

macro open space



macro regional open space LOWER DON LANDS

WATERFRONToronto
MVA Team

PIC#2
10 December 2008

open space

LEGEND

- Esplanade
- Woodland
- Passive Use Lawn
- Multiuse Recreation (Active)
- Pedestrian Path
- Bicycle Path
- Open Space



Qualifying Conditions

All bike trails are subject to further review.



open space LOWER DON LANDS

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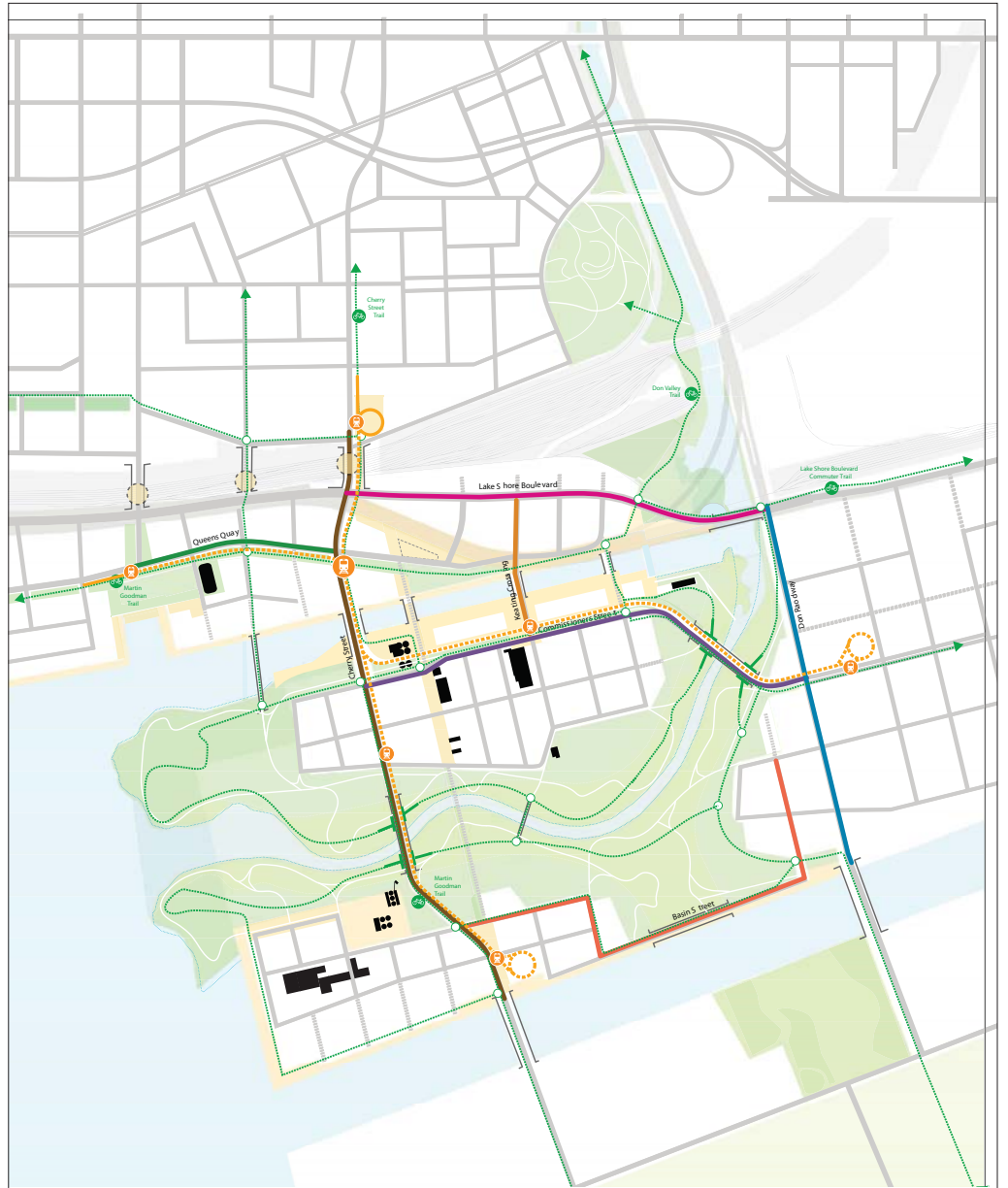
floodplain + habitat



circulation

LEGEND

- Preferred Don Roadway Corridor
- Preferred Lake Shore Boulevard Corridor
- Preferred Munitions Street Corridor
- Preferred Basin Street Corridor
- Preferred Commissioners Street Corridor
- Preferred Queens Quay Corridor
- Preferred Cherry Street Corridor
- LRT Stop
- LRT Tracks
- Pedestrian Path
- Bicycle Path
- Open Space



