



ID	DESCRIPTION
P1	12" FROM M1 TO PP1
P2	10" FROM GUTTER DROPOUT BOXES TO POOL SURGE TANK
P3	10" FROM GUTTER DROPOUT BOXES TO POOL SURGE TANK
P4	10" FROM GUTTER DROPOUT BOXES TO POOL SURGE TANK
P5	6" FROM L1 TO POOL SURGE TANK
P6	10" FROM M2 TO EXISTING WATERSIDE PUMP 1
P7	10" FROM M2 TO EXISTING WATERSIDE PUMP 2
P8	6" FROM M3 TO PP2 (ALTERNATE AC-04)
P9	12" FROM M3 TO PP3 (ALTERNATE AC-01)
P10	10" FROM PP1 TO F1
P11	10" FROM F1 TO POOL RETURN MANIFOLD
P12	8" FROM POOL RETURN MANIFOLD TO EXISTING RETURN INLETS
P13	3" FROM POOL RETURN MANIFOLD TO CHANNEL RETURN INLETS (ALTERNATE AC-01)
P14	2" FROM POOL RETURN MANIFOLD TO ZERO ENTRY RETURN INLETS (ALTERNATE AC-04)
P15	6" FROM F1 TO BACKWASH CATCH BASIN
P16	3" FROM P10 TO BACKWASH CATCH BASIN
P17	6" FROM PP2 TO VALVE BOX (ALTERNATE AC-04)
P18	1.5" FROM VALVE BOX TO FS WATERFALL 3 FEATURE (ALTERNATE AC-04)
P19	1.5" FROM VALVE BOX TO FS SLOOPS 1 FEATURE (ALTERNATE AC-04)
P20	4" FROM VALVE BOX TO BUBBLERS (ALTERNATE AC-04)
P21	10" FROM PP3 TO CURRENT CHANNEL NOZZLES (ALTERNATE AC-01)
P22	12" FROM M1X TO EXISTING SPRAY/GROUND BALANCE TANK (ALTERNATE AC-03)
P23	1.5" FROM SPRAY/GROUND MANIFOLD TO GS GEYSER SPRAY FEATURES (ALTERNATE AC-03)
P24	1.5" FROM SPRAY/GROUND MANIFOLD TO FS WATERFALL 3 SPRAY FEATURE (ALTERNATE AC-03)
P25	1.5" FROM SPRAY/GROUND MANIFOLD TO FS DOUGHNUT SPRAY FEATURE (ALTERNATE AC-03)
P26	8" FROM SPRAY/GROUND MANIFOLD K250 EXPLORATION SERIES PLAY STRUCTURE (ALTERNATE AC-03)
P27	1.5" FROM SPRAY/GROUND MANIFOLD TO GS TULIP SPRAY FEATURES (ALTERNATE AC-03)
P28	1.5" FROM SPRAY/GROUND MANIFOLD TO GS PUDDLE 1 SPRAY FEATURES (ALTERNATE AC-03)
P29	3" SURGE TANK VENT

EQUIPMENT SCHEDULE	
ID	ITEM
①	CHEMICAL CONTROLLER REFER: 2/AQ254
②	WATER LEVEL CONTROLLER REFER: 8/AQ255
③	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
④	VARIABLE FREQUENCY DRIVE (ALTERNATE AC-01 + AC-04)
⑤	FLOW METER SENSOR REFER: 10/AQ254
⑥	IMPACT FLOW METER REFER: 11/AQ254
⑦	EXISTING BACKWASH CATCH BASIN
⑧	LADDER
⑨	SAFETY CHAIN REFER: 3/AQ256
⑩	REMOVABLE RAILING REFER: 3/AQ256
⑪	LINK SEAL REFER: 13/AQ254
⑫	HARD PIPE TO DRAIN
⑬	BULK CHLORINE STORAGE REFER: 3/AQ254
⑭	EYEWASH STATION REFER TO PLUMBING

1. THE INTERIOR SURFACES OF THE BACKWASH CATCH BASIN MUST BE WATERPROOFED. REFER TO SPECIFICATION.
2. IDENTIFICATION OF POOL, MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL, MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
3. THE FOLLOWING INFORMATION MUST BE LAMINATED AND POSTED IN THE POOL, MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.

PIPING

1. PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
2. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
3. ALL FLOW METERS MUST BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FILTER RETURN.
4. HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
5. REFER TO DETAILS 1-6AQ505 FOR INSTALLATION OF PIPE SUPPORTS.
6. ALL PIPING ROUTED THROUGH THE CHEMICAL ROOM WALLS INTO THE MAIN MECHANICAL ROOM MUST BE PROPERLY SEALED AND FIREPROOFED PER THE FIRE RATING OF THE ROOM. REFER TO ARCHITECT.

