

UPDATE TO THE 2019 DESIGN GUIDELINES MANUAL

LIST OF REVISIONS

2. GENERAL INFORMATION

2.1. DEFINITIONS

Added definition of “Tree” as defined in the Tree Preservation By-law # 131-2017:

Means a living tree of any species of perennial woody plant that has reached or can reach a height of 4.5 meters at physiological maturity. Tree includes the root system and all above ground parts of the Tree.

3. ENGINEERING REVIEW FOR DEVELOPMENT

3.1.7. Area and Lot Grading Plans – Added the following:

All trees shall be shown on the grading plan. Trees must be a minimum of 2.0m from proposed driveways.

6. SANITARY SEWERS

6.4. Pumping Stations – Added the following:

Any design of a pumping station shall take confined space entry into consideration. When a person needs to perform a confined space entry into the pumping station, there shall be no areas or points that a person shall have to unhook from the life line.

7. STORM SEWERS

7.2.3. Minimum Pipe Sizes – Revised, Storm Sewers = 300mm

7.2.4. Minimum Grades for Pipes – Removed 250mm Ø Storm Sewer, Minimum Slope 0.56%

8. STORMWATER MANAGEMENT

8.0.3. Design Storm Selection – Revised the Intensity-Duration-Frequency (IDF) chart to the following values:

Duration	Intensity (mm/hr)								
	5 min	10 min	15 min	30 min	60 min	120 min	360 min	720 min	1440 min
2 yr	134.0	82.6	62.2	38.3	23.6	14.5	6.7	4.2	2.6
5 yr	176.6	108.8	82.0	50.5	31.1	19.2	8.9	5.5	3.4
10 yr	204.5	126.0	94.9	58.4	36.0	22.2	10.3	6.3	3.9
25 yr	240.3	148.0	111.5	68.7	42.3	26.1	12.1	7.4	4.6
50 yr	266.4	164.1	123.6	76.1	46.9	28.9	13.4	8.3	5.1
100 yr	292.5	180.2	135.7	83.6	51.5	31.7	14.7	9.1	5.6

15. WATERMAINS

9.9.1. Size Required – Revised the minimum service size to 25mm diameter.

15. STANDARD DRAWINGS

Revised Drawing: R-02 URBAN MINOR OCAL ROAD ASYMMETRICAL CROSS-SECTION –

Curb type revised to 600.040, Standard Barrier Curb, revised the joint utility trench and gas main offsets.

Revised Drawing: R-07 WALKWAY TYPICAL HARD SURFACE SECTION –

Added Note 4. There shall be a minimum of 1.2m separation from the outside face of the privacy fence to any site furniture, dwelling or building protrusion.