Qualifying Conditions

All bike trails are subject to further review.



circulation network LOWER DON LANDS

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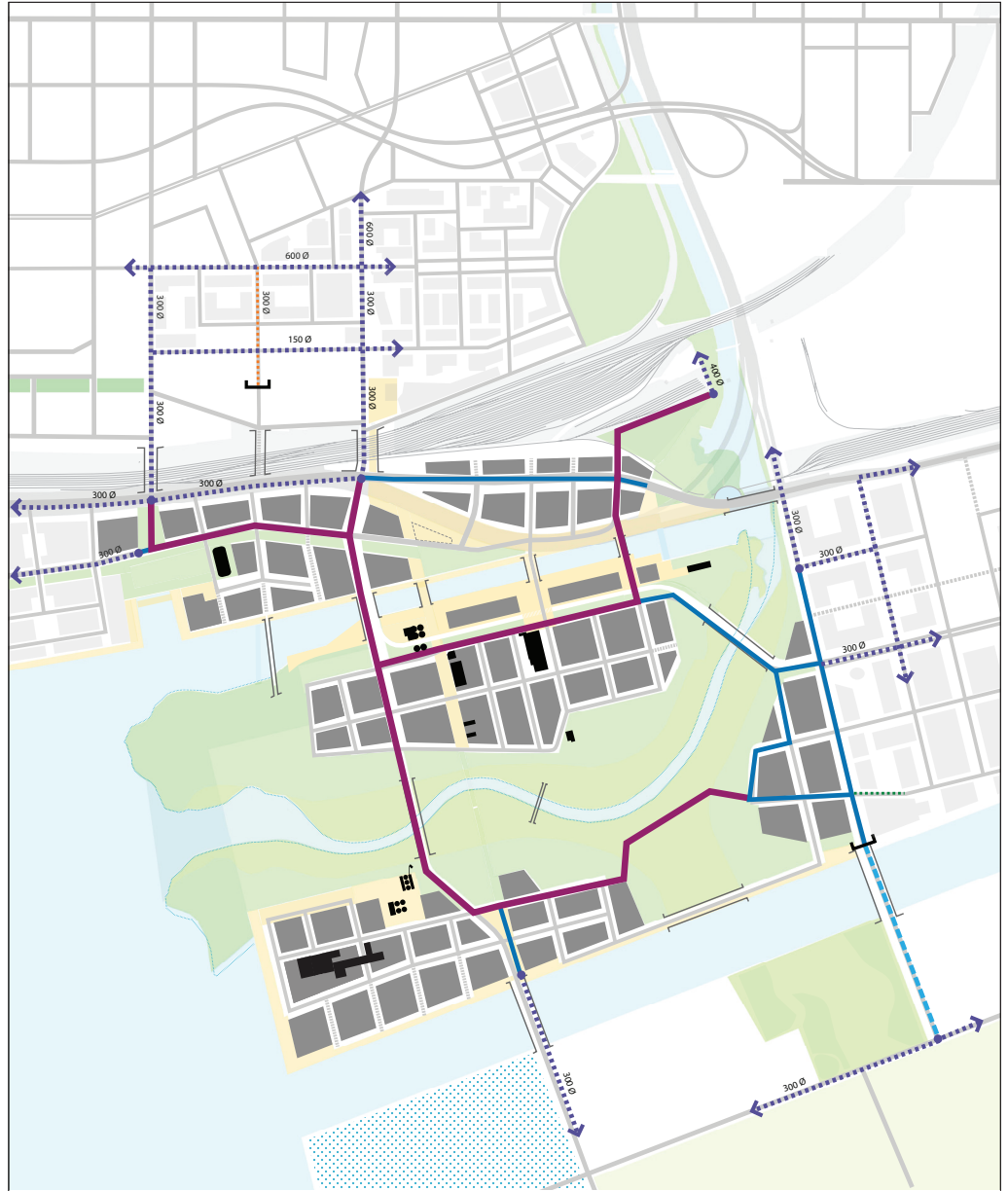
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water



