

COMMITTEE OF THE WHOLE JUNE 8, 2005

**TELECOMMUNICATION STREET FURNITURE
PROPOSED USE OF SKY-CAST TRAFALGAR POLE**

Recommendation

The Commissioner of Engineering and Public Works recommends:

1. That the use of the Sky-Cast Trafalgar pole (or similar type pole referred to as a Communications pole) for streetlighting be approved for use City-wide in accordance with City Standards subject to the execution of an agreement between the City and the various parties to the satisfaction of the Commissioner of Engineering and Public Works and the Director of Legal Services, dealing with any legal and financial matters.
2. A by-law be enacted to authorize the execution of an agreement between the City and various parties to the satisfaction of the Commissioner of Engineering and Public Works and the Director of Legal Services, dealing with any legal and financial matters.

Economic Impact

The Developer is responsible for all costs in designing and constructing the streetlighting within new subdivisions as is typically required. The requirements that the Developer install the poles and provide the City with spare poles at no cost to the City will be implemented within future Subdivision Agreements.

Purpose

To seek Council's approval to use the Trafalgar pole manufactured by Sky-Cast Inc., (or similar type pole referred to as a Communications pole) which is a street light pole, designed to incorporate telecommunications equipment.

Background - Analysis and Options

On June 17, 2002, the Commissioner of Engineering and Public Works brought forward a report outlining a request by Metrus Development Inc. to use a non-standard streetlight pole on local residential streets within their development located north of Rutherford Road and east of Pine Valley Drive, referred to as Vellore Village, Phases 5 and 6 (19T-89024). Subsequently, at the Council meeting of June 24, 2002, Council adopted the recommendations of the Commissioner of Engineering and Public Works:

1. That the use of the Sky-Cast Trafalgar pole for street lighting and telecommunications facilities be approved as pilot projects in new developments in Block 10 and 39.
2. That staff report on the pilot projects following completion and provide recommendations regarding further use of the Sky-Cast Trafalgar pole and on a policy regarding the use of telecommunications pedestals in new subdivisions.
3. A by-law be enacted to authorize the execution of an agreement between the City and various parties to the satisfaction of the Commissioner of Engineering and Public Works and the Director of Legal Services, dealing with any legal and financial matters.

This non-standard pole, known as the Sky-Cast Trafalgar pole, or generally known as a Communications pole, has an expanded concrete base that contains a compartment for storage of telecommunications equipment normally contained within free standing above ground pedestals. (Refer to Attachment No. 1) This pole does not require any modification to the

existing standards for streetlight luminaries and arms that are currently approved for use in Vaughan. The Sky-Cast Trafalgar poles have been installed on a pilot project basis, in the Vellore Village (19T-89024) Phase 5 and 6 developments located north of Rutherford Road and east of Pine Valley Drive within Block 39. These streetlight poles which accommodate various telecommunications facilities are thirty-two feet overall in length with a twenty-seven foot height above grade and are in compliance with the City of Vaughan's standard height. Metrus Development Inc. installed these poles within Vellore Village in 2002.

With the reduced boulevard widths and generally narrower lot frontages, within the new subdivisions, less room is available in the municipal corridor for street furniture. The Communications pole has minimized the number of stand alone telecommunications pedestals (telephone and cable pedestals) and consequently has reduced the number of complaints from the homeowners in the Vellore Villages Phase 5 and 6 subdivisions. Also, there has been a reduction in conflicts in designing and locating the street furniture within the boulevards.

Communications poles have been installed in the Cities of Brampton, Mississauga, Markham, Oakville and Richmond Hill. To date, the feedback on the use of these poles has been positive. Bell Canada and Rogers Cable are looking forward to wider deployment across the Greater Toronto Area. The telecommunications providers have indicated that the use of the Communications pole will not totally eliminate the need for aboveground pedestals. There are some pieces of equipment that do not fit in the Trafalgar pole. Bell's OPI units and Rogers' amplifiers are items that must stand alone due to size. With respect to the smaller more frequently used equipment, the telecommunications providers are able to install all of their standard sized equipment in this pole. In instances where on-street townhouses have frontages less than 6.0 metres, the ratio of services to poles may be too high to feed all houses from the poles. In these instances, one or two service pedestals had to be added.

