



RESOLUTION NO. U-11456

1 A RESOLUTION related to Tacoma Water; authorizing the participation in the
2 City of Tacoma, Department of Public Works, E. 64th St. Phase 2 Project,
to replace water mains.

3 WHEREAS the City of Tacoma, Department of Public Utilities, Water
4 Division (d/b/a "Tacoma Water") requests authorization to participate in the City
5 of Tacoma, Department of Public Works, E. 64th St. Phase 2 Project (the
6 "Project"), and
7

8 WHEREAS the 2018 Water System Plan conducted computer modeling
9 to identify areas in Tacoma Water's service area where existing customers may
10 be experiencing low water pressures, and
11

12 WHEREAS modeling forecasts through the year 2037, under a peak
13 water demand scenario, predict that some customers along East 64th Street
14 may experience water pressures below 30 pounds per square inch ("psi"), and
15

16 WHEREAS field investigations and historic customer complaints also
17 independently confirm lower water pressures in the area, and
18

19 WHEREAS Washington State code requires a minimum water pressure
20 of 30 psi to be maintained at the water meter under peak water demands, and
21

22 WHEREAS the Tacoma Water Customer Service Policy recommends a
23 minimum of 45 psi pressure, and
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25 WHEREAS Tacoma Water will be taking a proactive action in extending
26 the proposed water main to a higher-pressure zone that will satisfy the
minimum pressure requirement of the Washington State code and Tacoma
Water Customer Service Policy, and



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WHEREAS Customer Service will be reaching out to the neighborhood to prepare residents for this change, and

WHEREAS Tacoma Water proposes to install approximately 1,600 feet of 8-inch water main and replace 16" water valves along E. 64th St., between McKinley Ave. and E. Portland Ave., and

WHEREAS the total project cost is \$801,429.89, plus a 15 percent contingency, for a cumulative total of \$921,644.37, plus applicable taxes, and

WHEREAS 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 as it will improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to residents and businesses, 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 E. 64th St. Phase 2 Project, to install approximately 1,600 feet of 8-inch water main and replace 16" water valves along E. 64th St., between McKinley Ave. and E. Portland Ave., in the amount of \$801,429.89, plus a 15 percent contingency, for a cumulative total of \$921,644.37, plus applicable taxes and the proper officers of the City are authorized to execute on behalf of Tacoma Water any necessary or convenient agreements for such project provided such agreements final forms are approved by the City Attorney's Office.



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Approved as to form:

/s/
Chief Deputy City Attorney

Clerk

Chair

Secretary
Adopted _____



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities, TPU
COPY: Charleen Jacobs, Executive Operations & Governance Manager, TPU
FROM: Scott Dewhirst, Tacoma Water Superintendent, TPU
Troy Saghafi, Professional Engineer, Tacoma Water
MEETING DATE: May 8, 2024
DATE: April 23, 2024

GUIDING PRINCIPLE ALIGNMENT (select as many that apply):

Please indicate which of the Public Utility Board's Guiding Principle(s) is supported by this action.

- | | |
|---|--|
| <input type="checkbox"/> GP1– Diveristy, Equity, Inclusion, Belonging | <input type="checkbox"/> GP8 – Telecom |
| <input type="checkbox"/> GP2– Financial Sustainability | <input type="checkbox"/> GP9– Economic Development |
| <input type="checkbox"/> GP3 – Rates | <input type="checkbox"/> GP10 – Government Relations |
| <input type="checkbox"/> GP4 – Stakeholder Engagement | <input type="checkbox"/> GP12– Employee Relations |
| <input type="checkbox"/> GP5 – Environmental Sustainability | <input type="checkbox"/> GP13– Customer Service |
| <input type="checkbox"/> GP6 – Innovation | <input type="checkbox"/> GP14– Resource Planning |
| <input checked="" type="checkbox"/> GP7– Reliability & Resiliency | |

SUMMARY:

Authorize Tacoma Water to participate in the City of Tacoma, Department of Public Works, E. 64th St. Phase 2 Project. Tacoma Water proposes to replace approximately 1,600 feet of 8-inch water main and replace 16" water valves along E. 64th St., between McKinley Ave. and E. Portland Ave.

Total project cost is \$801,429.89 plus a 15 percent contingency, for a cumulative total of \$921,644.37 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. This project partnership will improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to residents and businesses.

BACKGROUND:

For background information regarding the Public Works portion of the project please refer to the Contract and Award Letter.

The 2018 Water System Plan conducted computer modeling to identify areas in Tacoma Water's service area where existing customers may be experiencing low water pressures. Modeling forecasts through the year 2037 under a peak water demand scenario predicts that some customers along East 64th Street may experience water pressures below 30 pounds per square inch (psi). Field investigations and historic customer complaints also independently confirm lower water pressures in the area.



Board Action Memorandum

Washington State code requires a minimum of 30 psi pressure is always maintained at the water meter under peak water demands. Additionally, the Tacoma Water customer service policy recommends a minimum of 45 psi pressure. Tacoma Water will be taking a proactive action in extending the proposed water main to a higher-pressure zone that will satisfy the minimum pressure requirement of the Washington State code and Tacoma Water customer service policy. Customer Service will be reaching out to the neighborhood to prepare residents for this change.

