



RESOLUTION NO. U-11256

1 A RESOLUTION related to Tacoma Water; authorizing participation in a City of
2 Tacoma, Public Works' Water Replacement Project called Street
3 Initiative Package No. 14 to replace approximately 1,500 feet of 4-inch to
4 6-inch water main.

5 WHEREAS the City of Tacoma, Tacoma Public Utilities, Water Division
6 ("Tacoma Water") is requesting authorization to participate in the City of
7 Tacoma, Public Works Department ("Public Works") and Water Replacement
8 Project called Street Initiative Package No. 14, and

9 WHEREAS Tacoma Water is partnering with Public Works in Street
10 Initiative Package No. 14 to reconstruct existing roadways and water main, and

11 WHEREAS Tacoma Water proposes to replace approximately 1,500 feet
12 of 4-inch to 6-inch water main, constructed circa 1908-1948, along North 16th
13 Street, from North Alder Street to North Junett Street, North 17th Street, from
14 North Cedar Street to North Junett Street, North Madison Street, from North 31st
15 Street to North 32nd Street, and North 32nd Street, from North Madison Street to
16 the end of North 32nd Street, and
17

18 WHEREAS Tacoma Water's approximate total cost is \$447,745.25,
19 including a partner administration cost in the amount of \$11,293.55, plus a
20 fifteen percent contingency, for a cumulative total of \$514,907.04, plus
21 applicable taxes, and have been included in budget planning, and
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23 WHEREAS the opportunity to participate in this contract allows Tacoma
24 Water's water main work to be executed concurrently with Public Works'
25
26



contract in the same area, resulting in reduced construction impacts and reduced overall project costs while improving project delivery, and

WHEREAS Tacoma Water requests authority to participate in the Public Works' contract for Street Initiative Package No. 14 for the above purpose and reasons; Now, Therefore,

BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

That Tacoma Water is authorized to participate in the Public Works' contract called Street Initiative Package No. 14, which includes the Water Replacement Project to replace approximately 1,500 feet of 4-inch to 6-inch water main, along North 16th Street, from North Alder Street to North Junett Street, North 17th Street, from North Cedar Street to North Junett Street, North Madison Street, from North 31st Street to North 32nd Street, and North 32nd Street, from North Madison Street to the end of North 32nd Street, in the approximate cost of \$447,745.25, including a partner administration cost in the amount of \$11,293.55, plus a fifteen percent contingency, for a cumulative total of \$514,907.04, plus applicable taxes, and the proper officers of the City are authorized to execute an agreement in a form as approved by the City Attorney.

Approved as to form:

Chair

/s/

Chief Deputy City Attorney

Secretary

Clerk

Adopted _____



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities
COPY: Charleen Jacobs, Director and Board Offices
FROM: Scott Dewhirst, Utilities Dir Dep Water Supt, Tacoma Water *HLP for*
 Troy Saghafi, Professional Engineer, Tacoma Water
MEETING DATE: May 26th, 2021
DATE: May 12, 2021

STRATEGIC DIRECTIVE ALIGNMENT (select as many that apply):

Please indicate which of the Public Utility Board's Strategic Directives is supported by this action.

- | | |
|--|---|
| <input type="checkbox"/> SD1 – Equity & Inclusion | <input type="checkbox"/> SD8 – Telecom |
| <input type="checkbox"/> SD2 – Financial Sustainability | <input type="checkbox"/> SD9 – Economic Development |
| <input type="checkbox"/> SD3 – Rates | <input type="checkbox"/> SD10 – Government Relations |
| <input type="checkbox"/> SD4 – Stakeholder Engagement | <input type="checkbox"/> SD11 – Decarbonization/Electric Vehicles |
| <input type="checkbox"/> SD5 – Environmental Leadership | <input type="checkbox"/> SD12 – Employee Relations |
| <input type="checkbox"/> SD6 – Innovation | <input type="checkbox"/> SD13 – Customer Service |
| <input checked="" type="checkbox"/> SD7 – Reliability & Resiliency | <input type="checkbox"/> SD14 – Resource Planning |

SUMMARY:

Authorize Tacoma Water to participate in the City of Tacoma, Public Works Department and Water Replacement Project called Street Initiative Package No. 14. Tacoma Water proposes to replace approximately 1,500 feet of 4-inch to 6-inch water main. The total project cost is \$447,745.25 which includes a partner administration cost of \$11,293.55, plus a 15 percent contingency, for a cumulative total of \$514,907.04, plus applicable taxes.

Tacoma Water believes it is in the best interest of the utility and its customers to include the water main work in the Public Works project. Project partnership will improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to the residents.

BACKGROUND:

Tacoma Water is partnering with Public Works to reconstruct existing roadways and replace water main along the following locations:

Street	Extents	Existing type	Year	Length (ft)
N. 16 th Street	N. Alder St. to N. Junett St.	6" Cast Iron	1947	575
N 17 th St.	N. Cedar St. to N. Junett St.	6" Cast Iron	1908	297
N. Madison St.	N. 31 st St. to N. 32 nd St.	4" Cast Iron	1948	308
N. 32 nd St.	N. Madison St. to the end of N 32 nd St.	6" Cast Iron	1948	279
Total				1,459



Board Action Memorandum

This project will also replace aging surface water, wastewater, curb ramps and street improvements.

Project partner contributions are summarized in the Public Works/Water Secondary Agreement.

ISSUE: Existing water main is upwards of 70 to 110 years old. Sections of the water main are near the end of its operational life.

ALTERNATIVES: Rehabilitating the existing water main is cost prohibitive. It is more cost effective to mitigate the risk of future water main breaks under a new roadway by replacing the water main.

