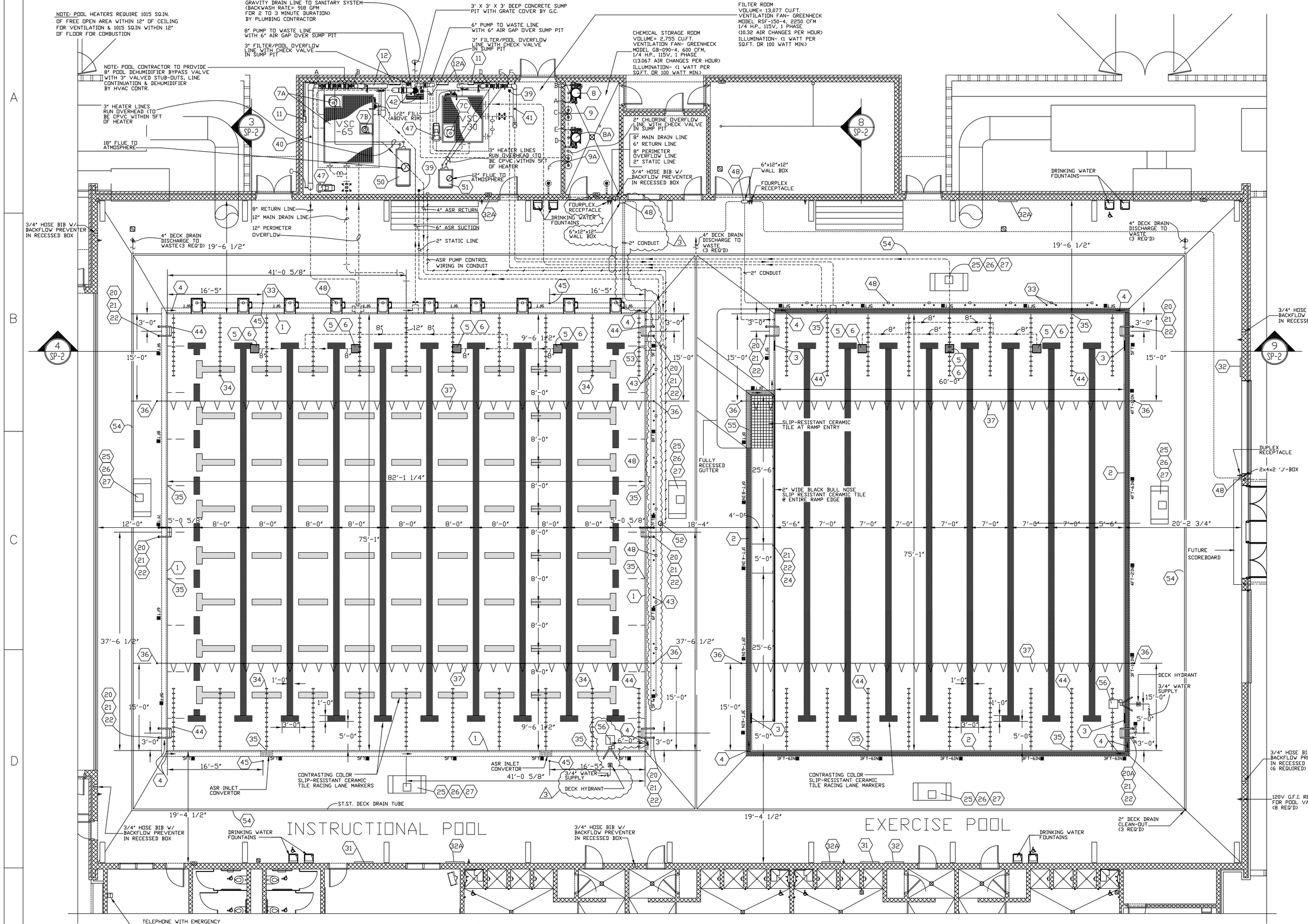


1 SP-1 POOL PLAN AND EQUIPMENT LAYOUT

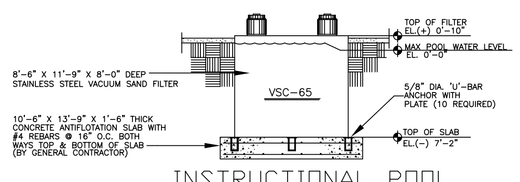
SCALE: 1/8" = 1'-0"

