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DEPARTMENT OF PUBLIC WORKS
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To: Municipal Services Committee
From: Eric Lom, Traffic Engineer
Date: June 17, 2020
Re: Intersection traffic control at the Commercial Street / Summit Street intersection
Follow-Up to Six-Month Trial Period

Based on our annual crash records analysis, the Traffic Section recently reviewed the traffic control at the intersection of Commercial Street and Summit Street, and subsequently initiated a six-month trial period to change from yield control to two-way stop control. This intersection is located three blocks south of Wisconsin Avenue and one block east of Mason Street. The land use in this area is residential.

In a typical intersection control study, we consider traffic volumes, crash history, safe approach speeds, etc. In this case, the estimated entering volume of this intersection is low, at approximately 560 vehicles per day. A review of crash records indicated three crashes for the recent five-year period of 2015 through 2019, resulting in a crash rate that was in the top five worst for yield-controlled intersections in Appleton. The critical approach speed for the intersection was found to be approximately 8 mph due primarily to the home located in the northeast quadrant of the intersection. Both streets are classified as *local*.

While this intersection does not meet the volume threshold for stop control, the critical approach speed is below the standard and the crash history is above the standard for yield control. As such, we recommend maintaining the two-way stop control that was implemented for the trial period.

To accomplish this, the following ordinance action is required:

1. **Create:** "Install Stop signs on Commercial Street at Summit Street."