

RESOLUTION NO. U-11435

A RESOLUTION related to Tacoma Public Utilities, Tacoma Water; approving participation in the City of Tacoma, Department of Public Works, Street Initiative Package Number 35 Project, to replace water mains.

WHEREAS Tacoma Water requests authorization to enter into an agreement with Department of Public Works ("PW"), Street Initiative Package Number 35 Project ("Project"), and

WHEREAS Tacoma Water is partnering with PW to reconstruct the existing roadway and replace approximately 2,000 feet of existing water main, constructed circa 1948, and

WHEREAS the Project will reconstruct/replace 8-inch and 6-inch water mains along N. 48th Street, between N. Mullen and N. Gove Street, N. Cheyenne Street, between N. Gove Street and N. 46th Street, and N. Gove Street, between N. 46th Street and N. 48th Street, and

WHEREAS the overall project will upgrade the existing roadway,

upgrade underground facilities, and bring ramps into ADA compliance, and WHEREAS the total cost for the Project is \$632,758.83, plus a 15 percent contingency, for a cumulative total of \$727,672.65, plus applicable taxes, and

WHEREAS Tacoma Water believes it is in the best interests of the utility to include the replacement work in PW's Project contract because it will improve overall project coordination, minimize traffic impacts through consolidation of the work under a single project, and reduce overall project costs, and Now, Therefore.



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

That Tacoma Water is authorized to execute an agreement with the

Department of Public Works for the reconstruction/replacement of water main
for the Street Package Number 35 Project, in the amount of \$632,758.83, plus a
15 percent contingency, for a cumulative total of \$727,672.65, 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's Office.

Approved as to form:

Chair

/s/
Chief Deputy City Attorney

Secretary

Adopted

Clerk



Board Action Memorandum

—DS

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Jackie Flowers, Director of Utilities

COPY:

Charleen Jacobs, Executive Assistant, Director of Utilities/Public Utility Board

Jodi Collins, Asst Division Mgr of Water Utilities, Tacoma Water

Jessica Knickerbocker, Division Mgr of Planning & Engineering, Tacoma Water Ds

FROM: .

Scott Dewhirst, Utilities Dir Dep. Water Superintendent, Tacoma Water

Troy Saghafi, Professional Engineer, Planning & Engineering, Tacoma Water

MEETING DATE:

January 24,2024

DATE:

January 10, 2024

Pease indicate which of the Public Utility Board's Strategi	c Directives is supported by this action.
☐SD1 – Equity & Inclusion	☐ SD8 - Telecom
☐ SD2 – Financial Sustainability	☐ SD9 – Economic Development
□SD3 – Rates	☐ SD10 – Government Relations
☐ SD4 – Stakeholder Engagement	☐ SD11 – Decarbonization/Electric Vehicles
☐ SD5 – Environmental Leadership	☐ SD12 – Employee Relations
□SD6 – Innovation	☐ SD13 – Customer Service
SD7 – Reliability & Resiliency	☐ SD14 – Resource Planning

SUMMARY:

Authorize Tacoma Water to participate in the City of Tacoma, Department of Public Works, Street Initiative Package Number 35 Project. Tacoma Water proposes to replace approximately 2,000 feet of 8-inch and 6-inch water main along N. 48th St., between N. Mullen St. and N. Gove St., N. Cheyenne St., between N. Gove St. and N. 46th St., and N. Gove St., between N. 46th St. and N. 48th St.

Total project cost is \$632,758.83 plus a 15 percent contingency, for a cumulative total of \$727,672.65 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:

Tacoma Water is partnering with the Public Works Department to reconstruct the existing roadway and replace approximately 2,000 feet of existing water main, constructed circa 1948.

The overall project will upgrade the existing roadway into a non-motorized shared-use path, upgrade underground utilities, and bring ramps into ADA compliance.





Project partner contributions are summarized in the attachment "Secondary Agreement for Joint Project Public Works - Tacoma Water".

ISSUE: The existing water main in this area is approximately 75 years old, with sections 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 and path by replacing the water main now.

