

GENERAL PARK NOTES:

1. ANY DIVERGENCE FROM THESE STANDARDS ARE TO TO BE APPROVED IN WRITING BY PF&R.
2. ALL NEW PARKS REQUIRE THE FOLLOWING:
 - a. WATER SERVICE - MINIMUM 50 MM
 - b. STORM SEWER SERVICE - MINIMUM 150 MM DIA. PVC
 - c. SANITARY SEWER SERVICE - MINIMUM 150 MM DIA. PVC
 - d. ELECTRICAL SERVICE - 200 AMPS (REFER TO ELECTRICAL PANEL BOX LOCKING BAR DETAIL - OCT 2018)
 - e. ELECTRICAL PANEL - PEDESTAL SOLUTIONS OR APPROVED EQUAL (REFER TO ELECTRICAL PANEL BOX LOCKING BAR DETAIL - OCT 2018)
 - f. CATCH BASINS TO BE PROVIDED BASED ON THE OVERALL SIZE OF THE PARK. 1 CATCH BASIN FOR EVERY 250 SQ.M OR AS DEEMED NECESSARY.
 - c. FOR ALL SPLASH PAD PROJECTS, DEVELOPER/CONSULTANT TO OBTAIN FORMAL WRITTEN APPROVAL FROM TORONTO WATER FOR STORM SEWER CONNECTION EXEMPTIONS. PROJECT SUBMISSION SHALL INCLUDE DETAIL DESIGN DRAWINGS AND A SANITARY SEWER ANALYSIS / MEMO TO CONFIRM SEWER CAPACITY.
4. DEVELOPER / CONSULTING ENGINEER TO CONTACT THE FOLLOWING FOR WATER METER DESIGN APPROVAL AND METER ACQUISITION FORM :
 FRED LAVORATO **FRED.LAVORATO@TORONTO.CA** : SUPERVISOR CUSTOMER FIELD SERVICES, TORONTO WATER - LARGE METER DEPARTMENT (OVER 25MM)
 TODD PICCO **TODD.PICCO@TORONTO.CA** : SUPERVISOR CUSTOMER FIELD SERVICES, TORONTO WATER - SMALL METER DEPARTMENT (25MM AND BELOW)
5. SIGNED METER ACQUISITION FORM OBTAINED THROUGH (SEE #3) TO BE SUBMITTED TO BOTH PF&R LANDSCAPE ARCHITECT AND TORONTO WATER REVENUE CLERK **KIMBERLY WILSON @TORONTO.CA** TO INITIATE WATER METER APPROVALS.
6. DEVELOPER / CONSULTANT TO OBTAIN APPLICABLE PERMITS FROM TORONTO BUILDING DEPARTMENT FOR ANY STRUCTURE INCLUDING PERMANENT PLUMBING LOCATED OUTSIDE OF A STRUCTURE.
7. WATER BOTTLE FILLING STATION / DRINKING FOUNTAIN COMBINATIONS REQUIRE A DRAIN TO THE SANITARY SEWER. PF&R PREFERRED MODEL SHALL BE APPROVED WITH PARKS DISTRICT STAFF AND OBTAINS INCLUDE ELKAY OR MOST DEPENDABLE
 - a. ELKAY - MODEL: LK4400BFBLU OR MDF 10125 SM (WATER BOTTLE FILTER ONLY)
 - b. ELKAY - MODEL: LK4420BF1UBLU OR MDF 10135 SM (WATER BOTTLE AND DRINKING FOUNTAIN)
 - c. ELKAY - MODEL: LK4420BF1UDBLU OR MDF 10155 SM (WATER BOTTLE WITH DRINKING FOUNTAIN AND DOG BOWL)

STANDARD WATERMAIN AND WATER SERVICE NOTES:

1. 150MM DIA. TO 450MM DIA. WATERMAIN SHALL BE EQUAL TO AWWA C-900 CLASS 150, DR 18. 50MM DIAM. WATERMAIN OR SMALLER TO BE TYPE 'K' SOFT COPPER TUBING.
2. ALL WATERMAIN BEDDING SHALL BE AS PER DETAIL WITH GRANULAR 'A' BEDDING MATERIAL AND COMPACTED TO 100% S.P.D.
3. ALL PVC WATERMAINS TO BE INSTALLED WITH TRACER WIRE IN ACCORDANCE WITH CITY STANDARD DWG. T-1106.01. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY STANDARD DWG. T-1106.04.
4. ALL WATERMAINS SHALL MAINTAIN A MINIMUM 1.5M CLEARANCE FROM ALL MANHOLES AND CATCHBASINS.
5. THE CONTRACTOR SHALL COMPLETE THE NECESSARY WATER TESTING (I.E. PRESSURE TEST, FLUSHING, ETC.) AS PER CITY STANDARDS. WATERMAINS TO BE DISINFECTED IN ACCORDANCE WITH CITY STANDARD CONSTRUCTION SPECIFICATION TS 7.30.
6. THE OPERATION OF EXISTING WATERMAIN VALVES SHALL BE CONDUCTED AS REQUIRED BY THE CITY.
7. WATERMAINS SHALL HAVE A MINIMUM COVER OF 1.8M FROM FINISHED GRADE.
8. DEFLECTION OF WATERMAIN TO BE WITHIN TOLERANCES SPECIFIED BY MANUFACTURER.
9. WHERE PIPE BEDDING FALLS BELOW THE ANTICIPATED WATER TABLE, THE BEDDING STONE MUST BE SURROUNDED WITH A GEOTEXTILE FILTER CLOTH.
10. WATER SERVICE VALVE IN BOX DETAILS TO BE AS PER CITY STANDARD DWG. T-1101.02-2.
11. ALL PROPOSED PLASTIC PIPE TO CONTAIN TRACER WIRE.
12. ALL PIPING TO BE THREADED INSTEAD OF SOLDERED.
13. PREFERENCE FOR ALL VALVES TO BE BALL VALVE INSTEAD OF GATE VALVE.

