



City of Palo Alto

City Council Staff Report

(ID # 10381)

Report Type: Consent Calendar

Meeting Date: 8/19/2019

Summary Title: Water Main Replacement 27

Title: Approval of Contract Number C20175276 With Ranger Pipelines, Inc. in the Amount of \$4,146,435 for Water Main Replacement Project 27 (WS-13001) and the Water Distribution System Improvement (WS-11003) Capital Projects in the Oak Creek and Leland Manor/Garland Neighborhoods, and Authorization for the City Manager to Negotiate and Execute Related Change Orders Not-to-Exceed \$414,644, for a Total Not-to-Exceed Amount of \$4,561,079

From: City Manager

Lead Department: Utilities

Recommendation

Staff recommends that Council:

1. Approve and authorize the City Manager or his designee to execute the attached contract C20175276 (Attachment A) with RANGER PIPELINES, Inc.) in an amount not-to-exceed \$4,146,435 for the Water Main Replacement (WMR) Project 27 (WS-13001) and the Water Distribution System Improvement (WS-11003) capital improvement projects in the Oak Creek and Leland Manor/Garland neighborhoods.
2. Approve and authorize the City Manager or his designee to negotiate and execute one or more changes to the contract with RANGER PIPELINES for related additional but unforeseen work, which may develop during the project, the total value of which shall not exceed \$414,644, or 10% of the contract amount.

The total not to exceed contract amount is \$4,561,079, which includes contract amount of \$4,146,435 and a 10% contingency of \$414,644.

Background

In 2015 the City completed the water distribution system seismic evaluation and condition assessment master study. The pipeline improvements recommended from that study included future capital improvement projects.

This project is the first project in the updated 2015 Water Main Replacement Program that focuses on high-priority pipes in seismically vulnerable areas. The project also includes replacement of some cast iron (CI) and asbestos cement (AC) pipes from a replacement program that began in 1986. Approximately 8% of the City's existing water distribution system is comprised of CI pipe, while AC pipe accounts for approximately 56%. These pipes are being replaced since both CI and AC water mains can show signs of corrosion and become subject to breaks after many years of use. Using the risk of failure analysis, staff has prioritized replacement of these water mains within the distribution system as part of WMR Project 27.

All existing CI and AC water mains in the project area will be replaced with High Density Polyethylene (HDPE) pipe. Replacing the water distribution system mains with HDPE pipe with fused joints will eliminate leaks in the project area, increase the reliability of the water distribution system, protect the quality of supplied water, and provide more reliable flow and pressure for fire protection.

As part of the planning and design process, staff coordinated this project with other City departments to minimize interference with other contractors and their schedules. Work in the Sand Hill Road area will be followed by a Public Works' street paving project.

Discussion

On May 30, 2019, the City posted a notice inviting formal bids (IFB) for the Water Main Replacement Project 27 (WMR 27) at the City's electronic procurement system, PlanetBids. The bidding period was 26 calendar days. Three contractors submitted bids on June 25, 2019 as listed on the attached Bid Summary (Attachment B).

Cratus, Inc. was the apparent lowest bidder. The City, rejected their bid because Cratus failed to submit required qualification forms, which require prospective bidders to indicate the installation method (by open cut or horizontal directional drilling method) and provide relevant references of water/gas HDPE fusion projects satisfactorily completed in the last three years.

Staff has reviewed the remaining two bids and recommends that the bid of \$4,146,435 submitted by RANGER PIPELINES, the next lowest bidder, be accepted and that RANGER PIPELINES be declared the lowest responsible and responsive bidder. RANGER PIPELINES' bid is \$135,010 or 3.4% higher than Cratus. The bid is approximately 3.7 percent (3.7%) above the staff engineer's estimate of \$3,999,188.

Bid Summary

Bid Name/Number	Water Main Replacement Project 27, CIP WS-13001, IFB Number 175276
Proposed Length of Project	142 Working Days
Number of Bids Mailed to Contractors	0 (electronic documents were available in CPA website)
Number of Bid Notices Emailed to Contractors and Builder's Exchanges	11
Total Days to Respond to Bid	26
Pre-Bid Meeting?	Yes (Non-Mandatory)
Number of Company Attendees at Pre-Bid Meeting	4 (PROJECT SITE MEETING)/2 (OFFICE MEETING)
Number of Bids Received:	3
Bid Price Range	\$4,011,475 to \$4,997,569

*Bid summary provided in Attachment B.

Staff believes that bid is slightly higher than the engineer's estimate due to recent increases in the cost of materials and labor for this type of work, and the fact that there is currently a large demand for construction work in the Bay Area. Although the bid is higher than the engineer's estimate, there are enough funds available to complete this work. The additional amount of \$414,644, which equals 10 percent (10%) of the total contract, is requested for additional unforeseen work that may develop during the project. Any significant delays in the WMR 27 schedule could delay the start of subsequent Public Works' paving project planned for the Sand Hill Road. The bids received are consistent with the current state of the economy.

Staff confirmed with the Contractor's State License Board that RANGER PIPELINES, and their three (3) listed subcontractors, have active licenses on file. Staff checked references provided by RANGER PIPELINES for previous work performed and received positive feedback from other agencies. Staff also confirmed that both RANGER PIPELINES and their subcontractors are registered and in good standing with the Department of Industrial Relations (DIR). In addition, RANGER PIPELINES has contracted with the City in the past for other Utilities CIP projects, including recent Upgrade Downtown project, and has demonstrated the knowledge and ability needed to complete this project (WMR 27) on schedule and within budget.

The scope of this contract includes installation of approximately 5,032 linear feet of new HDPE water mains, 35 new HDPE water services, 11 new fire hydrants, 12 gate valves and installation of 18" butterfly valve and related components on 18" existing mains within the limits of the City of Palo Alto. Any landscaping that may be removed as part of the work will be restored in kind when construction is completed. There are locations within this area where Stanford has been working on soil stabilization of the slope adjacent to part of the project area. The remaining 4,118 linear feet of water mains and services will be addressed in the next fiscal year and will be referred to as

WMR 27B.

The project is primarily located in Oak Creek and Leland Manor/Garland neighborhoods of the City and will replace mains on Sand Hill Road (Oak Creek West to Swan Drive) and Fulton (Seale Avenue to Embarcadero Road). The contract also includes transmission main repair work on Old Page Mill Road at Gerth Lane. Work includes repairing the 18” transmission main, and installing an 18” butterfly valve, fire hydrants, and ARVs (air relieve valves); project locations are shown on Attachment C.

The City will provide written notification to all affected property occupants prior to the start of construction. The Contractor will also provide two written notifications of the work to all abutting property occupants, one at least 7 days prior to the commencement of work at their specific locations, and a second 24 hours prior to mobilization. To minimize disruptions during construction, work on Sand Hill Road and Embarcadero intersection will be performed between 9:00 AM and 4:00 PM Monday through Friday; work on Fulton Street will be performed between 8:45 AM and 5:00 PM Monday through Friday; and work on Old Page Mill Road will be performed between 9:00 AM and 4:00 PM Monday through Friday.

No construction work will be allowed in any part of the City during the two-week period between December 23, 2019 and January 4, 2020 and during Thanksgiving week between November 25 and November 29, 2019 unless approved by the City due to necessity to accelerate the schedule to prevent delay for the subsequent Public Works’ project. The construction period for each location will vary depending on the extent of work to be done; residents/business can expect construction in their area lasting a minimum of one month.

Resource Impact

Funds for this project (\$4,146,435) and the contingency amount of (\$414,644) are available in the FY 2020 Adopted Capital Budget for the Water Fund in Water Main Replacement (WMR) Project 27 (WS-13001) and Water Distribution System Improvements (WS-11003). Work in the Sand Hill and Fulton areas for \$3,886,315 and the contingency amount of \$388,632 are associated with WS-13001. The butterfly valve installation work on Old Page Mill Road for \$260,120 and the contingency amount of \$26,012 are associated with WS-11003. Although the bid price is 3.7% above the engineer’s estimate for this project, there are sufficient funds available to complete the work.