A Joint Use Agreement is currently being reviewed in consultation with the City's Legal Department, the various telecommunications providers and PowerStream Inc. The Agreement will deal with any legal and financial matters including the following issues:

1. Specifications of the Communications Pole;
2. Conditions that the equipment located in the pole be installed and maintained by the service provider;
3. Conditions for access to the poles by the service providers for maintenance;
4. Requirements that the developer install the poles and provide the City with spare poles at no cost; and
5. The liabilities and indemnification clauses.

In areas of the City where special streetscape treatments are required, the Communications pole may not be approved for use.

Relationship to Vaughan Vision 2007

In consideration of the strategic priorities related to planning and managing growth as established by Vaughan Vision 2007, the recommendations of this report will enhance the streetscape by reducing the amount of aboveground street furniture thereby reducing concerns regarding unsightly fixtures.

This report is consistent with the priorities previously set by Council.

Conclusion

Upon review of the pilot project for the implementation of the Sky-Cast Trafalgar pole in the Vellore Village, Phase 5 and 6 residential developments (19T-89024) over the past three years, there does not appear to be any objections to its use. The use of the Trafalgar pole has minimized the number of telecommunications pedestals and consequently has reduced the number of concerns and conflicts with the street furniture within the boulevards. Subject to resolution of any outstanding financial and legal issues that may need to be addressed within the Agreements, it is recommended that the Sky-Cast Trafalgar pole be approved for use in subdivisions City-wide.

Attachments

1. Sky-Cast Trafalgar Pole

Report prepared by:

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Respectfully submitted,

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Commissioner of Engineering and Public Works

Michael Won, P. Eng.
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Engineering

TELECOMMUNICATION STREET FURNITURE

Metrus Development Inc.
In association with
Futureway Communications Inc
and Sky Cast Inc..
is setting a new standard for
telecommunication street furniture
in the neighbourhoods of the new millenium.

CHANGING THE LANDSCAPE FOREVER



OCTOBER 2001



The current practice is to install Telephone and Cable T.V. service in pedestals cluttering the front lawn / streetscape appearance.

These are placed with only ease of service in mind, and are visually uncoordinated.

This creates an eyesore and potential maintenance issues.



TYPICAL SERVICE PEDISTAL STYLE STREETScape - *SHOWING CLUTTER OF SITE SERVICES*





Our New Technology used in the streetscapes shown will eliminate freestanding aboveground pedestals and provide fiber optic cable directly to new homes.

It has been designed to meet the needs of Futureway Communications, and associated cable companies, while providing an ordered and pleasing appearance. Creating a positive streetscape experience in the community.



NEW TECHNOLOGY STREETScape - *SHOWING IMPROVED FRONT YARD*





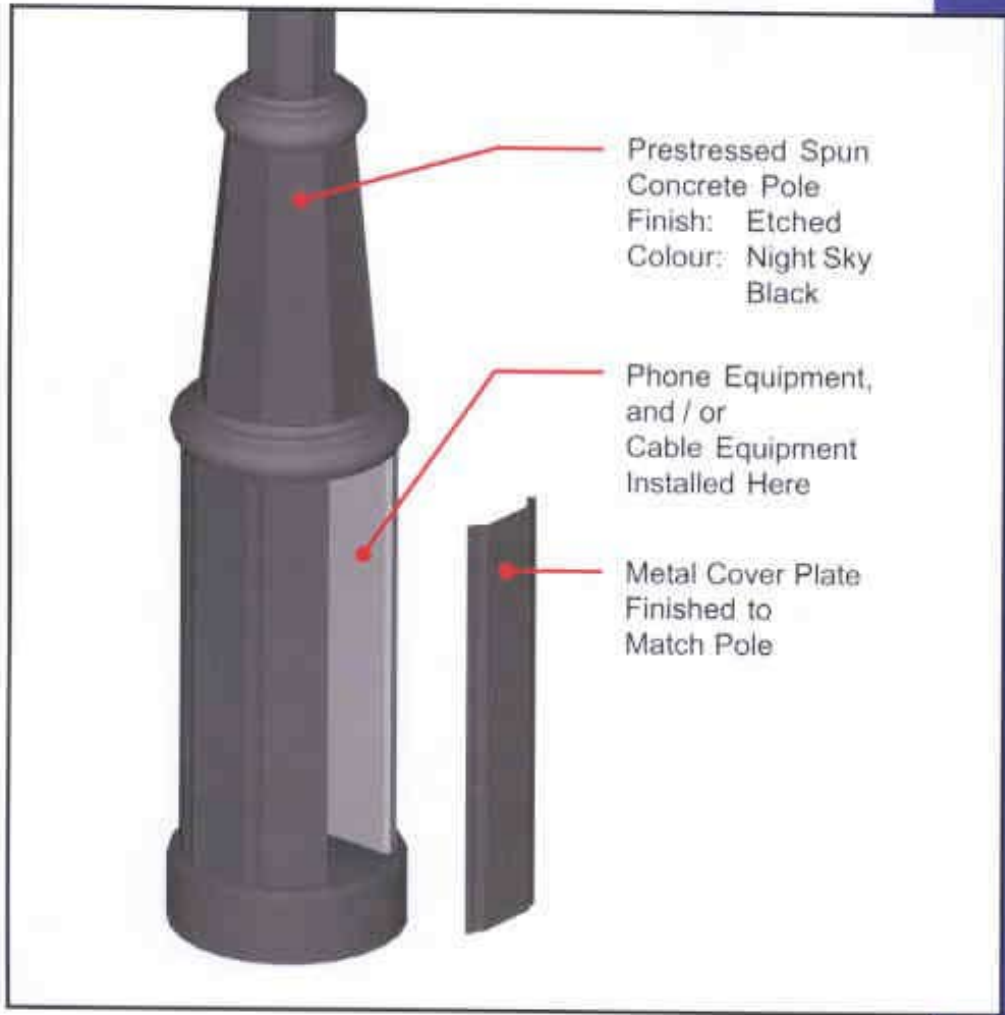
NEW TECHNOLOGY STREETScape - *with the New Trafalger Pole*