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF THE ACTION REQUESTED IS APPROVAL OF A CONTRACT, INCLUDE LANGUAGE IN RESOLUTION AUTHORIZING \$200,000 INCREASE IN ADMINISTRATIVE AUTHORITY TO DIRECTOR? Yes.

ATTACHMENTS: Project Map
City Manager Action Memorandum
Secondary Agreement for Joint Project Tacoma Water – Public Works

CONTACT: Troy Saghafi, Professional Engineer, 253-345-8445
Ali Polda, Principal Engineer, 253-502-8152

Project Extents – N. 16th, N. 17th, N. Madison, & N. 32nd





PLEASE SEND FINAL DRAFT – WITH TRACKED CHANGES ON – TO [SR BUYER](#) FOR REVIEW AND APPROVAL. THEN SEND SR BUYER’S APPROVAL EMAIL WITH THE MEMO [TO THE C&A COORDINATOR](#)

TO: Elizabeth Pauli, City Manager or delegee
FROM: Kurtis D. Kingsolver, P.E., Public Works Director/City Engineer
Basel Kitmitto, P.E., Project Manager, Public Works Engineering
COPY: City Manager, City Council, City Clerk, EIC Coordinator, LEAP Coordinator, and
Doreen Klaaskate, Finance/Purchasing
SUBJECT: Streets Initiative Package #14
Request for Bids Specification No. PW21-0434F
DATE: [5/6/2021]

Pursuant to the City of Tacoma March 12, 2020, state of emergency proclamation in response to COVID-19, made in accordance with Tacoma Municipal Code Chapter 1.10., contract awards for purchases must be approved by the City Manager or delegee.

RECOMMENDATION SUMMARY:

The Public Works Department recommends a contract be awarded to Tucci & Sons Inc, in the amount of \$4,195,519.25, plus a 15 percent contingency, for a cumulative total of \$4,824,847.13, plus applicable taxes, budgeted from various departmental funds for the construction of new roadway sections, asphalt grind and overlay, new catch basins, sanitary and storm sewer infrastructure upgrades, water infrastructure upgrades, curb ramp improvements as needed, alley way access replacement as needed, sidewalk repair where feasible, and curb/gutter repair as needed. This project also includes residential sidewalk replacement slope stabilization for a portion of roadway on the western side of Norpoint Way and guardrail replacement Northshore Parkway both in Northeast Tacoma.

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STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Ensure all Tacoma residents are valued and have access to resources to meet their needs.
- Assure outstanding stewardship of the natural and built environment.
- Encourage and promote an efficient and effective government, which is fiscally sustainable and guided by engaged residents.

The project will improve the roadway and utility infrastructure by rehabilitating driving surfaces for vehicles and bicycles, replacing curb ramps to meet ADA standards, replacing/upgrading existing water, storm sewer and sanitary sewer utility lines, installing new water, storm sewer and sanitary sewer utility lines where necessary, and replacing guardrail that damaged from a car accident. Planting of trees is also a part of the project where feasible.



BACKGROUND:

The citizens of Tacoma approved the Street Initiatives (Proposition A and Proposition No. 3) in November 2015, approving funding to repair and improve City streets. The 2015 Voted Street Initiative Fund 1085 was created and approved by the City Council under Ordinance No. 28344 on February 9, 2016. This fund provides for arterial street improvements, non-motorized improvements, and residential street repairs.

ISSUE: The project's construction includes new roadway sections where existing road section failure exists, asphalt grind and overlay where feasible to maintain roadway surfaces, and curb/gutter repair as needed. The project also includes the construction of sanitary and storm sewer infrastructure upgrades, as well as water infrastructure installation and upgrades. Curb ramp improvements, alley way access replacement and sidewalk repair where feasible will be completed as needed to meet ADA standards. This project also includes residential sidewalk replacement where damaged sidewalks have been reported to the City, slope stabilization for a portion of failing roadway on the western side of Norpoint Way, and guardrail replacement damaged by a car accident on the Northshore Parkway in Northeast Tacoma.

ALTERNATIVES: The alternative to performing the street restoration and improvements is to complete only minor repairs, which would not meet the intent of the voter-approved initiative .

COMPETITIVE SOLICITATION:

Request for Bid Specification No. PW21-0434F was opened April 13, 2021. 38 companies were invited to bid in addition to normal advertising of the project. Three (3) submittals were received.

Tucci & Sons Inc submitted a bid that resulted in the lowest evaluated submittal after consideration of EIC participation goals.

The table below reflects the amount of the base award.

<u>Respondent</u>	<u>Location</u> (city and state)	<u>Submittal</u> <u>Amount</u>
Tucci & Sons Inc	Tacoma, WA	\$4,195,519.25
Northwest Cascade Inc	Puyallup, WA	\$4,564,558.60
Pivetta Brothers Construction	Sumner, WA	\$4,962,709.81

Pre-bid Estimate: \$4,519,473.00

The recommended award is 7 percent below the pre-bid estimate.

Based on the estimated 140 working days staff believes this project will result in 11,200 labor hours.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: Include an explanation of how sustainability factors were considered, per the Sustainable Procurement policy in section XXIV. A. of the Purchasing Policy Manual.



