

**CITY OF ROCHESTER HILLS
DEPARTMENT OF PUBLIC SERVICES**

September 29, 2015

Location: Sheldon Road - Section 2

Type of Study: Regulatory Traffic Control - Speed Limit

Background

A traffic study was performed along Sheldon Road to determine the warranted speed limit, as established by Michigan Manual Uniform Traffic Control Devices (M.M.U.T.C.D) and accepted traffic engineering principles. This study was initiated after completion of Sheldon Road being paved up to Mead Rd.

Sheldon Road is designated as an Urban Collector road. Traffic speed counts were obtained in October 2014, June 2015, and September 2015 to identify the 85th percentile speed. The results of the traffic speed study are summarized below and are attached for your reference.

Traffic			Date of Study		
			<u>Oct-14</u>	<u>Jun-15</u>	<u>Sep-15</u>
<u>Count</u>	<u>Location</u>				
1	#6210 Sheldon Rd	# of Vehicles	2699	2785	4431
		85th % Speed (MPH)	42	44	43
2	South of Hart Middle School				
		# of Vehicles	8549	6555	11894
		85th % Speed (MPH)	33	34	36

The speed data provides varying results between the 2 locations, which may be attributed to the following: 1) At count location #1, motorists are either coming from or approaching toward an unposted speed limit gravel section in Oakland Twp and may be reflected in the higher 85th %; 2) The close proximity of count location #2 to the schools may affect the 85th % due to the lack of free flow traffic during the AM and PM school arrival and dismissal times.

The calculated pro rata 85th % speed between the 2 count locations is **37 MPH**.

Traffic crash data was obtained from the Traffic Improvement Association's website for the period of January 1, 2012 through present and is attached for reference. There were a total of 22 crashes during this timeframe, 8 of which were during icy/wet pavement conditions. Of the 14 remaining during dry weather conditions, 6 were angle/side swipes due to failure to yield and another 6 were rear ends due to unable to stop.

Based on the results of said traffic study, it is recommended to establish a speed limit of **35 mph** for Sheldon Road. A further study may be warranted at such time that Sheldon Road is paved north of Mead Road. Staff will contact the Rochester Community Schools (RCS) regarding the installation of a static reduced school speed zone signage until a cost share agreement can be executed between the City, RCS, and the RCOC for the installation of the LED school speed zone display signs.

Action Requested

Request the Advisory Traffic and Safety Board (ATSB) to support having the TCO No. **SL-18-15** issued and that the ATSB recommend that the City Council approve this TCO until it is rescinded or superseded.

Paul G. Shumejko, P.E., PTOE Transportation Engineer
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