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 Public Works - Tacoma Water

CONTACT: Troy Saghafi, Professional Engineer, 253-502-8746

Ali Polda, Principal Engineer, 206-687-8602

Tacoma Water Maps MRP 2016-39 SI PACKAGE NO. 35-PROJECT MAP





Legend

Cathodic Protection

- T Test Station
- Rectifier
- A Anode

Sample Stations

- Sample Stand
- Chart Box
- Sample Stand/Chart Box
- Manways
- P 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

Notes

current, or otherwise reliable

THIS MAP IS NOT TO BE USED FOR NAVIGATION



WGS_1984_Web_Mercator_Auxiliary_Sphere

Tacoma Water Maps



City of Tacoma

Resolution No.:	
Meeting Date:	

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

Josh Lauer, Engineering Project Manager, Public Works Engineering

COPY:

City Council, City Manager, City Clerk, EIC Coordinator, LEAP Coordinator, and

Carly Fowler, Senior Buyer, Finance/Purchasing.

Jessica Knickerbocker, P.E., Planning & Engineering Manager

SUBJECT:

Streets Initiative Package #24 & #35

RFB Specification No. PW23-0241F, Contract No. CW2262431 – January

24, 2024 City Council

DATE:

December 27, 2023

RECOMMENDATION SUMMARY:

The Public Works Department recommends a contract be awarded to R.L. Alia Company, Renton, WA, in the amount of \$6,208,025.75, plus a 15 percent contingency, for a cumulative total of \$7,139,229.61, plus applicable taxes, budgeted from the Streets Initiative 1085, LID 3970, LID 8663, LID 8667, 4300 ES Wastewater Fund, 4301 ES Stormwater Fund, TW System Development Charge Fund 4600-SDC, and the 1060 Capital Fund.

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.

BACKGROUND:

The voters 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 to maintain roadway surfaces, and curb/gutter. The project also includes the construction of storm sewer, wastewater, and freshwater infrastructure improvements and upgrades. Curb ramp improvements, and sidewalk repair will be completed to meet ADA standards.

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.

Revised: 11/29/2022



COMPETITIVE SOLICITATION:

RFB Specification No. PW23-0241F was opened November 28, 2023. Three companies were invited to bid in addition to normal advertising of the project. Six submittals were received.

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

Respondent	Location	Submittal
	(city and state)	<u>Amount</u>
R.L. Alia Company	Renton, WA	\$6,208,025.75
Tucci & Sons, Inc.		\$6,490,442.50
Miles Resources, LLC		\$6,732,204.45
Northwest Cascade, Inc.		\$6,798,968
Reed Trucking & Excavating, Inc.		\$6,999,923
Active Construction, Inc.		\$8,976,005

Pre-bid Estimate: \$7,773,297

The recommended award is 20.1 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 October 10, 2023. The EIC requirements for this project are 8% MBE, 5% WBE and 11% SBE. The EIC utilization levels of the recommended contractor, R.L. Alia Company are 8.05% MBE, 8.13% WBE, and 11.11% SBE.

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
Street Initiative 1085 Fund	PWK-00434-24-03	5330100	\$1,889,460.28
Street Initiative 1085 Fund	PWK-00434-35-03	5330100	\$399,768.53
1060 LID Fund	LID-8663R-05	5330100	\$419,824.54
1060 LID Fund	LID-8667R-06	5330100	\$274,766.57
4300 ES Wastewater Fund	LID-3970W-04	5330100	\$91,551.78
	(Property Owners)		
4300 ES Wastewater Fund	LID-3970W-04 (ES	5330100	\$393,297.72
	Cost)	:	
4301 ES Stormwater Fund	ENV-03032-08-04	5330100	\$1,008,560.80
4300 ES Wastewater Fund	ENV-04024-08-04	5330100	\$2,006,291.93
TW System Development	WTR-00478-27	5330100	\$564,742.46
Charge Fund 4600-SDC			
1060 Capital Fund	PWK-00806-02	5330100	\$90,965.00
TOTAL			Up to (\$) 7,139,229.61

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Street Initiative Revenues	663020	Various	\$2,289,228.81
4300 ES Wastewater Fund	524700	6310010	\$2,491,141.43
4301 ES Stormwater Fund	529700	6310010	\$1,008,560.80
TW System Development	587600	6311185	\$564,742.46
Charge Fund 4600-SDC			
LID-8663R	662010	6398645	\$419,824.54
LID-8667R	662010	6398645	\$274,766.57
1060 Capital Fund	PWK-00806-FS-24-02	6311101	\$90,965.00
TOTAL			Up to (\$)7,139,229.61

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$7,139,229.61

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 Division

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

Water

FROM: Josh Lauer, P.E. Project Manager, Public Works Division

Troy Saghafi, P.E., Planning & Engineering, Tacoma Water

SUBJECT: Secondary Agreement for Joint Project PW-TW for Street Initiative Package No. 35,

PW23-0241F/MRP 2016-39

DATE: January 9, 2024

Tacoma Public Works, Engineering Division and Tacoma Water, Planning & Engineering Division are collaborating to add water related infrastructure to the Street Initiative Package No. 35 Project.

