

FINANCIAL IMPACT STATEMENT
For Council Action Items
(Use this form for Ordinances and Resolutions)
(Deliver original to Financial Planning Division. Retain copy.)

1. Name of Initiator Scott Gibson	2. Telephone Number 503-823-7615	3. Bureau/Office/Dept. Environmental Services
4a. To be filed (date) January 6, 2010	4b. Calendar (Check One) Regular Consent 4/5ths [X] [] []	5. Date Submitted to FPD Budget Analyst:

1) Legislation Title:

Amend contract with Brown and Caldwell for additional work and compensation for the Fanno Basin pump station pressure main – Multnomah Section, Project No. E08294 (Ordinance, Amend Contract No. 37106)

2) Purpose of the Proposed Legislation:

To authorize the Commissioner of Public Affairs and Auditor to increase the contract amount of amended contract No. 37106 with Brown and Caldwell for the purpose described in Section 1, in the amount of \$881,379.

3) Revenue:

Will this legislation generate or reduce current or future revenue coming to the City? If so, by how much? If new revenue is generated identify the source.

No.

4) Expense:

What are the costs to the City as a result of this legislation? Include costs in the current fiscal year as well as costs in future years. If the action is related to a grant or contract include the local contribution or match required.

The estimated cost of this contract amendment is \$881,379. Funds are available in the Sewer System Operating Fund, FY 2010 Budget, Bureau of Environmental Services, Projects E08294, E09050, E09051, E09052, and E09168.

The level of confidence in the negotiated cost for the proposed amendment 5 to contract No. 37106 with Brown and Caldwell is high. Exhibit A in the amendment contains a detailed description of the scope of the professional services to be provided, with negotiated budget amounts assigned to each specific task included in the scope of work.

5) Staffing Requirements:

a) Will any positions be created, eliminated or re-classified in the current year as a result of this legislation? *If new positions are created include whether they will be part-time, full-time, limited term or permanent positions. If the position is limited term, indicate the end of the term.*

No.

b) Will positions be created or eliminated in *future years* as a result of this legislation?

No.

6) Change in Appropriations: Budget changes for the current year must go through the BMP Process. This section may only be use with prior permission of your OMF analyst for exceptions.

Reflect the dollar amount to be appropriated by this legislation. Include the appropriate center codes and accounts to be used by Central Accounting. Indicate "new" in Center Code column if new center needs to be created. Use additional space if needed.

Fund	Center Code	Account	Amount	Project Fund	Project No.

WFR
 ELL
 Demand
 Dean Marriott, Director, Bureau of Environmental Services

APPROPRIATION UNIT HEAD (Typed name and signature)



CITY OF PORTLAND ENVIRONMENTAL SERVICES



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204 ■ Dan Saltzman, Commissioner ■ Dean Marriott, Director

City Council
Agenda Item
Staff Supplemental Report

TO: Commissioner Dan Saltzman
THROUGH: Matt Grumm or Amy Trieu

FROM: Scott Gibson, Principal Engineer BES Design Services Division

Will FG

DATE: December 4, 2009

RE: Authorization to amend contract No. 37106 with Brown and Caldwell for additional work and compensation for the Fanno Basin pump station pressure main – Multnomah Section, Project No. E08294 (Ordinance, Amend Contract No. 37106)

Requested Council Hearing Date: January 6, 2010

I. RECOMMENDATION

Amend contract No. 37106 with Brown and Caldwell for additional work and compensation for the Fanno Basin pump station pressure main – Multnomah Section, Project No. E08294.

II. BACKGROUND

The Fanno Basin (FABA) pump station located at 6895 SW 86th Ave. was commissioned in May 2000, and replaced five older wastewater pump stations in the Fanno Basin. The FABA pump station receives flow from the Fanno Interceptor sewer and conveys the wastewater through an approximately 16,700-foot long, nominal 30-inch diameter pressure line to a discharge structure located at SW 31st Ave. & SW Multnomah Blvd. where the flow enters the City of Portland's sewer system to be delivered to the Columbia Boulevard Wastewater Treatment Plant (CBWTP).

The FABA pressure line was installed under two separate construction contracts, with the lower, Garden Home Section consisting of approximately 6,700-lf of 32-inch O.D. DR 11 and DR 13.5 HDPE pipe, and the upper, Multnomah Section consisting of approximately 10,000-lf of 30-inch nominal DR 32.5 and DR 41 PVC pipe.

The Multnomah section of the Fanno Basin pump station pressure main experienced a point failure on October 4, 2005 that occurred near the intersection of SW 69th and Railroad Ave. Subsequent engineering investigations and hydraulic modeling of the pressure main system have concluded that the wall thickness of the existing pipe cannot withstand the reoccurring operating surge pressures over the intended 50-year service life of the facility, and recommended total replacement of the Multnomah section.