INSTRUCTIONAL POOL NOTES:

1	POOL TYPE 'B', INDOOR
2	POOL PERIMETER = 314'-4 1/2"
3	POOL AREA = 6,165 SQFT.
4	POOL CAPACITY = 330,500 GALS
5	POOL FLOW RATE FOR 6 HR. TURNOVER = 918 GPM
6	TOTAL RECIRCULATION = 918 GPM
7	FILTER AREA = 65 SQ.FT.
8	FILTER RATE PER SQ.FT. OF FILTER AREA = 14 GPM
9	SWIMMING LIMITS = 246 PERSONS MAX.
10	DECK AREA = 5,045 SQ. FT.
11	DECK LIMITS = 60 PERSONS MAX.

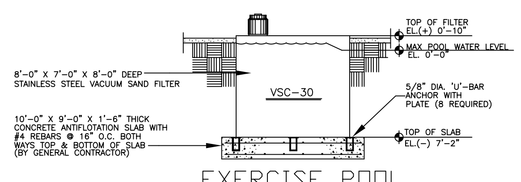
EXERCISE POOL NOTES:

1	POOL TYPE 'B', INDOOR
2	POOL PERIMETER = 278'-2"
3	POOL AREA = 4,749 SQFT.
4	POOL CAPACITY = 148,700 GALS
5	POOL FLOW RATE FOR 6 HR. TURNOVER = 414 GPM
6	TOTAL RECIRCULATION = 414 GPM
7	FILTER AREA = 30 SQFT.
8	FILTER RATE PER SQFT OF FILTER AREA = 13.8 GPM
9	SWIMMING LIMITS = 450 PERSONS MAX.
10	DECK AREA = 5,033 SQ. FT.
11	DECK LIMITS = 55 PERSONS MAX.



