



Report to: Development Services Committee

Report Date: June 18, 2013

SUBJECT: Temporary Road Closure of a Section of Cornell Centre Boulevard
from 16th Avenue to Riverlands Avenue

PREPARED BY: Grace Yeung, Engineering (ext. 2069)

RECOMMENDATION:

- 1) That the June 18, 2013 report entitled 'Temporary Road Closure of a Section of Cornell Centre Boulevard from 16th Avenue to Riverlands Avenue' be received; and
- 2) That temporary closure of Cornell Centre Boulevard, from 16th Avenue to Riverlands Avenue be approved to facilitate the construction of municipal services infrastructure and reconstruction of Cornell Centre Boulevard, for a forecast period from Monday July 1, 2013 to Friday November 1, 2013 subject to conditions listed in this report; and
- 3) That staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

To obtain Council's approval for the closure of Cornell Centre Boulevard, 16th Avenue to Riverlands Avenue, for approximately four (4) months to facilitate the construction of municipal services infrastructure and reconstruction of Cornell Centre Boulevard.

BACKGROUND:

Cornell Centre Boulevard is currently a four-lane road, previously known as the Markham By-Pass. As part of the land use planning for this area, the road will be realigned and reduced to a two-lane local road, with on-street parking on one side and bike lanes on both sides, as illustrated in Attachment A. The lane reduction will help integrate the roadway into the Cornell Community Phase 6 Subdivision. The realignment will also facilitate the development of the future community park. Attachment B outlines the realignment of this road and the location of the future park.

The road construction and underground municipal services infrastructure will be constructed at the same time. These will service the Cornell Community Phase 6 Subdivision and permit it to proceed, including construction of lots fronting onto Cornell Centre Boulevard.

A subdivision agreement for Cornell Community Phase 6 was executed on December 11, 2012 between the City and Wykland Estates Inc. It provides the obligation and security for the reconstruction of Cornell Centre Boulevard.

OPTIONS/ DISCUSSION:

1. Proposed Temporary Road Closure

The proposed road closure of Cornell Centre Boulevard is required for safety reasons and to reduce the construction time frame by one month. Currently, Cornell Centre Boulevard only has a nominal amount of traffic. Based on the Region's traffic count on February 11, 2009, during the AM peak hour at the intersection of Cornell Centre Boulevard and 16th Avenue, there are 50 vehicles going northbound and 87 vehicles going southbound. The City performed a similar traffic count between Riverlands Avenue and Shady Oaks Avenue on May 16, 2012. During the PM peak hour, 37 vehicles were counted. As the existing population of residents in the vicinity is still low, the reconstruction of this road now, with a full road closure to reduce the time of construction, will not have a significant impact on motorists.

Black Walnut Elementary School is located on the southeast corner of Cornell Centre Boulevard and Shady Oaks Avenue. The entrance to the school is off John Allan Cameron Street. Reconstruction of Cornell Centre Boulevard in this area (Stage 1) will take place during the school summer holidays, from July to August. As such, there will not be any significant impact on the operation of the school. The school has been notified and updates will be provided throughout the construction period.

The anticipated schedule for the closure of Cornell Centre Boulevard, from 16th Avenue to Riverlands Avenue, is from Monday July 1, 2013 to Friday November 1, 2013. Given the potential changes to the construction schedule due to weather and scheduling matters, it is recommended that the actual closure period be confirmed by the Director of Engineering.

The road closure will take place in two stages as follows and as illustrated in Attachment B:

Stage 1:

- Reconstruction of Cornell Centre Boulevard, from Whites Hill Avenue to 150m south of Shady Oaks Avenue
- Construction of realigned portion of Cornell Centre Boulevard
- Cornell Centre Boulevard will be closed from Whites Hill Avenue to Riverlands Avenue
- From July 1, 2013 to August 31, 2013
- Cornell Centre Boulevard, from 16th Avenue to Whites Hill Avenue, will remain open
- Whites Hill Avenue will remain open

Stage 2:

- Reconstruction of Cornell Centre Boulevard, from 16th Avenue to Whites Hill Avenue
- Cornell Centre Boulevard will be closed from 16th Avenue to Whites Hill Avenue
- From September 1, 2013 to October 31, 2013
- Cornell Centre Boulevard, south of Whites Hill Avenue, will be reopened to the public
- Whites Hill Avenue will remain open

At the completion of the reconstruction on November 1, 2013, the re-aligned Cornell Centre Boulevard, from 16th Avenue to Riverlands Avenue, will be reopened to public. The construction of houses on the realigned portion of Cornell Centre Boulevard is projected to be completed in September 2014. At the completion of all building work of this section of road, the realignment will be opened to the public. At such time, the existing Cornell Centre Boulevard will be permanently closed, from 150m south of Shady Oaks Avenue to Riverlands Avenue.

The Developer will conduct a Vibration Monitoring and Building Condition Survey before, during, and after construction. Buildings identified within the zone of influence shown in Attachment C will be notified at the appropriate time.

2. Communication Plan and Notices

The Public Communication Plan for the Project has been prepared by the Developers' Consultant and reviewed by City staff. It includes:

- Written notices to be mailed to residents, school, and local commercial occupants living /working within the area bounded by Bur Oak Avenue to the west, Cornell Rouge Boulevard to the east, Highway 7 to the south, and 16th Avenue to the north. Notices will be sent two weeks prior to the road closure
- Public Notification in the local newspaper
- Communication to agencies having jurisdiction including emergency services, operations, transit authorities, public utilities, and school board
- Advanced road closure and detour route signage on Ninth Line, Bur Oak Avenue, Donald Cousens Parkway, 16th Avenue, Whites Hill Avenue, Riverlands Avenue, and Highway 7. Temporary signs will be erected one (1) week prior to the road closure at key intersections to give motorists advanced warnings

3. Traffic Management Plans

The Traffic Management Plans for Cornell Centre Boulevard have been reviewed by City staff. They provide details of various signage, staging of construction, and details of road closure. Detour routes will be provided via Bur Oak Avenue, Riverlands Avenue, and Donald Cousens Parkway, as illustrated in Attachment B. Approximately 50 signs within the area bounded by Bur Oak Avenue to the west, Cornell Rouge Boulevard to the east, Highway 7 to the south, and 16th Avenue to the north will be erected during both stages of the construction.

4. Conditions for Temporary Closure of Cornell Centre Boulevard

Staff recommend that Cornell Centre Boulevard be closed from 16th Avenue to Riverlands Avenue in two stages, from Monday July 1, 2013 to Friday November 1, 2013 subject to the following conditions:

1. The Developer implements the Traffic Control Plan prepared by Stantec Consulting Ltd. and any revisions as required by the Director of Engineering and York Region;
2. The Developer implements the Public Communication Plan to the satisfaction of the City and includes any revisions as required by staff; and
3. Staff update the City's website to inform residents/businesses of project details, road closures, and contact information.

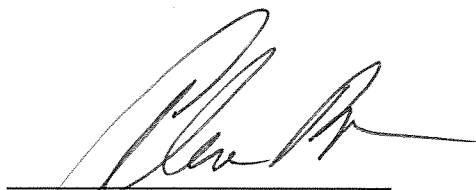
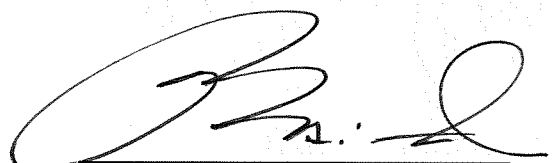
FINANCIAL CONSIDERATIONS AND TEMPLATE:

NIL

BUSINESS UNITS CONSULTED AND AFFECTED:

The Operations Department, Fire, and the By-Law Division of the Corporate Services Commission have reviewed this report and they concur with the recommendations.