EIC/LEAP COMPLIANCE: The recommended contractor is in compliance with the Equity in Contracting (EIC) Regulation requirements per memorandum dated April 15, 2021. The EIC requirements for this project are MBE 9 percent, WBE 5 percent and SBE 14 percent. The EIC utilization levels of the recommended contractor, **Tucci & Sons Inc**, are MBE 11.19 percent, WBE 11.72 percent, and SBE 14.61 percent. The Local Employment and Apprenticeship Training Program (LEAP) requirements include a Local Employment Goal of 15 percent and an Apprentice Utilization Goal of 15 percent.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
1085			\$2,811,706.15
4300 ES Wastewater Fund			\$1,268,052.02
4301 ES Surface Water Fund			\$243,169.51
4600 Tacoma Water Fund	WTR-00478-02-03	5330100	\$501,919.45
TOTAL			Up to \$4,824,847.13

* General Fund: Include Department

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
1085			\$2,811,706.15
4300 ES Wastewater Fund			\$1,268,052.02
4301 ES Surface Water Fund			\$243,169.51
4600 Tacoma Water Fund	581200	Rate Revenues	\$501,919.45
TOTAL			\$4,824,847.13



FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$4,824,847.13

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED. N/A

APPROVED

Elizabeth A. Pauli, City Manager (or delegee)



DATE: May 12, 2021

TO: Jessica Knickerbocker, P.E., Project Delivery Manager, Tacoma Water
Chris Larson, P.E. Public Works Division Manager

FROM: Troy Saghafi, P.E., Professional Engineer, Tacoma Water ^{PK}
Basel Kitmitto, Project Manager, Public Works ^{TS}

SUBJECT: Secondary Agreement for Joint Tacoma Water – Public Works Project
Street Initiative Package No. 14, Specification No. PW21-0434F
MRP 2019-44 / PWK-00434-14

This Agreement outlines the terms and conditions for partnering for the Street Initiative Package No. 14 Project. Our respective organizations believe a coordinated effort to replace the water, sanitary sewer, and storm infrastructure in conjunction with streets and sidewalk ramp improvements) under a single City of Tacoma contract will result in efficiency and cost savings for all parties. Additionally, a joint project will minimize construction disturbance to adjacent businesses and the general public. The following summarizes the arrangements, assumptions, and action items necessary to move forward with this project:

- The project extents are N.16th Street, from N. Alder St. to N. Junett St., N 17th St., from N. Cedar St. to N. Junett St., N. Madison St., from N. 31st St. to N. 32nd St., and N. 32nd St., from N. Madison St. to the end of N 32nd St.
- The project has been combined into a single Public Works construction contract. Public Works has the responsibility to lead and coordinate the compilation of contract plans & specifications and advertise & award the construction contract.
- The Department of Public Works will administer the construction contract. Public Works Department will charge Tacoma Water for the additional incremental contract administration time associated with Tacoma Water's scope of work. Tacoma Water will compensate the Public Works Department in the amount of 3% of the lowest responsible bidder's water base bid plus the shared item costs less force account bid items and sales tax. The lowest responsible bidder's water base bid plus the shared item costs less force account bid items and sales tax is \$376,451.70. The estimated cost for the Tacoma Water portion of contract administration is \$11,293.55. This amount will be transferred to the Department of Public Works via journal entry at the completion of the project. This method is consistent with how construction management and overhead costs were addressed on previous projects.
- Tacoma Water will be responsible for the shared street restoration and general contract costs as reflected in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water's portion of the shared cost is based on actual bid pricing and is estimated to be approximately \$78,820.45. As quantities on the Project Breakdown Estimate worksheet are contractor bid prices, the Departmental actual bid quantities and costs will be separated by the same percentage, as the per bid item estimate reflected on the Project Breakdown Estimate worksheet.
- Tacoma Water will provide the WBSE for charging water main construction costs to the Water Division fund. The Water Division WBSE for this project is as follows:



WTR-00478-02-03, 2019-44 Construction Payments to PW

- Tacoma Water will be responsible for the cost of water distribution main work, valves, hydrants, trench excavation, trench backfill and compaction to subgrade elevation, mobilization, traffic control, and other appurtenant items directly related to the installation of new water main. These costs have been segregated within "Schedule C" of the contract bid proposal. The estimated cost of "Schedule C" plus force account and shared bid items for the water distribution main is \$436,451.70 less taxes.
- Tacoma Water will request authorization from the Public Utility Board to participate in the Public Works and Environmental Services contract as soon as possible following the determination of the lowest responsible bidder.
- Tacoma Water will be included and fully involved in the initiation, discussion, and review of any addendums, revisions, change orders, or change of scope pertaining to the water main work. Any addendums, revisions, change orders, or change of scope pertaining to the water main scope of work or shared bid items shall be subject to the approval of Tacoma Water.
- Tacoma Water will perform all water main construction staking.
- The Department of Public Works will act as the overall contract construction inspection lead. Tacoma Water will be responsible for the daily inspection of the water main construction. Tacoma Water, Public Works and Environmental Services inspections will be a cooperative and coordinated effort.

We look forward to continuing our spirit of coordination and cooperation to accomplish this and future projects of mutual benefit to the citizens of Tacoma, the Department of Public Works, and Tacoma Water. Tacoma Water's estimated total project cost for the water distribution main including Tacoma Water contract administration cost reimbursement to Public Works is \$447,745.25, plus a 15% contingency, for a cumulative estimated post bid total of \$514,907.04 plus applicable taxes. Payment by Water will be for the actual quantities and costs (including applicable taxes) realized by the project for the Water utility construction work included in the project. By signature, please indicate your approval to proceed with this joint project.

