

**HIGHLINE WATER DISTRICT
King County, Washington**

RESOLUTION 17-8-16A

RESOLUTION AUTHORIZING AMENDMENT #1 TO CONTRACT 17-60-08 WITH PACE ENGINEERS, INC. FOR ADDITIONAL ENGINEERING SERVICES RELATING TO S 223RD STREET AC WATER MAIN REPLACEMENT (PROJECT SW17-1)

WHEREAS, by passage of Resolution 17-3-1A, the Board of Commissioners authorized Contract #17-60-08 with Pace Engineers, Inc. for the design of S 223rd Street AC Water Main Replacement; and

WHEREAS, the City of Des Moines now plans to install new storm piping along 24th Ave S between 224th St and S 227th St. The new storm conflicts with the District's existing 12" AC water main which will add approximately 1,100 LF of main replacement to the project; and

WHEREAS, the District requested Pace Engineers, Inc. provide a proposal for the design amendment (referenced at Attachment-1 and incorporated herein); and

WHEREAS, the General Manager and District Engineer have reviewed the 7/31/17 Proposal/Scope of Work and Budget submitted by Pace Engineers, Inc. and recommend approval of this resolution.

1. The Board of Commissioners approves Amendment #1 to Contract 17-60-08 with Pace Engineers, Inc. for a not-to-exceed amount of \$15,890.00.
2. The General Manager or Designee is authorized to execute Amendment #1 (referenced as Attachment-2 and incorporated herein) for the additional engineering services.
3. The General Manager and/or the District's legal counsel are authorized to make minor changes to the Amendment if required.

ADOPTED BY THE BOARD OF COMMISSIONERS of Highline Water District, King County, Washington, at an open public meeting held this **16th** day of **August 2017**.

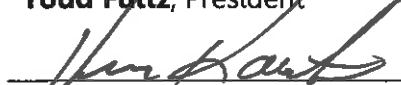
BOARD OF COMMISSIONERS



Todd Fultz, President



Daniel Johnson, Secretary



Vince Koester, Commissioner



George Landon, Commissioner



Kathleen Quong-Vermeire, Commissioner



July 31, 2017

ATTACHMENT - 1

Mr. Jeremy S. DelMar, PE
Engineering and Operations Manager
23828 30th Avenue South
Kent, WA 98032

EXHIBIT A

**Subject: S. 223rd Street AC Water Main Replacement
Contract Amendment No. 1 for Professional Engineering Services**

Dear Jeremy,

PACE Engineers, Inc. appreciates the opportunity to provide you with Contract Amendment (CA) No. 1 for additional professional engineering services that you requested for the South 223rd Street AC Water Main Replacement project. The extra services address the replacement of an ex. 12" AC water main in 24th Avenue South to accommodate the installation of a 36" diameter storm drainage pipe by the City of Des Moines. We understand that the new storm pipe will generally be installed in the location of the existing water main.

The original water main replacement project in South 223rd Street extends from 24th Avenue South west to 16th Avenue South. Our services for the initial project involved the update of an existing survey drawing that covered roughly 1,300 feet of right-of-way (ROW), additional mapping for another 1,300 feet of ROW to 16th Avenue South, and the engineering to replace a total of roughly 2,600 LF of water main in South 223rd Street. The approved project budget to accomplish the above was \$33,700.00 (including reimbursables and locates).

Approximately 600' more ROW mapping was previously requested by the District for South 223rd Street from 16th west to 14th Avenue South that was not part of the original scope. The completed additional surveying services in the amount of \$3,402.50 have been billed as extra services. Additional engineering has been minimal up to this point since water main replacement has only been expanded to just west of 16th Avenue South.

The CA No. 1 project area is located some 400 feet south of South 223rd Street in 24th Avenue South. The extra services to be provided as part of CA No. 1 generally include engineering design, preparation of specifications/contract documents, and bid assistance to replace roughly 1,170 LF of 12" AC water main in 24th Avenue South from about South 224th Street to South 227th Place. All necessary work for CA No. 1 will be incorporated into the overall project plans and specifications as a separate schedule. The portion of the project associated with the original water main replacement in South 223rd Street will be Schedule 'A' while the work that is part of CA No. 1 will be Schedule 'B'.

The following scope of work for CA No. 1 on the next page outlines the anticipated engineering tasks to replace the existing 12" AC water main in 24th Avenue South between South 224th

Street and South 227th Place. A project budget worksheet for CA No. 1 has also been attached for reference.

