & SECTIONS

DRAWN BY	M.J.G.
DATE	3-26-07
REV.	9-25-07
DRAWING NO.	PL-3429-1

PADDOCK POOL BUILDERS, INC.
DON BAKER (803) 980-1901
2215-B NEPTUNE DRIVE
ROCK HILL, S.C. 29730

X:\Projects\Carmel Country Club -- 4526\S3429A8.dwg