ISSUE: Without this proactive action, Tacoma Water customers along East 64th Street may experience low water pressure below code requirements under peak water demands in the future.

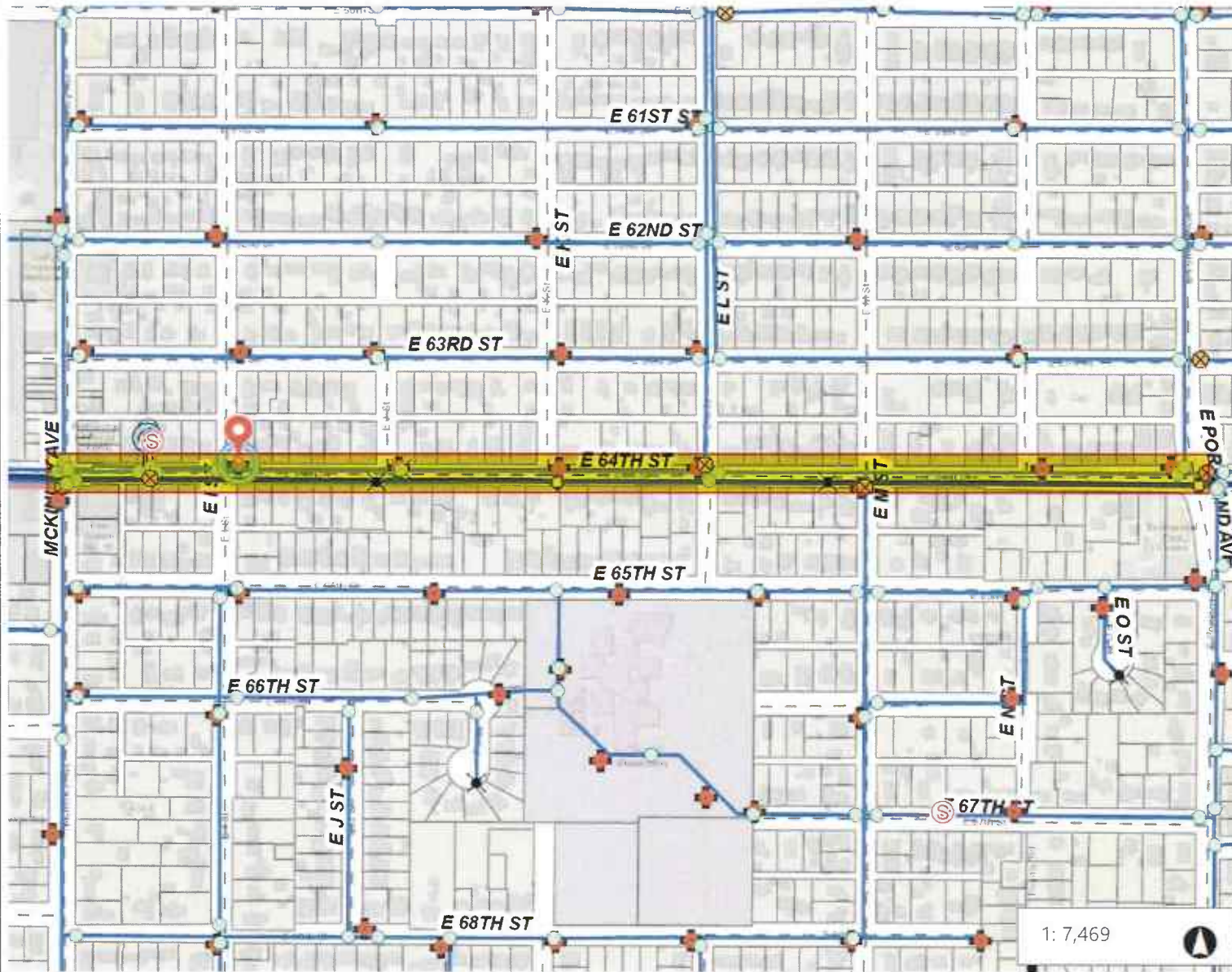
ALTERNATIVES: Not increasing the water pressure within project limits may not satisfy minimum water pressure State code and Tacoma Water customer service policy.

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
Contract and Award Letter
Secondary Agreement for Joint Project Environmental Services - Tacoma Water

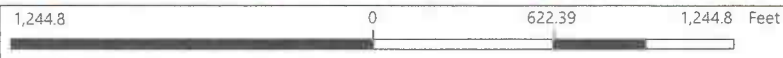
CONTACT: Troy Saghafi, Professional Engineer, 253-345-8445
Terry Forslund, Assistant Division Manager, Tacoma Water



- Legend**
- Cathodic Protection**
 - T Test Station
 - R Rectifier
 - A Anode
 - Sample Stations**
 - S Sample Stand
 - Chart Box
 - Sample Stand/Chart Box
 - Manways**
 - Pumps**
 - System Valves**
 - Open
 - Closed
 - Unknown
 - Control Valves**
 - Air Control
 - Check
 - Pressure Reducing
 - Pressure Relief
 - All Other Control Valves
 - Hydrants**
 - Blue Hydrants
 - Design (Not Constructed)
 - In-Service
 - Process Valves**
 - Blowoff

1: 7,469

KEY:
 Project's Extents



WGS_1984_Web_Mercator_Auxiliary_Sphere
 Tacoma Water Maps

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION



City of Tacoma

Resolution No.:

