



DEPARTMENT OF PUBLIC WORKS

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## MEMO

TO: CEA Review Committee

FROM: Erick Cardew, Operations Foreman

DATE: March 31, 2014

SUBJECT: Request to upgrade sweeper #111 when replaced in 2015

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The Department of Public Works is requesting permission to upgrade sweeper #111 with a second gutter broom when it is replaced in 2015.

Sweeper #111 is a mechanical sweeper, and it is up for replacement in 2015. Currently, neither of our two mechanical sweepers (#110 & #111) have gutter brooms on both sides of them. Having one gutter broom on the right side of the unit was thought to be sufficient, but after reviewing the street sweeping process in its entirety, we have realized that there is a need to have gutter brooms on both sides of our sweepers.

For traditional residential streets with one lane of traffic in each direction there are few issues with having one gutter broom on the right side of the unit. However, streets that have curbed islands, medians or roundabouts pose situations that need to be addressed. For example, sweeping Meadow Grove Blvd. currently requires a sweeper to travel against the flow of traffic while sweeping next to the island/median because there isn't a broom on the left side of the unit. This same situation applies to every roundabout in the City when we are sweeping the inside curb of the roundabout. The sweeper must travel against the flow of traffic to sweep the inside gutter. The traffic control standards require traffic control for each of the incoming lanes of traffic when sweeping against the flow of traffic. This means that the three (3) other sweepers need to leave their assigned route and be onsite to assist when sweeping a roundabout and one additional sweeper on other City streets.

Upgrading sweeper #111 to include a gutter broom on both sides will allow for this unit to sweep with traffic and therefore eliminating the need for additional sweepers to leave their route to help with traffic control, which will greatly improve efficiency. Also, this additional gutter broom will improve safety for the sweepers and motorists as there will no longer be a need to sweep against the flow of traffic.

The estimated additional cost to upgrade sweeper #111 is approximately \$6,500. If approved, the additional cost for the upgrade will be included in the Public Works Department budget request for 2015.

Thank you for your consideration in this matter.