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Electrical Engineer

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919 781 4629

Fountain

DAN EUSER WATERARCHITECTURE INC
58 Mackenzie Drive West
Richmond Hill, Ontario L4C 3S2
CANADA
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Playground Design

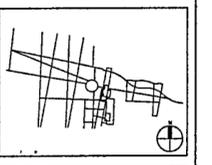
PLAY SITE ARCHITECTURE
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Acton, Massachusetts 01720
978 263 1090

Signage Design

POULIN + MORRIS
286 Spring Street, Sixth Floor
New York, New York 10013
212 675 1332

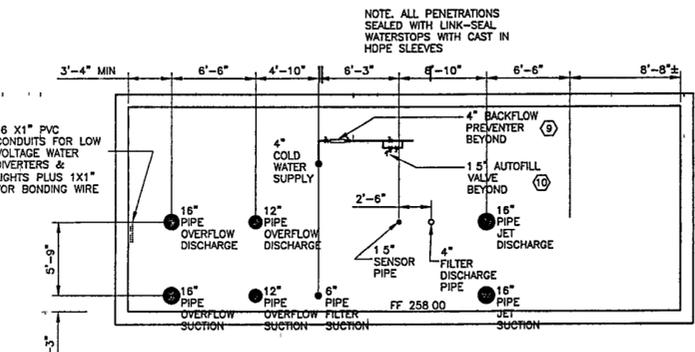
| Issue | Date |
|---------------------------|----------|
| 03 100% Site Package 2 CD | 09/27/02 |
| 02 90% Site Package 2 CD | 08/16/02 |
| 01 60% Site Package 2 CD | 06/29/02 |
| Issue | Date |

| Job No | PPA 8908 |
|----------|---|
| HA | OPC0101 |
| Scale | 1" = 10'-0" |
| Date | SEPTEMBER 27, 2002 |
| Title | SITE PACKAGE 2 100% CONSTRUCTION DOCUMENTS Water Feature M&E Site Plan |
| Sheet No | WF108 |

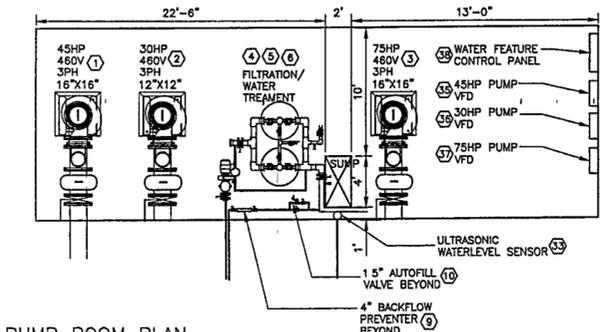


- WATER FEATURE NOTES BRIEF OVERVIEW SEE SPECIFICATIONS FOR DETAILS
1. ALL WORK SHALL BE CONSTRUCTED AND INSTALLED BY QUALIFIED TRADES PERSONS HAVING A MINIMUM 10 YEARS EXPERIENCE IN THE CONSTRUCTION OF WATER FEATURES OF SIMILAR SIZE AND COMPLEXITY. ALL WORK TO MEET UNIFORM PLUMBING CODE, HEALTH AND SAFETY CODE, NEC, UL, ASTM, AND OTHER APPLICABLE NATIONAL AND LOCAL STANDARDS
 2. ALL PIPING TO BE SCH 80 PVC COMPLETE WITH FITTINGS
 3. ALL PIPE AND CONDUIT TO BE SELF DRAINING SLOPE TO PUMP ROOM NO TRAPS PERMITTED
 4. ALL VALVES 3" AND LARGER TO BE WAFER STYLE EPOXY COATED BUTTERFLY VALVES. ALL VALVES 2" AND SMALLER TO BE 3 PIECE BRONZE BALL VALVES
 5. ALL EQUIPMENT TO BE INSTALLED TO ALLOW FOR EASY SERVICING
 6. PROVIDE DRAINS AT ALL LOW POINTS IN SYSTEM
 7. WATER FEATURE RESERVOIR TO HAVE 4" WALL MOUNTED OVERFLOW TO SANITARY DRAIN
 8. ALL PLUMBING WORK SHALL BE WATER TIGHT, NEATLY INSTALLED, SET ON 4" CONCRETE HOUSEKEEPING PADS IN PUMP ROOM
 9. PROVIDE 3 SETS OF SHOP DRAWINGS FOR ALL EQUIPMENT, CUSTOM HARDWARE AND PANELS, AND ANY PROPOSED CHANGES TO WORK
 10. PROVIDE 6 SETS OF OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT PROVIDE DAILY, WEEKLY, MONTHLY, YEARLY OPERATIONS MANUAL SPECIFICALLY WRITTEN FOR THESE WATER FEATURES DESCRIBING ALL WORK NECESSARY TO CORRECTLY MAINTAIN THESE FEATURES
 11. COMPLETE WORK FOR AND INSTRUCT OWNERS PERSONNEL FOR 1 SPRING STARTUP AND 1 WINTER SHUTDOWN FOR EACH SYSTEM
 12. ALL LIGHTING SHALL BE SUBMERSIBLE LIGHTING AND BE UL LISTED FOR UNDERWATER USE. EACH JET SHALL HAVE LIGHTS AT THE SOURCE THE ANIMATED JETS SHALL HAVE 1 X 125W 120V WET DRY LIGHT EACH LIGHTS SHALL BE SET IN TRENCHES ANGLED 45 TO THE POOL FLOOR LIGHTS SHALL HAVE MAXIMUM 9' OF EXPOSED CABLE TO SUBMERSIBLE JUNCTION BOXES
 13. ALL METAL WITHIN 5' OF POOLS SHALL BE BONDED AS PER CODE
 14. ALL ELECTRICAL WITHIN 10' OF POOLS SHALL BE GROUNDED AND GFI PROTECTED AS PER CODE
 15. OVERFLOW POOLS, ARCHING JET, AND ANIMATED JET PUMPS SHALL BE CENTRIFUGAL DRY MOUNTED SUBMERSIBLE PUMP PROTECT PUMP WITH STAINLESS STEEL PUMP GUARDERS. LOW PROFILE WITH MULTI-V BASKETS ANIMATED JET PUMP SHALL BE CONTROLLED WITH A VARIABLE FREQUENCY DRIVE PUMP SHALL BE INSTALLED WITH FLEXIBLE COUPLINGS TO PIPE
 16. FILTER PUMP SHALL BE BRONZE CENTRIFUGAL PUMP WITH INTEGRAL BASKET STRAINER
 17. WATER TREATMENT SHALL BE FLOSION FEED BROMINE SYSTEM WITH AUTOMATIC MONITORING AND CONTROL FOR BROMINE AND PH
 18. WATER LEVEL IN SYSTEM SHALL BE AUTOMATICALLY CONTROLLED BY A REMOTE WALL MOUNTED ULTRASONIC LEVEL SENSOR FROM THE POOL. AN AUTOFILL BYPASS SYSTEM IN THE PUMP ROOM, AND INTEGRATED WITH A PLC CONTROLLER FOR CONTROL OF ENTIRE SYSTEM
 19. THE WATER FILL SHALL HAVE A 3" MANUAL FILL TO THE POOL. FILL LINE SHALL HAVE A 1" BYPASS LINE WITH THROTTLING VALVE AND LOW VOLTAGE AUTOFILL VALVE TO ADD WATER. THE MAIN WATER SUPPLY SHALL BE PROTECTED BY A REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE, LINE SIZE.
 20. MAIN PUMPS BY ITT FLYGT OR ACCEPTED SUBSTITUTE. FILTER PUMPS & FILTERS BY PACFAB, HAYWARD, STARTEC, OR ACCEPTED SUBSTITUTE. FOUNTAIN EQUIPMENT SUCH AS DRAINS, WATER STOPS, SUBMERSIBLE JUNCTION BOXES, SUBMERSIBLE LIGHTS, INLET FITTINGS TO BE BY PEM FOUNTAINS, CRYSTAL FOUNTAIN, HYDREL LIGHTING, OR ACCEPTED SUBSTITUTE
 21. WATER EFFECTS AND LIGHTING FOR ANIMATED JETS SHALL BE SUBJECT TO TESTING DURING THE DESIGN STAGE. THERE MAY BE MODIFICATIONS TO SYSTEMS BASED ON WATER EFFECTS ACHIEVED THE ANIMATED JETS ARE INTENDED TO BE CLEAR STREAM 3/4" ORIFICE JETS SET IN RANDOM HEIGHT AND ANGLED ARCHES TESTING WILL BE DONE ON THESE UNITS TO MAXIMIZE EFFECTS WHILE MINIMIZING OVERSPRAY PROGRAMS FOR ANIMATED JETS WILL BE REQUIRED FOR 5 X HOUR SHOWS. JETS ARE TO HAVE CAPABILITY OF SWITCHING UP TO 5 TIMES PER SECOND WATER WILL BE DRAWN FROM THE CENTRAL RESERVOIR AND DISTRIBUTED TO THE JETS
 22. THE BASE OF THE OVERFLOW POOLS WILL HAVE A STAINLESS GRATE AT THE BASE OF THE WALL WITH A MIN 2'-0" DEEP X 12" WIDE GUTTER TRENCH TO RESERVOIR
 23. A WIND SENSOR CAPABLE OF MONITORING WIND SPEED AND DIRECTION SHALL BE PROVIDED TO INTERFACE WITH JET SYSTEM AND PLC. PROGRAMMING WILL BE REQUIRED WHEN WINDS REACH CERTAIN LIMIT, SAY 5MPH (TO BE TESTED DURING DESIGN PHASE), ARCHED JETS WILL NOT OPERATE
 24. ALL PENETRATIONS INTO POOL SHALL BE WITH WATERSTOPS OR MEMBRANE CLAMPS PROVIDE LINK SEALS AT ALL PENETRATIONS INTO BUILDING
 25. ACCESS TO RESERVOIR SHALL MEET REQUIREMENTS BY THE CONFINED SPACES AND HEALTH & SAFETY ACT

