

## **Memorandum**

Date: April 21, 2023

To: Ms. Caryn Mlodzianowski – Bohler Engineering

**Re: Proposed Carmax Development – Smithtown Road, Wappinger, NY**

Overall, the Carmax development is projected to be a minimal traffic generator with less than 10 vehicles entering and exiting during the peak hours.

Smithtown Road has one lane in each direction passing the site with a posted speed limit of 30 mph. Smithtown Road is classified as a local urban roadway in the area. Based on 2019 traffic data collected on Smithtown Road between US Route 9 and Osborne Hill Road that was taken from the NYSDOT Traffic Data Viewer website, the roadway carries approximately 3,579 vehicles per day passing the site with a design hourly volume of 326 vehicles and a directional design hourly volume of 244 vehicles.

Based on the directional design hour volume passing the site driveway on Smithtown Road (244 vehicles), assuming a uniform traffic arrival, the average gap between vehicles passing the site would be approximately 15 seconds or more in each direction during the busiest hour. This average gap is well within acceptable design times for a vehicle to turn in or out of the site driveway. The standard gap required is 6-9seconds.

### *Impact on Adjacent Streets*

The proposed development is anticipated to generate less than 10 vehicles entering or exiting the site during peak hours on the adjacent Smithtown Road. The projected peak hour trip generation equals less than 5% of the total peak hour traffic passing the site on Smithtown Road, less than 3% of the total peak hour traffic passing the site on Osborne Hill Road and less than 1% of the total peak hour traffic passing the site on US Route 9. This negligible increase in traffic will not even be noticeable to existing motorists on Smithtown Road.

### *Conclusions*

The traffic generated by the proposed Carmax development is minimal and will have no notable impact on traffic operations on Smithtown Road, Osborne Hill Road or US Route 9. The overall traffic generation is consistent with or less than the existing traffic generation potential of the existing 12,000 SF or retail space that is currently on the site. There are adequate gaps in traffic on Smithtown Road to easily accommodate turning movements into and out of the development and good sight lines in each direction. The overall traffic generated by the development will generally not even be noticeable to existing motorists in the area.

Please let me know if you have any questions or additional concerns.

Prepared by - Gordon Stansbury – GTS Consulting