

May 18, 2023

Brian M. Bovee
Bovee Construction Company Inc.
6 Dill Lane
Poughkeepsie, NY 12601

**RE: Trip Generation Addendum
Upton Lake Christian High School Expansion
Clinton Corners, Dutchess County, NY
LaBella Project 2231895**

Dear Mr. Bovee:

LaBella Associates (LaBella) has prepared this Trip Generation Addendum in response to comments received on its Trip Generation Assessment, dated April 21, 2023 for the Upton Lake Christian High School Expansion located at 20 Shepherd's Way in Clinton Corners, Dutchess County, New York. In particular, it was recommended that the trip generation estimates be based on actual traffic data collected for the existing school. The purpose of the addendum is to estimate the traffic volume increase associated with the expansion using traffic count data collected for the existing school.

A. Traffic Counts

Traffic counts were collected by the applicant's representative on Wednesday, May 3, 2023 and Thursday, May 4, 2023 during school dismissal (2:00 – 3:00 p.m.) and arrival (7:25 – 8:25 a.m.) periods. The count data is attached. Table 1 summarizes the volume of traffic entering and exiting the site. It is noted that the volume is representative of the elementary and the high school, that is, the total site traffic. Buses accounted for 4 -5 vehicles of this volume.

Table 1- Upton Lake Christian School Traffic Volume

Both Schools	AM Peak Hour			School Dismissal		
	Enter	Exit	Total	Enter	Exit	Total
Volume ¹	36	23	59	25	26	51

Note 1: Volume expressed as vehicles per hour

B. Trip Generation Estimate

Using the traffic volume data collected and the number of existing students at both schools of 68, a trip rate can be calculated that is specific to the site. Table 2 presents the peak hour trip rates for existing conditions. The "Trips" are equivalent to the traffic volumes of Table 1 and the trip rate is expressed as trips per student. Since the data collected was inclusive of both schools, a separate trip rate for just the high school cannot be calculated.

Using the site-specific trip rates, the trip generation estimates for the proposed high school expansion was calculated and is also shown in Table 2.



Table 2- Upton Lake Christian School Trip Generation Summary

Enrollment	AM Peak Hour			School Dismissal		
	Enter	Exit	Total	Enter	Exit	Total
Existing (68 students – both schools)						
Trips	36	23	59	25	26	51
Trip Rate¹	0.53	0.34	0.87	0.37	0.38	0.75
Proposed w/ High School Expansion (127 students – both schools)						
Trips	67	43	110	47	48	95
Net Increase in Trips	31	20	51	22	22	44

Note 1: Trip rate expressed as trips per student

As seen in Table 2, the proposed expansion will add 51 new trips in the morning peak hour and 44 new trips at school dismissal. This is a minimal amount of additional traffic that will be added to the roadway network and well within the capacity of Salt Point Turnpike to accommodate the increase in trips as presented in the prior assessment. Therefore, the proposed expansion of the Upton Lake Christian High School will not adversely affect the traffic operations on the surrounding roadway network.

C. On-site Queuing

The length of the driveway from Salt Point Turnpike to the proposed parking lot is about 400 feet, enough storage capacity for 16 cars approaching the highway. The low volume of exiting vehicles coupled with the low volume of traffic on Salt Point Turnpike will keep the length of queues to a minimum on the site driveway.

If you have any questions, please contact me at tjohnson@labellapc.com or (518) 266-7369.

Respectfully submitted,

LaBella Associates



Thomas R. Johnson, P.E., PTOE
Senior Transportation Engineer

Attachment

Attachment
Traffic Count Data

Wednesday, May 3

2:00pm - start

Coming into parking lot:

2:20 - car

2:21 - bus, car, van/bus

2:24 - bus

2:32 - car, FedEx, car

2:34 - car, car, car

2:36 - bus

2:39 - car

2:40 - bus

2:41 - car, car

2:43 - car, car

2:47 - car, car, car

2:52 - car, car, tow truck, car

Going out of parking lot:

2:51 - car, car, car, bus, car, van/bus, bus

2:54 - car, car, bus, car, car, bus, car car, car, car, car, car, car, car, car, car, tow truck

2:59 - car, car, car

Stopped - 3:05pm

Thursday, May 4

7:25am - start

Coming into parking lot:

7:26 - car

7:30 - car

7:34 - car, car, car

7:37 - car

7:39 - car, car

7:42 - car

7:44 - car

7:48 - car

7:50 - car

7:52 - bus

7:57 - car, bus, bus, van/bus

8:01 - car, tow truck, car, car, car

8:03 - car

8:04 - car

8:05 - bus

8:06 - car

8:07 - car

8:08 - car

8:10 - car, car, car

8:15 - car
8:16 - car
8:18 - car
8:24 - car, car

Going out of parking lot:

7:44 - car
8:03 - car, car, bus
8:04 - car, car, bus, car, tow truck
8:05 - bus, car, car
8:07 - bus
8:08 - car
8:09 - car, car
8:12 - car
8:15 - car
8:16 - car
8:17 - car
8:20 - car
8:24 - car
8:26 - car

Stopped - 8:30am