3RD REPORT OF THE

RAPID TRANSIT IMPLEMENTATION WORKING GROUP

Meeting held on January 12, 2017, commencing at 4:32 PM, in Council Chambers, Second Floor, London City Hall.

PRESENT: Councillor P. Squire (Chair), Mayor M. Brown; Councillors, B. Armstrong, J. Helmer, J. Morgan, T. Park and H. L. Usher; S. Rooth, D. Sheppard and E. Southern and J. Martin (Secretary).

ABSENT: Councillors A. Hopkins and P. Hubert.

ALSO PRESENT: Councillor M. van Holst; A. Dunbar, J. M. Fleming, J. Ford, K. Graham, D. MacRae, K. Paleczny, K. Scherr, S. Spring and E. Soldo.

I. CALL TO ORDER

Disclosures of Pecuniary Interest

That it BE NOTED that Councillor J. Morgan disclosed a pecuniary interest in clause 2 of this Report, having to do with Western University consultation, by indicating that he is employed by Western University.

II. SCHEDULED ITEMS

2. Western University Consultation

That it BE NOTED that the Rapid Transit Implementation Working Group received the <u>attached</u> presentation from E. Soldo, Director of Roads and Transportation, with respect to the Western University consultation.

3. Transit Oriented Development

That it BE NOTED that the Rapid Transit Implementation Working Group received the <u>attached</u> presentation from B. Hollingsworth, IBI Group, with respect to transit oriented development.

4. Old East Village Corridor Options

That it BE NOTED that the Rapid Transit Implementation Working Group received the <u>attached</u> presentation from E. Peissel, WSP Group, with respect to the Old East Village corridor options.

5. Business Case Review Update

That it BE NOTED that the Rapid Transit Implementation Working Group received a verbal update from E. Soldo, Director of Roads and Transportation, with respect to the Rapid Transit Business Case review.

III. CONSENT ITEMS

6. 2nd Report of the Rapid Transit Implementation Working Group

That it BE NOTED that the 2nd Report of the Rapid Transit Implementation Working Group, from its meeting held on December 15, 2016, was received.

IV. ITEMS FOR DISCUSSION

None.

V. DEFERRED MATTERS/ADDITIONAL BUSINESS

None.

VI. ADJOURNMENT

The meeting adjourned at 6:28 PM.

NEXT MEETING DATE: February 9, 2017

Preferred Alternative

The Lambton Drive alternative is Western's preferred route as it:

- Provides the highest level of connectivity to existing and future trip generators
- Minimizes impacts to sensitive activities (academia, research, leisure)
- Supports the objectives of a largely vehicle-free core campus while retaining critical access to and through the campus
- Provides a strong opportunity for the creation of a signature transit mall through campus from the iconic gateway on Western Road Could lead to much needed improvements along the southern portion of

Summary Evaluation

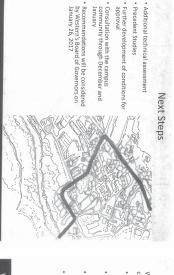
5. Philip Aziz Alternative

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|---|-----------|----------|------------|--------|-------------|
| University Objectives metrics | Wigging | Lamoton | windermere | | Philip Aziz |
| Efficient connection to Downtown | | | | | |
| Legibility of route | Excellent | | | | |
| Impact on research and other labs | 15901 | | | | |
| Potential for mode shift (reduced parking demand) | | | | | |
| Potential to reduce impervious surface | | | | | |
| Impact on pedestrian safety | 100 | (HEIREN) | | | |
| Access to campus destinations | Excellent | | | searo. | |
| Reduced trip generation for new development | State | | | | |
| Intra-campus connectivity potential | | | | | |
| Potential visual impact | | | | | |
| Impact on Western Road | | | | | |

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Preliminary University Conditions

Western has indicated four conditions be met for the BRT to be routed through

- Transit vehicles must share travel lanes through campus to minimize any necessary widening of streets or bridge or affect historic gates.
- Transit streets, stops and other facilities must demonstrate excellence in design and respect the pedestrian-centric priorities of the campus.
- The selection of transit vehicle should eliminate, to the extent possible, noise, wibration or electromagnetic impacts.
- The addition of BRT on campus must support the objective to reduce overall vehicle traffic on campus.