RECOMMENDED BY:


Alan Brown, C.E.T.
Director of Engineering
Jim Baird, M.C.I.P., R.P.P.
Commissioner, Development Service

ATTACHMENTS:

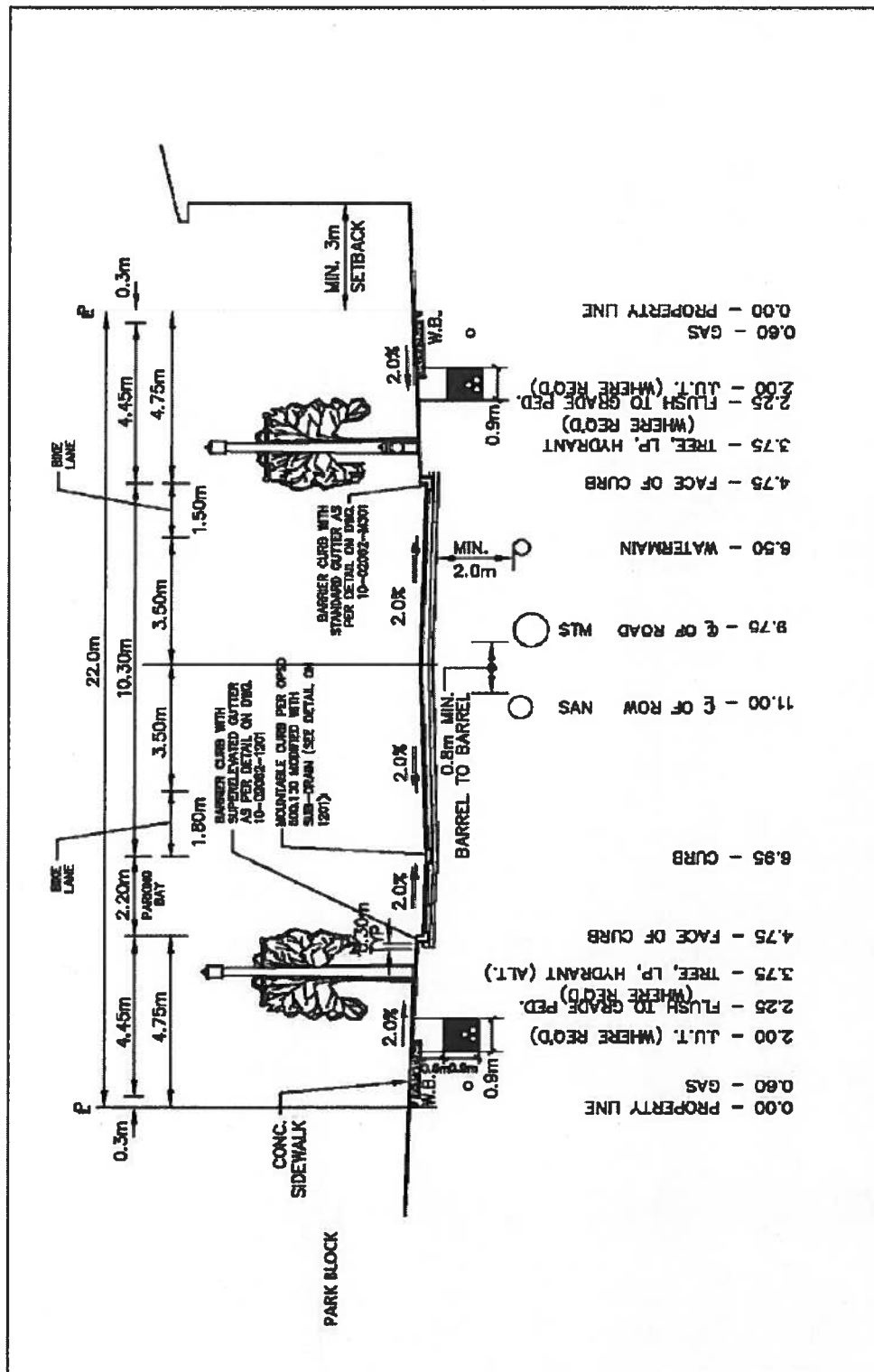
Attachment 'A' – Cross Section of Proposed Cornell Centre Boulevard

Attachment 'B' – Location Plan for the Project – Road Realignment, Staged Construction & Road Closures, Detour Routes

Attachment 'C' – Estimate Vibration Zone of Influence Boundary

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Attachment 'A'
Cross Section of Proposed Cornell Centre Boulevard