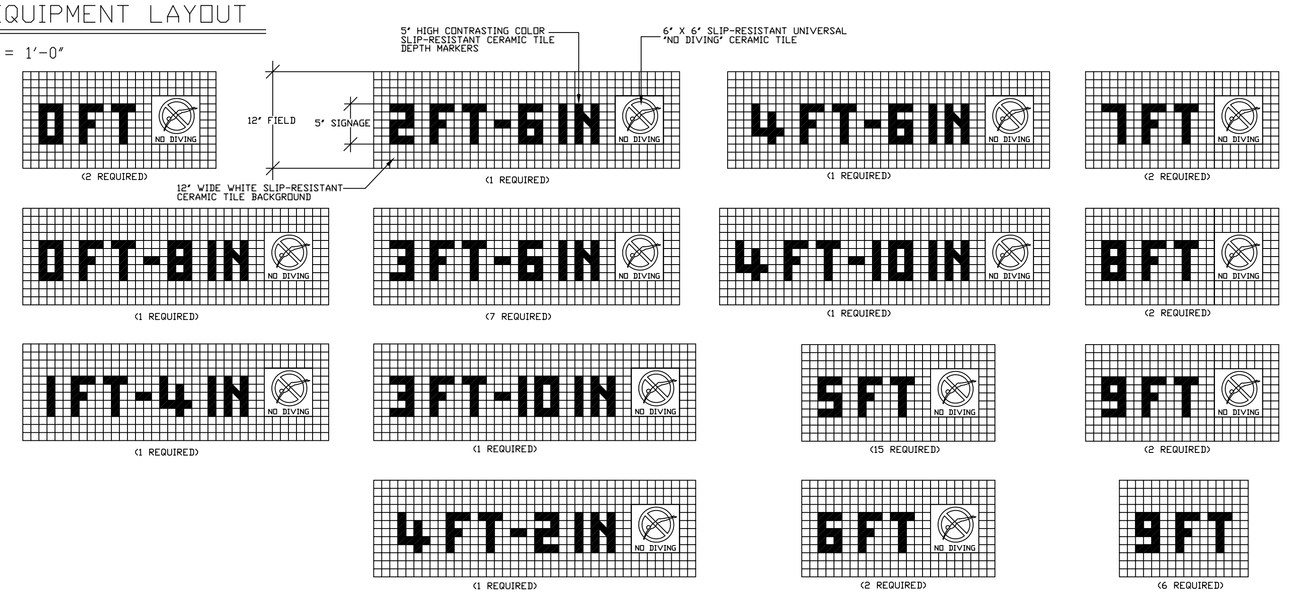
2 SP-1 INSTRUCTIONAL POOL FILTER ANCHOR DETAIL

N.T.S.



3 SP-1 EXERCISE POOL FILTER ANCHOR DETAIL

N.T.S.



4 SP-1 DEPTH MARKER DETAILS

SCALE: 3/32" = 1'-0"

NOTE: LOCATE 15'-0" O.C. MAX & 2FT INCREMENTS OF DEPTH.

PERIMETER OVERFLOW AND RECIRCULATION SYSTEM

NO.	QTY.	CAT. NO.	DESCRIPTION
1	315'	9620-T	IFRS-ASR III TYPE 316L ST.ST. RECIRC. SYSTEM W/ TILE INSERT
2	279'	9210-WT	ASC-W TYPE 316L ST.ST. RECIRC. SYSTEM W/ TILE ENDS
3	4	-	AUTOMATIC INTEGRAL FLOW SURGE WEIR
4	14	-	JET FLOW GUTTER WASH FITTING
5	7	8818-F	18" X 18" FIBERGLASS MAIN DRAIN BOX W/ PVC GRATE
6	7	8703-S	COMMERCIAL HYDROSTATIC RELIEF VALVE

FILTRATION EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
7A	1	9795-1565 -SS	65 SQFT. COMPAK ST.ST. FULLY AUTOMATIC VACUUM SAND FILTER WITH PNEUMATIC ACTUATED WAFER VALVE CONTROL, PACO FLOODED SUCTION PUMP & MOTOR, MODEL 5095-7, 20 HP., RATED FOR 918 GPM @ 55'TDH, 230/460V, 3 PH., 60 CYCLE, 1750 RPM
7B	1	3070-7	PACO AUXILIARY PUMP & MOTOR, MODEL 3070-7, 5 HP., RATED FOR 300 GPM @ 35' TDH, 230/460V, 3 PH., 60 CYCLE, 1750 RPM
7C	1	9792-1530 -SS	30 SQFT. COMPAK ST.ST. FULLY AUTOMATIC VACUUM SAND FILTER W/ PNEUMATIC ACTUATED WAFER VALVE CONTROL, PACO FLOODED SUCTION PUMP & MOTOR, MODEL 3095-5, 10 HP., RATED FOR 414 GPM @ 55'TDH, 230/460V, 3 PH., 60 CYCLE, 1750 RPM

CHLORINATION EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
8	1	3140	PPG CHLORINATOR, BALANCE TANK, BOOSTER PUMP & STAND
8A	1	3070	PPG CHLORINATOR, BALANCE TANK, BOOSTER PUMP & STAND
9	1	PA005-A	HIGH CAPACITY DUAL TANK CO2 FEEDER AUTO SWITCH OVER
9A	1	PA004-A	DUAL TANK CO2 FEEDER AUTO SWITCH OVER
10	1	2814	COMMERCIAL TEST SET DPD FREE CHLORINE TYPE
11	2	PC8000	PADDOCK WATER CHEMISTRY CONTROLLER
12	1	PMD3000I/BAV	AQUIONICS UV TREATMENT SYSTEM FOR INSTRUCTIONAL POOL
12A	1	PMD200C/6AV	AQUIONICS UV TREATMENT SYSTEM FOR EXERCISE POOL

