



## MEMO

**TO:** Nadia De Santi, Senior Project Manager, Planning, WSP  
**FROM:** Sarah McDonald, P. Eng., Project Manager, Transportation Planning, WSP  
**SUBJECT:** 3861 and 3865 Old Richmond Road, Site Plan Control, Sight Lines  
**DATE:** July 29, 2020

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The sight distances were evaluated based on the guidelines provided in the Transportation Association of Canada's Geometric Design Guide for Canadian Roads, Chapter 9, Intersections (2017). The site distance analysis was conducted using a design speed of 60 km/h. The sight distances provided in the TAC Design Guide for a design speed of 60 km/h are provided in Table 1.

*Table 1. Design Intersection Site Distance for a 60km/h Design Speed (TAC 2017)*

| CASE EVALUATED                                      | STOPPING SIGHT DISTANCE (M) | INTERSECTION SIGHT DISTANCE (M) |
|---|-----------------------------|---------------------------------|
| B1 – Left Turns from the minor road (Stop Control)  | 85m                         | 130m                            |
| B2 – Right Turns from the minor road (Stop Control) | 85m                         | 110m                            |

We completed a horizontal sight distance evaluation assuming that vehicles departing from the site stop before the sidewalk prior to completing their turning maneuver. **The horizontal stopping, right-turn, and left-turn sight distances both north and south of the proposed access all satisfy requirements for a design speed of 60 km/h.** The evaluation figures are provided in **Figure 1** on the next page.

The vertical alignment of Old Richmond Road north and south of the site access is fairly level and poses no vertical sight concerns.

**Prepared By:**

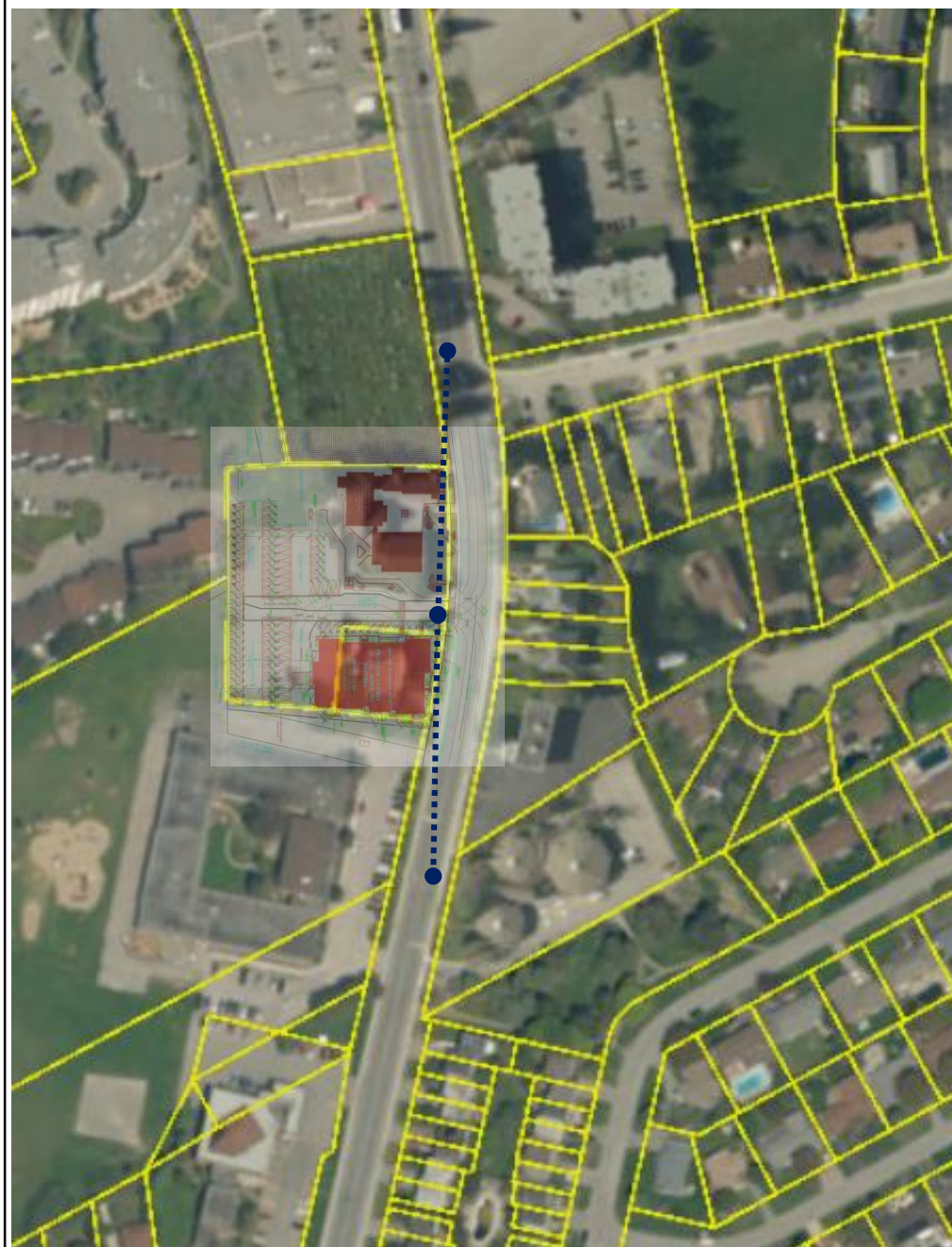
Sarah McDonald, P.Eng.  
Project Manager



3861 and 3865 Old  
Richmond Road

Site Plan

Transportation  
Review



Stopping Sight Distance (85m)



Intersection Sight Distance

**Figure 1. Site  
Distance Review**

*Case B1 & B2  
Left and Right Turns  
from the Minor Road  
(Stop Control)*

Not to Scale

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