CITY OF ROCHESTER HILLS DEPARTMENT OF PUBLIC SERVICES

June 2, 2008

TRAFFIC CONTROLS MARKETPLACE CIRCLE (SECTION 30)

Background

A traffic study was recently performed along Marketplace Circle to determine the type of regulatory traffic control warranted, as established by Michigan Manual Uniform Traffic Control Devices (M.M.U.T.C.D). This study was initiated after the road has been open to public travel and after adequate development has occurred to allow for an accurate speed count sample.

Marketplace Circle has been designed to be a collector road to accommodate a commercial type land use that serves as a "Ring Road" for multiple shops and restaurants. Traffic speed counts were obtained to identify the 85th percentile speed. The results of the traffic speed study are summarized below and are attached for your reference.

Traffic Count	<u>Location</u>	# of Veh.	85 th percentile
1	East intersection	952	29 MPH
2	Midpoint	280	35 MPH
3	West intersection	325	33 MPH

Due to the higher volumes of traffic at the east intersection, the traffic speeds were averaged on a pro-rata basis as follows:

$$85^{th}$$
 % Speed = ([29mph x 952 veh] + [35mph x 280 veh] + [33mph x 325 veh]) / 1,557 veh = 30.91 mph or 30 mph

Based on the results of said traffic study, it is recommended to establish a speed limit of 30 mph for Marketplace Circle. Staff further recommends that the established speed limit for Marketplace Circle be reassessed in a few years after all of the properties along the road have been fully developed. Also, no traffic crash data was available at this time since the road was only recently opened to public traffic in November of 2007.

Action Requested

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support having the **TCO No. SL-15** issued and that the ATSB recommend that the City Council approve this TCO until it rescinded or superseded.

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

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