LEGEND

- ⋯⋯⋯ Existing watermain
- Connection to existing watermain
- Proposed 300 mm diameter watermain
- Proposed 400 mm diameter watermain
- Pipe cap
- - - - - Future watermain and connection by others
- ⋯⋯⋯ Future 300 Ø Film Port watermain that may be provided by others and become available to provide additional connectivity
- ⋯⋯⋯ Future 300 Ø watermain on Trinity Street that will be provided by others and could be connected to, if required to improve connectivity to Lower Don Lands via Trinity Street underpass
- Open Space



Qualifying Conditions

All water infrastructure is located below-grade.

1. Depending on irrigation requirements at the site, the final extent of which is still to be determined, additional measures may have to be taken. Such measures may entail one or more of the following:

- a) Supplementing water supply from the south of the LDL by connecting the two dead ends of the 300 diameter watermain on Unwin Avenue at the former RL Heams G.S.;
- b) Increasing some of the proposed watermain diameters and/or adding more pipeline links in the LDL;
- c) Addition of a separate non-potable water supply system for some or all of the irrigation needs.

2. Water demands from future development of Lake Ontario Park lands need to be quantified to verify proposed water main sizes and need for future connection of Unwin Avenue watermain to the Leslie Street watermain.



preferred water infrastructure LOWER DON LANDS

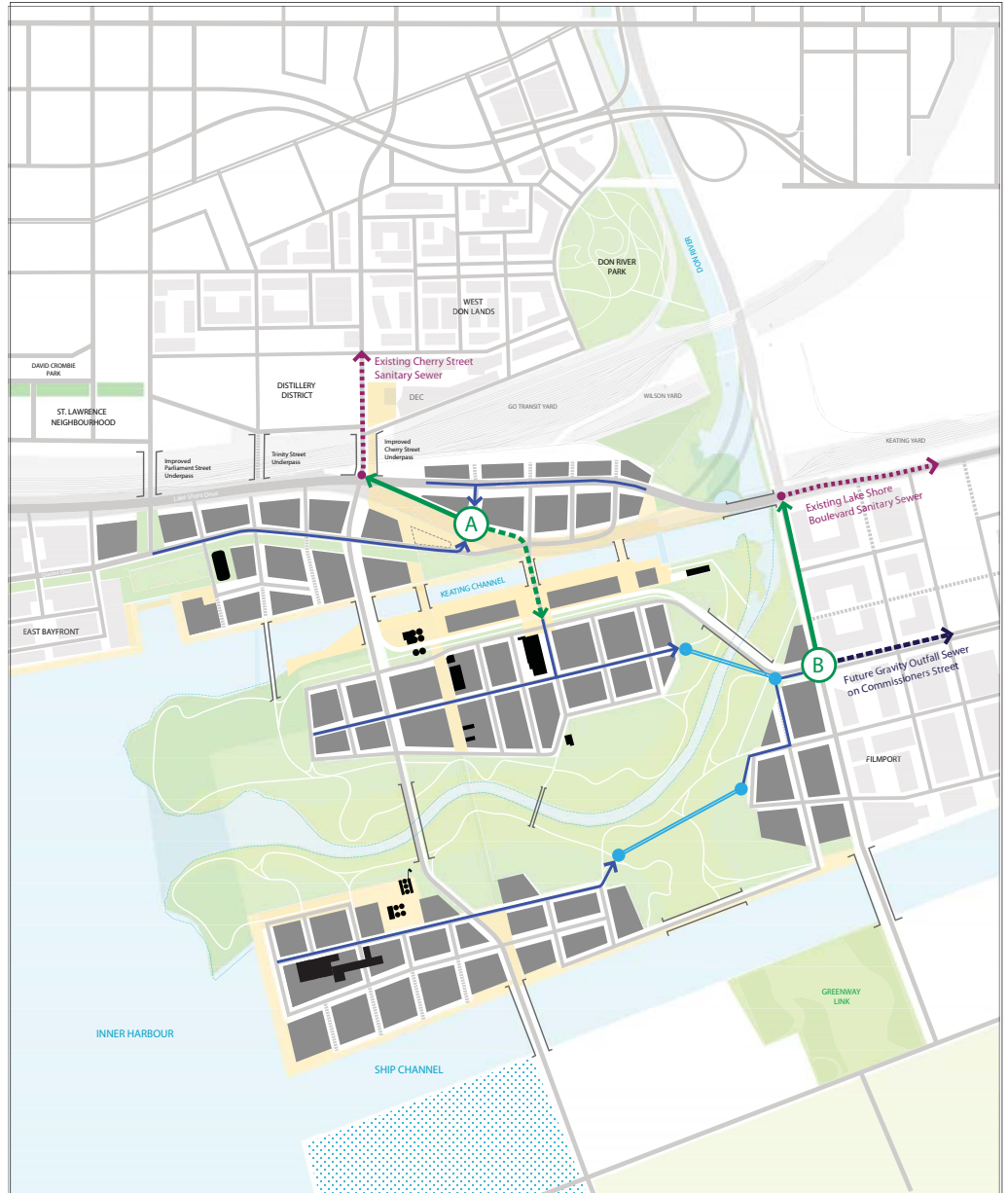
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wastewater