Task 1 – CA No. 1 24th Avenue South Basemap Review

We understand that the City of Des Moines will provide a survey base map for the District's and for our use. At this time PACE does not anticipate having to provide any surveying services and we assume that the base map will adequately cover the area affected by the CA No. 1 - 12" water main replacement in 24th Avenue South. Our efforts will be limited to verifying that the base map is complete and items to be performed under this task include the following:

1. Review topo base map provided by City and compare information against District As-Builts and Grid/System maps.
2. Walk topo survey base map to verify that all visible features are noted.
3. Field locate water related features missing from survey if and when possible.
4. Coordinate other missing survey information with City and/or City's Engineer/Surveyor and request survey updates when appropriate.

Task 2 – CA No. 1 Additional Project Management, Meetings & Site Visits

This task covers additional time for general project management, meetings relating to the project, and site visits relating to CA No. 1. Extra efforts are expected to be necessary for meeting and coordinating with both the District and with the City of Des Moines regarding the storm improvements. At least one site visit is expected to walk the project and review/check that proposed improvements are compatible with existing site conditions.

Task 3 – CA No. 1 Additional Water Plans and Profiles

Under this task, a design for the open-cut water main replacement and associated appurtenances will be prepared. For CA No. 1 full sized drawings (60% Design and Bid Set) will be prepared at a scale of 1" = 20" on 22" x 34" sheets using the standard District title block similar to the South 223rd Street water main plans. It is anticipated that three (3) new Plan and Profile sheets will be required. More specifically, items to be performed under this task include the following:

1. Provide plan design, with enlarged details as necessary, to show new 12" ductile iron pipeline, fire hydrants, services, connections to the existing system, and abandonment or removal of the ex. 12" AC to accommodate the City's new 36" storm pipe.
2. Incorporate City's proposed 36" storm drainage pipe in water plans.
3. Replacement fire hydrants will be shown in the vicinity of the existing ones. We don't anticipate adding extra hydrants.
4. Prepare water main profiles for 24th Avenue South that will include proposed 36" storm drainage pipe.
5. We anticipate utilizing same District standard water details as for the work under Schedule

- 'B' and will develop specialized details if necessary.
6. Provide Temporary Erosion and Sedimentation Control measures, details and notes as necessary. TESC measures to be shown on the water plan.
 7. Show right-of-way restoration elements and details as necessary. Restoration will be shown on the water plans. Road repair is assumed to be limited to trench restoration since we assume that the City will cut/re-open the roadway and install the 36" storm pipe after the new water main has constructed.
 8. Update cover sheet, vicinity maps, notes, etc. to coordinate added CA No. 1 sheets and work. Identify/separate Schedule 'A' from Schedule 'B' work.
 9. Provide separate Schedule 'B' Quantity Take-Offs and Cost Estimates at major design phases.
 10. Address District comments as required after 60% and Bid Set review.
 11. Address City comments to obtain Right-of-Way permit.
 12. It is assumed that no new ADA ramps will need to be designed as part of the water main replacement portion of the work in 24th Avenue South.

Task 4 – CA No. 1 Additional Specifications and Contract Documents

The CA No. 1 work will be addressed as Schedule 'B' in the same specifications that will be used for the original part of the project (Schedule 'A'). Specific bid schedules will be provided for Schedules 'A' and 'B'. The Measurement and Payment section of the contract documents will be amended as necessary to accommodate new or different bid items for Schedule 'B'.

Task 5 – CA No. 1 Additional QA/QC

Additional time is required for QA/QC associated with the review of the extra Schedule 'B' work. QA/QC will typically occur at each of the review stages and at final document preparation (60% and Bid Documents).

Task 6 – CA No. 1 Additional Bid Support

Extra efforts for Bid Support are expected to mostly relate to additional questions, separate Schedule 'B' portion bid tab, as well as some additional coordination efforts. PACE will provide the extra Bid Support for Schedule 'B' to include the following services:

1. Answer questions during the bidding period.
2. Prepare and coordinate posting of bid addenda.
3. Prepare Bid Tab.

Estimated CA No. 1 Additional Cost Tasks 1 – 6 **\$15,490.00**

Reimbursable expenses cover printing of review sets, courier costs, and reproduction of bid sets. Sub-consultant services are not included. For budgeting purposes reimbursable expenses in the amount of **\$400.00** have been estimated for the additional work that is part of CA No. 1.

Permit fees, if any, are assumed to be paid or reimbursed by the District. Specifically not included are the following tasks:

1. Prepare/assist with permits.
2. Provide Traffic Control Plan.
3. Attend pre-bid and bid opening meeting.
4. Provide Construction Administration.
5. Survey staking and as-built survey.
6. Prepare As-Builts.

With the additional costs to address CA No. 1 (**above Tasks 1 – 6, plus Reimbursables**) estimated at \$15,890.00 we propose to increase the overall contract amount from \$33,700.00 to \$49,590.00. The additional survey work that was provided for South 223rd Street is not included in this amount. All billings will be at our current 2017 District rates (see attached).