Meeting Date: May 7, 2024

**Contract and Award Letter
Purchase Resolution —Exhibit "A"**

TO: Board of Contracts and Awards

FROM: Ramiro A. Chavez, P.E. PgMP, Public Works Director/City Engineer
 Michael P. Slevin III, P.E., Environmental Services Director
 Jessica Knickerbocker, P.E., Planning & Engineering Manager, Tacoma Water
 Chris Storey, Principal Engineer, Public Works Engineering

COPY: City Council, City Manager, City Clerk, EIC Coordinator, LEAP Coordinator, and
 Carly Fowler, Senior Buyer, Finance/Purchasing

SUBJECT: East 64th Street Phase II, McKinley to Portland
 Request for Bids Specification No. PW23-0036F, Contract No. CW2265073 –
 May 7, 2024 City Council

DATE: April 4, 2024

DS
GMS

DS
RACPP

RECOMMENDATION SUMMARY:

The Public Works (PW) Department recommends a contract be awarded to R. L. Alia Company, Renton, WA, in the amount of \$6,689,184.65, plus a 15 percent contingency, for a cumulative total of \$7,692,562.35, plus applicable taxes, budgeted from various departmental funds, for the reconstruction of East 64th Street between McKinley Avenue and Portland Avenue.

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.

The project will improve the roadway and utility infrastructure by rehabilitating driving surfaces for vehicles and bicycles, installing bike lanes and other bike facilities to encourage active transportation options, replacing curb ramps to meet ADA standards, replacing/upgrading existing storm sewer utility lines, and installing new storm sewer utility lines where necessary within the project.

BACKGROUND:

The project will be the second phase of three to complete the planned improvements along East 64th Street from Pacific Avenue to the eastern sea limits. Phase One, Pacific Avenue to McKinley Avenue was completed in 2022. Phase Two extends from McKinley Avenue East to Portland Avenue. Project improvements include replacing the road, adding bike lanes, replacing sidewalks and curb ramps to meet ADA standards, and upgrading the stormwater, water, and illumination system. Landscaping and art will also be incorporated into the project. One additional segment is planned (Phase Three) from Portland Avenue to the City limits and will be completed in future years.

ISSUE: East 64th Street is aging and in need of replacement, as current maintenance efforts are unable to keep up with the failing infrastructure. The street contains many potholes and lacks ADA amenities in many locations.

ALTERNATIVES: The alternative to building this section of East 64th Street is to leave the street in its current configuration and condition and continue to have users navigate this unimproved section of road while continuing to patch potholes as they occur.



COMPETITIVE SOLICITATION: Request for Bids Specification No. PW23-0036F was opened March 5, 2024. Three companies were invited to bid in addition to normal advertising of the project. Five submittals were received.

R.L. Alia Company submitted a bid that resulted in the lowest evaluated submittal. The table below reflects the amount of the total award.

<u>Respondent (RFB)</u>	<u>Location (city and state)</u>	<u>Submittal Amount</u>
R.L. Alia Company	Renton, WA	\$6,689,184.65
Northwest Cascade, Inc.	Puyallup, WA	\$6,884,515.00
Ceccanti, Inc.	Tacoma, WA	\$7,025,065.34
Active Construction, Inc.	Puyallup, WA	\$7,750,750.00
Titan Earthwork, LLC	Pacific, WA	\$8,165,280.00

Pre-bid Estimate: \$7,546,681.00

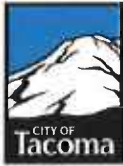
The recommended award is 11.4 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: The project will improve the City’s infrastructure and safety of residents by providing a new driving surface for motorized and non-motorized travel. ADA-compliant curb ramps will also be installed as part of the contract addressing social equity factors, including mobility, as well as ergonomic and human health impacts. Utility installation, upgrades, and maintenance will ensure utilities are operating at current and future demands.

EQUITY IN CONTRACTING (EIC) COMPLIANCE: The recommended contractor is in compliance with the EIC requirements per memorandum dated March 12, 2024. The EIC requirements for this project are (MBE 12 percent, WBE two percent, and SBE 16 percent). The EIC utilization levels of the recommended contractor, R.L. Alia Company, are (MBE 15.68 percent, WBE 7.89 percent, and SBE 16.05 percent).

LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP) COMPLIANCE: The LEAP requirements for this project are 15 percent of the project labor hours must be worked by Local Employees and an additional 15 percent of the labor hours must be worked by Apprentices, per TMC 1.90.040.



FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
1060 Transportation Capital Fund	PWK-G0042-05-01	5330100	\$6,209,069.65
4600 Tacoma Water Fund	WTR-00641-03-03	5330100	\$896,810.08
4300 ES Wastewater Utility Fund	ENV-04024-02-04	5330100	\$305,245.99
4301 ES Stormwater Utility Fund	ENV-03032-02-04	5330100	\$281,436.63
TOTAL			Up to \$7,692,562.35

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
TIB Grant	PWK- G0042-FS-04	4334280	(\$4,450,000.00)
REET 1	PWK- G0042-FS-02	6311101	(\$635,457.75)
1085 Fund	PWK- G0042-FS-02	6311108	(\$1,123,611.90)
4600 Tacoma Water Capital Reserve Fund	587501	6311170	(\$896,810.08)
4300 ES Wastewater Utility Fund	524700	6310010	(\$305,245.99)
4301 ES Stormwater Utility Fund	529700	6310010	(\$281,436.63)
TOTAL			Up to (\$7,692,562.35)

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$7,692,562.35

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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



TO: Jack Niehuser, P.E., Division Manager, Public Works Engineering
Terry Forslund, P.E., Assistant Division Manager, Planning & Engineering, Tacoma Water

FROM: Chris Storey, P.E., Public Works Engineering Division ^{DS}CS
Troy Saghafi, P.E., Professional Engineer, Planning & Engineering, Tacoma Water ^{DS}TS

SUBJECT: Secondary Agreement for Joint Project PW-TW for E. 64th St. Phase 2 project PW23-0036F/ MRP 2021-16

DATE: April 8, 2024

City of Tacoma Public Works Division and City of Tacoma Water, Planning & Engineering Division are collaborating to add water related infrastructure to the E. 64th Phase 2 Project.

The following summarizes the construction cost allocations for the project and other commitments.

1. The project is located along E. 64th St., between E. McKinley Ave. and E. Portland Ave.
Water infrastructure improvements include installing new 8-inch water main and associated appurtenances along the project extents.
2. The project has been combined into a single construction contract administered by Public Works. Public Works Department has the responsibility to lead and coordinate the compilation of contract plans & specifications and advertise & award the construction contract. The project was advertised, and bids opened on 3/5/2024, R.L. Alia Co. is the low bidder.
3. 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. Costs for these items are in "Schedule 3" of the contract bid proposal. The estimated cost of "Schedule 3", including force account is \$773,704.60, plus taxes.
4. Tacoma Water will be responsible for selected Roadway bid items in Schedule 1, as noted in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water's portion of the shared cost is based on the proportion of costs combined in Schedule 3 relative to the total project costs, based on the contractors bid pricing. The proportional amount of costs to be shared by Water is 12.01% of items R4, R63, R64, & R65. The total shared cost of Tacoma Water's responsibility from Schedule 1 of the Roadway bid items is \$6,130.25 The 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.
5. The Department of Public Works will administer the construction contract and provide construction management (contract administration and construction inspection assistance). Tacoma Water will pay the Public Works Department contract administration fees associated with Tacoma Water's scope of work. Tacoma Water will compensate the Public Works Department in the amount of 3% of the combined costs noted in paragraphs 3 and 4 above less force account of \$60,000 (\$779,834.85 - \$60,000.00). The estimated cost for the Tacoma Water portion of



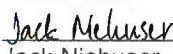
contract administration is \$21,595.05. This amount will be adjusted based on actual construction costs and transferred to the Department of Public Works via journal entry at the completion of the project. This method is consistent with how construction management and overhead costs were addressed on previous projects.

- 6. Tacoma Water will be responsible for the daily inspection, surveying, and project redline drawings of the water main construction. Use of Force Account items in Schedule 3 will be as agreed to by Tacoma Water. Tacoma Water, Public Works and Public Works inspections will be a cooperative and coordinated effort.
- 7. Tacoma Water has provided the following WBSE for charging these construction costs:
 - o WTR-00641-03-03 Construction Payments
- 8. Project participation is subject to Public Utility Board Approval. Presentations to the Public Utility Board are anticipated in May 2024.

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 water-related project construction costs is \$779,834.85 plus a contract administration cost of \$21,595.05 for a cumulative total of \$801,429.89 plus applicable taxes and contingencies. Payment by Tacoma Water will be made for the actual quantities and costs incurred during project closeout. By signature, please indicate your approval to proceed with this joint project.

DocuSigned by:

 Terry Forslund, P.E., PMP
 Planning & Engineering Assistant Division Manager
 Tacoma Water

DocuSigned by:

 Jack Niehuser, P.E.
 Division Manager, Public Works

04/08/2024

 Date

04/08/2024

 Date

Attachment: Exhibit-A Project Breakdown Estimate

Cc: Geff Yotter, Construction Inspector Manager, Planning & Engineering, Tacoma Water
Phill Ringrose, Construction Manager, Planning & Engineering, Tacoma Water

Exhibit A-Project Breakdown Estimate

MRP 2021-16
E. 64th Phase 2

Description: East 64th Phase II - McKinley to Portland
Specification No.: PW23-0036F
Bid Opening: 3/5/2024