TYPICAL SERVICE PEDISTAL STYLE STREETScape - *SHOWING CLUTTER OF SITE SERVICES*





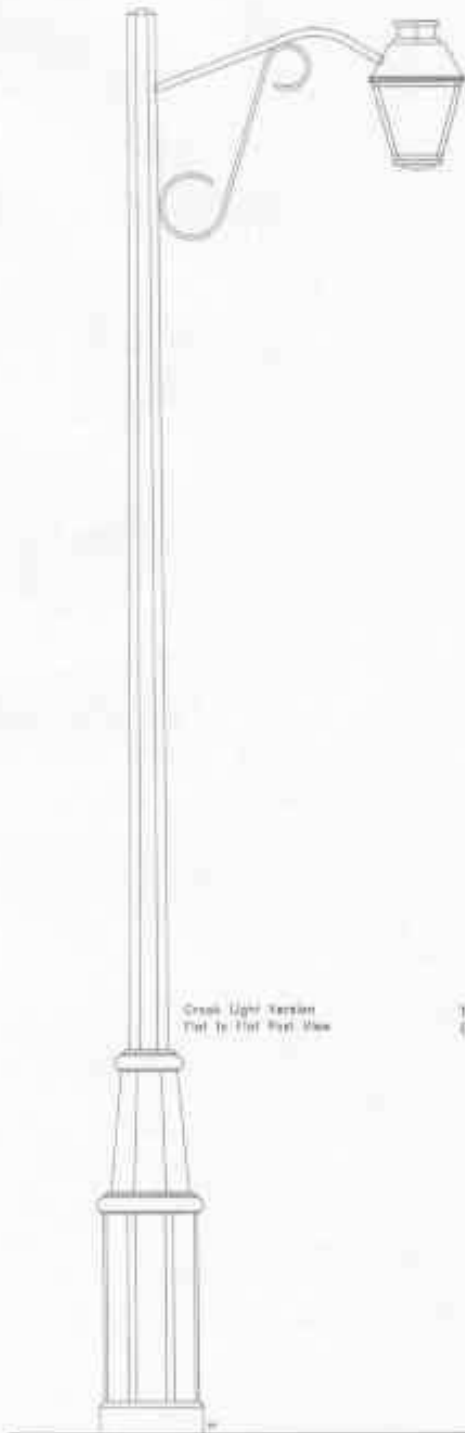
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Concrete Pole
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Black

Phone Equipment,
and / or
Cable Equipment
Installed Here

Metal Cover Plate
Finished to
Match Pole

NEW TECHNOLOGY LIGHT STANDARD - *SHOWING INTERIOR EQUIPMENT CAVITY*





Metrus Precast Concrete Light Standard	<table border="1"> <tr> <td> REVISIONS No. 1 Date 11/11/11 Description Drawn by Checked by Approved by </td> <td> No. 2 Date Description Drawn by Checked by Approved by </td> </tr> </table>	REVISIONS No. 1 Date 11/11/11 Description Drawn by Checked by Approved by	No. 2 Date Description Drawn by Checked by Approved by
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