Jessica Knickerbocker, P.E.
Project Delivery Manager

05/12/2021

Date

Chris Larson, P.E.
Public Works Division Manager

05/12/2021

Date

cc: Ali Polda, Tacoma Water
Geff Yotter, Tacoma Water

File: MRP 2019-44

EXHIBIT A

Legend of highlighting:

Equal split
split on percentage of area (water) or Cost (ES)
100% ES Storm
Guardrail Madison & NE Tacoma

Version 2020.07

SHARED BY EQUAL PERCENTAGE of LS							PW	34.00%	ES	33.00%	W	33.00%
							PW		ES		W	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount		%	\$\$	%	\$\$	%	\$\$
R2	SPCC Plan	LS	1	\$ 250.00	\$250.00		34%	\$85.00	33%	\$82.50	33%	\$82.50
R21	Site Health and Safety Plan	LS	1	\$ 250.00	\$250.00		34%	\$85.00	33%	\$82.50	33%	\$82.50
R22	Site Health and Safety Officer	LS	1	\$ 500.00	\$500.00		34%	\$170.00	33%	\$165.00	33%	\$165.00
R23	Soil Management Plan	LS	1	\$ 250.00	\$250.00		34%	\$85.00	33%	\$82.50	33%	\$82.50
R55	Erosion Control	LS	1	\$ 2,500.00	\$2,500.00		34%	\$850.00	33%	\$825.00	33%	\$825.00
R56	Stormwater Pollution Prevention Plan (SWPPP)	LS	1	\$ 250.00	\$250.00		34%	\$85.00	33%	\$82.50	33%	\$82.50
R57	NPDES Construction Stormwater General Permit	LS	1	\$ 3,000.00	\$3,000.00		34%	\$1,020.00	33%	\$990.00	33%	\$990.00
Subtotal								\$2,380.00		\$2,310.00		\$2,310.00

SHARED BY % of QUANTITIES							PW		ES		W	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount		% of QTY	\$\$	% of QTY	\$\$	% of QTY	\$\$
R1	Roadway Surveying	LS	1	\$ 45,000.00	\$45,000.00		76%	\$34,410.44	24%	\$10,589.56	0%	\$0.00
R3	Mobilization	LS	1	\$ 265,500.00	\$265,500.00		76%	\$203,021.57	24%	\$62,478.43	0%	\$0.00
R4	Pedestrian Traffic Control	LS	1	\$ 3,000.00	\$3,000.00		76%	\$2,294.03	24%	\$705.97	0%	\$0.00
R5	Project Temporary Traffic Control	LS	1	\$ 325,000.00	\$325,000.00		76%	\$248,519.81	24%	\$76,480.19	0%	\$0.00
R6	Clearing and Grubbing	LS	1	\$ 40,000.00	\$40,000.00		76%	\$30,587.05	24%	\$9,412.95	0%	\$0.00
R9	Field Adjustment	FA	1	\$ 47,450.00	\$47,450.00		76%	\$36,283.89	24%	\$11,166.11	0%	\$0.00
R11	Roadway Excavation, Incl. Haul	CY	3000	\$ 35.00	\$105,000.00		59%	\$62,332.87	24%	\$24,708.98	17%	\$17,958.15
R15	Remove Existing Pavement, Asphalt	SY	8173	\$ 7.50	\$61,297.50		64%	\$39,246.17	24%	\$14,424.75	12%	\$7,626.57
R24	Crushed Surfacing Top Course	Ton	592	\$ 55.00	\$32,560.00		59%	\$19,329.11	24%	\$7,662.14	17%	\$5,568.75
R25	Crushed Surfacing Base Course	Ton	2475	\$ 45.00	\$111,375.00		59%	\$66,117.32	24%	\$26,209.17	17%	\$19,048.51
R27	HMA CL 1/2" PG 58H-22, per ton	Ton	2959	\$ 105.00	\$310,695.00		69%	\$215,332.65	24%	\$73,113.89	7%	\$22,248.47
R32	Pothole Existing Utility	LF	125	\$ 30.00	\$3,750.00		76%	\$2,867.54	24%	\$882.46	0%	\$0.00
R58	Site Restoration	LS	1	\$ 58,000.00	\$58,000.00		69%	\$40,291.23	24%	\$13,648.77	7%	\$4,060.00
Subtotal								\$1,000,633.67		\$331,483.38		\$76,510.45