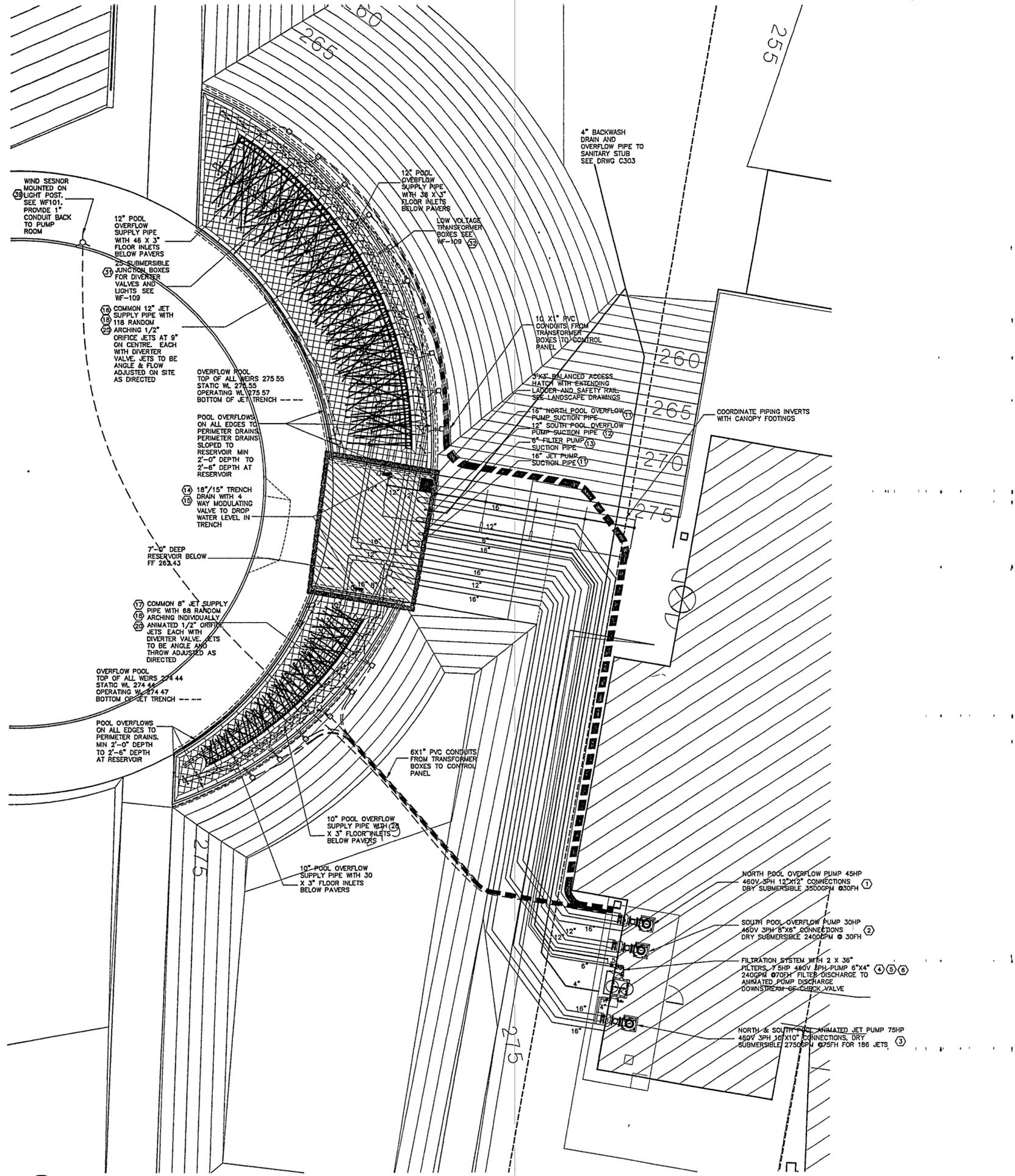
NOTE FOR DETAILS OF MECHANICAL EQUIPMENT SEE SPECIFICATIONS 13154 WATER FEATURE MECHANICAL
FOR DETAILS OF ELECTRICAL EQUIPMENT SEE SPECIFICATIONS 13155 WATER FEATURE ELECTRICAL



2 PUMP ROOM WEST WALL ELEVATION - OUTSIDE WALL LOOKING EAST
SCALE 3/16" = 1'-0"



3 PUMP ROOM PLAN
SCALE: 3/16" = 1'-0"



1 WATER FEATURE PLAN
SCALE: 1" = 10'-0"

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