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Adelaide Street North Municipal Class Environmental Assessment Study

Presentation to Transportation Advisory Committee

Parsons Inc.

October 22, 2019



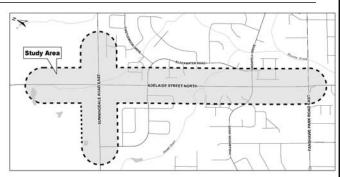
Agenda

- Study Area / Background
- Problem / Opportunity Statement
- Alternative Solutions
- Alternative Design Concepts
- Preferred Design Concept
- Changes to Adelaide Street / Sunningdale Road Intersection
- Preferred Design Concept Potential Environmental Impacts and Mitigation Measures
- Project Timeline

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Study Area / Background

- Study Corridor between Fanshawe Park Road and 350m north of Sunningdale Road East, including Sunningdale Road East from Blackwater Road to Stoney Creek Community Centre Entrance.
- The current (2013) Transportation Master Plan (TMP) has recommended widening of this section of Adelaide Street North from two to four lanes.
- Adelaide Street North and Sunningdale Road East are classified as Civic Boulevards in the London Plan.
- Per the City's Complete Streets Design Manual, Civic Boulevards are intended to accommodate "multimodal travel, with a priority on pedestrian, cycling and transit movements".
- Future subdivision developments are planned north of Sunningdale Road East.
- · "Schedule C" Municipal Class EA.





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Problem / Opportunity Statement

- Based on the recommendations of the City of London's Smart Moves Transportation Master Plan, and confirmed through a corridor traffic analysis undertaken as part of the study, Adelaide Street North, from Fanshawe Park Road East to Sunningdale Road East, has been identified as requiring additional north-south traffic capacity to address future traffic operational deficiencies.
- In addition to addressing traffic capacity requirements, there is also an opportunity to improve the roadway to meet the City's Complete Streets standards which includes incorporating transit, active transportation, and safety initiatives.

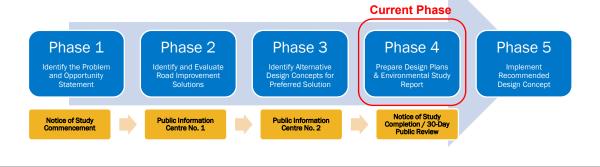




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Study Background

- Study commenced in June 2018.
- · Two Public Information Centres held:
 - PIC#1: November 14, 2018 (55 attendees)
 - PIC#2: June 5, 2019 (28 attendees)
- Currently in Phase 4 Preparation of Preliminary Design Plans and Environmental Study Report.



Alternative Solutions



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Do Nothing

Maintain existing roadway network and provide no changes to Adelaide Street North (forms a baseline for comparison of alternative solutions).



Improve Alternative Routes

Undertake improvements (capacity or operational) on adjacent roads where justified (e.g. Highbury Avenue, Richmond Street).



Limit Development

Restrict development in the surrounding area to projects already underway in order to limit growth.



Operational/Intersection Improvements

Improve existing intersection operations and undertake roadway geometric improvements (roundabouts, traffic signals, through lanes, turn lanes, etc.).



Incorporate Travel Demand Management (TDM) Measures

Introduce TDM measures to reduce or redistribute the travel demand (e.g. carpooling, workplace changes, pricing, etc.)



Provide Additional Lanes

Widen Adelaide Street North with additional lanes to increase traffic capacity and accommodate future growth.