Summary of Project Costs for WMR 27 (WS-13001 and WS-11003)

Pre-Design/Design Costs	\$51,592
Construction Costs	\$4,146,435
10% Contingency	\$414,644
Staff Time (Includes Engineering & Inspection Time)	\$414,242
Trench Cut Fees	\$72,028
TOTAL	\$5,098,941

Policy Implications

The approval of this contract is consistent with existing City policies including the Council approved 2018 Utilities Strategic Plan-Strategic Objectives, Priority 4 Strategy 1 “Establish a proactive infrastructure replacement program, based on planned replacement before failure to support reliability and resiliency.” Facing an evolving utility business environment, aging infrastructure needs, and sustainability objectives, CPAU must maintain a competitive position in the market. Remaining financially sustainable and competitive in the market while optimizing our resources is key to maintaining and enhancing our value to customers. Strategies in this Priority focus on proactively renewing and managing CPAU’s infrastructure, continuously improving financial processes, enhancing infrastructure maintenance programs, defining CPAU’s role in community resiliency, and achieving sustainable energy resource and water supply plans.

Environmental Review

This project is categorically exempt from California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines 15301 (repair, maintenance of existing facilities) and 15302 (replacement or reconstruction of existing facilities).

Attachments:

- Attachment A: C20175276 Ranger Pipelines _Water Main Replacement 27 Project_Final
- Attachment B: BID SUMMARY
- Attachment C: LOCATION MAPS



CITY OF
**PALO
ALTO**

CONSTRUCTION CONTRACT

Contract No. C20175276

City of Palo Alto

Water Main Replacement 27 Project

**CONSTRUCTION CONTRACT
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CONSTRUCTION CONTRACT

THIS CONSTRUCTION CONTRACT entered into on August 19, 2019 ("Execution Date") by and between the CITY OF PALO ALTO, a California chartered municipal corporation ("City"), and RANGER PIPELINES INCORPORATED ("Contractor"), is made with reference to the following:

RECITALS:

- A. City is a municipal corporation duly organized and validly existing under the laws of the State of California with the power to carry on its business as it is now being conducted under the statutes of the State of California and the Charter of City.
- B. Contractor is a Corporation duly organized and in good standing in the State of California, Contractor's License Number 417996 and Department of Industrial Relations Registration Number 1000003604. Contractor represents that it is duly licensed by the State of California and has the background, knowledge, experience and expertise to perform the obligations set forth in this Construction Contract.
- C. On May 30, 2019, City issued an Invitation for Bids (IFB) to contractors for the Water Main Replacement 27 Project ("Project"). In response to the IFB, Contractor submitted a Bid.
- D. City and Contractor desire to enter into this Construction Contract for the Project, and other services as identified in the Contract Documents for the Project upon the following terms and conditions.

NOW THEREFORE, in consideration of the mutual promises and undertakings hereinafter set forth and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is mutually agreed by and between the undersigned parties as follows:

SECTION 1 **INCORPORATION OF RECITALS AND DEFINITIONS.**

1.1 Recitals.

All of the recitals are incorporated herein by reference.

1.2 Definitions.

Capitalized terms shall have the meanings set forth in this Construction Contract and/or in the General Conditions. If there is a conflict between the definitions in this Construction Contract and in the General Conditions, the definitions in this Construction Contract shall prevail.

SECTION 2 **THE PROJECT.**

The Project is the Water Main Replacement 27 Project, located at various locations, Palo Alto CA. ("Project").

SECTION 3 THE CONTRACT DOCUMENTS.

3.1 List of Documents.

The Contract Documents (sometimes collectively referred to as “Agreement” or “Bid Documents”) consist of the following documents which are on file with the Purchasing Division and are hereby incorporated by reference.

- 1) Change Orders
- 2) Field Orders
- 3) Contract
- 4) Bidding Addenda
- 5) Special Provisions
- 6) General Conditions
- 7) Project Plans and Drawings
- 8) Technical Specifications
- 9) Instructions to Bidders
- 10) Invitation for Bids
- 11) Contractor's Bid/Non-Collusion Declaration
- 12) Reports listed in the Contract Documents
- 13) Public Works Department’s Standard Drawings and Specifications (most current version at time of Bid)
- 14) Utilities Department’s Water, Gas, Wastewater, Electric Utilities Standards (most current version at time of Bid)
- 15) City of Palo Alto Traffic Control Requirements
- 16) City of Palo Alto Truck Route Map and Regulations
- 17) Notice Inviting Pre-Qualification Statements, Pre-Qualification Statement, and Pre-Qualification Checklist (if applicable)
- 18) Performance and Payment Bonds

3.2 Order of Precedence.

For the purposes of construing, interpreting and resolving inconsistencies between and among the provisions of this Contract, the Contract Documents shall have the order of precedence as set forth in the preceding section. If a claimed inconsistency cannot be resolved through the order of precedence, the City shall have the sole power to decide which document or provision shall govern as may be in the best interests of the City.

SECTION 4 CONTRACTOR'S DUTY.

4.1 Contractor's Duties

Contractor agrees to perform all of the Work required for the Project, as specified in the Contract Documents, all of which are fully incorporated herein. Contractor shall provide, furnish, and supply all things necessary and incidental for the timely performance and completion of the Work, including, but not limited to, provision of all necessary labor, materials, equipment, transportation, and utilities, unless otherwise specified in the Contract Documents. Contractor also agrees to use its best efforts to complete the Work in a professional and expeditious manner and to meet or exceed the performance standards required by the Contract Documents.

SECTION 5 PROJECT TEAM.

5.1 Contractor's Co-operation.

In addition to Contractor, City has retained, or may retain, consultants and contractors to provide professional and technical consultation for the design and construction of the Project. The Contract requires that Contractor operate efficiently, effectively and cooperatively with City as well as all other members of the Project Team and other contractors retained by City to construct other portions of the Project.

SECTION 6 TIME OF COMPLETION.

6.1 Time Is of Essence.

Time is of the essence with respect to all time limits set forth in the Contract Documents.

6.2 Commencement of Work.

Contractor shall commence the Work on the date specified in City's Notice to Proceed.

6.3 Contract Time.

Work hereunder shall begin on the date specified on the City's Notice to Proceed and shall be completed

- not later than .
- within One hundred forty two working days (142) after the commencement date specified in City's Notice to Proceed.

By executing this Construction Contract, Contractor expressly waives any claim for delayed early completion.

6.4 Liquidated Damages.

Pursuant to Government Code Section 53069.85, if Contractor fails to achieve Substantial Completion of the entire Work within the Contract Time, including any approved extensions thereto, City may assess liquidated damages on a daily basis for each day of Unexcused Delay in achieving Substantial Completion, based on the amount of one thousand dollars (\$1,000) per day, or as otherwise specified in the Special Provisions. Liquidated damages may also be separately assessed for failure to meet milestones specified elsewhere in the Contract Documents, regardless of impact on the time for achieving Substantial Completion. The assessment of liquidated damages is not a penalty but considered to be a reasonable estimate of the amount of damages City will suffer by delay in completion of the Work. The City is entitled to setoff the amount of liquidated damages assessed against any payments otherwise due to Contractor,

including, but not limited to, setoff against release of retention. If the total amount of liquidated damages assessed exceeds the amount of unreleased retention, City is entitled to recover the balance from Contractor or its sureties. Occupancy or use of the Project in whole or in part prior to Substantial Completion, shall not operate as a waiver of City's right to assess liquidated damages.