MAINTENANCE EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
13	1	3173	VACUUM CLEANER SET
14	1	3180-E	PORTABLE PUMP & MOTOR FOR VACUUM CLEANER (ELECTRIC) 1/2 HP., 115 VOLT, 1 PHASE
15	1	3330	WALL BRUSH & HOLDER
16	1	3348	SKIMMER HEAD
17	1	3367	TELESCOPIC HANDLE

DECK EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
18			
19			
20	8	4541-1	4 TREAD STAINLESS STEEL LADDER WITH CROSS BRACE
20A	1	4540-1	3 TREAD STAINLESS STEEL LADDER WITH CROSS BRACE
21	30	4837	ST.ST. ESCUTCHEONS
22	30	4801	1-1/2" BRONZE WEDGE DECK ANCHORS
23			
24	1	4718	38" HIGH X 55"-6" LG. ST.ST. RAMP RAIL (2-RAIL, 12 POST)

SAFETY EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
25	6	4712	MOVABLE STAINLESS STEEL LIFEGUARD OBSERVATION PLATFORM
26	6	4723	LIFE HOOK
27	6	4726	24" LIFE RING BUOY W/ CANVAS COVER & 50FT -1/4" ROPE
28	2	-	WOOLEN BLANKET
29	2	-	BACKBOARD WITH CERVICAL COLLARS
30	1	-	FIRST AID KIT
31	2	-	POOL RULES / CERTIFIED POOL OPERATOR SIGN
32	2	-	NO DIVING SIGN
32A	4	-	NO LIFEGUARD ON DUTY SIGN

RACING EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
33	18	4911-RJP	TEACHING BLOCKS W/ COLORADO RJP & ANCHORS
34	9	210126	WAVE EATER II 25 M RACING LINE W/ 25 YD DISCONNECT
35	58	9026	STAINLESS STEEL RECESSED RACING LINE CUP ANCHOR
36	8	4905	ST.ST. BACKSTROKE MARKER POST W/ ANCHOR & SLIDING COLLAR
37	6	4906	BACKSTROKE FLAGS & ROPE 100 FT.
38	2	-	RECALL ROPE - 100 FT

MISCELLANEOUS EQUIPMENT

NO.	QTY.	CAT. NO.	DESCRIPTION
39	2	-	PRISM-TYPE AUTOMATIC WATER LEVEL CONTROLLER
40	1	-	8" SIGNET PADDLE WHEEL FLOW SENSOR & SADDLE
41	1	-	6" SIGNET PADDLE WHEEL FLOW SENSOR & SADDLE
42	2	5818	1 1/2" SIGHT GLASS
43	16	4911	TRACK START STARTING PLATFORM ANCHORS ONLY (@ -STOR. RM.)
44	11	210175	WAVE EATER II 25 YD RACING LINE
45	4	4816-SSC	STAINLESS STEEL STANCHION ANCHOR W/ SLIP-IN CAP
46	2	210300	KIEFFER WAVE EATER EATER COMPETITOR LINE STORAGE REEL
47	2	3-R71	EX-CELL 5 HP. AIR COMPRESSOR WITH 20 GALLON TANK
48	1 SET	-	COLORADO TIMING ROUGH IN PVC BOXES & CONDUIT ONLY
49			
50	1	1430-I	TELEDYNE LAARS 1,430,000 BTU/HR GAS FIRED POOL HEATER WITH THERMOSTATIC CUTOFF SWITCH SET AT 104°F MAX.
51	1	600-I	TELEDYNE LAARS 600,000 BTU/HR GAS FIRED POOL HEATER WITH THERMOSTATIC CUTOFF SWITCH SET AT 104°F MAX.
52	1	6610-ASR	ASR PUMP CONTROLLER
53	1	8818-S	18" X 18" STAINLESS STEEL ASR DISCHARGE BOX W/ 4" CONN.
54	±650'	-	3 1/4" X 4" STAINLESS STEEL DECK DRAIN TUBE
55	±14'	-	STAINLESS STEEL RAMP COVER
56	2	SL-350	SPECTRUM WATER POWERED HANDICAP LIFT W/ DECK HYDRANT