\$774,818.75	
\$3,292,566.25	
ES Shared Quantity %:	24%

EXHIBIT A

NON-SHARED ITEMS							PW		ES		W	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount		QTY	\$\$	QTY	\$\$	QTY	\$\$
N1	Roadway Surveying	LS	1	\$2,000.00	\$2,000.00		1	\$2,000.00				
N2	Mobilization	LS	1	\$2,500.00	\$2,500.00		1	\$2,500.00				
N3	Pedestrian Traffic Control	LS	1	\$250.00	\$250.00		1	\$250.00				
N4	Project Temporary Traffic Control	LS	1	\$25,000.00	\$25,000.00		1	\$25,000.00				
N5	Clearing and Grubbing	LS	1	\$4,200.00	\$4,200.00		1	\$4,200.00				
N6	Gravel Borrow for Structural Earth Wall Incl. Haul	Ton	675	\$60.00	\$40,500.00		675	\$40,500.00				
N7	Field Adjustment	FA	1	\$8,000.00	\$8,000.00		1	\$8,000.00				
N8	Construction Geotextile for Slope Stabilization	SY	750	\$6.00	\$4,500.00		750	\$4,500.00				
N9	Structure Excavation Class A	CY	540	\$25.00	\$13,500.00		540	\$13,500.00				
N10	Remove Existing Pavement	SY	234	\$25.00	\$5,850.00		234	\$5,850.00				
N11	Remove Curb and Gutter	LF	175	\$20.00	\$3,500.00		175	\$3,500.00				
N12	Crushed Surfacing Top Course	Ton	92	\$40.00	\$3,680.00		92	\$3,680.00				
N13	Crushed Surfacing Base Course	Ton	60	\$40.00	\$2,400.00		60	\$2,400.00				
N14	HMA CL 1/2" PG 58H-22, per ton	Ton	60	\$145.00	\$8,700.00		60	\$8,700.00				
N15	Vegetated Earth Retaining Wall	SF	1400	\$46.00	\$64,400.00		1400	\$64,400.00				
N16	Temporary Surface Water Bypass	LS	1	\$500.00	\$500.00		1	\$500.00				
N17	Temporary Surface Water Bypass Plan	LS	1	\$250.00	\$250.00		1	\$250.00				
N18	Erosion Control	LS	1	\$2,500.00	\$2,500.00		1	\$2,500.00				
N19	Site Restoration	LS	1	\$5,000.00	\$5,000.00		1	\$5,000.00				
N20	Cement Conc. Traffic Curb and Gutter	LF	175	\$50.00	\$8,750.00		175	\$8,750.00				
N21	Plastic Line	LF	175	\$3.40	\$595.00		175	\$595.00				
R1	Roadway Surveying	LS	1	\$ 45,000.00								
R2	SPCC Plan	LS	1									
R3	Mobilization	LS	1	\$ 265,500.00								
R4	Pedestrian Traffic Control	LS	1	\$ 3,000.00								
R5	Project Temporary Traffic Control	LS	1	\$ 325,000.00								
R6	Clearing and Grubbing	LS	1	\$ 40,000.00								
R7	Certified Arborist	LS	1	\$ 2,500.00	\$2,500.00		1.00	\$ 2,500.00				
R8	Removal of Structures and Obstructions	LS	1	\$ 70,000.00	\$70,000.00				1.00	\$ 70,000.00		
R9	Field Adjustment	FA	1	\$ 47,450.00								
R10	Roadway Excavation of Contaminated Material, Incl. Haul	CY	100	\$ 160.00	\$16,000.00		100.00	\$ 16,000.00				
R11	Roadway Excavation, Incl. Haul	CY	3,000	\$ 35.00								
R12	Gravel Borrow Incl. Haul	Ton	94	\$ 47.00	\$4,418.00		94.00	\$ 4,418.00		\$ -		
R13	Structure Excavation Class B	CY	1856	\$ 0.25	\$464.00				1856.00	\$ 464.00		
R14	Shoring or Extra Excavation Class B	SF	25059	\$ 0.25	\$6,264.75				25059.00	\$ 6,264.75		
R15	Remove Existing Pavement, Asphalt	SY	8173	\$ 7.50								
R16	Remove Existing Pavement, Concrete	SY	2741	\$ 15.00	\$41,115.00		2741.00	\$ 41,115.00				
R17	Remove Existing Pavement, CA	SY	2585	\$ 15.00	\$38,775.00		2585.00	\$ 38,775.00				
R18	Remove Curb and Gutter	LF	6056	\$ 5.00	\$30,280.00		6056.00	\$ 30,280.00				