6.4.1 Other Remedies. City is entitled to any and all available legal and equitable remedies City may have where City's Losses are caused by any reason other than Contractor's failure to achieve Substantial Completion of the entire Work within the Contract Time.

6.5 Adjustments to Contract Time.

The Contract Time may only be adjusted for time extensions approved by City and memorialized in a Change Order approved in accordance with the requirements of the Contract Documents.

SECTION 7 COMPENSATION TO CONTRACTOR.

7.1 Contract Sum.

Contractor shall be compensated for satisfactory completion of the Work in compliance with the Contract Documents the Contract Sum of Four Million One Hundred Forty-Six Thousand Four Hundred Thirty Five Dollars (\$4,146,435).

[This amount includes the Base Bid and Additive Alternates 32-75.]

7.2 Full Compensation.

The Contract Sum shall be full compensation to Contractor for all Work provided by Contractor and, except as otherwise expressly permitted by the terms of the Contract Documents, shall cover all Losses arising out of the nature of the Work or from the acts of the elements or any unforeseen difficulties or obstructions which may arise or be encountered in performance of the Work until its Acceptance by City, all risks connected with the Work, and any and all expenses incurred due to suspension or discontinuance of the Work, except as expressly provided herein. The Contract Sum may only be adjusted for Change Orders approved in accordance with the requirements of the Contract Documents.

SECTION 8 STANDARD OF CARE.

8.1 Standard of Care.

Contractor agrees that the Work shall be performed by qualified, experienced and well-supervised personnel. All services performed in connection with this Construction Contract shall be performed in a manner consistent with the standard of care under California law applicable to those who specialize in providing such services for projects of the type, scope and complexity of the Project.

SECTION 9 INDEMNIFICATION.

9.1 Hold Harmless.

To the fullest extent allowed by law, Contractor will defend, indemnify, and hold harmless City, its City Council, boards and commissions, officers, agents, employees, representatives and volunteers (hereinafter individually referred to as an "Indemnitee" and collectively referred to as "Indemnitees"), through legal counsel acceptable to City, from and against any and liability, loss, damage, claims, expenses (including, without limitation, attorney fees, expert witness fees, paralegal fees, and fees and costs of litigation or arbitration) (collectively, "Liability") of every nature arising out of or in connection with the acts or omissions of Contractor, its employees, Subcontractors, representatives, or agents, in performing the Work or its failure to comply with any of its obligations under the Contract, except such Liability caused by the active negligence, sole negligence, or willful misconduct of an Indemnitee. Contractor shall pay City for any costs City incurs to enforce this provision. Except as provided in Section 9.2 below, nothing in the Contract Documents shall be construed to give rise to any implied right of indemnity in favor of Contractor against City or any other Indemnitee.

Pursuant to Public Contract Code Section 9201, City shall timely notify Contractor upon receipt of any third-party claim relating to the Contract.

9.2 Survival.

The provisions of Section 9 shall survive the termination of this Construction Contract.

SECTION 10 NON-DISCRIMINATION.

10.1 Municipal Code Requirement.

As set forth in Palo Alto Municipal Code section 2.30.510, Contractor certifies that in the performance of this Agreement, it shall not discriminate in the employment of any person because of the race, skin color, gender, age, religion, disability, national origin, ancestry, sexual orientation, housing status, marital status, familial status, weight or height of such person. Contractor acknowledges that it has read and understands the provisions of Section 2.30.510 of the Palo Alto Municipal Code relating to Nondiscrimination Requirements and the penalties for violation thereof, and will comply with all requirements of Section 2.30.510 pertaining to nondiscrimination in employment.

SECTION 11 INSURANCE AND BONDS.

11.1 Evidence of coverage.

Within ten (10) business days following issuance of the Notice of Award, Contractor shall provide City with evidence that it has obtained insurance and shall submit Performance and Payment Bonds satisfying all requirements in Article 11 of the General Conditions.

SECTION 12 PROHIBITION AGAINST TRANSFERS.

12.1 Assignment.

City is entering into this Construction Contract in reliance upon the stated experience and qualifications of the Contractor and its Subcontractors set forth in Contractor's Bid. Accordingly, Contractor shall not assign, hypothecate or transfer this Construction Contract or any interest therein directly or indirectly, by operation of law or otherwise without the prior written consent of City. Any assignment, hypothecation or transfer without said consent shall be null and void, and shall be deemed a substantial breach of contract and grounds for default in addition to any other legal or equitable remedy available to the City.

12.2 Assignment by Law.

The sale, assignment, transfer or other disposition of any of the issued and outstanding capital stock of Contractor or of any general partner or joint venturer or syndicate member of Contractor, if the Contractor is a partnership or joint venture or syndicate or co-tenancy shall result in changing the control of Contractor, shall be construed as an assignment of this Construction Contract. Control means more than fifty percent (50%) of the voting power of the corporation or other entity.

SECTION 13 NOTICES.

13.1 Method of Notice.

All notices, demands, requests or approvals to be given under this Construction Contract shall be given in writing and shall be deemed served on the earlier of the following:

- (i) On the date delivered if delivered personally;
- (ii) On the third business day after the deposit thereof in the United States mail, postage prepaid, and addressed as hereinafter provided;
- (iii) On the date sent if sent by facsimile transmission;
- (iv) On the date sent if delivered by electronic mail; or
- (v) On the date it is accepted or rejected if sent by certified mail.

13.2 Notice to Recipients.

All notices, demands or requests (including, without limitation, Change Order Requests and Claims) from Contractor to City shall include the Project name and the number of this Construction Contract and shall be addressed to City at:

To City: City of Palo Alto
 City Clerk
 250 Hamilton Avenue
 P.O. Box 10250
 Palo Alto, CA 94303

Copy to: City of Palo Alto
 Public Works Administration
 250 Hamilton Avenue
 Palo Alto, CA 94301
 Attn:

AND

[Include Construction Manager, If Applicable.]

☒ City of Palo Alto
Utilities Engineering
250 Hamilton Avenue
Palo Alto, CA 94301
Attn: Robert Item

In addition, copies of all Claims by Contractor under this Construction Contract shall be provided to the following:

Palo Alto City Attorney's Office
250 Hamilton Avenue
P.O. Box 10250
Palo Alto, California 94303

All Claims shall be sent by registered mail or certified mail with return receipt requested.

All notices, demands, requests or approvals from City to Contractor shall be addressed to:

Ranger Pipelines Incorporated
1790 Yosemite Avenue
San Francisco, California 94124
Attn: Thomas Hunt

13.3 Change of Address.

In advance of any change of address, Contractor shall notify City of the change of address in writing. Each party may, by written notice only, add, delete or replace any individuals to whom and addresses to which notice shall be provided.

SECTION 14 DEFAULT.

14.1 Notice of Default.

In the event that City determines, in its sole discretion, that Contractor has failed or refused to perform any of the obligations set forth in the Contract Documents, or is in breach of any provision of the Contract Documents, City may give written notice of default to Contractor in the manner specified for the giving of notices in the Construction Contract, with a copy to Contractor's performance bond surety.

14.2 Opportunity to Cure Default.

Except for emergencies, Contractor shall cure any default in performance of its obligations under the Contract Documents within two (2) Days (or such shorter time as City may reasonably require) after receipt of written notice. However, if the breach cannot be reasonably cured within such time, Contractor will commence to cure the breach within two (2) Days (or such shorter time as City may reasonably require) and will diligently and continuously prosecute such cure to completion within a reasonable time, which shall in no event be later than ten (10) Days after receipt of such written notice.

SECTION 15 CITY'S RIGHTS AND REMEDIES.