Item	Description	Unit	Quantity	ENGINEER'S ESTIMATE		Low Bidder Miles Resources, LLC		Waters Responsibility	
				Unit Price	Amount	Unit Price	Amount	(%)	Amount
Schedule 1 Roadway Items									
R1	Minor Change	EST	1.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00		
R2	Roadway Surveying	LS	1.00	\$110,000.00	\$110,000.00	\$88,000.00	\$88,000.00		
R3	Project Redline Drawings	LS	1.00	\$3,000.00	\$3,000.00	\$1,000.00	\$1,000.00		
R4	SPCC Plan	LS	1.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	12%	\$ 115.67
R5	Mobilization	LS	1.00	\$685,000.00	\$685,000.00	\$550,000.00	\$550,000.00		
R6	Uniformed Police Officer for Traffic Control	HR	60.00	\$125.00	\$7,500.00	\$140.00	\$8,400.00		
R7	Pedestrian Traffic Control	LS	1.00	\$65,000.00	\$65,000.00	\$30,000.00	\$30,000.00		
R8	Project Temporary Traffic Control	LS	1.00	\$375,000.00	\$375,000.00	\$192,000.00	\$192,000.00		
R9	Certified Arborist	LS	1.00	\$2,500.00	\$2,500.00	\$4,000.00	\$4,000.00		
R10	Certified Arborist Assessment Report Compliance	FA	1.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00		
R11	Clearing and Grubbing	LS	1.00	\$85,000.00	\$85,000.00	\$15,000.00	\$15,000.00		
R12	Test Hole	LF	200.00	\$180.00	\$32,000.00	\$250.00	\$50,000.00		
R13	Removal of Structures and Obstructions	LS	1.00	\$28,000.00	\$28,000.00	\$25,000.00	\$25,000.00		
R14	Roadway Excavation Incl. Haul	CY	6,339.00	\$44.00	\$278,916.00	\$73.00	\$462,747.00		
R15	Embankment Compaction	CY	240.00	\$28.00	\$6,720.00	\$1.00	\$240.00		
R16	Subgrade Maintenance and Protection	LS	1.00	\$15,000.00	\$15,000.00	\$10,250.00	\$10,250.00		
R17	Subgrade Protection Plan	LS	1.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00		
R18	Structure Excavation Class A Incl. Haul	CY	470.00	\$38.00	\$17,860.00	\$65.00	\$30,550.00		
R19	Shoring or Extra Excavation Class A	LS	1.00	\$10,000.00	\$10,000.00	\$2,500.00	\$2,500.00		
R20	Structure Excavation Class B	CY	809.00	\$30.00	\$24,270.00	\$28.00	\$22,652.00		
R21	Shoring or Extra Excavation Class B	SF	5,202.00	\$2.00	\$10,404.00	\$0.50	\$2,601.00		
R22	Construction Geotextile for Soil Stabilization	SY	10,250.00	\$5.50	\$56,375.00	\$6.00	\$61,500.00		
R23	Remove Existing Pavement, Type I, Class A2	SY	315.00	\$11.00	\$3,465.00	\$7.25	\$2,283.75		
R24	Remove Existing Pavement, Type I, Class A4	SY	13,020.00	\$15.00	\$195,300.00	\$7.25	\$94,395.00		
R25	Remove Existing Pavement, Type I, Class C6	SY	3,025.00	\$20.00	\$60,500.00	\$5.00	\$15,125.00		
R26	Remove Existing Stairs	LF	230.00	\$35.00	\$8,050.00	\$19.00	\$4,370.00		
R27	Remove Curb	LF	1,675.00	\$10.00	\$16,750.00	\$5.00	\$8,375.00		
R28	Remove Catch Basin	EA	14.00	\$500.00	\$7,000.00	\$800.00	\$11,200.00		
R29	Remove Manhole	EA	2.00	\$1,500.00	\$3,000.00	\$1,000.00	\$2,000.00		
R30	Crushed Surfacing Top Course	TN	335.00	\$50.00	\$16,750.00	\$80.00	\$26,800.00		
R31	Crushed Surfacing Base Course	TN	4,410.00	\$50.00	\$220,500.00	\$53.00	\$233,730.00		
R32	Asphalt Treated Base	TN	2,040.00	\$110.00	\$224,400.00	\$100.00	\$204,000.00		
R33	Planing Bituminous Pavement	SY	825.00	\$7.50	\$6,187.50	\$9.00	\$7,425.00		
R34	HMA CL 3/8" PG 58H-22	TN	325.00	\$175.00	\$56,875.00	\$185.00	\$60,125.00		
R35	HMA for Approach CL 1/2" PG 58H-22	SY	220.00	\$80.00	\$17,600.00	\$25.00	\$5,500.00		
R36	Fiber Reinforced HMA CL 1/2" PG 58H-22	TN	2,800.00	\$135.00	\$378,000.00	\$120.00	\$336,000.00		
R37	Temporary Pavement Patch	TN	300.00	\$225.00	\$67,500.00	\$100.00	\$30,000.00		
R38	Adjust Existing Manhole. Furnish New Frame and Cover	EA	10.00	\$1,800.00	\$18,000.00	\$1,000.00	\$10,000.00		
R39	Adjust Existing Valve Chamber to Grade	EA	23.00	\$750.00	\$17,250.00	\$800.00	\$18,400.00		
R40	Adjust to Grade	EA	5.00	\$850.00	\$4,250.00	\$1,500.00	\$7,500.00		
R41	Catch Basin Type 1	EA	22.00	\$2,000.00	\$44,000.00	\$2,200.00	\$48,400.00		
R42	Catch Basin Type 2, 48 In. Diam.	EA	2.00	\$5,000.00	\$10,000.00	\$5,500.00	\$11,000.00		
R43	Manhole 48 In. Diam. Type 1	EA	1.00	\$5,000.00	\$5,000.00	\$7,400.00	\$7,400.00		
R44	Manhole 60 In. Diam. Type 1	EA	2.00	\$6,500.00	\$13,000.00	\$11,000.00	\$22,000.00		
R45	Manhole Additional Height 60 In. Diam. Type 1	LF	3.00	\$350.00	\$1,050.00	\$200.00	\$600.00		
R46	Reconnect Existing Sewer Pipe, 4-in. Diam., to New Structure	EA	1.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00		
R47	Reconnect Existing Sewer Pipe, 8-in. Diam., to New Structure	EA	2.00	\$1,500.00	\$3,000.00	\$1,250.00	\$2,500.00		
