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Council Item #244

Brown and Caldwell, Inc.

Proposed Amendment 5

Scott T. Gibson, P.E., Principal Engineer
Daniel J. Hebert, P.E., Senior Engineer
Bureau of Environmental Services

March 4, 2015



ENVIRONMENTAL SERVICES
CITY OF PORTLAND

NICK FISH, COMMISSIONER
JAMES HAGERMAN, INTERIM DIRECTOR

Contract 30002215, Proposed Amendment 5

- Presenters:
 - Scott Gibson, Design Services Principal Engineer
 - Daniel Hebert, Senior Engineer / Project Manager
- Request:
 - Authorize a proposed amendment 5 for additional work and compensation for the SW 86th Ave Pump Station and Appurtenances Project E09051 in the amount of \$316,194.



Project Overview

- The existing Fanno Basin (FABA) PS has a firm pumping capacity of 24-cubic feet per second (cfs)
- Sewer flow monitoring results in the Fanno Creek Basin show that actual peak flows are up to 47-cfs
- The SW 86th Ave PS, currently under construction, will provide the needed additional 23-cfs firm pumping capacity

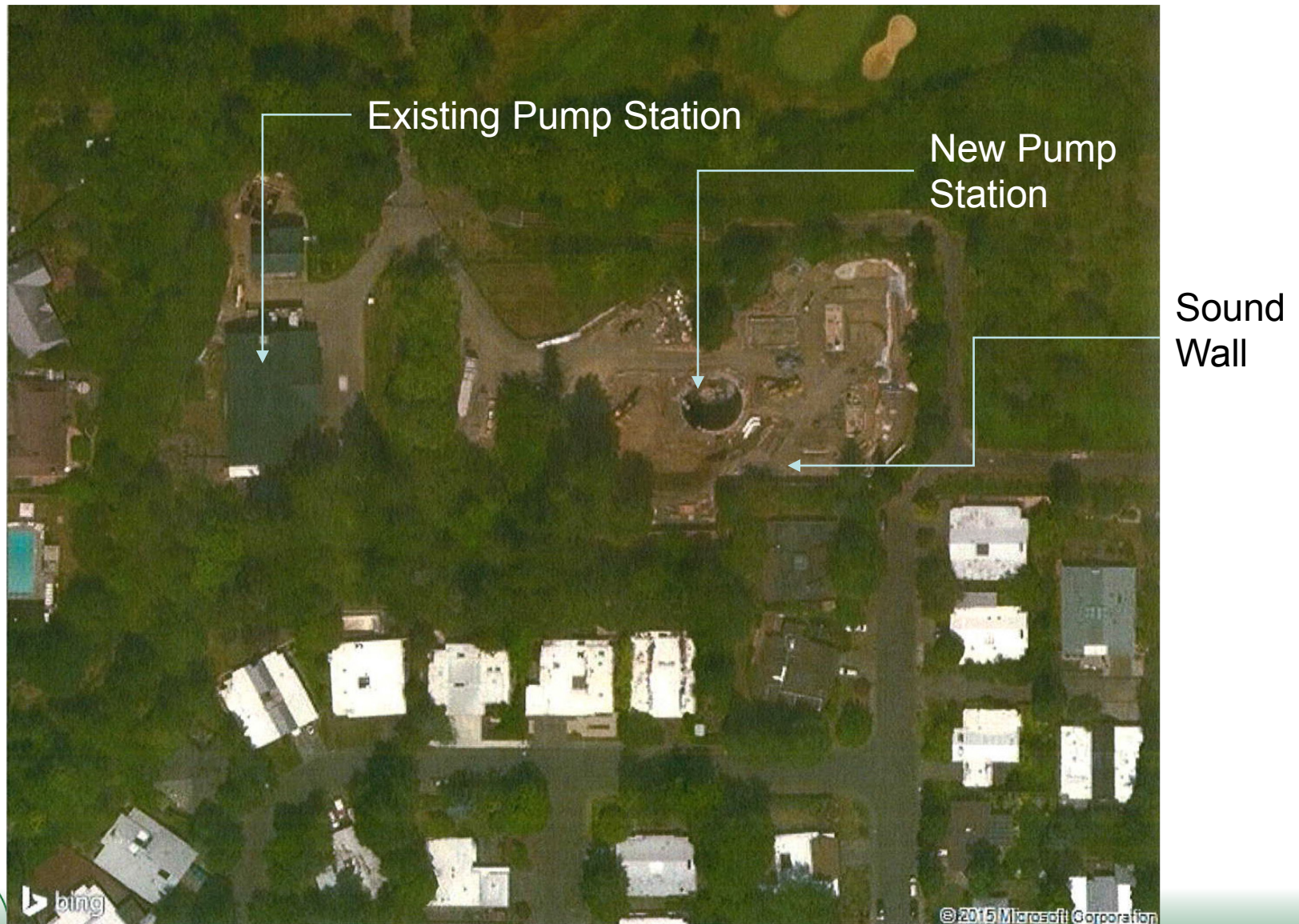


Project Challenges

- Schedule fixed in our agreement with Oregon Department of Environmental Quality.
- Major construction project in a residential neighborhood, outside the City of Portland.
- Multiple BES projects in the vicinity have impacted residents since 1998.
- Organized citizen/resident opposition to the project through the Land Use Process and Building Permitting.