15.1 Remedies Upon Default.

If Contractor fails to cure any default of this Construction Contract within the time period set forth above in Section 14, then City may pursue any remedies available under law or equity, including, without limitation, the following:

15.1.1 Delete Certain Services. City may, without terminating the Construction Contract, delete certain portions of the Work, reserving to itself all rights to Losses related thereto.

15.1.2 Perform and Withhold. City may, without terminating the Construction Contract, engage others to perform the Work or portion of the Work that has not been adequately performed by Contractor and withhold the cost thereof to City from future payments to Contractor, reserving to itself all rights to Losses related thereto.

15.1.3 Suspend The Construction Contract. City may, without terminating the Construction Contract and reserving to itself all rights to Losses related thereto, suspend all or any portion of this Construction Contract for as long a period of time as City determines, in its sole discretion, appropriate, in which event City shall have no obligation to adjust the Contract Sum or Contract Time, and shall have no liability to Contractor for damages if City directs Contractor to resume Work.

15.1.4 Terminate the Construction Contract for Default. City shall have the right to terminate this Construction Contract, in whole or in part, upon the failure of Contractor to promptly cure any default as required by Section 14. City's election to terminate the Construction Contract for default shall be communicated by giving Contractor a written notice of termination in the manner specified for the giving of notices in the Construction Contract. Any notice of termination given to Contractor by City shall be effective immediately, unless otherwise provided therein.

15.1.5 Invoke the Performance Bond. City may, with or without terminating the Construction Contract and reserving to itself all rights to Losses related thereto, exercise its rights under the Performance Bond.

15.1.6 Additional Provisions. All of City's rights and remedies under this Construction Contract are cumulative, and shall be in addition to those rights and remedies available in law or in equity. Designation in the Contract Documents of certain breaches as material shall not waive the City's authority to designate other breaches as material nor limit City's right to terminate the Construction Contract, or prevent the City from terminating the Agreement for breaches that are not material. City's determination of whether there has been noncompliance with the Construction Contract so as to warrant exercise by City of its rights and remedies for default under the Construction Contract, shall be binding on all parties. No termination or action taken by City after such termination shall prejudice any other rights or remedies of City provided by law or equity or by the Contract Documents upon such termination; and City may proceed against Contractor to recover all liquidated damages and Losses suffered by City.

15.2 Delays by Sureties.

Time being of the essence in the performance of the Work, if Contractor's surety fails to arrange for completion of the Work in accordance with the Performance Bond, within seven (7) calendar days from the date of the notice of termination, Contractor's surety shall be deemed to have waived its right to complete the Work under the Contract, and City may immediately make arrangements for the completion of the Work through use of its own forces, by hiring a replacement contractor, or by any other means that City determines advisable under the circumstances. Contractor and its surety shall be jointly and severally

liable for any additional cost incurred by City to complete the Work following termination. In addition, City shall have the right to use any materials, supplies, and equipment belonging to Contractor and located at the Worksite for the purposes of completing the remaining Work.

15.3 Damages to City.

15.3.1 For Contractor's Default. City will be entitled to recovery of all Losses under law or equity in the event of Contractor's default under the Contract Documents.

15.3.2 Compensation for Losses. In the event that City's Losses arise from Contractor's default under the Contract Documents, City shall be entitled to deduct the cost of such Losses from monies otherwise payable to Contractor. If the Losses incurred by City exceed the amount payable, Contractor shall be liable to City for the difference and shall promptly remit same to City.

15.4 Suspension by City

15.4.1 Suspension for Convenience. City may, at any time and from time to time, without cause, order Contractor, in writing, to suspend, delay, or interrupt the Work in whole or in part for such period of time, up to an aggregate of fifty percent (50%) of the Contract Time. The order shall be specifically identified as a Suspension Order by City. Upon receipt of a Suspension Order, Contractor shall, at City's expense, comply with the order and take all reasonable steps to minimize costs allocable to the Work covered by the Suspension Order. During the Suspension or extension of the Suspension, if any, City shall either cancel the Suspension Order or, by Change Order, delete the Work covered by the Suspension Order. If a Suspension Order is canceled or expires, Contractor shall resume and continue with the Work. A Change Order will be issued to cover any adjustments of the Contract Sum or the Contract Time necessarily caused by such suspension. A Suspension Order shall not be the exclusive method for City to stop the Work.

15.4.2 Suspension for Cause. In addition to all other remedies available to City, if Contractor fails to perform or correct work in accordance with the Contract Documents, City may immediately order the Work, or any portion thereof, suspended until the cause for the suspension has been eliminated to City's satisfaction. Contractor shall not be entitled to an increase in Contract Time or Contract Price for a suspension occasioned by Contractor's failure to comply with the Contract Documents. City's right to suspend the Work shall not give rise to a duty to suspend the Work, and City's failure to suspend the Work shall not constitute a defense to Contractor's failure to comply with the requirements of the Contract Documents.

15.5 Termination Without Cause.

City may, at its sole discretion and without cause, terminate this Construction Contract in part or in whole upon written notice to Contractor. Upon receipt of such notice, Contractor shall, at City's expense, comply with the notice and take all reasonable steps to minimize costs to close out and demobilize. The compensation allowed under this Paragraph 15.5 shall be the Contractor's sole and exclusive compensation for such termination and Contractor waives any claim for other compensation or Losses, including, but not limited to, loss of anticipated profits, loss of revenue, lost opportunity, or other consequential, direct, indirect or incidental damages of any kind resulting from termination without cause. Termination pursuant to this provision does not relieve Contractor or its sureties from any of their obligations for Losses arising from or related to the Work performed by Contractor.

15.5.1 Compensation. Following such termination and within forty-five (45) Days after receipt of a billing from Contractor seeking payment of sums authorized by this Paragraph 15.5.1, City shall pay the following to Contractor as Contractor's sole compensation for performance of the Work :

.1 For Work Performed. The amount of the Contract Sum allocable to the portion of the Work properly performed by Contractor as of the date of termination, less sums previously paid to Contractor.

.2 For Close-out Costs. Reasonable costs of Contractor and its Subcontractors:
(i) Demobilizing and
(ii) Administering the close-out of its participation in the Project (including, without limitation, all billing and accounting functions, not including attorney or expert fees) for a period of no longer than thirty (30) Days after receipt of the notice of termination.

.3 For Fabricated Items. Previously unpaid cost of any items delivered to the Project Site which were fabricated for subsequent incorporation in the Work.

.4 Profit Allowance. An allowance for profit calculated as four percent (4%) of the sum of the above items, provided Contractor can prove a likelihood that it would have made a profit if the Construction Contract had not been terminated.

15.5.2 Subcontractors. Contractor shall include provisions in all of its subcontracts, purchase orders and other contracts permitting termination for convenience by Contractor on terms that are consistent with this Construction Contract and that afford no greater rights of recovery against Contractor than are afforded to Contractor against City under this Section.

15.6 Contractor's Duties Upon Termination.

Upon receipt of a notice of termination for default or for convenience, Contractor shall, unless the notice directs otherwise, do the following:

- (i) Immediately discontinue the Work to the extent specified in the notice;
- (ii) Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of such portion of the Work that is not discontinued;
- (iii) Provide to City a description in writing, no later than fifteen (15) days after receipt of the notice of termination, of all subcontracts, purchase orders and contracts that are outstanding, including, without limitation, the terms of the original price, any changes, payments, balance owing, the status of the portion of the Work covered and a copy of the subcontract, purchase order or contract and any written changes, amendments or modifications thereto, together with such other information as City may determine necessary in order to decide whether to accept assignment of or request Contractor to terminate the subcontract, purchase order or contract;
- (iv) Promptly assign to City those subcontracts, purchase orders or contracts, or portions thereof, that City elects to accept by assignment and cancel, on the most favorable terms reasonably possible, all subcontracts, purchase orders or contracts, or portions thereof, that City does not elect to accept by assignment; and
- (v) Thereafter do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials, plants, and equipment on the Project Site or in transit thereto.

