

# Terms of Reference: Functional Servicing Report

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## **Description:**

A Functional Servicing Report (FSR) provides a review of functional serviceability for a proposed development and determines the overall impact of a land development proposal (i.e, Plan of Subdivision), proposed conversion or changes of land uses and intensification, water and wastewater service capacities, and the storm drainage system. It also determines the required improvements to the municipal servicing infrastructure, stormwater management systems, water balance as well as any mitigation measures to minimize negative impacts.

## **Development Application Stream(s):**

An FSR may be required as part of the following applications:

- Official Plan Amendment
- Zoning By-law Amendment
- Main Street North Development Permit System
- Plan of Subdivision
- Site Plan Control\*\*

\*\* For Site Plan Control applications, an FSR would require a capacity analysis if there is a change to the existing sanitary drainage pattern, changes to the combined sewer system, or in limited cases groundwater foundation drainage discharge proposed to the sanitary system or both.

## **Prepared By:**

The FSR must be prepared by a registered professional engineer qualified in municipal engineering. All drawings must be stamped, signed, and dated by a professional engineer, licensed in the Province of Ontario.

## **Rationale:**

The FSR is required to assist staff in determining if the existing water and wastewater services and stormwater management systems are adequate for the proposed development, or if services need to be upgraded.

## **Content:**

The FSR should include sufficient details for the local municipal and Regional staff to determine the financial and infrastructure implications of servicing (water, wastewater, stormwater, site grading and utilities) the proposed development. The submission should include reports, plans, computer modeling results and/or design calculations relating to the designs, upgrades of municipal services and related reports.

The FSR should at a minimum contain:

# Terms of Reference: Functional Servicing Report

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## 1. Introduction

- 1.1. Purpose of Study
- 1.2. Background Information
- 1.3. Site Description
- 1.4. Environmental Constraints and Development Limit
- 1.5. Proposed Development Plan, Phasing and Tenureship

## 2. Grading Plan

- 2.1. Existing Grading Plan
- 2.2. Proposed Grading Plan

## 3. Water Servicing Plan

- 3.1. Existing Water Servicing and Connections
- 3.2. Proposed Watermain System Analysis and Design

## 4. Sanitary Servicing Plan

- 4.1. Existing Sanitary Servicing, Connections and Flows
- 4.2. Design Criteria and Demand
- 4.3. Projected Sanitary Flows
- 4.4. Proposed Sanitary Servicing Plan

## 5. Storm Sewer Servicing Plan

- 5.1. Existing Storm Sewer Servicing and Connections
- 5.2. Proposed Minor Storm Sewer System
- 5.3. Proposed Major Storm Drainage System
- 5.4. Proposed Easement(s) as applicable

## 6. Stormwater Management Plan

- 6.1. Existing Drainage Pattern and Peak Flows
- 6.2. Existing Soil and Groundwater Information

# Terms of Reference:

## Functional Servicing Report

---

6.3. Stormwater Management Criteria

6.4. Proposed Stormwater Management Plan

6.4.1. Quantity Controls

6.4.2. Quality Treatment

6.4.3. Erosion Controls as applicable

6.4.4. Stormwater Management Pond Design as applicable

6.4.5. Water Balance 6.4.6. CLI ECA Compliance

7. Sustainability Assessment and Summary - Stormwater Management

8. Utilities

8.1. Existing Conditions

8.2. Servicing Considerations

8.3. Hydro

8.4. Telephone

8.5. Natural Gas

8.6. Cable Television and Internet

8.7. Street Lighting

9. Geotechnical and Hydrogeological Findings and Recommendations

10. Erosion and Sedimentation Control Plan

11. Conclusion

11.1. Grading Plan

11.2. Water Servicing Plan

11.3. Sanitary Servicing Plan

11.4. Storm Sewer Servicing Plan

11.5. Stormwater Management Plan

11.6. Sustainability Assessment and Summary



# Terms of Reference: Functional Servicing Report

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11.7. Utilities

11.8. Geotechnical and Hydrogeological Findings

11.9. Erosion and Sedimentation Controls

## List of Figures

Figure No. 1.1 Location Plan

Figure No. 1.2 Proposed Development Plan

Figure No. 3.1 Existing and Proposed Water Servicing Plan

Figure No. 4.1 Existing and Proposed Sanitary Servicing Plan

Figure No. 5.1 Existing Storm Servicing and Grading Plans

Figure No. 5.2 Proposed Storm Servicing and Grading Plans

Figure No. 6.1 Existing Drainage Area Plan

Figure No. 6.2 Existing Stormwater Management Plan

Figure No. 6.3 Proposed Stormwater Management Plan

## List of Appendices

Appendix A Legal Survey Plan

Appendix B Water Supply Data and Proposed Water Supply Calculations

Appendix C Sanitary Sewer Data, including Proposed Flow Calculations and Sewer Design

Appendix D Storm Sewer System Calculations and Design

Appendix E Stormwater Management Calculations and Drawings

Appendix F Sustainability Assessment Tool

Appendix G Utility Locates & Relocation Plan

Appendix H Geotechnical Investigations

Appendix I Hydrogeological Investigations

Appendix J Low Impact Development Feasibility Assessment

# Terms of Reference: Functional Servicing Report

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## Additional Resources:

- Professional Engineers of Ontario – [Why employ a professional engineer?](#)
- [Stormwater Management Planning and Design Manual](#)
- [Stormwater Management, City of Brampton](#)
- For more information, please contact: [Planning.Development@brampton.ca](mailto:Planning.Development@brampton.ca)