R48	Reconnect Existing Sewer Pipe, 12-in. Diam., to New Structure	EA	1.00	\$1,500.00	\$1,500.00	\$2,400.00	\$2,400.00		
R49	Reconnect Existing Sewer Pipe, 18-in. Diam., to New Structure	EA	2.00	\$1,500.00	\$3,000.00	\$3,500.00	\$7,000.00		
R50	Reconnect Existing Sewer Pipe, 21-in. Diam., to New Structure	EA	2.00	\$1,500.00	\$3,000.00	\$3,800.00	\$7,600.00		
R51	Connect New Sewer Pipe, 12-in. Diam., to Existing Structure	EA	8.00	\$1,500.00	\$12,000.00	\$2,000.00	\$16,000.00		
R52	CDF for Pipe Abandonment	CY	3.00	\$550.00	\$1,650.00	\$400.00	\$1,200.00		
R53	Temporary Storm Sewer Bypass	LS	1.00	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00		
R54	Temporary Storm Sewer Bypass plan	LS	1.00	\$500.00	\$500.00	\$2,500.00	\$2,500.00		
R55	Removal and Replacement of Unsuitable Material	CY	583.00	\$70.00	\$40,810.00	\$38.00	\$22,194.00		
R56	Ductile Iron Sewer Pipe 12 In. Diam.	LF	385.00	\$175.00	\$67,375.00	\$142.00	\$54,830.00		
R57	Ductile Iron Sewer Pipe 4 In. Diam.	LF	10.00	\$115.00	\$1,150.00	\$100.00	\$1,000.00		
R58	Ductile Iron Sewer Pipe 6 In. Diam.	LF	20.00	\$125.00	\$2,500.00	\$100.00	\$2,000.00		
R59	PVC Storm Sewer Pipe 12 In. Diam.	LF	759.00	\$115.00	\$87,285.00	\$100.00	\$75,900.00		
R60	Testing Sewer Pipe	LF	1,154.00	\$5.00	\$5,770.00	\$9.00	\$10,386.00		
R61	Residential Storm Drain Under Sidewalk	LF	1,970.00	\$45.00	\$88,650.00	\$9.00	\$17,730.00		
R62	Trench Drain, 6 In. Wide	LF	94.00	\$105.00	\$9,870.00	\$250.00	\$23,500.00		
R63	Erosion/Water Pollution Control	LS	1.00	\$32,000.00	\$32,000.00	\$50,000.00	\$50,000.00	12%	\$ 5,783.25
R64	Stormwater Pollution Prevention Plan (SWPPP)	LS	1.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	12%	\$ 115.67
R65	NPDES Construction Stormwater General Permit	LS	1.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	12%	\$ 115.67
R66	Seeded Lawn Installation	SY	211.00	\$6.00	\$1,266.00	\$3.30	\$698.30		
R67	PSIPE Juniperus Virginiana/Eastern Red Cedar, 6'-7' Ht	EA	8.00	\$750.00	\$6,000.00	\$350.00	\$2,800.00		
R68	PSIPE Tsuga Mertensiana/Mountain Hemlock, 6'-7' Ht	EA	12.00	\$750.00	\$9,000.00	\$350.00	\$4,200.00		
R69	PSIPE Zelkova Serrata 'Wireless/Zelkova (Dwarf), 2' Cal	EA	12.00	\$750.00	\$9,000.00	\$475.00	\$5,700.00		
R70	PSIPE Parrotia Persica/Persian Ironwood, 2' Cal	EA	16.00	\$750.00	\$12,000.00	\$475.00	\$7,600.00		
R71	PSIPE Prunus Virginiana/Canada Red Chokecherry, 2' Cal.	EA	6.00	\$750.00	\$4,500.00	\$475.00	\$2,850.00		
R72	PSIPE Pinus Parviflora/Japanese White Pine, 6'-7' Ht	EA	10.00	\$750.00	\$7,500.00	\$400.00	\$4,000.00		
R73	PSIPE Ulmus Americana/American Elm, 2' Cal.	EA	2.00	\$750.00	\$1,500.00	\$800.00	\$1,200.00		
R74	PSIPE Cedrus Deodora/Deodora Cedar, 6'-7' Ht.	EA	4.00	\$750.00	\$3,000.00	\$400.00	\$1,600.00		
R75	PSIPE Festuca Glauca 'Elijah Blue'/Elijah Blue Fescue, 1 Gal.	EA	3,864.00	\$12.00	\$46,368.00	\$19.00	\$73,416.00		
R76	PSIPE Bouteloua Gracilis 'Blonde Ambition'/Blonde Ambition Blue Grama Grass, 1 Gal.	EA	750.00	\$15.00	\$11,250.00	\$23.00	\$17,250.00		
R77	PSIPE Pennisetum Alopecuroideum/Dwarf Fountain Grass, 1 Gal.	EA	750.00	\$15.00	\$11,250.00	\$18.50	\$13,875.00		
R78	PSIPE Helictotrichon Sempervirens 'Saphirsprude'/Sapphire Fountain Blue Oat Grass, 1 Gal.	EA	750.00	\$15.00	\$11,250.00	\$18.50	\$13,875.00		
R79	PSIPE Santolina Chamaecyparissus/Lavender Cotton, 1 Gal	EA	677.00	\$15.00	\$10,155.00	\$18.50	\$12,524.50		
R80	Topsoil Type A	CY	425.00	\$55.00	\$23,375.00	\$75.00	\$31,875.00		
R81	Bark or Wood Chip Mulch	CY	275.00	\$80.00	\$22,000.00	\$75.00	\$20,625.00		
R82	Root Barrier	LF	1,900.00	\$9.00	\$17,100.00	\$14.00	\$26,600.00		
R83	Site Restoration	LS	1.00	\$25,000.00	\$25,000.00	\$15,000.00	\$15,000.00		
R84	Cement Conc. Traffic Curb and Gutter	LF	8,870.00	\$35.00	\$310,450.00	\$24.00	\$212,880.00		
R85	Cement Conc. Pedestrian Curb	LF	1,580.00	\$30.00	\$47,400.00	\$35.00	\$55,300.00		
R86	Cement Conc. Valley Gutter	LF	970.00	\$40.00	\$38,800.00	\$25.00	\$24,250.00		
R87	Cement Conc. Driveway Entrance	SY	2,078.00	\$85.00	\$176,630.00	\$67.00	\$139,226.00		
R88	Raised Pavement Marker Type 2	HUN	2.00	\$450.00	\$900.00	\$810.00	\$1,620.00		
R89	Cedar Fence, 4 Foot Height	LF	492.00	\$90.00	\$44,280.00	\$55.00	\$27,060.00		
R90	Cedar Fence, 6 Foot Height	LF	714.00	\$95.00	\$67,830.00	\$60.00	\$42,840.00		
R91	Chain Link Fence, Type 1	LF	130.00	\$45.00	\$5,850.00	\$120.00	\$15,600.00		
R92	Chain Link Fence, Type 6	LF	1,812.00	\$42.00	\$76,104.00	\$48.00	\$86,976.00		

