



Report to Council

Department: Infrastructure Services

Division: Capital Works and Asset Management

Date: April 22, 2025

Prepared by: David McBeth, C.E.T.
Manager, Capital Works and Asset Management

Report Number: Capital Works and Asset Management-2025-11

Subject: Draper & Sydenham Streetlighting

Number of Pages: 4

Recommendation(s)

That Capital Works and Asset Management-2025-11 entitled Draper and Sydenham Streetlighting by David McBeth, Manager, Capital Work & Asset Management dated April 22, 2025 be received.

Purpose

This report is being prepared in response to the motion at the December 16th, 2024 Council Meeting, **Resolution Number R24-12-568**:

That Council direct Administration to review the feasibility and cost of installing streetlights on Draper Street from Jackson Street to Sydenham Street and Sydenham Street from County Road 50 to Harrison Street.

Moved By: Councilor Allard
Seconded By: Councilor Matyi

Background and Discussion

Administration through the Capitals Works and Asset Management division, went out in March 2025 to review the existing streetlight infrastructure within the proposed area. Administration reviewed the streetlighting from Dunn Road to County Road 15 and Sydenham Street from the northern limits to County Road 50. There is currently existing streetlighting infrastructure along the Draper Street and Sydenham Street. The existing lights are shown in the figure below.



The existing lighting is either 70-73-watt LED (yellow dot) or 50-51-watt LED (orange dot). The streetlights are in a range from 1.5m to 7.0m from the edge of pavement. The streetlights are mounted onto the Hydro One owned wooden poles and have an approximate mounting height of 6.7m (22') above grade, although they do vary.

The existing streetlighting on Draper Street are not uniform and the spacing ranging from 49m-156m (161'-512') apart. The existing streetlighting on Draper Street is not uniform and the spacing ranging from 38m – 137m (125-450') apart. Administration will note that this spacing is similar to other roadways within Colchester Village.

Based on this information, the existing streetlighting does not meet today's standards that would be required in new developments. The existing streetlighting is not mounted to our own poles and any expansion would require an agreement with Hydro One. Administration will note that Hydro One requirements have changed since the original mounting of the existing streetlights, and any new streetlight hardware may not be allowed to mount to these existing poles. The existing pole spacing may also prohibit the Town from meeting today's ANSI/IES RP-8-18 standards. If Council wanted to bring these roads up to the Town's standard, we would need to procure an engineering consultant to evaluate the existing infrastructure, the capability of mounting on Hydro One's infrastructure, and detailed design of the new streetlight infrastructure. Administration estimates that engineering would cost approximately \$20,000.

Without a detailed design at the current time, Administration can estimate that based on average spacing and number of intersections, that to upgrade the streetlighting infrastructure on Draper Street from Dunn Road to County Road 15 and Sydenham from Draper Street to County Road 50, is anticipated to be \$290,000 - \$330,000 depending on engineering design. This estimate is made on the assumption that all streetlighting would be required to be on its own dedicated pole and that Hydro One will not permit the use of their poles. This estimate is based on:

- the removal, disconnection and salvaging of the existing streetlighting infrastructure,
- Supply and installation of 32 new concrete poles, arms and fixtures,
- Supply and installation of all conduit and wiring, and
- Supply and install of 4 disconnect boxes.

An estimated total project cost of \$310,000 to \$350,000 including engineering.

Financial Impact

There are no financial impacts as part of this report. If Council wants to proceed with the engineering work discussed in this report, then a project during budget requests can be included for the 2026 budget.

Consultations

Kevin Girard, Director, Infrastructure Services

Norm Nussio, Manager, Operations & Drainage

Link to Strategic Priorities

- ☒ Embrace asset management best practices to build, maintain, and continuously improve our municipally owned infrastructure.
- ☐ Leverage our Town's competitive advantages to promote jobs and economic investment.
- ☐ Take care of our natural environment and strengthen the sense of belonging to everyone who makes Essex "home".
- ☐ Deliver friendly customer service in an efficient, effective, and transparent manner while providing an exceptional working environment for our employees.
- ☐ Build corporate-level and community-level climate resilience through community engagement and partnership and corporate objectives.

Report Approval Details

Document Title:	Draper and Sydenham Streetlighting - Capital Works and Asset Management-2025-11.docx
Attachments:	
Final Approval Date:	Apr 11, 2025

This report and all of its attachments were approved and signed as outlined below:

A handwritten signature in black ink, appearing to read 'K. Girard', written over a light blue horizontal line.

Kevin Girard, Director, Infrastructure Services - Apr 11, 2025 - 3:45 PM

A handwritten signature in black ink, appearing to read 'Doug Sweet', written over a light blue horizontal line.

Doug Sweet, Chief Administrative Officer - Apr 11, 2025 - 3:54 PM