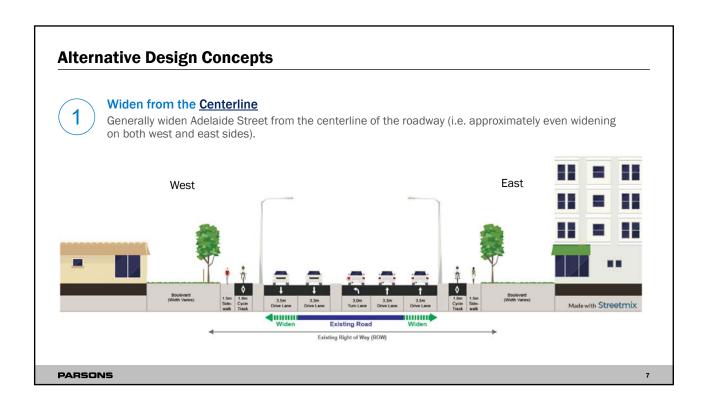


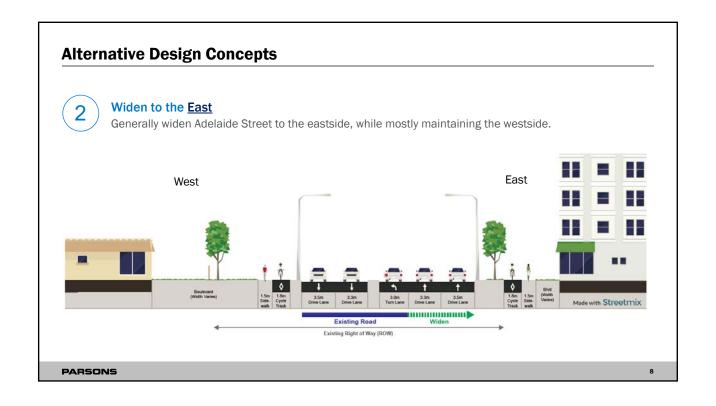


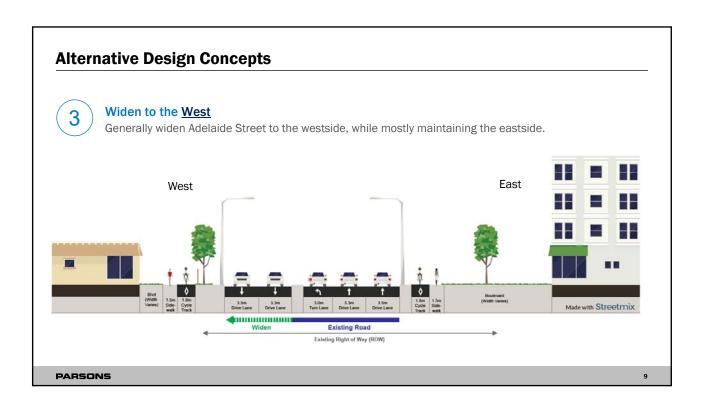
Accommodate Other Travel Modes

Improve existing facilities to encourage active transportation (walking, cycling, etc.) and improve Adelaide Street North/Sunningdale Road East to accommodate existing transit services.

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Evaluation of Alternative Design Concepts - Summary

Widen to the East

Not Recommended. There would be significant property and environmental impacts to the east (Drainage/Impacts to Powell Drain Culvert, Wildlife Habitat, Property, Noise)

Widen to the West

Not Recommended. There would be significant property and environmental impacts to the west (Wildlife Habitat, Property, Noise)

Widen from the Centerline

Recommended. There will be the least impacts overall

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Preferred Alternative - Highlights



Widen from the Centerline

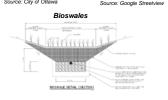
Widen Adelaide Street from the centerline of the roadway (i.e. approximately even widening on both west and east sides).

· Includes:

- √ 3.3 m 3.5m Travel Lanes.
- ✓ 1.8 m Off Road Cycle Tracks, 1.5m 2.0m Sidewalks.
- ✓ Centre Medians.
- Potential Midblock Pedestrian and Cyclist Crossing at Powell Drain.
- ✓ Implementation of left turn lanes at all intersections.
- Implementation of right turn lanes where warranted, including at Fanshawe Park Road East.
- Recommendation for a Wildlife Crossing Culvert near the Powell Drain.
- ✓ Improvements to Powell Drain Culvert to improve flow across Adelaide Street North.
- ✓ Bioswales to accommodate run-off (where feasible).