Exhibit A-Project Breakdown Estimate

MRP 2021-16
E. 64th Phase 2

Description: East 64th Phase II - McKinley to Portland
Specification No.: PW23-0036F
Bid Opening: 3/5/2024

Main project breakdown estimate table with columns for Item, Description, Unit, Quantity, Engineer's Estimate (Unit Price, Amount), Low Bidder (Unit Price, Amount), and Waters Responsibility (%, Amount). Includes a Subtotal row at the bottom with values: \$ 6,457,098.50, \$ 6,676,752.55, \$ 6,130.25.

Schedule 2 - Waste Water breakdown table with columns for Item, Description, Unit, Quantity, and Unit Price/Amount columns. Includes a Subtotal row at the bottom with values: \$359,937.50, \$244,727.50.

Schedule 3 - Water breakdown table with columns for Item, Description, Unit, Quantity, and Unit Price/Amount columns. Includes a Subtotal row at the bottom with values: \$61,000.00, \$70,000.00, \$12,000.00, \$5,464.00, \$9,015.60, \$57,783.00, \$3,000.00, \$31,584.00, \$2,050.00, \$8,316.00, \$37,485.00, \$11,200.00, \$102,672.00, \$12,240.00, \$8,000.00, \$40,000.00, \$1,200.00, \$1,400.00, \$1,400.00, \$2,000.00, \$66,000.00, \$800.00, \$3,200.00, \$1,200.00, \$2,400.00, \$1,600.00.

Exhibit A-Project Breakdown Estimate

MRP 2021-16
E. 64th Phase 2

Description: East 64th Phase II - McKinley to Portland
Specification No.: PW23-0036F
Bid Opening: 3/5/2024

Item	Description	Unit	Quantity	ENGINEER'S ESTIMATE		Low Bidder Miles Resources, LLC		Waters Responsibility	
				Unit Price	Amount	Unit Price	Amount	(%)	Amount
W27	4-inch Ductile Iron Solid Sleeve (Long Pattern) M.J., installed (7-09 5, & 9-30 2(1))	EA	2.00	\$150.00	\$300.00	\$1,500.00	\$3,000.00	100.00%	\$ 3,000.00
W28	Temporary 2-inch Blow-Off Assembly installed and removed (Dwg. 17-56-1) (7-09 3(22) & 7-09 5)	EA	7.00	\$300.00	\$2,100.00	\$1,300.00	\$9,100.00	100.00%	\$ 9,100.00
W29	16-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30 2(6))	EA	6.00	\$300.00	\$1,800.00	\$400.00	\$2,400.00	100.00%	\$ 2,400.00
W30	8-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30 2(6))	EA	5.00	\$125.00	\$625.00	\$125.00	\$625.00	100.00%	\$ 625.00
W31	6-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30 2(6))	EA	28.00	\$100.00	\$2,800.00	\$125.00	\$3,500.00	100.00%	\$ 3,500.00
W32	4-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30 2(6))	EA	4.00	\$75.00	\$300.00	\$125.00	\$500.00	100.00%	\$ 500.00
W33	Concrete Thrust Anchor, installed (7-09 3(21) & 7-09 5)	EA	3.00	\$750.00	\$2,250.00	\$200.00	\$600.00	100.00%	\$ 600.00
W34	Excavate, remove and dispose of existing valve chamber, piping, conduits and other appurtenances (7-05)	EA	9.00	\$5,000.00	\$45,000.00	\$3,000.00	\$27,000.00	100.00%	\$ 27,000.00
W35	Adjust Existing Supply Manhole (7-05)	EA	5.00	\$1,000.00	\$5,000.00	\$3,800.00	\$19,000.00	100.00%	\$ 19,000.00
W36	Adjust Supply Main Vent Pipe Adjustment (7-05)	EA	3.00	\$1,000.00	\$3,000.00	\$900.00	\$2,700.00	100.00%	\$ 2,700.00
W37	Removal, haul and disposal of abandoned C.I. pipe, all sizes. (2-02.3) (7-09 4 & 7-09 5)	LF	176.00	\$20.00	\$3,520.00	\$5.00	\$880.00	100.00%	\$ 880.00
W38	Removal, haul and disposal of abandoned D.I. pipe, all sizes. (2-02.3) (7-09 4 & 7-09 5)	LF	232.00	\$20.00	\$4,640.00	\$5.00	\$1,160.00	100.00%	\$ 1,160.00
W39	Temporary Concrete Thrust Anchor, installed and removed (7-09 3(21) & 7-09 5)	EA	7.00	\$500.00	\$3,500.00	\$150.00	\$1,050.00	100.00%	\$ 1,050.00
W40	Trench Compaction Test (as directed by the Inspector) (7-09 3(11) & 7-09 5)	EA	41.00	\$160.00	\$6,560.00	\$100.00	\$4,100.00	100.00%	\$ 4,100.00
W41	Test Holes (See Special Provisions) (7-09 3(6) & 7-09 5)	LS	1.00	\$7,500.00	\$7,500.00	\$4,000.00	\$4,000.00	100.00%	\$ 4,000.00
W42	16-inch B/F Valve, M.J., ANSI/AWWA, C504 with C.I. Valve Box, installed	EA	8.00	\$4,175.00	\$33,400.00	\$5,000.00	\$40,000.00	100.00%	\$ 40,000.00
W43	8-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box (7-12 & 9 30 3)	EA	4.00	\$1,975.00	\$7,900.00	\$4,200.00	\$16,800.00	100.00%	\$ 16,800.00
W44	6-inch Gate Valve, M.J., ANSI/AWWA, C509/515 with C.I. Valve Box (7-12 & 9 30 3)	EA	7.00	\$1,250.00	\$8,750.00	\$3,200.00	\$22,400.00	100.00%	\$ 22,400.00
W45	8-inch Tapping Sleeve, installed (7-09 & 9-30 3)	EA	1.00	\$2,500.00	\$2,500.00	\$9,000.00	\$9,000.00	100.00%	\$ 9,000.00
W46	8-inch Tapping Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box (7-12 & 9 30 3)	EA	1.00	\$1,200.00	\$1,200.00	\$3,000.00	\$3,000.00	100.00%	\$ 3,000.00
W47	6-inch Hydrant, M.J., 4.5-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30 5(2))	EA	1.00	\$4,200.00	\$4,200.00	\$6,000.00	\$6,000.00	100.00%	\$ 6,000.00
W48	6-inch Hydrant, M.J., 5.5-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30 5(2))	EA	5.00	\$4,500.00	\$22,500.00	\$6,000.00	\$30,000.00	100.00%	\$ 30,000.00
W49	6-inch Hydrant, M.J., 6.0-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30 5(2))	EA	1.00	\$4,750.00	\$4,750.00	\$6,200.00	\$6,200.00	100.00%	\$ 6,200.00
W50	Street cleaning with Self-propelled Pickup and Vacuum Street Sweeper Equipment (8-01.3(8))	HR	34.00	\$250.00	\$8,500.00	\$220.00	\$7,480.00	100.00%	\$ 7,480.00
W51	Force Account (1-09.6)	EST	1.00	\$60,000.00	\$60,000.00	\$60,000.00	\$60,000.00	100.00%	\$ 60,000.00
Subtotal					\$ 728,645.00		\$ 773,704.60		\$ 773,704.60

Item	Description	Amount
A	Water Bid from Schedule 3 (less Tax)	\$ 773,704.60
B	Shared Road Bid from Schedule 1	\$ 6,130.25
C	Total Water Costs (Less Tax)	\$ 779,834.85
D	Admin Costs (3% less FA)	\$ 21,595.05
	(C - \$60,000) x 3%	
E	C&A Water total with 15% Contingency (less tax and Admin Cost)	\$ 896,810.07
	(C x 1.15)	
F	Cumulative Total (less tax, less contingency)	\$ 801,429.89

Item	Description	Amount
A	Water Bid from Schedule 3 (less Tax)	\$ 773,704.60
B	Shared Road Bid from Schedule 1	\$ 6,130.25
C	Total Water Costs (Less Tax)	\$ 779,834.85
D	Admin Costs (3% less FA)	\$ 21,595.05
	(C - \$60,000) x 3%	
E	C&A Water total with 15% Contingency (less tax and Admin Cost)	\$ 896,810.07
	(C x 1.15)	
F	Cumulative Total (less tax, less contingency)	\$ 801,429.89