NOTE: ALL CATALOG NUMBERS ARE THOSE OF PADDOCK POOL EQUIPMENT CO., INC.

NSF LISTED FILTERS
PADDOCK NO. 9792-1530-SS
PADDOCK NO. 9795-1565-SS

GENERAL NOTES:

1. ○ DENOTES EQUIPMENT LIST NUMBER.
2. ALL BURIED PIPING BETWEEN POOL & FILTER TO BE NSF APPROVED SCHEDULE 80 PVC PIPE WITH SOLVENT WELD SOCKET FITTINGS. PRIOR TO BEING COVERED BY EARTH, PIPING TO BE PRESSURE TESTED. ALL PIPING TO BE ADEQUATELY SUPPORTED. GRAVITY WASTE LINES SLOPE 1/4"/FT. BALANCE OF PIPING TO BE NSF APPROVED AND IF PVC SCH. 40 OR GREATER. ALL PIPING AND EQUIPMENT MUST BE PROVIDED AS MUCH AS POSSIBLE WITH A POSITIVE MEANS OF COMPLETELY DRAINING ALL WATER.
3. ALL PIPING IN FILTER ROOM TO BE PERMANENTLY MARKED WITH DIRECTIONAL ARROWS AND LABELED. ALL VALVES TO BE TAGGED AND LABELED AS TO USE.
4. "IN POOL" SURGE CAPACITY= 1 GALLON PER SQFT. OF POOL SURFACE AREA.
5. POOLS WILL NOT BE EQUIPPED WITH UNDERWATER LIGHTS. AREA LIGHTING TO BE NOT LESS THAN 2 WATTS PER SQFT TO ALLOW FOR NIGHT SWIMMING. ALL LIGHTS TO BE PROTECTED BY A NON-BREAKABLE LENS.
6. ALL WIRING & GROUNDING TO CONFORM TO THE NATIONAL ELECTRICAL CODE. ALL ELECTRICAL CIRCUITS TO HAVE GROUND FAULT INTERRUPTORS.
7. WATER-PROOF FILTER OPERATING INSTRUCTIONS TO BE MOUNTED IN FILTER ROOM.
8. A DRINKING FOUNTAIN TO BE LOCATED WITHIN 50 FT OF POOL.
9. A TELEPHONE WITH EMERGENCY NUMBERS TO BE LOCATED WITHIN 200 FT OF POOL.
10. ALL NATATORIUM WINDOW GLASS TO BE SHATTER PROOF. ALL NATATORIUM DOORS TO BE AUTO-CLOSING AND LOCKABLE.
11. HOSE BIBBS ARE LOCATED SO THAT ALL AREAS OF POOL DECK MAY BE REACHED WITH 50 FT. HOSE. ALL HOSE BIBBS TO BE PROTECTED BY A BACKFLOW PREVENTOR (ASSE 1024 RESIDENTIAL DUAL CHECK VALVE OR EQUAL APPROVED BACKFLOW PREVENTION DEVICE). HOSE BIBBS TO BE LOCATED 10" MIN. ABOVE POOL DECK. HOSE BIBBS IN NATATORIUM ARE MOUNTED IN RECESSED BOXES.
12. COLOR SELECTION OF ALL CERAMIC TILE TO BE BY OWNER.
13. THE FRESH WATER FILL LINE TO BE OVER TO RIM SUPPLY TO FILTER TANK, WITH A 6" MINIMUM AIR GAP.
14. POOL HEATERS TO BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS, AND PROPERLY VENTED. THE HEATER MUST NOT RESTRICT DESIGN FLOW RATE. THE HEATERS TO HAVE A THERMOSTATIC CUTOFF SWITCH SET AT 104°F MAX.
15. FILTERED WATER RETURN TO POOL LINES TO HAVE A RATE OF FLOW INDICATOR WITH A RANGE AT LEAST 10% ABOVE THE MAXIMUM FLOW RATE. DIGITAL READ-OUT IS IN THE PC8000 CONTROLLER IN GALLONS PER MINUTE. READ-OUT RANGE IS 0 TO ABOVE 1850 GPM. THE FLOWMETER IS ACCURATE TO WITHIN 5 PERCENT.
16. RECIRCUATION PUMPS DRAW FILTERED WATER OUT OF FILTER TANK. HAIR AND LINT IS REMOVED ON THE SAND BED OF THE FILTER.
17. THE AUTOMATIC CHEMICAL CONTROLLER TO BE WIRED TO THE RECIRCULATION PUMP AND FLOW SWITCH, SUCH THAT WHEN RECIRCULATION FLOW STOPS, ALL CHEMICAL FEED IS HALTED.
18. MINIMUM TOILET FACILITIES SHALL BE PROVIDE WITHIN A 300 FT. WALKING DISTANT OF TYPE 'B' POOL. MINIMUM TOILET FACILITIES MUST CONSIST OF AT LEAST ONE LAVATORY AND ONE WATER CLOSET FOR EACH SEX. ACTUAL SANITARY PLUMBING FIXTURES ARE AS FOLLOWS:

FEMALE:	MALE:
(4) HANDICAP WATER CLOSETS	(4) HANDICAP WATER CLOSETS
(12) STANDARD WATER CLOSETS	(5) STANDARD WATER CLOSETS
(6) LAVATORIES	(7) URINALS
(2) HANDICAP SHOWERS	(6) LAVATORIES
(6) STANDARD SHOWERS	(2) HANDICAP SHOWERS
	(6) STANDARD SHOWERS

TOILET FACILITY FLOORS MUST BE OF IMPERVIOUS MATERIALS AND RELATIVELY SMOOTH, BUT NOT HAVE A SLICK FINISH. EACH ROOM MUST BE FURNISHED WITH A MINIMUM OF 60 WATTS OF INCANDESCENT LIGHT AND HAVE ADEQUATE VENTILATION. SOAP DISPENSERS FOR PROVIDING EITHER LIQUID SOAP OR POWDERED SOAP MUST BE PROVIDED. TOILET PAPER HOLDERS MUST BE PROVIDED. LAVATORIES, MIRRORS, SHELVES, ETC. MUST BE MADE OF SMOOTH, NON-ABSORBENT MATERIAL. SINGLE-SERVICE PAPER TOWEL DISPENSERS OR BLOWER TYPE HAND DRYERS MUST BE PROVIDED. TOILET PAPER HOLDERS MUST BE PROVIDED AT EACH WATER CLOSET. FLOORS MUST BE WELL DRAINED WITH DRAIN OUTLETS TO PREVENT STANDING WATER. CARPET SHALL NOT BE USED ON THE FLOORS.
19. THE AUTOMATIC CHEMICAL CONTROLLER, CHLORINATOR AND pH ADJUSTMENT CHEMICAL FEEDERS TO BE INSTALLED IN ACCORDANCE TO THEIR RESPECTIVE MANUFACTURER'S INSTRUCTIONS.
20. EACH FILTER WILL BE PROVIDED WITH A PC8000 CONTROLLER WITH GIVES DIGITAL PRESSURE INFLUENT & EFFLUENT READINGS FOR DETERMINING THE NEED FOR BACKWASHING. A BACKWASH SIGHT GLASS TO BE PROVIDED IN EACH BACKWASH LINE TO DETERMINE WHEN BACKWASH IS CLEAR.
21. PACO PUMP MODELS 3095-5 & 5095-7 HAVE A SERVICE FACTOR GREATER THAN 1.15. MODEL 3095-5 PUMP HAS AN 8.3" IMPELLER, MODEL 5095-7 PUMP HAS AN 8.3" IMPELLER.
22. THE NORMAL PATTERN OF RECIRCULATION DEVELOPED WILL BE 50 PERCENT THROUGH THE GUTTER AND 50 PERCENT THROUGH THE MAIN DRAINS.
23. OVERHEAD CONDUCTORS AND WIRING NOT IN CONDUIT MUST NOT PASS WITHIN AN AREA OF TWENTY FEET HORIZONTALLY AWAY FROM THE POOL.