STANDARD SEWER NOTES:

1. MAINTENANCE HOLES (MHS) TO BE PRECAST AS PER CITY STANDARD DWG. T-701.010, T-701.011, FRAME AND GRATE PER OPSD.401.010, AND BENCHED IN ACCORDANCE WITH CITY STANDARD DWG. T-701.021, UNLESS OTHERWISE NOTED.
2. SANITARY SEWERS TO BE POLYVINYL CHLORIDE (PVC) AS PER CSA SPECIFICATION B137.3-M-1981 AND B182.4-M83 LATEST AMENDMENT(S) AND BE MINIMUM CLASS SDR 35 OR AS SPECIFIED ON DRAWING. PIPES SHALL BE JOINED WITH STANDARD RUBBER GASKETS AS PER CSA 257.3 SPECIFICATIONS. SANITARY SEWER BEDDING TO BE AS PER OPSD 802.010.
3. STORM SEWERS UP TO AND INCLUDING 450MM DIAMETER SHALL BE PVC SDR-35 WITH BEDDING AS PER OPSD 802.01, OR CONCRETE PIPE WITH CLASS 'B' BEDDING AS PER OPSD 802.03 AS SPECIFIED. PIPE LARGER THAN 450MM DIAMETER TO BE CONCRETE PIPE CLASS 100-D WITH CLASS 'B' BEDDING AS PER OPSD 802.03. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINT
4. CONTRACTOR TO PROVIDE CONCRETE ENCASUREMENT FOR THE STORM AND SANITARY SEWER LINES AT THE BUILDING FOUNDATION WALL CROSSING LOCATIONS PER CITY STANDARD DWG. T-802.032-1 (IF ANY LOCATIONS EXIST).
5. ALL PROPOSED CATCHBASINS SHALL BE SINGLE PRE-CAST CONCRETE CATCHBASINS PER OPSD 705.010, AND FRAME AND GRATE PER OPSD 400.010. GOSS TRAP MUST BE INSTALLED IN CATCHBASIN.
6. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINTS.
7. STORM SEWER TO BE INFILTRATED ON SITE, SO AS TO MINIMIZE THE VOLUME DISCHARGED TO THE STORM SEWERS.
8. ALL PROPOSED PLASTIC PIPE TO CONTAIN TRACER WIRE.
9. ALL PIPING TO BE THREADED INSTEAD OF SOLDERED.
10. PREFERENCE FOR ALL VALVES TO BE BALL VALVE INSTEAD OF GATE VALVE.

IRRIGATION NOTES:

1. IRRIGATION SYSTEMS WILL BE REVIEWED AND CONSIDERED ON A SITE-BY-SITE BASIS.
2. PF&R STANDARD IS POP-UP STYLE IRRIGATION SYSTEM.
3. THE IRRIGATION CONTROLLER SHOULD BE A RAINBIRD LXME (OR APPROVED EQUAL) WITH A FLOW MODULE AND A NCC 3G COMMUNICATION CARD.
4. AUTOMATIC IRRIGATION SYSTEM WILL NEED A MASTER VALVE AND A RAINBIRD FLOW SENSOR FOR LXME CONTROLLER (OR APPROVED EQUAL) INSTALLED DOWNSTREAM OF THE BACKFLOW PREVENTER.
5. IRRIGATION CONTROLLER TO BE INSTALLED IN THE ABOVE GRADE ELECTRICAL PANEL AND COORDINATED WITH THE ELECTRICAL CONSULTANT.
6. QUICK COUPLERS ARE REQUIRED ON THE IRRIGATION LINES, AND SHALL BE LOCATED AS DIRECTED BY PF&R.
7. ALL PROPOSED PLASTIC PIPE TO CONTAIN TRACER WIRE.
8. ALL PIPING TO BE THREADED INSTEAD OF SOLDERED.
9. PREFERENCE FOR ALL VALVES TO BE BALL VALVE INSTEAD OF GATE VALVE.

PARKS, FORESTRY & RECREATION STANDARD DRAWING

REV 0

MAR 2021

T-1130.011

NTS

SHEET 1

**GENERAL PARK SERVICE NOTES**