R19	Remove Catch Basin	EA	44	\$ 250.00	\$11,000.00			44.00	\$ 11,000.00		
R20	Remove Manhole	EA	20	\$ 250.00	\$5,000.00			20.00	\$ 5,000.00		
R21	Site Health and Safety Plan	LS	1								
R22	Site Health and Safety Officer	LS	1								
R23	Soil Management Plan	LS	1								
R24	Crushed Surfacing Top Course	Ton	592	\$ 55.00							
R25	Crushed Surfacing Base Course	Ton	2475	\$ 45.00							
R26	Planing Bituminous Pavement	SY	11106	\$ 5.00	\$55,530.00		11106.00	\$ 55,530.00			
R27	HMA CL 1/2" PG 58H-22, per ton	Ton	2959	\$ 105.00							
R28	HMA CL 1/2" PG 58H-22 for Temporary Pavement Patch	Ton	331	\$ 125.00	\$41,375.00			331.00	\$ 41,375.00		
R29	HMA for Approach CL 1/2" PG 58H-22	SY	226	\$ 60.00	\$13,560.00		226.00	\$ 13,560.00			
R30	HMA CL for Prelevel 3/8" PG58H-22	Ton	197	\$ 137.00	\$26,989.00		197.00	\$ 26,989.00			
R31	Cement Concrete Pavement 8" Section	SY	1256	\$ 105.00	\$131,880.00		1256.00	\$ 131,880.00			
R32	Pothole Existing Utility	LF	125	\$ 30.00							
R33	Adjust Existing Catch Basin, Furnish new Frame and Grate	EA	11	\$ 550.00	\$6,050.00			11.00	\$ 6,050.00		
R34	Adjust Existing Valve Chamber to Grade	EA	38	\$ 750.00	\$28,500.00			38.00	\$ 28,500.00		
R35	Catch Basin Type 1	EA	45	\$ 1,450.00	\$65,250.00			45.00	\$ 65,250.00		
R36	Catch Basin Type 2	EA	6	\$ 3,200.00	\$19,200.00			6.00	\$ 19,200.00		
R37	Manhole 48 In. Diam. Type 1	EA	9	\$ 4,000.00	\$36,000.00			9.00	\$ 36,000.00		
R38	Manhole 48 In. Diam. Type 3	EA	9	\$ 3,700.00	\$33,300.00			9.00	\$ 33,300.00		
R39	Manhole 60 In. Diam. Type 1	EA	1	\$ 7,000.00	\$7,000.00			1.00	\$ 7,000.00		
R40	Manhole 60 In. Diam. Type 3	EA	5	\$ 6,300.00	\$31,500.00			5.00	\$ 31,500.00		
R41	Connect New Sewer Pipe To Existing Structure	EA	7	\$ 450.00	\$3,150.00			7.00	\$ 3,150.00		
R42	Reconnect Existing Sewer Pipe to New Structure	EA	25	\$ 1,500.00	\$37,500.00			25.00	\$ 37,500.00		
R43	Adjust Existing Manhole Furnish New Frame and Cover	EA	23	\$ 800.00	\$18,400.00			23.00	\$ 18,400.00		
R44	CDF for Pipe Abandonment	CY	5	\$ 700.00	\$3,500.00			5.00	\$ 3,500.00		
R45	Temporary Storm Sewer Bypass Plan	LS	1	\$ 250.00	\$250.00			1.00	\$ 250.00		
R46	Temporary Storm Sewer Bypass	LS	1	\$ 1,500.00	\$1,500.00			1.00	\$ 1,500.00		
R47	Removal and Replacement of Unsuitable Material Incl. Haul	CY	1227	\$ 65.00	\$79,755.00			1227.00	\$ 79,755.00		
R48	Ductile Iron Sewer Pipe 12 In. Diam.	LF	1128	\$ 90.00	\$101,520.00			1128.00	\$ 101,520.00		
R49	PVC Storm Sewer Pipe 12 In. Diam.	LF	530	\$ 75.00	\$39,750.00			530.00	\$ 39,750.00		
R50	Ductile Iron Sewer Pipe 15 In. Diam.	LF	425	\$ 100.00	\$42,500.00			425.00	\$ 42,500.00		
R51	Ductile Iron Sewer Pipe 8 In. Diam.	LF	100	\$ 75.00	\$7,500.00			100.00	\$ 7,500.00		
R52	PVC Storm Sewer Pipe 8 In. Diam.	LF	17	\$ 70.00	\$1,190.00			17.00	\$ 1,190.00		
R53	PVC Storm Sewer Pipe 18 In. Diam.	LF	301	\$ 95.00	\$28,595.00			301.00	\$ 28,595.00		
R54	PVC Storm Sewer Pipe 21 In. Diam.	LF	367	\$ 115.00	\$42,205.00			367.00	\$ 42,205.00		
R55	Erosion Control	LS	1								
R56	Stormwater Pollution Prevention Plan (SWPPP)	LS	1								
R57	NPDES Construction Stormwater General Permit	LS	1								
R58	Site Restoration	LS	1	\$ 58,000.00							
R59	Plant Selection	EA	15	\$ 1,250.00	\$18,750.00		15.00	\$ 18,750.00			
R60	Cement Conc. Traffic Curb and Gutter	LF	4744	\$ 35.00	\$166,040.00		4744.00	\$ 166,040.00			

R61	Cement Conc. Driveway Entrance Type 1	SY	59	\$ 90.00	\$5,310.00		59.00	\$ 5,310.00				
R62	Cement Conc. Driveway Entrance Type HD-NS	SY	939	\$ 90.00	\$84,510.00		939.00	\$ 84,510.00				
R63	Raised Pavement Marker Type 1	Per 100	2	\$ 825.00	\$1,650.00		2.00	\$ 1,650.00				
R64	Beam Guardrail Anchor Type 10	EA	2	\$ 1,775.00	\$3,550.00		2.00	\$ 3,550.00				
R65	Beam Guardrail Type 31	LF	122	\$ 54.00	\$6,588.00		122.00	\$ 6,588.00				
R66	Remove and Replace Proctor Guardrail	LS	1	\$ 3,100.00	\$3,100.00				1.00	\$ 3,100.00		
R67	Split Rail Fence	LF	35	\$ 100.00	\$3,500.00				35.00	\$ 3,500.00		
R68	Poured Monument	EA	19	\$ 825.00	\$15,675.00		19.00	\$ 15,675.00				
R69	Cement Conc. Sidewalk	SY	1050	\$ 68.00	\$71,400.00		1050.00	\$ 71,400.00				
R70	Cement Conc. Curb Ramp	EA	130	\$ 2,500.00	\$325,000.00		130.00	\$ 325,000.00				
R71	Remove and Replace Junction Box	EA	5	\$ 1,250.00	\$6,250.00		5.00	\$ 6,250.00				
R72	Flashing Beacon Control	EA	1	\$ 51,500.00	\$51,500.00		1.00	\$ 51,500.00				
R73	Permanent Signing	LS	1	\$ 15,500.00	\$15,500.00		1.00	\$ 15,500.00				
R74	Plastic Traffic Letter	EA	4	\$ 110.00	\$440.00		4.00	\$ 440.00				
R75	Plastic Traffic Arrow	EA	2	\$ 225.00	\$450.00		2.00	\$ 450.00				
R76	Plastic Crosswalk	LF	75	\$ 25.00	\$1,875.00		75.00	\$ 1,875.00				
R77	Plastic Line	LF	5400	\$ 1.10	\$5,940.00		5400.00	\$ 5,940.00				
R78	Plastic Wide Line	LF	80	\$ 5.50	\$440.00		80.00	\$ 440.00				
R79	Plastic Stop Line	LF	25	\$ 25.00	\$625.00		25.00	\$ 625.00				
R80	Remove Guardrail	LF	85	\$ 16.00	\$1,360.00		85.00	\$ 1,360.00				
R81	MSKT-SP-MGS (TL-2) System End Sections	EA	1	\$ 5,670.00	\$5,670.00		1.00	\$ 5,670.00				
W1	Mobilization (1-09.7)	Lump Sum	1	2500	\$2,500.00						1	\$2,500.00
W2	Project Temporary Traffic Control (1-10)	Lump Sum	1	18000	\$18,000.00						1	\$18,000.00
W3	Removal/Disposal of existing asphalt, concrete	Sq. Yd.	585	8	\$4,387.50						585	\$4,387.50
W4	Temporary HMA Class ½” PG58-22, 2-inch	Sq. Yd.	585	15	\$8,775.00						585	\$8,775.00
W5	HMA CI ½” PG58-22	Ton	64	125	\$8,000.00						64	\$8,000.00
W6	Crushed Surfacing Top Course for trench backfill	Ton	1474	45	\$66,330.00						1474	\$66,330.00
W7	Storm, Sanitary, Side Sewer Restoration (7-	Each	11	750	\$8,250.00						11	\$8,250.00
W8	Trench Excavation & Disposal (7-09.3(7) & 7-	Cu. Yd.	950	29	\$27,550.00						950	\$27,550.00
W9	Trench Shoring (7-09.3(7)	Lin. Ft.	1755	0	\$438.75						1755	\$438.75
W10	8-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151,	Lin. Ft.	402	65	\$26,130.00						402	\$26,130.00
W11	6-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151,	Lin. Ft.	1036	50	\$51,800.00						1036	\$51,800.00
W12	4-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151,	Lin. Ft.	241	45	\$10,845.00						241	\$10,845.00
W13	8-inch x 6-inch Ductile Iron Tee, 3-B, M.J.,	Each	1	240	\$240.00						1	\$240.00
W14	6-inch x 8-inch Ductile Iron Tee, 3-B, M.J.,	Each	1	250	\$250.00						1	\$250.00
W15	8-inch x 4-inch Ductile Iron Reducer, 2-B, M.J., w/ anchor,	Each	1	130	\$130.00						1	\$130.00
W16	6-inch Ductile Iron Tee, 3-B, M.J., installed (9-	Each	2	200	\$400.00						2	\$400.00
W17	8-inch Ductile Iron Ell, M.J., 45°, installed. (7-09,	Each	2	175	\$350.00						2	\$350.00
W18	8-inch Ductile Iron Ell, M.J., 22 1/2°, installed.	Each	2	180	\$360.00						2	\$360.00
W19	6-inch Ductile Iron Ell, M.J., 22 1/2°, installed.	Each	4	75	\$300.00						4	\$300.00
W20	6-inch Ductile Iron Ell, M.J., 11 1/4°, installed.	Each	4	135	\$540.00						4	\$540.00
W21	6-inch Ductile Iron Solid Sleeve (Long Pattern) M.J.,	Each	4	90	\$360.00						4	\$360.00
W22	6-inch Transition Coupling with 7-inch center ring, epoxy	Each	4	250	\$1,000.00						4	\$1,000.00
W23	6-inch Ductile Iron Cap, M.J., tapped 2”, installed and	Each	1	95	\$95.00						1	\$95.00