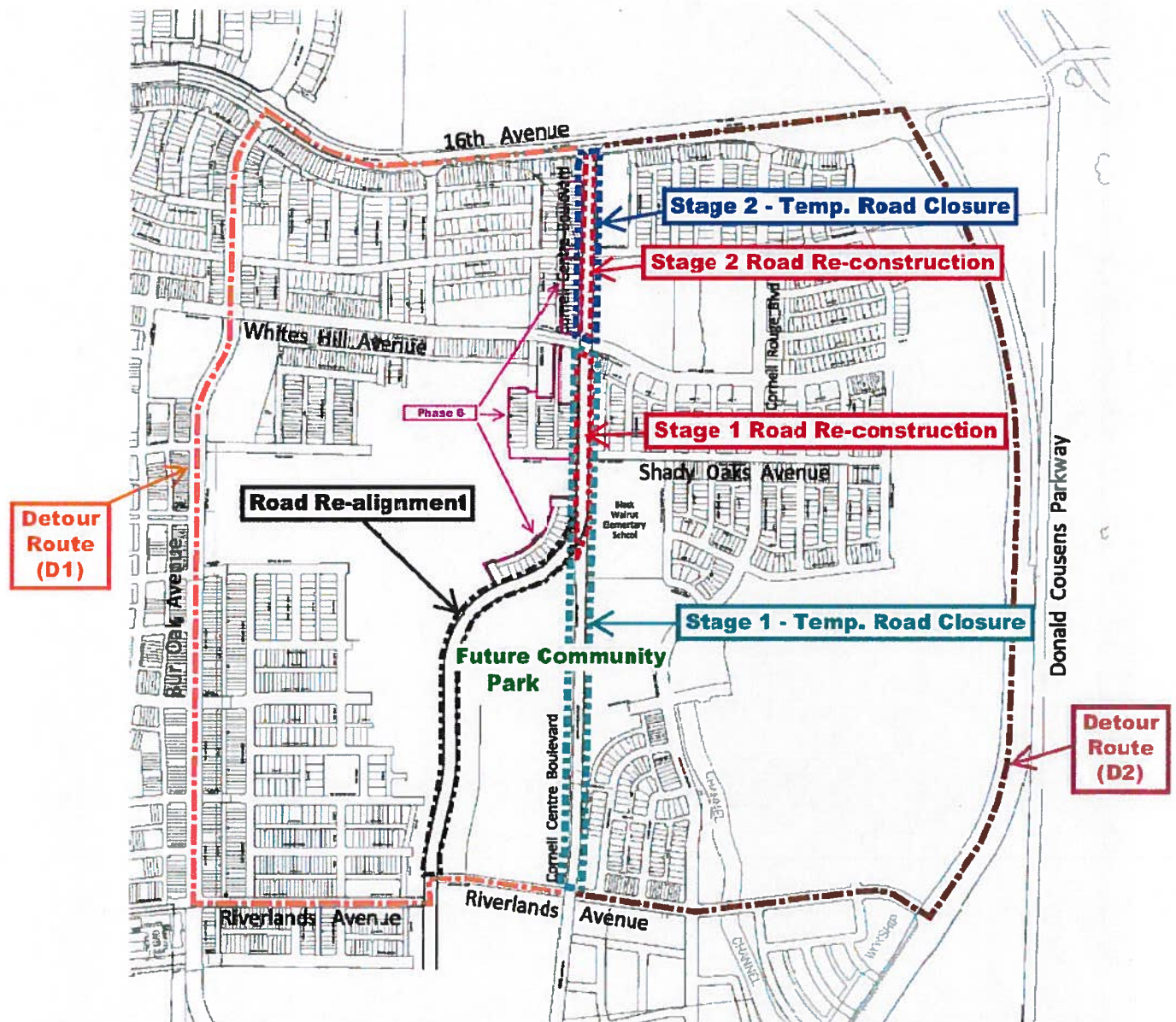
22.0m R.O.W. COLLECTOR ROAD

CORNELL CENTRE BOULEVARD

PARKING PERMITTED 1 SIDE

N.T.S.

Attachment 'B'
Location Plan for the Project
Road Realignment, Staged Construction & Road Closures, Detour Routes



Attachment 'C'
Estimate Vibration Zone of Influence Boundary