CHEMICAL TREATMENT

1. CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON A6Q00.
2. INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER AND CHEMICAL FEED PUMP(S).
3. PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER: 8AQ04
4. SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINE ENTER POOL RETURN PIPING.
5. WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
6. SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE PIPED PER THE SYSTEMS SCHEMATIC. BYPASS PIPING MUST BE SADDLED OR TIED, NO TAPPING OR DRLING INTO THE PIPING WILL BE ALLOWED.
7. PROVIDE ELECTRICAL CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS. REFER TO ELECTRICAL.
8. INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS MUST BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL, MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER: 7AQ204

ELECTRICAL

1. GFCIS PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
2. POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREA MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
3. CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.

FILTER SCHEDULE											
ID	POOL	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION RATE (GPM/SQ. FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
F1	POOL	NEPTUNE BENSON	SHFG4 42-72	4	HRS	15.0	93.3	14.6	95.6	18.0	422

NOTE:

- BACKWASH METHOD MUST BE MANUAL.
- ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
- FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA.
- VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
- THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOR DRN OF THE BACKWASH CATCH BASIN OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
- FILTER TANK ASSEMBLIES MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
- THE BACKWASH THROTTLING VALVES/HANDLE MUST BE REMOVED AND TURNED OVER TO THE OWNER ONCE THE BACKWASH FLOW RATE(S) HAVE BEEN TESTED, ADJUSTED, AND BALANCED.
- PROVIDE 1" DIAMETER, SCHEDULE 80 PIPE FROM THE AUTOMATIC AIR VENT ON EACH OF THE FILTER VESSEL TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE MUST BE SLOPED TO THE DRAIN.
- VESSER, MUST BE BACKWASHED AT NO LESS THAN 15.0 GPM/SF.

ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HHR & LINT		NOTES
									MAKE	SIZE	
PP1	POOL RECIRCULATION PUMP REFER: 11A350A	PACO	50123LC	6XS	1400	80	40	12.9	MERMADE	12X8	1-6
PP2	POOL FEATURE PUMP (ALTERNATE AC-04) REFER: 11A350A	PACO	40707LC	3X2.5	210	35	3	9.3	MERMADE	6XS	1-4.7-8
PP3	POOL CURRENT CHANNEL PUMP (ALTERNATE AC-01) REFER: 11A350A	PACO	60951LC	8XS	1600	45	25	13.3	MERMADE	12X8	1-4.7-8

NOTE:

1. THE MANUFACTURERS INDICATED IS BASIS OF DESIGN. PUMP MANUFACTURERS GRISWOLD, HERBERNER, PACO OR AURORA MUST BE CONSIDERED EQUAL PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS.
2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PAIDS.
3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG / 0-60 PSI.
4. PROVIDE WITH 400 VOLTS, 3 PHASE, 60HZ, 1750 RPM MOTOR.
5. PROVIDE WITH CHECK VALVE.
6. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS.
7. PROVIDE REMOTE PUMP START.
8. PROVIDE WITH VARIABLE FREQUENCY DRIVE.

CHEMICAL FEED SCHEDULE							
ID	DESCRIPTION	MANUFACTURER	MODEL	TUBE #	HP	FLOW	NOTES
CF1	SODIUM HYPOCHLORITE FEED PUMP REFER: 3/AQ054	STENNER	1700MPS	5	FRAC	170 GAL/DAY	1-3
CF2	SODIUM BISULFATE SYSTEM REFER: 5/AQ054	ACID-RITE	2500	N/A	1	192 LBS/DAY	2-4

NOTE:

1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. ALTERNATE MANUFACTURER: LMI OR APPROVED EQUAL.
2. PROVIDE WITH 120 VOL. SINGLE PHASE, ADJUSTABLE FEED.
3. INTERLOCK WITH POOL REGULATOR PUMP.
4. THE MANUFACTURER INDICATED IS BASIS OF DESIGN, ALTERNATE MANUFACTURERS: PULSAR OR APPROVED EQUAL.

UV TREATMENT SYSTEMS SCHEDULE						
ID	POOL	MODEL NUMBER	US EPA 3-LOG AND CALCULATED LOG10C/M2 (GPM)	LAMPS	AMPS (A)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
U1	POOL	SAG-1200-A-CR	1,255	10	12	120 V (19)-20A

NOTE:

1. THE BASIS OF DESIGN MANUFACTURE IS CHLORING
2. INTERLOCK UV SYSTEM WITH CHEMICAL CONTROLLER OR RECIRCULATION PUMP.
3. REFER: 6AO504

FILL SCHEDULE							
ID	POOL	FRESH WATER SUPPLY GPM (MIN.)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL	DESIGN FILL TIME (HOURS)
11	POOL	100	10"	10"x6"	8"	6"	48

NOTE:
REFER: 9/AQ604

[illegible]