W24	8-inch Ductile Iron Cap, M.J., tapped 2", installed and	Each	1	125	\$125.00					1	\$125.00
W25	6-inch Ductile Iron Cap, M.J., tapped 2", installed and	Each	4	95	\$380.00					4	\$380.00
W26	4-inch Ductile Iron Cap, M.J., tapped 2", installed	Each	1	70	\$70.00					1	\$70.00
W27	2-inch Blow-Off Assembly, installed (Dwg. 17-56-1) (7-	Each	2	2600	\$5,200.00					2	\$5,200.00
W28	Temporary 2-inch Blow- Off Assembly, installed and	Each	5	240	\$1,200.00					5	\$1,200.00
W29	6-inch Mechanical Joint Restraining Glands (7-14,	Each	50	50	\$2,500.00					50	\$2,500.00
W30	8-inch Mechanical Joint Restraining Glands (7-14,	Each	3	65	\$195.00					3	\$195.00
W31	Concrete Thrust Anchor, installed. (7-09.3(21) & 7-	Each	14	200	\$2,800.00					14	\$2,800.00
W32	Temporary Concrete Thrust Anchor, installed and removed	Each	6	200	\$1,200.00					6	\$1,200.00
W33	Trench Compaction Test (as directed by the Inspector) (7-	Each	31	510	\$15,810.00					31	\$15,810.00
W34	Test Holes (See Special Provisions). (7-09.3(6) &	Lump Sum	1	1900	\$1,900.00					1	\$1,900.00
W35	6-inch Gate Valve, M.J., ANSI/AWWA, C509/515,	Each	9	1050	\$9,450.00					9	\$9,450.00
W36	8-inch Gate Valve, M.J., ANSI/AWWA, C509/515,	Each	1	1450	\$1,450.00					1	\$1,450.00
W37	6-inch Hydrant, M.J., 4.5- ft bury, with 4-inch Tacoma	Each	2	4900	\$9,800.00					2	\$9,800.00
W38	6-inch Hydrant, M.J., 5.0- ft bury, with 4-inch Tacoma	Each	1	5000	\$5,000.00					1	\$5,000.00
W39	Street cleaning with Self- propelled Pickup and Vacuum Street Sweeper Equipment. (8-01.3(8))	Hour	22	160	\$3,520.00					22	\$3,520.00
S1	Roadway Surveying	Lump Sum	1	\$2,000.00	\$2,000.00				1	\$2,000.00	
S2	Mobilization	Lump Sum	1	\$3,000.00	\$3,000.00				1	\$3,000.00	
S3	Pedestrian Traffic Control	Lump Sum	1	\$250.00	\$250.00				1	\$250.00	
S4	Project Temporary Traffic Control	Lump Sum	1	\$15,000.00	\$15,000.00				1	\$15,000.00	
S5	Clearing and Grubbing	Lump Sum	1	\$750.00	\$750.00				1	\$750.00	
S6	Certified Arborist	Lump Sum	1	\$2,000.00	\$2,000.00				1	\$2,000.00	
S7	Removal of Structures and Obstructions	Lump Sum	1	\$3,000.00	\$3,000.00				1	\$3,000.00	
S9	Structure Excavation Class B	CY	818	\$0.25	\$204.50				818	\$204.50	
S10	Shoring or Extra Excavation Class B	SF	11049	\$0.25	\$2,762.25				11049	\$2,762.25	
S11	Remove Existing Pavement, Concrete	SY	1	\$15.00	\$15.00				1	\$15.00	
S12	Remove Existing Pavement, CA	SY	175	\$15.00	\$2,625.00				175	\$2,625.00	
S13	Remove Manhole	EA	4	\$250.00	\$1,000.00				4	\$1,000.00	
S14	Crushed Surfacing Base Course	Ton	31	\$45.00	\$1,395.00				31	\$1,395.00	
S15	HMA CL 1/2" PG 58H-22 for Temporary Pavement Patch	Ton	106	\$125.00	\$13,250.00				106	\$13,250.00	
S16	Cement Concrete Pavement 8" Section	SY	31	\$105.00	\$3,255.00				31	\$3,255.00	
S17	Adjust Existing Catch Basin, Furnish new Frame and Grate	EA	1	\$550.00	\$550.00				1	\$550.00	
S18	Manhole 48 In. Diam. Type 1	EA	5	\$5,000.00	\$25,000.00				5	\$25,000.00	
S19	Reconnect Existing Sewer Pipe to New Structure	EA	5	\$1,200.00	\$6,000.00				5	\$6,000.00	
S20	Connect New Sewer Pipe To Existing Pipe	EA	3	\$1,000.00	\$3,000.00				3	\$3,000.00	
S21	Temporary Sanitary Sewer Bypass Plan	LS	1	\$250.00	\$250.00				1	\$250.00	
S22	Temporary Sanitary Sewer Bypass	LS	1	\$5,000.00	\$5,000.00				1	\$5,000.00	
S23	CDF for Pipe Abandonment	CY	5	\$700.00	\$3,500.00				5	\$3,500.00	
S24	Removal and Replacement of Unsuitable Material Incl. Haul	CY	722	\$65.00	\$46,930.00				722	\$46,930.00	
S25	PVC Sanitary Sewer Pipe 8 In. Diam.	LF	648	\$75.00	\$48,600.00				648	\$48,600.00	

