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**City of Pompano Beach
UTILITIES TREATMENT PLANT**

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MEMORANDUM NO. 17 – 10

DATE: February 27, 2017

TO: Gregory Harrison, City Manager

VIA: A. Randolph Brown, Utilities Director *AB*

C: Otis Thomas, General Services Director

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

SUBJECT: McCafferty Brinson Work Authorization No. 6

The Water Treatment is seeking to replace membrane elements in our 10 million gallon per day nanofiltration (NF) process. McCafferty Brinson Consulting has developed design specifications for the desired elements.

Pilot testing will be required to pre-qualify acceptable membrane elements for replacement. The City is currently constructing a new pilot test unit to test membrane elements from two manufacturers. This pilot plant is required to be permitted by Broward County Health Department.

Once elements are prequalified to meet the design specifications, staff is interested in additional pilot testing to evaluate chemical pretreatment options for our NF process. This would evaluate chemical pretreatment schemes to reduce long term chemical usage rates and associated operating costs.

McCafferty Brinson Consulting Work Authorization No. 6 is for professional engineering services to obtain permitting for our new pilot plant and to provide engineering support during initial pilot testing for NF element replacement prequalification and additional pilot testing for chemical pretreatment evaluation.

These services will be rendered in accordance with the terms and conditions of the Agreement for Consulting/Professional Services between the City of Pompano Beach and McCafferty Brinson Consulting, LLC dated January 19, 2016 and approved by City Ordinance No. 2016-26.

The cost expenditure for Work Authorization No.6 is \$49,200. Funding for these services will be expensed to the following Utilities Water Treatment Membrane Element Replacement CIP 08-952 account line # 420-7329-533. 65-03. Utilities staff recommends Commission approval of McCafferty Brinson Consulting Work Authorization No.6.