24. ELECTRIC DRINKING WATER FOUNTAINS ARE PROVIDED. ALL FOUNTAIN WIRING TO BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
25. THE (UV) EQUIPMENT FOR BOTH POOLS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
26. THE POOL BUILDER TO GIVE THE OWNER AND OPERATORS TWO COPIES OF WRITTEN INSTRUCTIONS ALONG WITH ORAL INSTRUCTIONS IN THE OPERATION OF THE POOL. THE INSTRUCTIONS AND PROVISIONS WILL CONSIST OF THE OPERATION OF THE ENTIRE FACILITY UNDER THE BUILDER'S OBSERVATION FOR A MINIMUM OF 3 DAYS. THE INSTRUCTIONS TO INCLUDE 2 COPIES OF THE VALVE SCHEDULE. ONE OF WHICH TO BE ENCASED IN A WATERPROOF COVERING TO HANG ON THE EQUIPMENT ROOM WALL.
27. BACKWASH DISPOSAL WILL BE TO SANITARY SYSTEM AS ACCEPTED BY THE CITY OF ROCK HILL.

1. THIS DRAWING IS THE PROPERTY OF MBAJ ARCHITECTURE AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.
2. MATERIALS, DIMENSIONS AND ALL OTHER CONDITIONS WHICH ARE NOT OTHERWISE DEFINED ON THIS DRAWING SHALL BE CONSTRUED AS HAVING THE SAME MEANING AS SIMILARLY INDICATED CONDITIONS WHICH ARE MORE FULLY DEFINED ELSEWHERE ON THIS PROJECT OR OTHER DRAWINGS.

REVISIONS

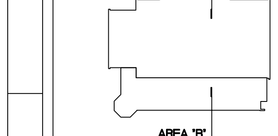
NO.	DATE	DESCRIPTION
1.	1-13-04	D.H.E.C. NOTES.
2.	2-11-04	CHANGED PIPE ROUTES
3.	7-15-04	MOVED INSTR. POOL 25M START PLAT. ANCHORS, TIMING BOXES & CONDUIT, MOVED INSTR. POOL HANDICAP LIFT.

Rock Hill School District Three of York County

NEW NATATORIUM FOR

Rock Hill School District Three of York County

KEYPLAN



MBAJ architecture
Martin Boal Anthony & Johnson

CHARLOTTE
1300 BAXTER STREET
SUITE 300
CHARLOTTE, NC 28204
704/731-7000

SHELBY
POST OFFICE BOX 2285
215 E. WARREN STREET
SHELBY, NC 28151-2285
704/406-6000

RALEIGH
4020 WAKE FOREST ROAD
SUITE 301
RALEIGH, NC 27609
919/573-6400

POOL PLAN

SHEET TITLE

PROJ#
PROJECT NUMBER

DATE
RELEASE DATE

PHASE
SP-1
SHEET OF