



CITY OF WAUKESHA

Administration

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Committee: Board of Public Works	Date: 10/17/2019
Common Council Item Number: ID#19-1388	Date:
Submitted By: Fred Abadi, Public Works Director	City Administrator Approval: Kevin Lahner, City Administrator
Finance Department Review: Rich Abbott, Finance Director	City Attorney's Office Review: Brian Running, City Attorney
Subject: Westside Pump Station Consolidation Economic Analysis and Project Update.	

Details:

Between 2008 and 2011, the City contracted with Donohue & Associates to create a sanitary sewer master plan to improve the system's capacity, efficiency, and integrity. In addition to evaluating the existing system, the plan also examined the potential to eliminate several existing pump stations with new gravity interceptor sewers serving the south/southeast and western portions of the City.

In 2012, AECOM completed a detailed cost analysis of the proposed gravity interceptor routes to determine the cost feasibility of constructing interceptor sewers versus maintaining the system status quo. The cost analysis showed that the elimination of all the eight pump stations on the west side was not cost feasible as one project. It was recommended to maintain or upgrade the eight stations of the west side which included: Fiddler's Creek, Madison Street, Summit Avenue, and Coneview pump stations among others.

In 2015, plans were being developed for the upgrades and flood protection for the Summit Avenue Pump Station identified in the master plan. Due to the high estimated costs for the upgrades required, relocation of the station was considered but was determined to not be feasible. Going back to the original master plan, elimination was considered. Donohue & Associates was hired to complete an analysis of the current and ultimate service areas of the four stations and determine if they could be consolidated into one by transferring the flow to the station along Madison St. The result of that analysis is that the project was feasible.

In 2019, Donohue & Associates was hired to prepare plans and specifications for the project. Part of their scope was to prepare an updated cost analysis. The updated cost analysis still shows that the elimination of the three stations by installing an interceptor sewer and updating one pump station is still the long cost-effective solution. The cost of the consolidation versus maintaining the four separate pump stations crosses the breakeven point at roughly year 27. With the long life expectancy of an interceptor sewer versus pump stations, the consolidation is the recommended route.

Options & Alternatives:

Financial Remarks:

Executive Recommendation:

