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DEPARTMENT OF PUBLIC WORKS
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To: Municipal Services Committee
From: Eric S. Lom, City Traffic Engineer
Date: April 26, 2018
Re: Intersection traffic control at the Marshall Heights Av / Crossing Meadows Ln intersection
Follow-up to a 6-Month Trial

As a follow-up to a citizen concern, the Traffic Section recently initiated a six-month trial period to test the installation of stop signs for northbound/southbound traffic at the intersection of Marshall Heights Avenue and Crossing Meadows Lane (it was previously uncontrolled). This is a four-legged intersection that is located west of Meade Street and north of Evergreen Drive. The land use in this general area is residential.

In our typical intersection control study, we consider traffic volumes, crash history, safe approach speeds, etc. However, the *Manual on Uniform Traffic Control Devices* also states, for the sake of consistency, that intersection control should be installed at uncontrolled intersections which are located in predominantly controlled areas (stops, yields, signals). We have interpreted this to mean that if more than 75% of the four-legged intersections in a particular area (whose boundaries are typically defined by collector or arterial roadways) are controlled, the remaining uncontrolled four-legged intersections should have an appropriate form of control added. Currently, the subject intersection was the only four-legged intersection in this area that had been uncontrolled (prior to the 6-month trial).

The critical approach speed at this intersection (northbound) is relatively low due to the presence of two large pine trees, neither of which are located in the designated vision corners. Based on policy, the measured critical approach speed indicates that stop control is appropriate for northbound/southbound traffic.

The stop control that was implemented during the trial period created a safer environment for drivers. Additionally, we received no feedback from the neighborhood. Based on this, we recommend making the change permanent.

To accomplish this, the following ordinance action is required:

1. **Create:** "Install stop signs on Marshall Heights Avenue at Crossing Meadows Lane"