More recent flow studies and basin modeling have been conducted by the BES Systems Analysis section. These studies showed that the firm pumping capacity of the FABA pump station needs to be expanded from its current level of 24-cubic feet per second (cfs) to up to approximately 40-45-cfs. BES has established Primary Project E09045 FANNO BASIN SYSTEM IMPROVEMENTS to manage and track the various secondary projects that are needed to address known deficiencies in the FABA pump station and pressure line system. B&C is the Engineer of Record for five of the secondary projects under Contract No. 37106:

- Project E08294 FABA Pump Station Force Main: Multnomah Section Replacement is required to replace a single 30-inch polyvinyl chloride pressure line, which studies project will fail prematurely from fatigue damages, with two parallel ductile iron pipe pressure mains to provide additional 16-21-cfs flow capacity and to achieve a minimum 50-year service life for the force main.
- Project E09050 FABA Surge Tanks is required to provide long term reliability and to protect the planned parallel pressure line, valves and pumping equipment from damage due to pressure transient conditions in the force main system during normal operations, and during power failure events.
- Project E09051 FABA Pump Station Expansion is required to add an additional 16-21-cfs pumping capacity at the FABA pump station that flow monitoring and system modeling show is needed to capture and convey peak influent flows at the FABA pump station during a 5-year storm event in the Fanno Basin system.
- Project E09052 Burlingame Trunk Sewer Improvements is required to provide additional flow capacity in the existing Burlingame trunk sewer that receives flow from the FABA pump station force main system. Investigations by BES have demonstrated that a portion of the 30-inch Burlingame trunk sewer system in SW Multnomah Blvd must be replaced with 48-inch pipe, and an additional reach lined with a cast in place pipe (CIPP) pipe liner system to the east side of I-5 to adequately convey the projected peak flows.
- Project E09168 Multnomah Stormwater Improvements is required to design and build or improve twelve storm water management facilities along the alignment of the Multnomah Section of the FABA pressure line.

The purpose of this contract amendment is to clarify the scope of work and budget requirements specific project tasks for each of the secondary projects for which B&C is the Engineer of Record, and to authorize additional work and compensation as follows:

E08294 FABA Pump Station Force Main

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|----------|--|
| Task 1.0 | B&C will continue to manage and direct the consultant project team. |
| Task 4.0 | Add public outreach services to support E09052 Burlingame Trunk Sewer Improvements. |
| Task 5.0 | B&C produced several alternate sets of plan and profile drawings for the proposed pressure line replacement in support of BES proposals to the Portland Water Bureau (PWB) for variances to the separation requirements of the Oregon Administrative Rules (OAR) 333-61-0050, and OAR 340-052 Appendix A. The purpose of the OAR variance proposals was to decrease the construction cost of the project, increase |

construction production while maintaining adequate separation between the existing water mains and the proposed sewer pressure lines for the protection of the public water supply.

The additional effort includes the preparation of additional drawings needed for a new force main discharge structure and appurtenances located at SW 31st & SW Multnomah Blvd.

- Task 7.0 Establish a scope of work and budget to provide services during the construction of the FABA pump station force main replacement.
- Task 8.0 Establish a scope of work and for Project Closeout Assistance primarily to provide documentation and certification to DEQ that the force main replacement project was constructed in substantial conformance with the approved contract documents.

E09050 FABA Surge Tanks

- Task 1.0 Establish a scope of work and budget to provide project management for activities directly related to the design of the proposed FABA surge tanks facility.
- Task 4.0 B&C provided professional services, technical memoranda, and engineering studies to support a Value Engineering workshop that was conducted at the direction of BES to evaluate the preliminary design of the planned surge tanks, and appurtenant facilities.
- Task 5.0 Additional effort was required to evaluate and incorporate the appropriate VE workshop recommendations in the 30% design package, and to evaluate site grading options with respect to work within the 100-year floodplain.
- Task 6.0 Additional effort was required to incorporate floodplain mitigation elements related to site grading in the 60% design review package.
- Task 9.0 Establish a scope of work and budget to provide services during the bid phase of the project.
- Task 10.0 Establish a scope of work and budget to provide services during the construction of the FABA Surge Tanks facility.
- Task 11.0 Establish a scope of work and budget to provide project closeout assistance including the preparation of an operation and maintenance manual, and certification to DEQ that the FABA Surge Tanks project was constructed in substantial conformance with the approved contract documents.

