

GENERAL POOL MECHANICAL ROOM NOTES

- ALL POOL EQUIPMENT MUST BE INSTALLED ON HOUSEKEEPING PADS PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. EQUIPMENT ROOM FLOOR MUST SLOPE 1/4" TO 1/2" TO FLOOR DRAINS.
- 3. PUMP PIT FLOOR MUST SLOPE MIN 1/4" TO 1/2" TO SUMP PIT. REFER TO PLUMBING.
- 4. THE FLOOR DRAINS INDICATED ARE IN APPROXIMATE LOCATIONS. REFER TO PLUMBING.
- 5. PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
- 6. THE INSIDE SURFACES OF THE BACKWASH CATCH BASIN SHALL BE WATERPROOFED. REFER TO SPECIFICATION.
- VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
- THE FOLLOWING INFORMATION SHALL BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING & DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS & POOL SYSTEMS
- . REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
- 10. <u>REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, & REMOVABLE RAILING AT PUMP PIT.</u>
- THE NOISE LEVEL FROM THE POOL EQUIPMENT LOCATED LESS THAN 10 FEET FROM A PROPERTY LINE OF A ADJOINING PROPERTY SHALL NOT EXCEED AMBIENT NOISE LEVEL BY MORE THAN FIVE (5) DECIBELS. (CA)
- MINIMUM 7' 0' CLEARANCE BENEATH ALL OVERHEAD PIPING.
- INSTALL AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
- 3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
- 4. ALL FLOW METERS SHALL 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.
- THE BACKWASH PIPING SHALL TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH CATCH BASIN OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
- 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.

- ALL FILTER SUPPORTS SHALL BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/ OR STATE REQUIREMENTS.
- 2. FILTER MANUFACTURER TO CERTIFY FILTER MEDIA.
- 3. VALVES SHALL BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
- MANUFACTURER TO PROVIDE GUARANTEES, WARRANTIES AND SPARE PARTS NECESSARY FOR STANDARD FILTER OPERATION AND <u>MAINTENANCE. (CA)</u>

HIGH RATE SAND FILTERS

- FILTER TANK ASSEMBLIES SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE OF 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
- THE BACKWASH THROTTLING VALVE(S) HANDLE SHALL 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 FILTER VESSEL TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE SHALL BE SLOPED TO THE DRAIN. VESSEL SHALL BE BACKWASHED AT NO LESS THAN 15.0 GPM/SF.
- PROVIDE MILLED ANGULAR SHAPED PARTICLES OF SILICA QUARTZ TO BE USED FOR FILTER MEDIA. PARTICLE SIZE SHALL BE BETWEEN 0.45MM AND 0.55MM AND HAVE A MAXIMUM UNIFORMITY COEFFICIENT OF 1.53. (CA)
- <u>LEISURE POOL FILTER</u> BASIS OF DESIGN MANUFACTURER: <u>NEPTUNE/BENSON MODEL 48X60SHFFG</u>, <u>APPROVED ALTERNATE</u> MANUFACTURER: STARK, PARAGON AQUATICS, AND NEMATO. UNIT MUST BE NSF LISTED. CONFIGURATION/QUANTITY: STACKED (1X2). REFER TO EQUIPMENT SCHEDULE NOTES FOR FURTHER INFORMATION. (IL)

REGENERATIVE MEDIA FILTERS

-). FILTER TANK ASSEMBLIES SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE OF 1.6 GPM PER SQUARE FOOT OF FILTER MEDIA.
- PROVIDE HARD PLUMBED SCHEDULE 80 PIPE FROM BOTTOM OF THE FILTER TANK TO WASTE PIT IN ORDER TO DRAIN TANK AND MEDIA ON AN AS NEEDED BASIS. PIPE SHALL BE SLOPED FROM FILTER TANK TO WASTE PIT.
- PROVIDE NON-HAZARDOUS, NON-TOXIC, FILTER MEDIA. PARTICLE SIZE SHALL HAVE MEDIAN PORE SIZE OF NO GREATER THAN 20 CHEMICAL TREATMENT

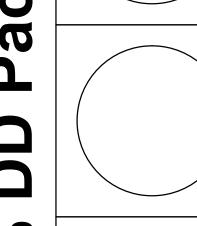
CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON SP-.-.