Upon termination, whether for cause or for convenience, the provisions of the Contract Documents remain in effect as to any Claim, indemnity obligation, warranties, guarantees,

submittals of as-built drawings, instructions, or manuals, or other such rights and obligations arising prior to the termination date.

SECTION 16 CONTRACTOR'S RIGHTS AND REMEDIES.

16.1 Contractor's Remedies.

Contractor may terminate this Construction Contract only upon the occurrence of one of the following:

16.1.1 For Work Stoppage. The Work is stopped for sixty (60) consecutive Days, through no act or fault of Contractor, any Subcontractor, or any employee or agent of Contractor or any Subcontractor, due to issuance of an order of a court or other public authority other than City having jurisdiction or due to an act of government, such as a declaration of a national emergency making material unavailable. This provision shall not apply to any work stoppage resulting from the City's issuance of a suspension notice issued either for cause or for convenience.

16.1.2 For City's Non-Payment. If City does not make pay Contractor undisputed sums within ninety (90) Days after receipt of notice from Contractor, Contractor may terminate the Construction Contract (30) days following a second notice to City of Contractor's intention to terminate the Construction Contract.

16.2 Damages to Contractor.

In the event of termination for cause by Contractor, City shall pay Contractor the sums provided for in Paragraph 15.5.1 above. Contractor agrees to accept such sums as its sole and exclusive compensation and agrees to waive any claim for other compensation or Losses, including, but not limited to, loss of anticipated profits, loss of revenue, lost opportunity, or other consequential, direct, indirect and incidental damages, of any kind.

SECTION 17 ACCOUNTING RECORDS.

17.1 Financial Management and City Access.

Contractor shall keep full and detailed accounts and exercise such controls as may be necessary for proper financial management under this Construction Contract in accordance with generally accepted accounting principles and practices. City and City's accountants during normal business hours, may inspect, audit and copy Contractor's records, books, estimates, take-offs, cost reports, ledgers, schedules, correspondence, instructions, drawings, receipts, subcontracts, purchase orders, vouchers, memoranda and other data relating to this Project. Contractor shall retain these documents for a period of three (3) years after the later of (i) Final Payment or (ii) final resolution of all Contract Disputes and other disputes, or (iii) for such longer period as may be required by law.

17.2 Compliance with City Requests.

Contractor's compliance with any request by City pursuant to this Section 17 shall be a condition precedent to filing or maintenance of any legal action or proceeding by Contractor against City and to Contractor's right to receive further payments under the Contract Documents. City may enforce Contractor's obligation to provide access to City of its business and other records referred to in Section 17.1 for inspection or copying by issuance of a writ or a provisional or permanent mandatory injunction by a court of competent jurisdiction based on affidavits submitted to such court, without the necessity of oral testimony.

SECTION 18 INDEPENDENT PARTIES.

18.1 Status of parties.

Each party is acting in its independent capacity and not as agents, employees, partners, or joint ventures' of the other party. City, its officers or employees shall have no control over the conduct of Contractor or its respective agents, employees, subconsultants, or subcontractors, except as herein set forth.

SECTION 19 NUISANCE.

19.1 Nuisance Prohibited.

Contractor shall not maintain, commit, nor permit the maintenance or commission of any nuisance in connection in the performance of services under this Construction Contract.

SECTION 20 PERMITS AND LICENSES.

20.1 Payment of Fees.

Except as otherwise provided in the Special Provisions and Technical Specifications, The Contractor shall provide, procure and pay for all licenses, permits, and fees, required by the City or other government jurisdictions or agencies necessary to carry out and complete the Work. Payment of all costs and expenses for such licenses, permits, and fees shall be included in one or more Bid items. No other compensation shall be paid to the Contractor for these items or for delays caused by non-City inspectors or conditions set forth in the licenses or permits issued by other agencies.

SECTION 21 WAIVER.

21.1 Waiver.

A waiver by either party of any breach of any term, covenant, or condition contained herein shall not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant, or condition contained herein, whether of the same or a different character.

SECTION 22 GOVERNING LAW AND VENUE; COMPLIANCE WITH LAWS.

22.1 Governing Law.

This Construction Contract shall be construed in accordance with and governed by the laws of the State of California, and venue shall be in a court of competent jurisdiction in the County of Santa Clara, and no other place.

22.2 Compliance with Laws.

Contractor shall comply with all applicable federal and California laws and city laws, including, without limitation, ordinances and resolutions, in the performance of work under this Construction Contract.

22.2.1 Palo Alto Minimum Wage Ordinance. Contractor shall comply with all requirements of the Palo Alto Municipal Code Chapter 4.62 (Citywide Minimum Wage), as it may be amended from time to time. In particular, for any employee otherwise entitled to the State minimum wage, who performs at least two (2) hours of work in a calendar week within the geographic boundaries of the City, Contractor shall pay such employees no less than the minimum wage set forth in Palo Alto Municipal Code section 4.62.030 for each hour worked within the geographic boundaries of the City of Palo Alto. In addition, Contractor shall post notices regarding the Palo Alto Minimum Wage Ordinance in accordance with Palo Alto Municipal Code section 4.62.060.

SECTION 23 COMPLETE AGREEMENT.

23.1 Integration.

This Agreement represents the entire and integrated agreement between the parties and supersedes all prior negotiations, representations, and contracts, either written or oral. This Agreement may be amended only by a written instrument, which is signed by the parties.

SECTION 24 SURVIVAL OF CONTRACT.

24.1 Survival of Provisions.

The provisions of the Construction Contract which by their nature survive termination of the Construction Contract or Final Completion, including, without limitation, all warranties, indemnities, payment obligations, and City's right to audit Contractor's books and records, shall remain in full force and effect after Final Completion or any termination of the Construction Contract.

SECTION 25 PREVAILING WAGES.

This Project is not subject to prevailing wages. Contractor is not required to pay prevailing wages in the performance and implementation of the Project in accordance with SB 7, if the public works contract does not include a project of \$25,000 or less, when the project is for construction work, or the contract does not include a project of \$15,000 or less, when the project is for alteration, demolition, repair, or maintenance (collectively, 'improvement') work.

Or

Contractor is required to pay general prevailing wages as defined in Subchapter 3, Title 8 of the California Code of Regulations and Section 16000 et seq. and Section 1773.1 of the California Labor Code. Pursuant to the provisions of Section 1773 of the Labor Code of the State of California, the City Council has obtained the general prevailing rate of per diem wages and the general rate for holiday and overtime work

in this locality for each craft, classification, or type of worker needed to execute the contract for this Project from the Director of the Department of Industrial Relations (“DIR”). Copies of these rates may be obtained at the Purchasing Division’s office of the City of Palo Alto. Contractor shall provide a copy of prevailing wage rates to any staff or subcontractor hired, and shall pay the adopted prevailing wage rates as a minimum. Contractor shall comply with the provisions of all sections, including, but not limited to, Sections 1775, 1776, 1777.5, 1782, 1810, and 1813, of the Labor Code pertaining to prevailing wages.

SECTION 26 NON-APPROPRIATION.

26.1 Appropriations.

This Agreement is subject to the fiscal provisions of the Charter of the City of Palo Alto and the Palo Alto Municipal Code. This Agreement will terminate without any penalty (a) at the end of any fiscal year in the event that the City does not appropriate funds for the following fiscal year for this event, or (b) at any time within a fiscal year in the event that funds are only appropriated for a portion of the fiscal year and funds for this Construction Contract are no longer available. This section shall take precedence in the event of a conflict with any other covenant, term, condition, or provision of this Agreement.

SECTION 27 AUTHORITY.

