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**City of Pompano Beach
UTILITIES TREATMENT PLANT**

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MEMORANDUM NO. 16 - 35

DATE: July 8, 2016

TO: Otis Thomas, General Services Director

FROM: Phil Hyer, Utilities Treatment Plants Superintendent *PH*

C: A. Randolph Brown, Utilities Director *ARB*
Donovan Evans, Utilities Maintenance Supervisor

SUBJECT: Sole Source Justification for Upgrade of Data Flow Telemetry System

The Data Flow Systems telemetry (radio) communication system is used by the Water Treatment Plant to control and monitor remote station functions throughout the City. These remote stations include potable wells, emergency power generators and Indian Mound potable water ground storage tank and pumping station.

This Data Flow Systems telemetry system is a proprietary system which was first installed for the western wells in 1983- 84. It was expanded and upgraded in the in the early 1990's for additional western wells, with the last expansion in 2002 during the Indian Mound station rehabilitation project.

The present Data Flow system for Utilities controls and monitors 78 wastewater lift stations, 10 potable wells, 3 emergency power generators and Indian Mound potable ground storage tank and pump station. This system poles (scans) one station at a time. Due to the number of stations and the age of the hardware, poling times can vary from two minutes to ten minutes or more. This large variance in poling time is unacceptable when monitoring potable water stations.

Data Flow Systems has proposed a solution where the Water Plant stations would be partitioned and upgraded to the latest hardware and software versions. This will reduce poling times, increase operational efficiency, equipment reliability and ensure regulatory compliance.

All hardware and software to be used in this upgrade are manufactured only by Data Flow. They are the only providers of support for this proprietary system. Data Flow Systems has been approved as a sole source parts provider for radio telemetry equipment for the Utilities Sewer Pumping Department in March of this year.

Having Data Flow Systems perform the installation of this upgrade will ensure the proper functionality and a timely completion of this project. Utility staff requests a sole source bid waiver for Data Flow Systems to perform the scope of work as outlined in their proposal. Funding is available and will be expensed, if approved, to the Water Plant Maintenance CIP # 05-886 420-7264-533.65-11 account and 2015-2016 Budgeted Capital Outlay account # 412-3320-533.64-40.