

SC-461 (Glenn McConnell Parkway) Speed Limit Review

A speed limit review was conducted for the 55 mph speed zone of Glenn McConnell Parkway from Bees Ferry Road to Essex Farms Road to determine if the speed limit should be reduced. This study consisted of a review of land use and development, a collision history analysis, and a radar sample of 100 vehicles each at two separate locations. These elements were reviewed and used in combination to provide a comprehensive overview to determine the appropriate speed limit, with guidance from the Federal Highway Administration (FHWA) analysis program, USLIMITS2.

The speed study was conducted in the 55 mph section of Glenn McConnell Parkway from Bees Ferry Road to Essex Farms Road. Glenn McConnell Parkway is a divided roadway and consists of two twelve-foot travel lanes in each direction. The study section has six intersections, two of which are signalized. A radar sample totaling 100 vehicles was taken at two different locations on both the northbound and southbound approaches within the study zone. The existing speed limit, the 85th percentile speed, and recorded speed ranges are shown in the table below for each approach. The 85th percentile speed is a statistical measure employed by engineers to determine what most prudent drivers find to be an appropriate and comfortable speed. At the time of the review, no pedestrian activity was noted.

	SC-461 Northbound	SC-461 Southbound
Existing Speed Limit	55	55
85 th Percentile Speed	60	59
Recorded Speed Range	47 to 67	48 to 70

A three-year collision history review was conducted from January 2015 to December 2017 using information from the Department of Public Safety database. The analysis revealed that there were a total of 107 reported collisions in the northbound direction and 85 reported collisions in the southbound direction. These collisions were due to motorists' inattention, following too closely, and failing to yield right of way. The collision types as shown in the table below were rear-ends, sideswipes, and left-turns. There were no speed related collisions reported during this time period.

Collision Type	Glenn McConnell Parkway Northbound	Glenn McConnell Parkway Southbound	Totals
Rear-end	80	68	148
Sideswipe	20	10	30
Left-Turn	7	7	14
Totals	107	85	192

Recommendations:

Based on the analysis using the USLIMITS2 program and a collision history review, it is recommended to retain the existing 55 mph speed limit.

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Reviewed by: AT 8/10

Checked by: _____