SW 86th Ave PS Construction Site



Site Photos: SW 86th Ave Pump Station Construction



Top Left: SW 86th Ave only site access

Top Right: Soundwall installation

Bottom Left: Soundwall Installation



Amendment 1 Executed 6/26/2012

Authorized by Purchasing Agent on 6/25/2012

- Increased the Contract amount by \$412,900 (22.2% of the original contract amount).
- Additional work and compensation to address issues raised in a pre-application conference with Washington Co.
- Added Submersible Pump Replacement at the existing station to address ongoing, severe O&M issues.



Amendment 2 Executed 12/28/2012

Authorized by Ordinance No. 185754

- Increased the Contract amount by \$297,000 (16% of the original contract amount).
- Amended Contract amount is \$2,571,735 (cumulative 38% increase).
- Additional work to modify the existing pump station discharge piping to reduce transient surges.
- Additional work to prepare contract documents for the installation of a buried hydraulic surge tank at the existing pump station.



Amendment 3 Executed 6/28/2013

Authorized by Ordinance No. 185984

- Increased the Contract amount by \$359,811 (19% of the original contract amount)
- Amended Contract amount is \$2,931,546 (cumulative 57% increase)
- Additional work and compensation to produce contract documents for required public Improvements to SW 86th Ave.
- Increased building permit requirements, a total of 55 building/trade permits needed.
- Increased project management costs



Amendment 4 Executed 2/20/2014

Authorized by Ordinance No. 186419

- Increased the Contract amount by \$164,634 (9% of the original contract amount)
- Amended Contract amount is \$3,096,180 (cumulative 66% increase)
- Additional work to address existing forcemain repairs.



Current Project Status – SW 86th Ave PS

- PS project is in the construction phase, approximately 55% complete as of the last contractor payment on 1/15/2015.
- Required Public Improvements in SW 86th Ave & SW 84th Ave are designed and permitted, but not yet under contract for construction.



Most Recent Change – SW 86th Ave PS

- An access easement with Tualatin Hills Park and Recreation District (THPRD) requires the design and construction of an upgraded rehabilitation to the Fanno Creek Trail from the Fanno Creek Bridge to SW 90th Ave.
- The THPRD access easement was finalized in January 2015, and the trail upgrade design effort is included in Amendment 5, as a new Task 11.0.
- Engineering support for construction requires more effort than estimated.



Proposed Amendment 5

- Add new Task 11.0 Fanno Creek Trail Restoration to design improvements to the Fanno Creek Trail from SW 90th to the Fanno Creek Bridge, as agreed to with Tualatin Hills Park and Recreation District
- Provide for additional services during construction to complete the work



Proposed Amendment 5

- Proposed amendment amount \$316,194 (17% of the original contract amount)
- If Authorized the Amended Contract amount will be \$3,412,374 (cumulative 83.3% increase)



Construction Contract 30003422 Summary

E09051 SW 86th Ave PS & Appurtenances

| Contractor: JW Fowler Company | | Percentage |
|--|---------------------|-------------------|
| Construction Contract Amount | \$15,632,000 | |
| Contract Payments through 1/15/2015 | \$8,594,221 | 55% |
| | | |
| Approved Construction Change Orders | \$16,561 | 0.11% |
| Potential Construction Change Orders | \$224,675 | 1.44% |
| Estimated Total Change Order Exposure | \$241,236 | 1.54% |
| Total BC Cost for E09051 if Amendment 5 is authorized (includes all project phases) | \$2,934,074 | 19.2% |
| BC Task 6.0 Services During Construction if Amendment 5 is authorized | \$619,627 | 4% |



Proposed Amendment 5, Contract 30002215

- Alternatives if Amendment 5 is not authorized
 - The BC team will be instructed to reduce their level of effort to only those items required for permit compliance
 - The scope of services for assistance during the startup/closeout phase will be significantly reduced
 - A separate PTE Agreement will be required for the design and permitting of the Fanno Creek Trail Restoration work



Proposed Amendment 5, Contract 30002215

- Recommendation
 - Authorize amendment 5 to contract 30002215 with Brown and Caldwell, Inc.



The background of the slide is a scenic landscape. It features a mountain peak in the distance, partially obscured by a layer of mist or low clouds. In the foreground, there are several bare, dark trees with intricate branch structures. Below the trees is a calm body of water that reflects the warm, orange and pink hues of the sunset sky. The overall atmosphere is serene and natural.

**THANK YOU FOR
YOUR ATTENTION
AND
CONSIDERATION**

QUESTIONS?