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Preferred Alternative - Proposed Intersection Controls

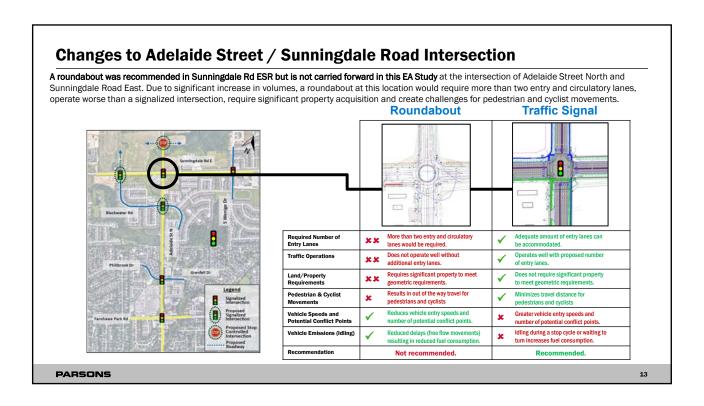
Fanhaw Park Rd Signalized Intersection

Proposed



- New traffic signals are warranted along Blackwater Road at Sunningdale Road East and Adelaide Street North.
- Future east-west collector roads as part of development north of Sunningdale Road would be stopcontrolled when entering onto Adelaide Street north (2-way stop).

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Preferred Design Concept - Potential Environmental Impacts and Mitigation Measures

• A summary of the preliminary project impacts and mitigation measures are provided below:

CATEGORY	IMPACTS	MITIGATION MEASURES
Natural	Vegetation and wildlife removal.	Construction fencing and other design measures to delineate
Environment	Tree removals.	work areas, protect trees and minimize areas of disturbance.
	Disturbance and potential spread of invasive species (Phragmites).	 Implementation and maintenance of erosion and sediment controls.
		 Disturbed areas will be vegetated and/or covered as soon as possible.
		Best Management Practices related to materials storage/stockpiling, equipment fueling and maintenance.
		Management of invasive species prior to the commencement of construction to minimize disturbance and spread.
		Disturbance, clearing or disruption of vegetation within appropriate timing windows to avoid impacts to birds and bats.
		 In-water work to be completed using construction best management practices (e.g. coffer dams) and fall within the MNRF permitted timing window, to avoid impacts to fish during sensitive life stages.

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Potential Environmental Impacts and Mitigation Measures

CATEGORY	IMPACTS	MITIGATION MEASURES
Drainage & Stormwater Management	 Existing flooding issues at Powell Drain. Increased stormwater runoff. Disturbance to groundwater. 	Better culvert maintenance or relocation of existing orifice control at inlet to improve flow across Adelaide Street North. Exploration of Low-Impact Development (LID) measures in detailed design to help improve stormwater quality and quantity. Limiting amount of water to be displaced where possible.
Air Quality	Short term increase in pollutants resulting from construction.	Best management practices during construction and additional tree planting along the corridor.
Noise	Short term impacts due to construction.No significant long-term noise increases	Time of day restrictions during construction and other best management practices to reduce noise levels.
Traffic & Transportation	Impacts to traffic resulting from construction activities.	Development of a Traffic Management Plan prior to construction.
Property	Limited property acquisition required. Some changes to a "right-in, right-out" only access.	• N/A
Cultural Heritage	No impacts to Cultural Heritage resources.	• N/A
Archaeology	No impacts to archaeological resources (no archaeological potential).	• N/A

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Project Timeline - Next Steps

- Confirmation of Recommended Alternative Design Concept;
- Finalization of Environmental Study Report (ESR);
- Council Approval and Notice of Study Completion (January 2020); and
- Construction tentatively planned for 2029 following further stages of design work.

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