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DEPARTMENT OF
PLANNING & ZONING

To: Peter Smiar, P.E.

Date: March 28, 2018

Memorandum

Project #: 58012.00

From: Erica Quallen, EIT

Re: Sara Holbrook Center
Trip Generation Summary

As part of the local permitting process for the proposed expansion of the Sara Holbrook Center, located at 66 North Avenue in Burlington, Vermont, VHB has completed trip generation calculations to estimate the existing and proposed trips generated by the site.

The Proposed Project involves the acquisition of the properties located at 56 North Avenue and 58 North Avenue, removal of the 2 existing residential buildings, and expansion of the existing building and parking area of the Sara Holbrook Center. Trip generation estimates were performed using a combination of the 9th and 10th Editions of the Institute of Transportation Engineers (ITE) Trip Generation Manual¹.

The existing uses in the three lots impacted by this proposed project are described below:

- 66 North Avenue - Sara Holbrook Center – 8 staff members, 44 children
- 56 North Avenue – Residential building with two 2-bedroom apartments
- 58 North Avenue – Residential building with one 1-bedroom apartment and one 2-bedroom apartment

The proposed project will expand the operation at the Sara Holbrook Center to include a total of 14 staff members and 75 children (i.e. a net increase of 6 staff members and 31 children).

The Sara Holbrook Center trip generation estimates were calculated using Land Use Code (LUC) 565: Day Care Center. The existing residential trip estimates were calculated using LUC 221: Multi-Family Housing (Low Rise). The existing, proposed, and net new trips are shown in **Table 1** on the following page. Net new trips were calculated by: 1) subtracting the existing trip generation from the proposed trip generation, and 2) by taking a reduction for non-vehicle trips. The 2017 American Community Survey data shows that over 30% of people in Burlington commute by walking, biking, or taking the bus². For the purpose of this calculation, a conservative reduction of 15% was included to account for people who are working at the Center or dropping off their child by a travel mode other than driving.

¹ *Trip Generation Manual, 9th Edition*. Institute of Transportation Engineers, 2012.

² *Burlington, VT Economy data*. "Towncharts.com – Burlington, VT Economy Data." N.p., December 2017. Web. Accessed 23 March 2018.

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Table 1: Trip Generation Estimates

<i>Peak Period</i>	Proposed Site Generated Trips	Existing Site Generated Trips (15% Active Commuter Reduction Already Applied to Existing)		Active Commuter Reduction (15%)	Net New Trips (Proposed – Existing- Reduction)
AM Peak Hour		Residential	Sara Holbrook		
<i>Entering</i>	33	1	17	5	10
<i>Exiting</i>	30	3	15	4	8
<i>Total</i>	63	4	32	9	18 trips
PM Peak Hour		Residential	Sara Holbrook		
<i>Entering</i>	29	3	15	4	7
<i>Exiting</i>	32	1	16	5	10
<i>Total</i>	61	4	31	9	17 trips

As documented in **Table 1** above, the proposed expansion of the Sara Holbrook Center is anticipated to generate a total of 18 net new morning peak hour trips and 17 evening peak hour trips. VTrans Traffic Impact Study Guidelines identifies the need for a traffic study when a site generates 75 or more trips in a peak hour. This site is well beneath this limit and is therefore not anticipated to have adverse impacts on the adjacent roadway network.