Let us know if you have any questions or feel that additional areas of work require our attention.

Sincerely,

PACE Engineers, Inc.



H. Peter Paulsen, PE
Sr. Project Manager

Attachments

PACE Engineers

EXHIBIT B

Project Budget Worksheet - 2017 Municipal Rates

Project Name: South 223rd - CA No. 1 (24th Ave. S.)
 Project #: 17372
 Billing Group #: []
 Location: []
 Task #: []
 Prepared By: []
 Date: 31-Jul-17

Staff Type # (See Labor Rates Table)	Staff Type Hourly Rate	Job Title	Rate	Quantity	Subcontractor	Hour Total
1	\$210	Sr Principal Eng	\$95	11	Pj	6.00
2	\$95	Jr Eng	\$95	16	CAD Drafter	12.00
2	\$95	Sr Pj Mgr	\$95	4	Administrator	50.00
2	\$95	Jr Eng	\$95	16		26.00
4	\$95	Sr Pj Mgr	\$95	4		8.00
6	\$95	Jr Eng	\$95	6		12.00

Hours Total	6.0	44.0	42.0	16.0	4.0	114.00
Labor Total	\$1,680	\$7,920	\$3,990	\$1,520	\$380	\$15,490.00

Expenses	Rate/Unit	Quantity	Reimbursable Cost
Postage/Courier			
Printer			
Photo/Video			
Meals/Travel/Per Diem			
Subcontractors			
Technology Fee (2% of labor)			\$400.00
Total			\$400.00

Subcontractors	
Utility Locate	
Mechanical Engineer	
Electrical Engineer	
Civil Engineer	
Structural Engineer	
P.E. Engineer	
Subcontractant Subtotal	
Markup	12%
Total	

Rate Table Used: 2017 Municipal Rates

**AMENDMENT #1****CONSULTANT AGREEMENT FOR SERVICES
PACE ENGINEERS, INC. – CONTRACT # 17-60-08
PROJECT SW17-1 S 223RD STREET AC WATER MAIN REPLACEMENT**

Pace Engineers, Inc. has requested the following additional compensation (**Exhibits A & B**), incorporated herein, for additional engineering services:

Task	Description of Contract Amendments	Amount
1	24th Avenue South Basemap	\$ 740.00
2	Additional Project Management, Meetings & Site Visits	\$ 1,820.00
3	Additional Water Plans and Profiles	\$ 6,340.00
4	Additional Specifications and Contract Documents	\$ 3,380.00
5	Additional QA/QC	\$ 1,560.00
6	Additional Bid Support	\$ 1,650.00
	Additional Cost Tasks 1-6	\$ 15,490.00
	Expenses	\$ 400.00
	Contract Revision Total	\$ 15,890.00
	Previous Contract Amount	\$ 33,700.00
	Revised Contract Amount	\$ 49,590.00

Pace Engineers, Inc. will undertake the above-referenced additional work on a time-and-expense basis. The estimated cost for these additional services is \$15,890.00. The current contract amount is \$33,700.00. The revised contract amount is \$45,590.00. The same standard general terms and conditions will apply as agreed to in Contract #17-60-08 dated 3/14/17.

Effective Date. The effective date of this Amendment shall be the date signed by an authorized representative of the District.

HIGHLINE WATER DISTRICT**PACE ENGINEERS, INC.**

By: _____
Matt Everett

By: _____
Martin L. Penhallegon

Title: General Manager

Title: President

Date: _____

Date: _____

Agenda Item No.: 5.1
 Agenda Date: 08/16/17
 Reviewed By: 

Subject: Authorize Amendment #1 – Pace Engineering, Inc. - Contract #17-60-08
Project SW17-1 S 223rd Street AC Water Main Replacement

CATEGORY	
<i>Executive</i>	<input type="checkbox"/>
<i>Administrative</i>	<input type="checkbox"/>
<i>Engineering/Operations</i>	<input checked="" type="checkbox"/>

FINANCIAL						
<i>Expenditures?</i>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
<i>Budgeted?</i>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
<i>Estimated Amount:</i>				\$	<u>15,890.00</u>	
						Excludes sales tax

ATTACHMENTS:

1. Resolution 17-8-16A with Attachment-1 (Exhibits A and B)
2. Attachment-2 (Amendment No. 1)

COMMENTS:

At the request of the District, Pace Engineers Inc., submitted a proposal for additional engineering services for Project SW17-1 S 223rd Street AC Water Main Replacement

The amendment includes design services for 24th Ave S between S 224th St & S 227th St to replace 1,100 LF of AC main in conflict with the City of Des Moines proposed storm work.

The General Manager and District Engineer have reviewed the 7-31-17 Proposal/Scope of Work and Budget and recommend approval of this resolution.