E09051 FABA Pump Station Expansion

- Task 6.0 Reallocated a portion of the budget for this task to E08294 for preliminary architectural design services that were required to prepare materials needed for public meeting presentations.
- Task 7.0 Additional effort is required to continue and complete floodplain restoration design and permitting, which needs to include and address the impacts of all work that is planned on the FABA pump station site.
- Task 8.0 This task is being added for legal assistance in the preparation of the land use review application, and to respond to issues that are anticipated to be

critical to obtaining land use approval from Washington County for the work.

E9052 Burlingame Trunk Sewer Improvements

Task 1.0 Establish a scope of work and budget to provide project management for activities directly related to the design of the proposed Burlingame Trunk Sewer Improvements.

Task 9.0 B&C's scope of work is being expanded to include the evaluation and design for the installation of CIPP lining in the existing Burlingame trunk sewer crossing below Interstate 5.

Task 11.0 Establish a scope of work and budget to provide services during the bid phase of the project.

Task 12.0 Establish a scope of work and budget to provide services during the construction of the Burlingame Trunk Sewer Improvements.

E09168 Multnomah Stormwater Improvements

Task 2.0 Additional effort is required to provide a landscape architect to prepare planting plans, and support the design of selected stormwater improvement sites.

Additional Work Pending

There is anticipated future work on two of the Fanno Basin System Improvement projects that will need to be negotiated at a later date, but that is not yet sufficiently developed well enough to be definitively scoped and budgeted. Any additional work will only be authorized by written contract amendments under the City of Portland's PTE contract requirements and regulations. The additional work pending includes, but may not be limited to the following:

- Final design of the FABA PS Expansion, Project E09051, which will include design review submittals for BES review and comment at 60% and 100% design development.
- Services during bidding, services during construction, and project closeout assistance for the FABA PS Expansion, Project E09051.
- Services during bidding, services during construction, and project closeout assistance for the Multnomah Stormwater Improvements, Project E09168.

III. FINANCIAL IMPACT

The established cost of this contract amendment is \$881,379. Funds are available in the Sewer System Operating Fund, FY 2010 Budget, Bureau of Environmental Services, project numbers E08294, E09050, E09051, E09052, and E09168.

The level of confidence in the negotiated cost for the proposed amendment 5 to contract No. 37106 with Brown and Caldwell is high. Exhibit A in the amendment contains a detailed description of the scope of the professional services to be provided, with negotiated budget amounts assigned to each specific task included in the scope of work.

IV. LEGAL ISSUES

There is ongoing litigation initiated by the City Attorney's office with the original contractor. Christie White, PC has been added to the project consultant team, as noted above to provide legal assistance and direction related to the preparation of a Land Use Review application, and to support BES during Washington County's review of the application.

V. CONTROVERSIAL ISSUES

The replacement of the existing pressure line after less than 10-yrs of service, and the accompanying disruption during construction is a controversial issue with the local neighborhood associations.

There also appears to be neighborhood opposition to the planned FABA pump station expansion projects, and Washington Co. has received more than 20 letters from property owners in the neighborhood regarding the planned projects. Extensive public outreach efforts have been expended to communication with the associations, and the local citizens regarding the need to undertake these projects.

VI. LINK TO CURRENT CITY POLICIES

The project is consistent with BES strategic planning and the BES CIP process. Construction will be performed in accordance with the City of Portland Standard Construction Specifications.

VII. CITIZEN PARTICIPATION

Public outreach for this project has been conducted by the BES Director's Office. Several information flyers have been distributed to the community, and the project manager and public information office have been, and continue to attend neighborhood association meetings to brief the public on the project status and respond to questions. During several neighborhood association meetings throughout 2009 citizens were advised of the pending application for a noise variance and were provided with the contact information that would allow individuals or groups to provide comment to the City's Noise Board.

VIII. OTHER GOVERNMENT PARTICIPATION

No other government agencies are involved with the proposed contract amendment.

IX. FINANCIAL IMPACT ON LOCAL ECONOMY

183464

IF APPLICABLE, PROVIDE INFORMATION ON ESTIMATED NUMBER OF JOBS CREATED BY THIS ACTION

This action will create 5 high paying jobs in engineering, architecture and associated industries.

IF THIS ACTION IS CONTRACT-RELATED, PROVIDE INFORMATION ON M/W/ESB PARTICIPATION (NUMBER AND PERCENTAGE)

M/W/ESB participation after the authorization of this contract amendment will be \$ 859,715, 29.2% of the total amended contract amount of \$2,939,523.

X. IF THIS IS A CONTRACT, DOES CONTRACTOR HAVE A CURRENT BUSINESS LICENSE? Yes

WHAT IS THEIR BUSINESS LICENSE NUMBER? 373682

IS THEIR ACCOUNT WITH THE CITY CURRENT? Yes

IF NOT, HOW MUCH IS OWING? N/A