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1. Middlesex Drive Alt

Evaluation Metrics

There are several technical assessment criteria that will be considered, including:

The number of proposed rapid transit stations servicing the campus and the attractiveness of particular station sites.

Technical Assessment Criteria

| Plan Principle/Objective | | Qualitative Evaluation Measure(s) |
|---|-----|---|
| Attract top talent: strengthen the ability of the University to compete in attracting leading faculty and top scholarship students from across | - 1 | Efficiency of connection to the Downtown and other key regional destinations. |
| Canada and the globe. | • | Legibility of route and access to destinations. |
| Lead in Learning: Support leading research and teaching | - | Potential impacts on sensitive research and other activities |
| Promote sustainability: Reduce environmental impacts with regard to transportation-related emissions and stormweter from surface | | Ability to support a mode shift among the university community to reduce vehicle kilometers traveled (VKT). |
| runoff. | | Potential to enable reduction in impervious surface area dedicated to vehicle demand such as travel way widths and surface parking |
| Promote a pedestrian-oriented campus: Support and enable the | - | Potential to negatively impact pedestrian safety |
| reduction or elimination of private vehicle traffic in the core of the campus | | Potential to provide a non-auto alternative to access campus destinations |
| Enable sustainable growth: Support planned campus growth by providing access, especially by non-sulo means | | Potential to reduce vehicle trip generation rates at planned campus expansion sites |
| | | Potential to reduce parking demand |
| Campus connectivity: Strengthen the connection and accessibility between campus precincts. | | Viability to use the proposed alignment to meet intra-campus cornection demands |
| Quality of place: Facility design compliments visual character of the campus and campus landscape | | Potential to negatively impact or degrade elements that contribute to campus identity and pride |
| | | Potential to lead to improvement of Western Road |

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The length of the route from Richmond Street at Huron Street to Western Road at Windermere Road.

The approximate transit travel time along the assessed route assuming a top operating speed of 35 km/hour on internal campus roads.

A sum of all the existing peak transit boardings within 400 m of the stations along the route.

The walk time between the geographic centre of campus (Michrosh Gallery) as identified by the City of London and the clossest rapid transit station on the route.

3. Richmond/ Windermere Alternative

4. Perth Drive Alternative

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Bus Rapid Transit

The City and the university have continued to work towards finding a solution to ensure that existing is ust transit and the proposed RFI proude convenient service to campus while maximizing ridership and service efficiency, and minimizing environmental and social impacts at Western.

They orus alternatives have been identified for

Five route alternatives have been identified for consideration and the City plans to have final routing no later than January 2017. In order to choose the best option, it will be important to understand the potential implications to all activities on campus, including academia, research and leisure. The university is working with the City on a technical assessment of BRT route alternatives. These will be evaluated against objectives of Western's Strategic Plan, Campus Masker Plan and emerging Open Space Plan.



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Background

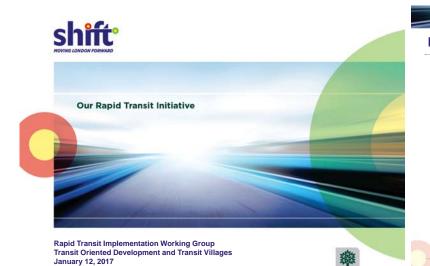
The City of London is completing the second stage of <u>50ff</u>, its public transit planning exercise. <u>54ff</u> courses on rapid mostle, along with verbicular and active transportation, as part of a system that will help London grow and prosper. This stage will develop a detailed design for the preferred rapid transit routes. and provide a plan to build the rapid transit network including how it will be furthered.

In May 2016, the City updated its plan to move away from Light Rail Transit (LRT) to a $\underline{\text{Bus}}$ Rapid Transit (BRT) model.

In June 2016, following consultations with the campus community, Western's Board of Governors unanimously expressed its support for both improved transit in the city and the introduction of rapid transit running to campus. However, the Board did not support LRT routes traversing through campus, or BRT routes traversing through campus if it is conditional to being convertible to LRT in the future.