LEGEND

- ⋯ Connection to existing sanitary sewer
- Gravity flow sewer
- Inverted siphon
- Force mains for initial development
- - - Alternate force main if the LLI at the Cherry Street outlet does not have sufficient capacity as determined by the Toronto CSO Class EA
- A Pump station
- - - Potential future trunk sewer for Port Lands if the Toronto CSO Class EA determines that this solution addresses the operational needs of the LLI
- Open Space



Qualifying Conditions

All wastewater infrastructure is below-grade.

1. The project implementation in terms of phasing and the rate of build out may be impacted by the project groundwater management strategy. The preparation of the groundwater management strategy will follow the completion of the site geo-environmental investigations and reporting.
2. The scale of development that may contribute to the Cherry Street wastewater collection system, both in the short and long term, is conditional upon the ability of the Low Level Interceptor (LLI) to function as a sufficient outlet for the development. The ability of the LLI to function as a sufficient outlet falls within the scope of work being completed in the Toronto CSO Class EA Study. As such, the LLI team needs direction from the City of Toronto regarding the short and long term allocation of planned wastewater flows from the North Keating Lands to the LLI via the Cherry Street sanitary sewer.
3. The scale of development that may contribute to the existing Lake Shore Boulevard wastewater collection system, both in the short and long term, is conditional upon the available spare capacity within this receiving sewer system. The available spare capacity has been estimated, but additional information regarding water consumption records and wastewater flow monitoring is required from the City to ensure that the estimated spare capacity is accurate.
4. A future trunk sanitary sewer system is shown along Commissioners Street for the purpose of acknowledging that an integrated alternative solution of the Toronto CSO Class EA, the LLI Class EA Infrastructure Master Servicing Plan and the future servicing needs of the remaining Port Lands and Lake Ontario Park lands may include a new trunk sanitary sewer located along Commissioners Street. The first step in testing the need for this integrated alternative solution is for the City to determine if the long term operation of the LLI in terms of peak wastewater loadings at the connection of the Logan Avenue sanitary sewer to the LLI would benefit from the construction of a new trunk sanitary sewer along Commissioners Street.
5. If found preferable during the design stage, the shown network could be amended as follows:
 - a) The siphons and possibly also pump station B could be replaced by pump stations at the inlet location of the siphons, followed by force mains up to the receiving gravity flow sewer, or
 - b) All shown sewer lines could become common force mains and wastewater is pumped thereto from multiple pump stations that are placed at each of the properties.