EXHIBIT A

S26	Reconnect Existing Side Sewer	EA	11	\$750.00	\$8,250.00				11	\$8,250.00		
S27	Sewer Cleanout	EA	11	\$650.00	\$7,150.00				11	\$7,150.00		
S28	Site Restoration	LS	1	\$3,000.00	\$3,000.00				1	\$3,000.00		
SR1				\$ 25.00								
	Sidewalk Replacement Remove Existing Pavement	SY	675		\$16,875.00		675	\$16,875.00				
SR2	Sidewalk Replacement Replace Sidewalk	SY	675	\$ 95.00	\$64,125.00		675	\$64,125.00				
TOTAL FOR NON-SHARED ITEMS					\$2,717,331.75			\$1,437,145.00		\$982,555.50		\$297,631.25

Roadway ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATION:										W	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount					QTY	\$
R9	Field Adjustment	FA	1	\$47,450	\$47,450.00					1.00	\$47,450.00
N7	Field Adjustment	FA	1	\$8,000.00	\$8,000.00						
\$55,450.00										\$47,450.00	

WATER ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS										W	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount					QTY	\$
W40	Force Account (1-09.6)	Force Account	1	\$60,000	\$60,000.00					1.00	\$60,000.00
\$60,000.00										\$60,000.00	

SANITARY NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS								ES			
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount			QTY	\$		
S8	Field Adjustment	Force Account	1	\$ 2,560.00	\$2,560.00			1	\$ 2,560.00		
\$2,560.00									\$2,560.00		

SUMMARY	\$2,789,891.75	PW	ES	W
SHARED BY PERCENTAGE		\$2,380.00	\$2,310.00	\$2,310.00
SHARED BY QUANTITIES		\$1,000,633.67	\$331,483.38	\$76,510.45
NON-SHARED ITEMS		\$1,437,145.00	\$982,555.50	\$297,631.25
ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS (Force Accounts)		\$55,450.00	\$2,560.00	\$60,000.00
TOTAL		\$2,440,158.67	\$1,318,908.88	\$436,451.70

Total Base Bid minus Force Accounts

Public Works	\$2,384,708.67
Environmental Services	\$1,316,348.88
Water	\$376,451.70
TOTAL	\$4,077,509.25

Total Base Bid (Includes Force Accounts)

Public Works	\$2,440,158.67	PWK-00434-14-01
Environmental Services	\$1,318,908.88	Storm: ENV-03031-07-01; Sanitary: ENV-04023-20-01
Water	\$436,451.70	WTR-00478-02-03
TOTAL	\$4,195,519.25	**THIS AMOUNT SHOULD MATCH THE ACTUAL BASE BID PRICE

Water Items Breakdown

Shared Items	\$78,820.45
Water Bid Items	\$297,631.25
Water Force Account	\$60,000.00
Water Admin Fee to PW (3% of Shared Items and Water Bid Items less Force Account)	\$11,293.55
Sub Total Water Item	\$447,745.25
15% Contingency	\$67,161.79
Water Total (Less Tax)	\$514,907.04