

Request for City Council Committee Action From the Department of Public Works

Date:May 16, 2006To:Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee

Subject: RFP for Engineering Services for the Design and Construction of the Fridley Membrane Filtration Plant

Recommendation:

Authorize distribution of a Request For Proposals for Engineering Services for the Design and Construction of the Fridley Membrane Filtration Plant. Requests for proposals will be distributed upon approval of the Permanent Review Committee. Funds are available within the project budget (Water 7400/950/9515/C520002).

Previous Directives:

- On September 23, 2005, the City Council authorized agreements with up to five qualified equipment manufacturers to conduct performance testing of ultrafiltration membrane pilotscale systems for the Fridley Membrane Filtration Plant. The stipend for testing was \$10,000 per system.
- Several actions related to the Membrane Filtration Plant in Columbia Heights.

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Dale Folen, P.E. Project Manager, ext. 4908

Approved by:

Klara A. Fabry, P.E., City Engineer, Director of Public Works

Presenters: Dale A. Folen, P.E., Professional Engineer, Engineering Services

 Financial Impact (Check those that apply)

 ______X___No financial impact - or - Action is within current department budget.

 ______(If checked, go directly to Background/Supporting Information)

 ______Action requires an appropriation increase to the Capital Budget

 ______Action requires an appropriation increase to the Operating Budget

 ______Action provides increased revenue for appropriation increase

 ______Action requires use of contingency or reserves

 _______Other financial impact (Explain):

 _______Request provided to the Budget Office when provided to the Committee Coordinator

 Permanent Review Committee (PRC)
 Approval
 X_______Not applicable
 X_______

 Policy review Group (PRG)
 Approval
 _________Not applicable
 X________

Financial Impact (Check those that apply)

- X No financial impact or Action is within current department budget (If checked, go directly to Background/Supporting Information)
- ____ Action requires an appropriation increase to the Capital Budget
- ____ Action requires an appropriation increase to the Operating Budget
- ____ Action provides increased revenue for appropriation increase
- ____ Action requires use of contingency or reserves
- <u>X</u> Business Plan <u>X</u> Action is within the plan. <u>Action requires a change to plan.</u>
- ____ Other financial impact (Explain):

Community Impact

Neighborhood Notification: Not Applicable City Goals: Maintain the physical infrastructure to ensure a healthy, vital and safe city Comprehensive Plan: Not Applicable Zoning Code: Not Applicable

Background/Supporting Information:

The City of Minneapolis Capital Improvement Plan includes building a new 95 million gallon per day (mgd) Water Treatment Plant using Ultrafiltration Membranes as the treatment technology. This proposed plant, called the Fridley Membrane Filtration Plant (FMFP) will be connected to the existing Fridley Filtration Plant (FFP) which was mostly constructed in 1925.

Public Works, with the technical assistance of consultants, conducted a treatment feasibility study for the entire water supply and treatment system. The team recommended the construction of two new membrane filtration plants, one at Columbia Heights Filtration Plant site, and the second near the existing FFP site. The recommendation was reviewed by a Value Engineering study (conducted by experts from six top environmental engineering consults), and a Citizens Advisory Committee (including Minneapolis residents, state health experts, and suburban customers). All concurred with the selection of the proposed membrane filtration technology.

The project is being done in phases. Phase One was performance testing and Procurement of membrane equipment for the Membrane Filtration Plant at Columbia Heights (CHMFP). Phase Two was the design and construction of the CHMFP building and piping system to house and operate the UF equipment. These phases were completed in 2005.

Phase Three, currently underway, is the procurement of membrane equipment for FMFP at Fridley. This phase includes 9 months of performance testing for the three bidders to evaluate membrane capacity, operational efficiency, life-cycle costs, and design parameters of each manufacturer's membrane system. The performance testing will be completed in June 2006, at which time the contract for the membrane equipment will be awarded.

Phase Four (the current phase) is the design and construction of the FMFP building, piping, and ancillary systems to house and operate the UF equipment. This current action is to issue an RFP to select a Design Engineer for the engineering services for the design and construction of the FMFP building. It is intended the design to be complete in 2008 with construction of the building then commencing.

Cc: David Ybarra, Assistant Director, Purchasing

____ Request provided to department's Finance Dept. contact when provided to the Committee Coordinator