27.1 Representation of Parties.

The individuals executing this Agreement represent and warrant that they have the legal capacity and authority to do so on behalf of their respective legal entities.

SECTION 28 COUNTERPARTS

28.1 Multiple Counterparts.

This Agreement may be signed in multiple counterparts, which shall, when executed by all the parties, constitute a single binding agreement.

SECTION 29 SEVERABILITY.

29.1 Severability.

In case a provision of this Construction Contract is held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not be affected.

SECTION 30 STATUTORY AND REGULATORY REFERENCES.

30.1 Amendments to Laws.

With respect to any amendments to any statutes or regulations referenced in these Contract Documents, the reference is deemed to be the version in effect on the date that the Contract was awarded by City, unless otherwise required by law.

SECTION 31 WORKERS’ COMPENSATION CERTIFICATION.

31.1 Workers Compensation.

Pursuant to Labor Code Section 1861, by signing this Contract, Contractor certifies as follows:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work on this Contract."

SECTION 32 DIR REGISTRATION AND OTHER SB 854 REQUIREMENTS.

32.1 General Notice to Contractor.

City requires Contractor and its listed subcontractors to comply with the requirements of SB 854.

32.2 Labor Code section 1771.1(a)

City provides notice to Contractor of the requirements of California Labor Code section 1771.1(a), which reads:

"A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded."

32.3 DIR Registration Required.

City will not accept a bid proposal from or enter into this Construction Contract with Contractor without proof that Contractor and its listed subcontractors are registered with the California Department of Industrial Relations ("DIR") to perform public work, subject to limited exceptions.

32.4 Posting of Job Site Notices.

City gives notice to Contractor and its listed subcontractors that Contractor is required to post all job site notices prescribed by law or regulation and Contractor is subject to SB 854-compliance monitoring and enforcement by DIR.

32.5 Payroll Records.

City requires Contractor and its listed subcontractors to comply with the requirements of Labor Code section 1776, including:

- (i) Keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by, respectively, Contractor and its listed subcontractors, in connection with the Project.

- (ii) The payroll records shall be verified as true and correct and shall be certified and made available for inspection at all reasonable hours at the principal office of Contractor and its listed subcontractors, respectively.

(iii) At the request of City, acting by its project manager, Contractor and its listed subcontractors shall make the certified payroll records available for inspection or furnished upon request to the project manager within ten (10) days of receipt of City's request.

City requests Contractor and its listed subcontractors to submit the certified payroll records to the project manager at the end of each week during the Project.

(iv) If the certified payroll records are not produced to the project manager within the 10-day period, then Contractor and its listed subcontractors shall be subject to a penalty of one hundred dollars (\$100.00) per calendar day, or portion thereof, for each worker, and City shall withhold the sum total of penalties from the progress payment(s) then due and payable to Contractor. This provision supplements the provisions of Section 15 hereof.

(v) Inform the project manager of the location of contractor's and its listed subcontractors' payroll records (street address, city and county) at the commencement of the Project, and also provide notice to the project manager within five (5) business days of any change of location of those payroll records.

IN WITNESS WHEREOF, the parties have caused this Construction Contract to be executed the date and year first above written.

CITY OF PALO ALTO

 Purchasing Manager
 City Manager

APPROVED AS TO FORM:

City Attorney or designee

APPROVED:

Utilities Director

CONTRACTOR

Officer 1
By: _____

Name: _____

Title: _____

Date: _____

Officer 2
By: _____

Name: _____

Title: _____

Date: _____

ATTACHMENT B

**CITY OF PALO ALTO
BID SUMMARY
WATER MAIN REPLACEMENT PROJECT 27; CIP WS-13001, IFB 17527E**

Bid Date: 6/25/19

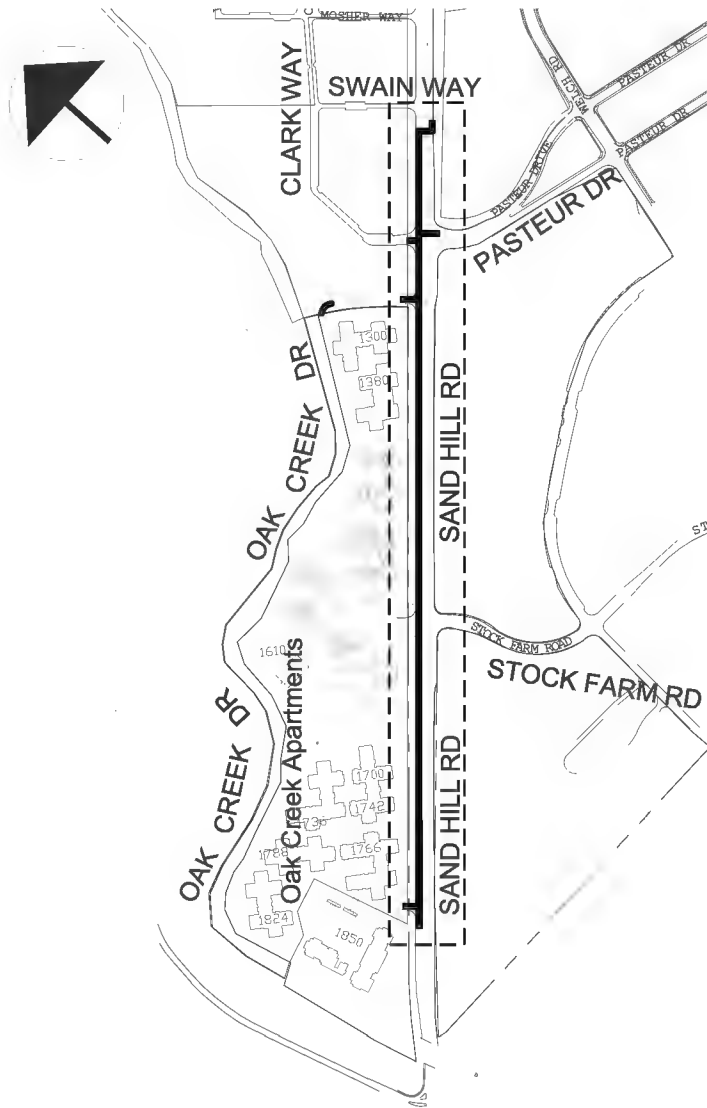
BID SUMMARY				ENGINEER'S ESTIMATE		CRATUS, Inc. (non-responsive bidder)		RANGER PIPELINES, Inc.		DALEO, Inc.	
Item No.	Quantity	Unit	Description	Unit Price (\$)	Extended Price (\$)	Unit Price (\$)	Extended Price (\$)	Unit Price (\$)	Extended Price (\$)	Unit Price (\$)	Extended Price (\$)
BASE BID											
1	823	LF	Install 8" HDPE pipe by HDD or open cut method	\$300.00	\$246,900.00	\$425.00	\$349,775.00	\$420.00	\$345,660.00	\$241.45	\$198,713.35
2	600	LS	Install 8" HDPE pipe by HDD or open cut method (pipe material provided by the City)	\$280.00	\$168,000.00	\$400.00	\$240,000.00	\$410.00	\$246,000.00	\$224.10	\$134,460.00
3	18	LF	Install 10" HDPE pipe by HDD or open cut method	\$410.00	\$7,380.00	\$450.00	\$8,100.00	\$595.00	\$10,710.00	\$597.00	\$10,746.00
4	238	LF	Install 12" HDPE pipe by HDD or open cut method	\$450.00	\$107,100.00	\$475.00	\$113,050.00	\$605.00	\$143,990.00	\$721.50	\$171,717.00
5	154	LF	Install 14" HDPE pipe by HDD or open cut method	\$500.00	\$77,000.00	\$500.00	\$77,000.00	\$625.00	\$96,250.00	\$742.75	\$114,383.50
6	3,000	LF	Install 16" HDPE pipe by HDD or open cut method	\$610.00	\$1,830,000.00	\$580.00	\$1,740,000.00	\$685.00	\$2,055,000.00	\$741.85	\$2,225,550.00
7	7	LF	Install 8" PVC pipe by open cut method at tie-in locations	\$180.00	\$1,260.00	\$1,000.00	\$7,000.00	\$600.00	\$4,200.00	\$711.60	\$4,981.20
8	21	LF	Install 10" PVC pipe by open cut method at tie-in locations	\$200.00	\$4,200.00	\$1,000.00	\$21,000.00	\$610.00	\$12,810.00	\$761.60	\$15,993.60
9	92	LF	Install 12" PVC pipe by open cut method at tie-in locations	\$220.00	\$20,240.00	\$1,000.00	\$92,000.00	\$615.00	\$56,580.00	\$767.20	\$70,582.40
10	18	LF	Install 14" PVC pipe by open cut method at tie-in locations	\$240.00	\$4,320.00	\$1,000.00	\$18,000.00	\$620.00	\$11,160.00	\$844.00	\$15,192.00
11	15	LF	Install 8" DI pipe by open cut method at tie-in or other locations	\$400.00	\$6,000.00	\$1,000.00	\$15,000.00	\$650.00	\$9,750.00	\$711.60	\$10,674.00
12	46	LF	Install 12" DI pipe by open cut method at tie-in locations	\$500.00	\$23,000.00	\$1,000.00	\$46,000.00	\$655.00	\$30,130.00	\$767.20	\$35,291.20
13	32	LS	Install 2" HDPE services to 5/8" or 1" meter by HDD or open cut method	\$4,000.00	\$128,000.00	\$5,000.00	\$160,000.00	\$5,250.00	\$168,000.00	\$7,790.00	\$249,280.00
14	1	LS	Install 4" HDPE service to 2" meters manifold (1850 Sand Hill Road)	\$11,000.00	\$11,000.00	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00	\$22,595.00	\$22,595.00
15	1	LS	Install 8" HDPE service to 6" meter by HDD or open cut method and exchange 6" meter (1742 Sand Hill Road)	\$16,000.00	\$16,000.00	\$15,000.00	\$15,000.00	\$25,000.00	\$25,000.00	\$42,100.00	\$42,100.00
16	11	EA	Install new fire hydrant assembly, abandon/remove existing fire hydrant assembly	\$15,500.00	\$170,500.00	\$15,000.00	\$165,000.00	\$18,500.00	\$203,500.00	\$17,810.00	\$195,910.00
17	1	LS	Install 2" HDPE service to 2" meter by HDD or open cut method and connect to meter flange (1725 Sand Hill Road)	\$18,000.00	\$18,000.00	\$10,000.00	\$10,000.00	\$15,500.00	\$15,500.00	\$37,925.00	\$37,925.00
18	1	EA	Perform 6" water main tie-in/abandonment	\$8,000.00	\$8,000.00	\$7,000.00	\$7,000.00	\$10,500.00	\$10,500.00	\$6,790.00	\$6,790.00
19	1	EA	Perform 8" water main tie-in/abandonment	\$9,000.00	\$9,000.00	\$8,000.00	\$8,000.00	\$10,800.00	\$10,800.00	\$6,790.00	\$6,790.00
20	2	EA	Perform 10" water main tie-in/abandonment	\$10,000.00	\$20,000.00	\$9,000.00	\$18,000.00	\$11,100.00	\$22,200.00	\$7,900.00	\$15,800.00
21	5	EA	Perform 12" water main tie-in/abandonment	\$11,000.00	\$55,000.00	\$10,000.00	\$50,000.00	\$11,400.00	\$57,000.00	\$8,050.00	\$40,250.00
22	1	EA	Install 4"/6" linestopper	\$9,000.00	\$9,000.00	\$12,000.00	\$12,000.00	\$8,000.00	\$8,000.00	\$9,430.00	\$9,430.00
23	1	EA	Install 10" linestopper	\$12,900.00	\$12,900.00	\$20,000.00	\$20,000.00	\$12,500.00	\$12,500.00	\$12,800.00	\$12,800.00
24	2	EA	Install 12" linestopper	\$14,900.00	\$29,800.00	\$24,000.00	\$48,000.00	\$14,500.00	\$29,000.00	\$14,490.00	\$28,980.00
25	4	EA	Install 8" gate valve	\$4,000.00	\$16,000.00	\$3,000.00	\$12,000.00	\$3,000.00	\$12,000.00	\$6,425.00	\$25,700.00
26	3	EA	Install 12" gate valve	\$7,000.00	\$21,000.00	\$5,000.00	\$15,000.00	\$4,000.00	\$12,000.00	\$7,810.00	\$23,430.00
27	2	EA	Install 14" gate valve	\$9,000.00	\$18,000.00	\$8,000.00	\$16,000.00	\$10,000.00	\$20,000.00	\$12,960.00	\$25,920.00
28	5	EA	Install 16" gate valve	\$15,000.00	\$75,000.00	\$11,000.00	\$55,000.00	\$11,000.00	\$55,000.00	\$13,900.00	\$69,500.00
29	16	EA	Exchange 5/8" or 1" meters	\$250.00	\$4,000.00	\$3,000.00	\$48,000.00	\$150.00	\$2,400.00	\$500.00	\$8,000.00
30	1	LS	Abandon existing 6" CIP on Tennyson NE of Fulton including valve removal and capping main	\$1,800.00	\$1,800.00	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$33,840.00	\$33,840.00
31	1	LS	Perform GPS survey	\$78,000.00	\$78,000.00	\$75,000.00	\$75,000.00	\$10,000.00	\$10,000.00	\$45,000.00	\$45,000.00
Total of Base Bid (Items 1 through 31 only, with all applicable taxes included)					\$3,196,400.00		\$3,475,925.00		\$3,725,640.00		\$3,908,324.25
B: OPTIONAL/ADD ALTERNATE BID											
32	1,000	LF	Install sheeting, shoring and bracing.	\$5.00	\$5,000.00	\$5.00	\$5,000.00	\$5.00	\$5,000.00	\$15.00	\$15,000.00
33	150	CY	Recycle asphalt w/ Petro Mat	\$25.00	\$3,750.00	\$10.00	\$1,500.00	\$75.00	\$11,250.00	\$50.00	\$7,500.00
34	300	LF	Perform removal of existing ACP water main	\$30.00	\$9,000.00	\$20.00	\$6,000.00	\$5.00	\$1,500.00	\$225.60	\$67,680.00
35	3	EA	Perform removal of existing tee or cross at tie-in locations	\$1,800.00	\$5,400.00	\$1,000.00	\$3,000.00	\$250.00	\$750.00	\$500.00	\$1,500.00