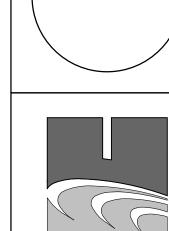
- INTERLOCK POOL CIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S), AND
- . PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE.
- 4. SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PLACE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER
- WATER CHEMISTRY CONTROLLERS SHALL CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
- 6. THE CHEMICAL CONTROL SYSTEM BYPASS LINE SHALL SAMPLE WATER AFTER THE FILTERS AND BEFORE THE HEATER BYPASS LINE. VERIFY REMOTE ACCESS CAPABILITY TO ALL CHEMICAL CONTROLLERS. REFER TO ELECTRICAL.
- . MANUFACTURER BASIS OF DESIGN: <u>STENNER. LMI OR APPROVED EQUAL WILL BE CONSIDERED EQUAL PROVIDED THEY MEET</u> SPECIFICATIONS AS INDICATED IN BID DOCUMENTS. (IL)
- . TOTAL REQUIRED DOSING TO BE 180 LB PER DAY AT 1,250 GPM TO MAINTAIN 8.0 PARTS PER MILLION. REFER TO EQUIPMENT
- SCHEDULE NOTES FOR FURTHER INFORMATION. (IL)
- PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-100 PSI. COMPOUND
- <u>PUMPS</u>
- GAUGES HAVE A RANGE OF 0-30 HG / 0-60 PSI.
- PROVIDE ALL PUMPS WITH SEPARATE "ON/ OFF" SWITCHES AND A MASTER CONTROL SWITCH WITH "ON/OFF" FOR EMERGENCY
- MANUFACTURER BASIS OF DESIGN: PACO. ITT MARLOW, GRISWOLD OR AURORA WILL BE CONSIDERED EQUAL PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS. (IL)
- MANUFACTURER BASIS OF HAIR & LINT STRAINER DESIGN: MER-MADE FO. EQUALS WILL BE CONSIDERED PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS. (IL)
- PROVIDE THE FOLLOWING PUMPS WITH CHECK VALVES: PPX, PPX & PPX. REFER TO EQUIPMENT SCHEDULE NOTES FOR FURTHER <u>INFORMATION. (IL)</u>

<u>ELECTRICAL</u>

ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.

- . GFCI'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL. 2. POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS SHALL BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE
- MECHANICAL ROOM CONTROLLER SHALL CONTROL OPERATIONS OF THE POOL CIRCULATION PUMP PER THE ELECTRICAL DRAWINGS.
- ALL NEW ELECTRICAL WIRING SHALL CONFORM WITH CHAPTER 3 OF TITLE 27 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW
- YORK. ENTITLED "ELECTRICAL CODE" AND THE NATIONAL ELECTRIC CODE, OF THE NATIONAL UNDERWRITERS LABORATORY, OR ANY SUCCESSOR REGULATION OR CODE. REFER TO ELECTRICAL. (NY)
- PROVIDE A MINIMUM ILLUMINATION OF 50 FOOT—CANDLES ON WATER SURFACE AREA AND ON THE DECK. REFER TO ELECTRICAL.
- . <u>NO OVERHEAD ELECTRICAL WIRING, EXCEPT WHEN SECURED WITHIN A CEILING, SHALL PASS WITHIN 20 FEET OF THE POOL</u> ENCLOSURE. REFER TO ELECTRICAL. (NY)
- PROVIDE ELECTRICAL CONNECTION TO POOL HEATERS. REFER TO ELECTRICAL.
- 8. PROVIDE ELECTRICAL CONNECTION ADJACENT TO FILTER SYSTEM FOR FILTER BACKWASH. REFER TO ELECTRICAL.







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