



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

Date: December 14, 2004
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral to: Honorable Barbara Johnson, Chair Ways & Means/Budget Committee
Subject: **Amendment #1 to Contract with Adolfson & Peterson Construction for Columbia Heights Membrane Filtration Plant**

Recommendation:

1. Authorize execution of amendment to contract with Adolfson and Peterson increasing the contract by \$1,453,104 for Change Orders #1, #2, and #3, for a total contract price of \$35,756,104 (an increase of 4.2% over the original bid price), and extending the time period until completion. Funds are available within the project budget (7400/ 950/ 9515/ C5200023).

Previous Directives:

- On November 21, 2001, the City Council authorized preparation of an agreement with Black & Veatch for engineering and architectural services for design and construction phase services for the Columbia Heights Membrane Filtration Plant.
- On November 21, 2001, the City Council accepted the bid of Ionics, Inc. for this project (O.P. #5549), and authorized the development of the original agreement for this project.
- On July 11, 2003 the Council accepted the low bid of Adolfson & Peterson, Inc in the amount of \$33,858,000 for membrane filtration plant at Columbia Heights (O.P. #6074).
- On August 22, 2003, the City Council authorized the execution of amendment to contract with Adolfson and Peterson increasing the contract by a maximum of \$445,000 for removal of buried debris at site including asbestos-containing materials.

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

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

Presenters: Adam J. Kramer, P.E., Director, Water Works

Financial Impact (Check those that apply)

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

Background/Supporting Information

The Public Works Capital Improvement Plan includes building a new 70 million gallon per day Water Treatment Plant using ultrafiltration membranes as the treatment technology. This new plant, called the Columbia Heights Membrane Filtration Plant (CHMFP) will replace the existing Columbia Heights Filtration Plant, which was mostly constructed in the period from 1913 to 1919. The primary objective of the overall plan is to provide physical removal of pathogenic microorganisms and improve the quality of water delivered to the citizens of Minneapolis.

Current Request

Shortly after the earthwork began for the CHMFP, the Contractor found a suspicious looking material buried under the surface of the site. Several samples of this material were found to contain asbestos. A previous Council action authorized \$445,000 for the removal of this hazardous material. The actual (final) removal cost was determined to be \$384,914, based on unit prices and the volume of material found. The contract amendment anticipated by the previous Council action was not executed individually, but will be combined with the current amendment.

Change Order #1 includes the asbestos removal costs, noted above, costs of importing suitable fill material due to the large volume of contaminated soil removed, and costs of winter construction work due to project delays in the removal. This Change Order also included some changes to the electrical system, and an access manhole for future maintenance of a large water service valve. Since the Council has authorized \$ 445,000 previously (but was never executed), we request an additional \$ 370,882 to cover Change Order #1 with the total cost \$815,882.

Change Order #2 includes 21 specific items of changes or project clarifications. These included changes to the storm water pond and site configuration to accommodate a neighborhood concern, and coordination with the scope of the ultrafiltration manufacturer's equipment. It also included conduit embedded into the floors and walls for a future security system, some deductions to simplify the interior finishes, and several other small to medium sized issues. The total cost of Change Order #2 is \$ 431,416.

Change Order #3 includes 50 specific items of changes or project clarifications. These included further changes to coordinate with the ultrafiltration manufacturer's equipment, and changes to allow operational flexibility that was found necessary during pilot plant operations. It also included some safety and security modifications, and several other small to medium sized issues. The total cost of Change Order #3 is \$ 650,806.

The cost for these three Change Orders amount to about 4.2 percent of the original bid price, and can be paid for by contingency funds in overall project budget.

C: Dale A. Folen, P.E., Professional Engineer
David Ybarra, Assistant Director, Purchasing