Modern Roundabout and Neighbourhood Roundabout Analysis

PURPOSE:

This document provides guidance for the preparation of a Modern Roundabout or Neighbourhood Roundabout Analysis which may be required for the submission of an application under the *Planning Act*. All Modern Roundabout or Neighbourhood Roundabout Analyses shall follow the guidelines referenced in this document.

A Modern Roundabout or Neighbourhood Roundabout Analysis provides information to determine if a roundabout will provide a safe and adequate form of traffic control at an existing or future intersection.

A Modern Roundabout Analysis shall be completed for any potential traffic signal installation or for an existing signalized intersection that is projected to experience collision patterns, congestion, or poor level of service. The need for a Modern Roundabout Analysis at an existing signalized intersection that is projected to experience collision patterns, congestion, or poor levels of service, will be identified during the Formal Consultation Stage. The need for a Modern Roundabout and Neighbourhood Roundabout Analysis is discretionary submission item in the Urban Hamilton Official Plan and Rural Hamilton Official Plan checklist for an Official Plan Amendment, Zoning By-law Amendment, Plan of Subdivision, and Site Plan Control Application.

PREPARED BY:

The Modern Roundabout or Neighbourhood Roundabout Analysis must be prepared by

a consultant registered as a Professional Engineer in the province of Ontario. The consultant must affix their stamp and seal and specifically identify the engineer who prepared the work. The consultant is expected to be a qualified transportation consultant experienced in transportation planning or traffic engineering.

CONTENTS:

Terms of reference and acceptable analysis software are to be confirmed through a pre-study consultation with Transportation Planning staff.

The Modern Roundabout or Neighbourhood Roundabout Analysis may be provided as a standalone document or as a separate section within a broader document containing required transportation studies.

The Modern Roundabout or Neighbourhood Roundabout Analysis should include:

- Roundabout analysis justification;
- Inscribed circle diameter, number of travel lanes and where right-turn slip lanes may be required;
- Horizon years and time periods for analysis;
- Construction feasibility, including identifying where expropriation may be required;
- Expected level of service for all horizon years;
- Pedestrian and cyclist accommodations; and,
- Conclusions and recommendations.

OTHER INFORMATION:

General design reference guidelines include the *Roundabouts: An Informational Guide* (FHWY-RD-00-067) from the Federal Highway Administration (United States) or *Synthesis of North American Roundabout Practices* from the Transportation Association of Canada.

REVIEWED AND APPROVED BY:

Transportation Planning and Parking Division, Planning and Economic Development Department, in conjunction with Transportation Operations and Maintenance, Public Works Department.

CONTACT:

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