The Board also stated that the university would complete an open-space-and-landscapeplanning evertise intended, in part, to make the campus a more pedestrian-focused space with limits on evaluate traffic. This exercise, which is underway, will include an assessment of where transit routes should go, as well as the possible construction of transit hubs

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Breaking Down T-O-D

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T =

Higher Order Transit & Transit frequency Orienting
infrastructure for
making pedestrian
connections
between transit &
development

Development featuring a mix of uses & densities



TOD





Our Rapid Transit Initiative



Purpose of Presentation

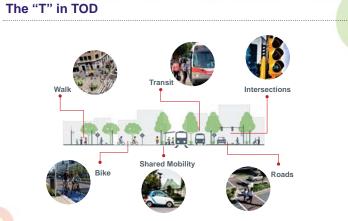
- Highlight opportunities for Transit-Oriented Development in London
- Present high-level concepts for designated Transit Villages
- Present station concepts and precedents





Our Rapid Transit Initiative







Our Rapid Transit Initiative



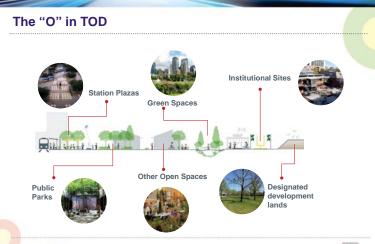
What is Transit Oriented Development?

"Transit-oriented or transit-supportive development means development which is designed to be well connected and integrated with transit systems, helps to make transit use more efficient, comfortable and attractive, provides quality pedestrian amenities to support the walk to and from transit services and generates ongoing demand for transit ridership."

The London Plan







The "D" in TOD TOD Contextual Mixed-Use Infill TOD Beyond 30 years Local Corridor Mixed-Use Infill TOD Major Mixed Use Redevelopment Local Scale Residential Infill **TOD Adjacent Transitional Infill**

Typical Transit Village: The End Goal



shift



London's Transit Villages

The London Plan identifies four transit villages plus the downtown. These are key areas for TOD

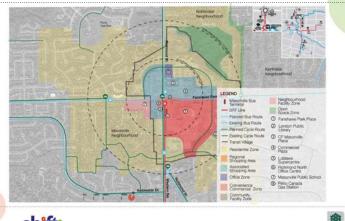
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Masonville Commercial Transit Village



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London's Transit Villages

As outlined in The London Plan, Transit Villages will be:

"exceptionally designed, high-density mixeduse urban neighbourhoods connected by rapid transit to the Downtown and each other. They will be occupied by extensive retail and commercial services and will allow for substantial office spaces, resulting in complete **communities**. Adding to their interest and vitality, Transit Villages will offer entertainment and recreational services as well as public $parkettes, \, plazas \, and \, sitting \, areas. \, All \, of \, this \, will \,$ be tied together with an exceptionally designed, pedestrian-oriented form of development that connects to the centrally located transit station."



Masonville Commercial Transit Village

Opportunities:

- Large surface parking lots represent opportunity for development
- Existing anchor destination
- Potential extension of rapidway north of Fanshawe Park Road
- Street front buildings to animate street and integrate with transit









Oxford and Highbury Transit Village







White Oaks Commercial Transit Village

Opportunities:

- Large surface parking lots represent opportunity for development
- Existing anchor destination
- Potential extension of rapidway south to Highway 401 area park and ride
- Opportunity to improve on existing transit terminal and provide more seamless connections





Oxford and Highbury Transit Village

Opportunities:

- · Planned redevelopment of LPH site
- LPH site has limited constraints and can be designed as "signature" TOD
- Close proximity of Fanshawe College
- Good potential for active connections to neighbourhood



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Wonderland and Oxford Commercial Transit Village



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Our Rapid Transit Initiative



White Oaks Commercial Transit Village







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Wonderland and Oxford Commercial Transit Village

Opportunities:

- Emerging commercial area, which can transform by introducing greater mix of
- Several parcels available for redevelopment
- Strong local transit connections to west, south and north





Transit Stations

The London Plan outlines, within Transit Villages:

- 1. Transit stations will be designed as public places that serve as focal points for the Transit Villages
- 2. The architectural design of transit stations should establish these buildings as public landmarks.
- 3. Transit stations should be designed to include accessible, comfortable waiting areas and safe, convenient and direct routes for pedestrians and cyclists.







