

**APPENDIX O
VERTICAL AND HORIZONTAL CLEARANCE GUIDELINES ***

All Dimensions in Millimetres (mm)	Preferred Vertical Clearance	Preferred Horizontal Clearance
ELECTRICITY		
Hydro One Networks (Ontario Hydro)		
All infrastructure	1000	1000
Toronto Hydro Electric System		
Conduits	300	600
Hydro Chambers	**	600
Poles	**	1000
Padmount or submersible/splice vault – grounding located outside structure	**	1400
Toronto Hydro Street Lighting		
Streetlighting Duct	300	600
GAS		
Enbridge Gas Distribution Inc. (Consumers Gas)		
Gas Main NPS 12 (300 mm) and Less - Open Trench Method	300	600
CER Regulated Pipelines and Vital Mains - Open Trench Method	600	1000
All Pipelines - Directional Drilling/Boring Method	1000	1000
Regulator Stations	**	1000
ROAD		
General		
Clearance from road, curb, sidewalks	1000	500
Clearance from Catch Basins	**	500
Traffic Signals		
Traffic Signal Duct	300	600
Above-ground plant clearance from Controller Boxes	**	Front 1500 Side/Back 500
Above-ground plant clearance from Traffic Signal Poles		500
Roads Emergency Service Communications Unit (RESCU)		
All infrastructure	300	600
RESCU CCTV Cameras	1000	2000
STREET / PROPERTY LINE		
All infrastructure		300
STEAM / CHILLED WATER		
Enwave Energy Corporation (TDHC -Toronto District Heating Corporation)		
Chilled Water Pipes	300	300
Steam Lines	600	600

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TELECOMMUNICATIONS		
Bell Canada		
Manholes	1000 from floor of manhole	1000 from outside edge of walls
Conduit	600 from bottom edge of conduit (concrete encased)	600 from outside edge of conduit
Direct buried, or non-concrete encased Conduit	300	600
Above-ground infrastructure	**	600
Group Telecom (360 Networks)		
All infrastructure	300	600
MTS Allstream (MetroNet, UniTel, AT&T, CNCP)		
All infrastructure	300	600
Rogers Cable Communications		
All infrastructure	300	600
Telus Communications		
All infrastructure	300	600
Toronto Hydro Telecom		
All infrastructure	300	600
Videotron Telecom (Stream Networks Inc)		
All infrastructure	300	600
Roads Emergency Service Communications Unit (RESCU)		
All infrastructure	300	600
TREES		
Refer to MCR Appendix F		
TRACKS		
Toronto Transit Commission (TTC)		
Streetcar Track Allowance	600	500

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WATER		
Water Supply		
Inside Diameter < 100mm	150	600
100mm <= Inside Diameter < 400mm	300	750
Inside Diameter >= 400mm	500	900
Valve Chamber	**	600
Fire Hydrants		
Above-ground plant clearance from hydrant		1200
Buried plant clearance from hydrant (incl. lead and valve)	400	1500
Wastewater - Storm (incl. CB and sub-drain)		
Inside Diameter < 150mm	150	600
150mm <= Inside Diameter < 750mm	300	750
Inside Diameter >= 750mm	500	900
Maintenance Hole	**	600
Wastewater - Sanitary / Combined		
Inside Diameter < 100mm	150	600
100mm <= Inside Diameter < 375mm	300	750
Inside Diameter >= 375mm	500	900
Maintenance Hole	**	600

* Preferred clearances maybe reduced with the written permission of the affect plant owner(s)

** Clearance above and below to be determined on a case-by-case basis