

CITY OF HAMILTON

PUBLIC WORKS DEPARTMENT

(TRANSPORTATION OPERATIONS & MAINTENANCE DIVISION –TRANSPORTATION OPERATIONS - LOCATION –
703 Hwy 8, Stony Creek)

TRAFFIC DESIGN & CONSTRUCTION TECHNOLOGIST - CUPE 5167

SUMMARY OF DUTIES

Reporting to the Project Manager, the Traffic Design & Construction Technologist is responsible for undertaking detail design and providing construction inspection support for implementing traffic control infrastructures including traffic signal installations, intersection pedestrian signals, mid-block pedestrian signals, pedestrian crossovers, pavement markings, traffic calming measures, bicycle lanes, roadway design, on-street parking and other traffic and roadway infrastructures.

GENERAL DUTIES

Under the supervision or direction of the Project Manager:

Performs a variety of activities, including design and construction support relating to the planning (determines needs, project scope etc.), design, tendering, construction and inspection of traffic control infrastructures including new traffic control signal, pedestrian crossover (PXO) and intersection pedestrian signal (IPS), traffic calming measures, pavement marking and traffic signage.

Prepares, review and edits technical drawings in MicroStation such as base plan, concept plan, detail design, construction drawings and as built drawings and ensure the design and drawings meets all standards, specifications and regulatory requirements.

Prepares quantity estimate and assist in the development of technical standards and specifications, special provisions and tender documents for construction or modernization of traffic control infrastructures.

Conducts field investigation and checks and provides progress/inspection reports on the work of contractors to ensure adherence to approved designs, procedures, regulations, statutes, specifications etc.

Provides technical directions and coordinates signal equipment installation, signal designs and equipment replacement with Traffic Operations Centre (TOC) staff.

Reviews and responds to consultants' design submissions for completeness, accuracy, design criteria and conformity to City standards.

Prepares correspondence to other departments, the public, outside agencies, contractors and other professionals in the private sector for senior staff.

Reviews and recommends improvements to traffic, pedestrian and bike signals in accordance with the Accessibility for Ontarians with Disability Act (AODA).

Ensure compliance with Provincial and Federal statutes and regulations and Municipal by-laws and policies, with specific regard for the Occupational Health and Safety Act.

Performs other duties as assigned which are directly related to the major responsibilities of the job.

QUALIFICATIONS

1. Demonstrated experience in Transportation Engineering with considerable knowledge in design normally acquired by attaining a Diploma in Transportation or Civil Engineering or an equivalent combination of education and relevant work experience.
2. C.E.T. designation preferred.

3. Competent to undertake traffic signal designs in accordance with the Ontario Traffic Manual Book 11 and 12 and other applicable guidelines.
4. Familiarity with Ontario Traffic Manual (OTM) - Book 7 will be considered an asset
5. Knowledge of technical/engineering, manufacturing, installation and maintenance practices relevant to the work of the group.
6. Demonstrated experience in design and drafting software such as MicroStation, Geomedia (GIS) and AutoCAD.
7. Experience in a computerized environment with proficiency in Microsoft Office Word, Excel and Outlook
8. Knowledge of Occupational Health and Safety Act, AODA, Ontario Highway Traffic Act and relevant municipal statutes.
9. Knowledge and understanding of all relevant regulations, statues, standards such as Ontario Provincial Standards Specifications (OPSS), Ontario Provincial Standards Drawings (OPSD), Transportation Association of Canada (TAC) Geometric Design Guidelines, Manual of Uniform Traffic Control Devices (MUTCD), Ontario Traffic Manuals, and other relevant technical manuals.
10. .M.S.A. Certification would be an asset.
11. Proven knowledge of the principles of traffic and road design.
12. Demonstrated knowledge and experience of drafting, design and estimating techniques.
13. Demonstrated experience in managing consultants design and reviewing submissions.
11. Possess valid Class "G" Driver's Licence and provision of own car.

THIS POSITION REQUIRES A VALID CLASS "G" DRIVER'S LICENCE AND PROOF THEREOF IS REQUIRED AFTER HIRE.

THE INCUMBENT SHALL COMPLY WITH ALL HEALTH AND SAFETY POLICIES AND PRACTICES FOR THIS POSITION AND THE WORKPLACE