Design Precedent: Health Line, Cleveland







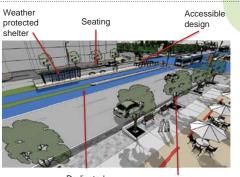
Typical Station Area Concept



Real Time Information



Well-lit and secure



Dedicated rapidways

Adjacent tree canopy





Design Precedent: Swift BRT, Seattle







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Design Precedent: vivaNext, York Region



















Next Steps

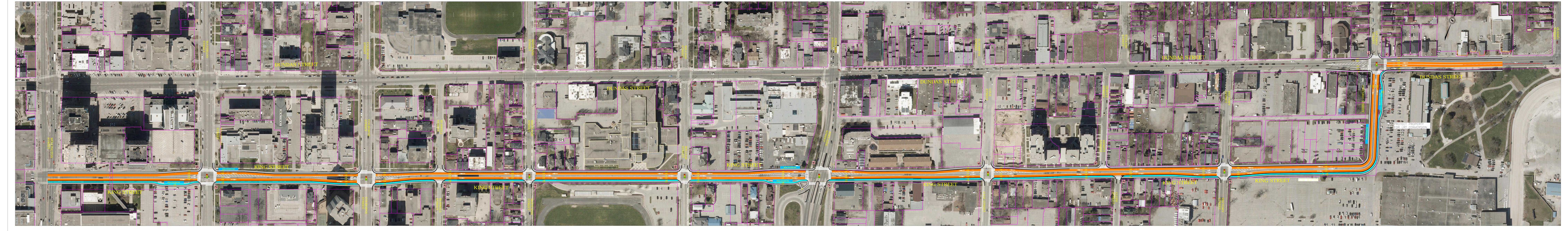
- Assess impacts of design alternatives
 - Community building and revitalization
 - Transportation capacity and mobility
 - Economic development and city building
 - Ease of implementation and operational viability
 - Environmental, property, heritage
- Engage with property owners
- Finalize engineering designs
- Prepare TOD and urban design guidelines





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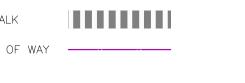








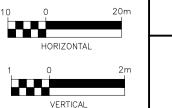










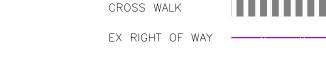


CONCEPTUAL DESIGN LONDON RT
RAPID TRANSIT CORRIDORS ENVIRONMENTAL ASSESSMENT
NORTH AND EAST ROUTE





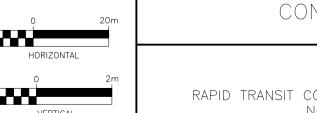




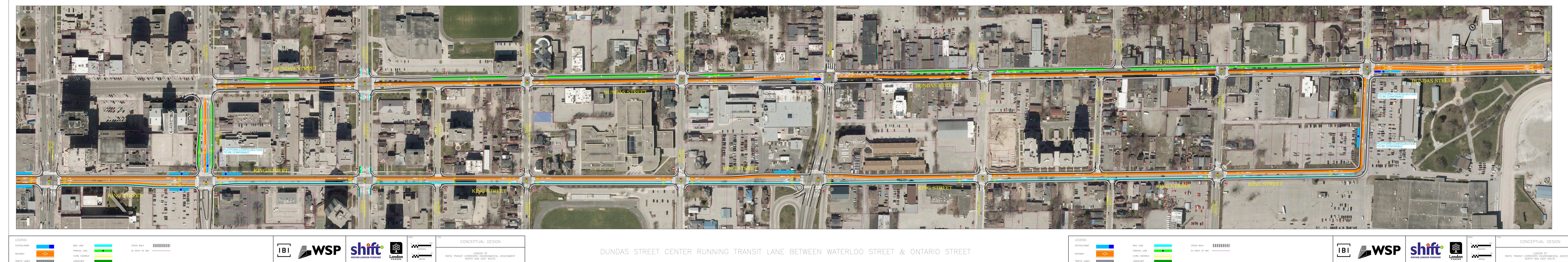








CONCEPTUAL DESIGN LONDON RT
RAPID TRANSIT CORRIDORS ENVIRONMENTAL ASSESSMENT
NORTH AND EAST ROUTE



LONDON RT KAPID TRANSIT CORRIDORS ENVIRONMENTAL ASSESSMENT NORTH AND EAST ROUTE



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NORTH AND EAST ROUTE