36	10	EA	Install 2" temporary blow-off/sample station	\$1,000.00	\$10,000.00	\$5,000.00	\$50,000.00	\$250.00	\$2,500.00	\$2,500.00	\$25,000.00
37	3	EA	Install 1" air/vacuum valve combo	\$5,500.00	\$16,500.00	\$5,000.00	\$15,000.00	\$500.00	\$1,500.00	\$5,450.00	\$16,350.00
38	3	EA	Install 2" air/vacuum valve combo	\$6,000.00	\$18,000.00	\$5,000.00	\$15,000.00	\$500.00	\$1,500.00	\$6,100.00	\$18,300.00
39	200	LF	Install 14" DI pipe by open cut method	\$550.00	\$110,000.00	\$100.00	\$20,000.00	\$100.00	\$20,000.00	\$767.20	\$153,440.00
40	200	LF	Install 16" DI pipe by open cut method	\$600.00	\$120,000.00	\$100.00	\$20,000.00	\$100.00	\$20,000.00	\$767.20	\$153,440.00
41	10	EA	Relocate existing water meter due to immovable obstruction (greater than 5-feet)	\$300.00	\$3,000.00	\$5,000.00	\$50,000.00	\$100.00	\$1,000.00	\$500.00	\$5,000.00
42	1	EA	Install stem into existing line stop saddle on 4"/6" existing main	\$4,100.00	\$4,100.00	\$10,000.00	\$10,000.00	\$4,000.00	\$4,000.00	\$8,430.00	\$8,430.00
43	1	EA	Install 2" HDPE services to 1-1/2" or 2" meter by HDD or open cut method	\$4,200.00	\$4,200.00	\$5,000.00	\$5,000.00	\$4,750.00	\$4,750.00	\$7,990.00	\$7,990.00
44	1	EA	Install 2" HDPE services to 5/8" or 1" meter manifold by HDD or open cut method	\$6,000.00	\$6,000.00	\$7,500.00	\$7,500.00	\$4,950.00	\$4,950.00	\$7,790.00	\$7,790.00
45	4	EA	Reconnect existing water service	\$4,200.00	\$16,800.00	\$2,500.00	\$10,000.00	\$150.00	\$600.00	\$7,200.00	\$28,800.00
46	1	EA	Reconnect existing 6" fire service pipe at the main	\$8,000.00	\$8,000.00	\$7,500.00	\$7,500.00	\$500.00	\$500.00	\$10,200.00	\$10,200.00
47	1	EA	Reconnect existing 6" fire service pipe at the property line	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$500.00	\$500.00	\$10,200.00	\$10,200.00
48	1	EA	Install 10" gate valve	\$5,300.00	\$5,300.00	\$5,000.00	\$5,000.00	\$3,250.00	\$3,250.00	\$7,500.00	\$7,500.00
49	2	EA	Exchange 1-1/2" or 2" meters	\$269.00	\$538.00	\$1,500.00	\$3,000.00	\$150.00	\$300.00	\$750.00	\$1,500.00
50	3	EA	Replace existing meter box with new Armorcast 11"x21"x12" box assembly	\$300.00	\$900.00	\$2,000.00	\$6,000.00	\$150.00	\$450.00	\$350.00	\$1,050.00
51	3	EA	Replace existing meter box with new Armorcast 17"x30"x12" box assembly	\$500.00	\$1,500.00	\$2,500.00	\$7,500.00	\$250.00	\$750.00	\$850.00	\$2,550.00
52	3	EA	Replace existing meter box with new Armorcast 24"x36"x12" box assembly	\$600.00	\$1,800.00	\$3,000.00	\$9,000.00	\$500.00	\$1,500.00	\$1,600.00	\$4,800.00
53	1,500	SF	Install additional concrete pavement	\$15.00	\$22,500.00	\$5.00	\$7,500.00	\$5.00	\$7,500.00	\$35.00	\$52,500.00
54	700	SF	Perform additional restoration for concrete panels on Fulton	\$30.00	\$21,000.00	\$20.00	\$14,000.00	\$15.00	\$10,500.00	\$32.00	\$22,400.00
55	3,000	SF	Install additional asphalt concrete pavement	\$15.00	\$45,000.00	\$3.00	\$9,000.00	\$7.00	\$21,000.00	\$11.00	\$33,000.00
56	500	LF	Install additional curb	\$25.00	\$12,500.00	\$10.00	\$5,000.00	\$10.00	\$5,000.00	\$35.00	\$17,500.00
57	500	LF	Install additional gutter	\$25.00	\$12,500.00	\$10.00	\$5,000.00	\$10.00	\$5,000.00	\$35.00	\$17,500.00
58	500	SF	Install additional sidewalk	\$15.00	\$7,500.00	\$5.00	\$2,500.00	\$5.00	\$2,500.00	\$32.00	\$16,000.00
59	20,000	Inch/SF	Install additional pavement (thickness)	\$1.00	\$20,000.00	\$0.25	\$5,000.00	\$0.25	\$5,000.00	\$2.00	\$40,000.00
60	10,000	Inch/LF	Sawcut additional pavement (thickness)	\$0.25	\$2,500.00	\$0.25	\$2,500.00	\$0.05	\$500.00	\$0.40	\$4,000.00
61	500	LF	Perform additional sawcutting	\$2.00	\$1,000.00	\$1.00	\$500.00	\$1.00	\$500.00	\$4.15	\$2,075.00
62	25,000	SF	Install slurry seal	\$2.50	\$62,500.00	\$2.00	\$50,000.00	\$0.25	\$6,250.00	\$0.70	\$17,500.00
63	15	EA	Abandon existing valves	\$120.00	\$1,800.00	\$100.00	\$1,500.00	\$25.00	\$375.00	\$500.00	\$7,500.00
64	10	EA	Remove unused meter boxes	\$60.00	\$600.00	\$100.00	\$1,000.00	\$25.00	\$250.00	\$250.00	\$2,500.00
65	7	EA	Deep service connections/deep tie-ins (at mains up to 8", if depth of cover exceeds 5.5-feet)	\$800.00	\$5,600.00	\$2,000.00	\$14,000.00	\$500.00	\$3,500.00	\$1,800.00	\$12,600.00
66	7	EA	Deep service connections/deep tie-ins (at 10" or larger mains, if depth of cover exceeds 7-feet)	\$1,000.00	\$7,000.00	\$2,500.00	\$17,500.00	\$500.00	\$3,500.00	\$2,500.00	\$17,500.00
67	10	EA	Additional pothole due to USA mismatch	\$1,500.00	\$15,000.00	\$2,000.00	\$20,000.00	\$50.00	\$500.00	\$650.00	\$6,500.00
68	10	Ton	Disposal of excavated soils at Class 1 landfill	\$350.00	\$3,500.00	\$150.00	\$1,500.00	\$150.00	\$1,500.00	\$800.00	\$8,000.00
69	10	Ton	Disposal of excavated soils at Class 2 landfill	\$250.00	\$2,500.00	\$100.00	\$1,000.00	\$75.00	\$750.00	\$450.00	\$4,500.00
Total of Optional/Add Alternate Bid 1 (Items 32 through 69 only, with all applicable taxes included)					\$602,788.00		\$423,500.00		\$160,675.00		\$835,595.00
70	1	LS	Install 18" Butterfly Valve (Old Page Mill Road)	\$80,000.00	\$80,000.00	\$25,000.00	\$25,000.00	\$135,000.00	\$135,000.00	\$155.00	\$155,000.00
71	1	LS	Furnish and Install (2) Line Stops (Old Page Mill Road)	\$60,000.00	\$60,000.00	\$20,000.00	\$20,000.00	\$55,000.00	\$55,000.00	\$40,200.00	\$40,200.00
72	1	LS	Furnish and Install (2) Fire Hydrants (Old Page Mill Road)	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$40,000.00	\$40,000.00	\$35,250.00	\$35,250.00
73	1	LS	Furnish and Install (2) Air/Vacuum Valves (Old Page Mill Road)	\$15,000.00	\$15,000.00	\$12,000.00	\$12,000.00	\$10,000.00	\$10,000.00	\$15,100.00	\$15,100.00
74	1	LS	Furnish and Install (2) 18" Couplings (Old Page Mill Road)	\$10,000.00	\$10,000.00	\$5,000.00</					

ATTACHMENT C

PAGE 1 OF 2

LEGEND

— Water Main Replacement



Area I
SAND HILL ROAD



Area II
FULTON/TENNYSON

WMR 27

PROJECT LOCATION MAP (AREAS I AND II)

NOT TO SCALE

ATTACHMENT C

PAGE 2 OF 2



Area III
OLD PAGE MILL ROAD

WMR 27

PROJECT LOCATION MAP (AREA III)

NOT TO SCALE