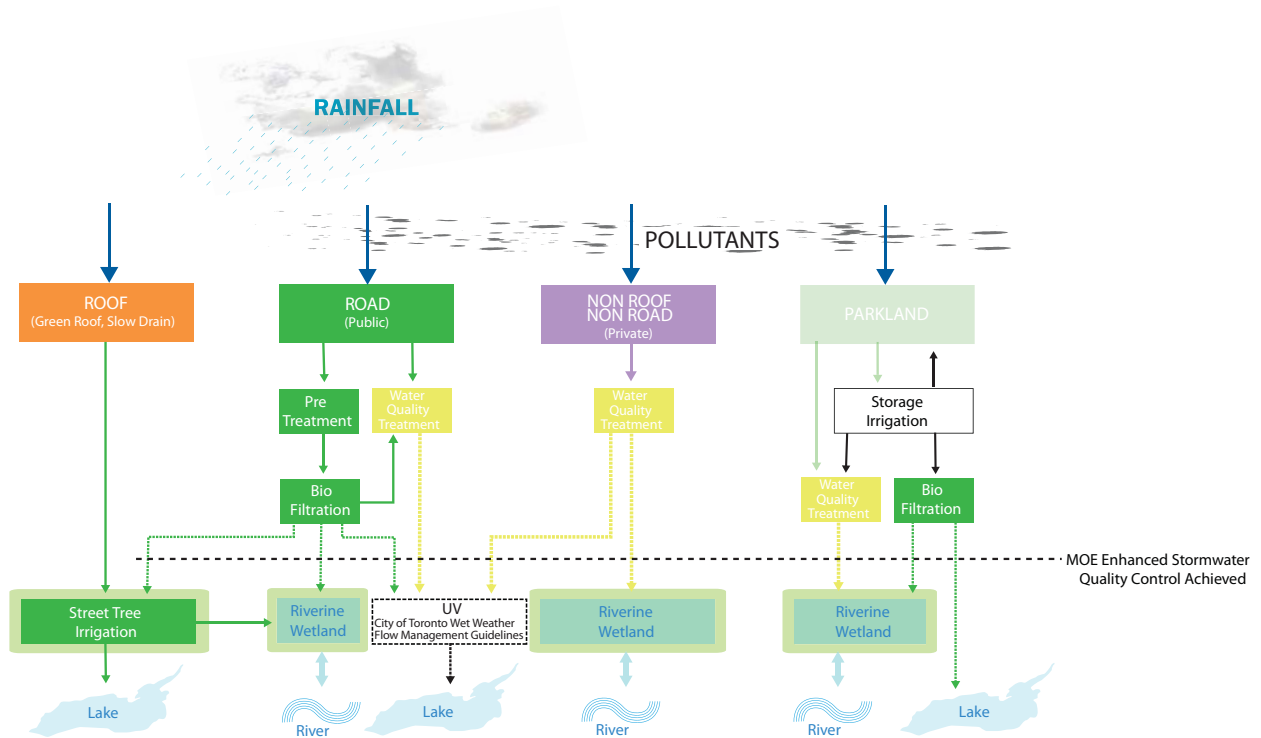


preferred wastewater infrastructure LOWER DON LANDS

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stormwater



stormwater system LOWER DON LANDS

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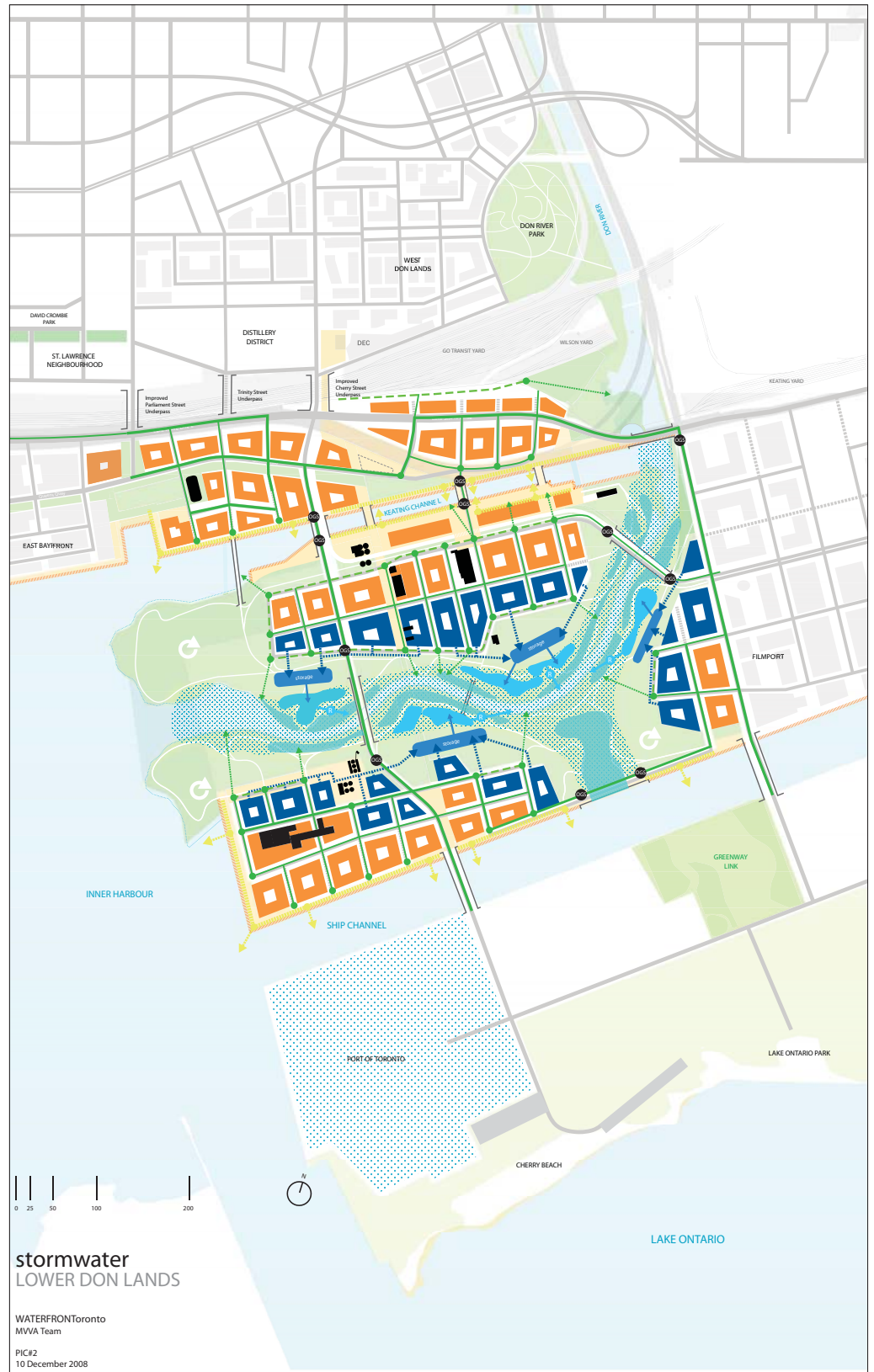
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stormwater



LEGEND

- River, Harbour, Channels
- Riverine Wetlands
- Riverine Levees and Higher Land
- Park
- Open Space
- Seepage Wetlands
- Underground Storage Reservoir
- Rivulets
- Roofs of Blocks Drained to High Quality Wetland
-Piped or surface drainage to storage facility for controlled release to seepage wetlands
- Roofs of Blocks Not Drained to High Quality Wetlands
-Used for Street Tree irrigation and flushing of salt runoff
- Street with Treatment
- Street or Edge with Extra Space for Treatment Opportunities
- Street or Edge with Limited Space for Treatment
-may require mechanical treatment
- Street Runoff achieves MOE Enhanced Stormwater Quality
- OGS Possible Location Needing Oil/Grit Separator
- G Parks
-Treatment Based on Irrigation Needs
-Storage in Cistern
-Overflow to River or Lake



neighbourhoods



LEGEND

- | | | | |
|--|---|--|------------------------------|
| | Heritage Structure | | Geographic Feature |
| | Retail | | Wooded Prospect |
| | LRT Stop | | Passive Use Lawn |
| | Bicycle Trail | | Multiuse Recreation (Active) |
| | School and/or Community Center | | Esplanade |
| | Day Care | | Playground |
| | Environmental and Cultural Special Uses | | Public Garden |
| | Library | | Event Space |
| | Special Commercial Use | | Open Space |
| | Small Boat Launch | | Water Access |
| | Small Boating | | |
| | Party Boats | | |
| | Court Sports | | |