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

1. The project is located along N. 48th St., between N. Mullen St. and N. Gove St., N. Cheyenne St., between N. Gove St. and N. 46th St., and N. Gove St., between N. 46th St. and N. 48th St.

Water infrastructure improvements include installing new 8-inch and 6-inch water main and associated appurtenances along the said streets.

- 2. The project has been combined into a single construction contract administered by Public Works. Public Works 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 11/28/2023, 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 C" of the contract bid proposal. The estimated cost of "Schedule C", including force account is \$461,868.00 plus taxes.
- 4. Tacoma Water will be responsible for its utility's LRI Disposal Fees associated with this project. A Waste Disposal Authorization (WDA) number will be provided from Public Works to the contractor, which is based on the soil tonnages of the project and the total contaminated soil quantities of the Bid Proposal. Tacoma Water's estimated contaminated soil disposal costs for this project is \$128,146.03. 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.
- 5. Tacoma Water will be responsible for selected roadway improvement bid items in Schedule A, as noted in the Project Breakdown Estimate worksheet (see exhibit A). The total shared cost of Tacoma Water's responsibility from Schedule A is \$29,212.42. 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.



City of Tacoma

- 6. 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 5 above less Schedule's C force account of \$40,000 ((\$491,080.42-\$40,000) X .03). The estimated cost for the Tacoma Water portion of contract administration is \$13,532.41. 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.
- 7. 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 C will be as agreed to by Tacoma Water. Tacoma Water, Public Works and Environmental Services inspections will be a cooperative and coordinated effort.
- 8. Tacoma Water has provided the following WBSE for charging these construction costs:
 - WTR-00478-27-02 Construction Payments
- 9. Project participation is subject to Public Utility Board Approval. Presentations to the Public Utility Board are anticipated in January 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 \$491,080.42, a contract administration cost of \$13,532.41, and the waste disposal fee cost of \$128,146.00 for a cumulative total of \$632,758.83 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:	DocuSigned by:
terry Forslund terry Forslunds P.E., PMP	Jack Meliuser Jack: Nietsersers. P. E.
Planning & Engineering Assistant Division Manager	Division Manager
Tacoma Water	Public Works
01/11/2024	01/10/2024
Date	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 Michael Washington, Project Delivery Manager, Tacoma Water Andrew Zaremba, Water Budget and Financial Analysis, Tacoma Water

Description: Streets Initiative Package #24 & #35

Specification No.: PW23-0241F Bid Opening: 11/28/23

					ENGINEER'S ESTIMATE		Low B R.L. Alia C				
Item	Spec #	Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	QTY.	%	Amount
chedui	le A: Roa	dway Bid Items R1 - R83									
R1	1-05	Roadway Surveying	LS	1	\$135,000.00	\$135,000.00	\$54,000.00	\$54.000.00		0.00831660	449.10
R2	1-05	Project Redline Drawings	LS	1	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00		0.00831660	8.33
R3	1-07	SPCC Plan	LS	1	\$2.000.00	\$2,000.00	\$500.00	\$500.00		0.00831660	4.1
R4	1-09	Mobilization	LS	1	\$347,000.00	\$347,000.00	\$250,000.00	\$250.000.00		0.00831660	2,079.1
R5	1-10	Pedestrian Traffic Control	LS	1	\$74,000,00	\$74,000,00	\$20,000.00	\$20,000.00		0.00831660	166.3
R6	1-10	Project Temporary Traffic Control	LS	1	\$296,000.00	\$296,000.00	\$120,000.00	\$120.000.00		0.00831660	997.9
R7	2-01	Clearing and Grubbing	LS	1	\$55,000.00	\$55,000.00	\$18,000.00	\$18,000.00		0.00831660	149.7
R8	2-01	Certified Arborist	LS	1	\$12,000.00	\$12,000.00	\$4,000.00	\$4,000.00		0.00831660	33.2
R9	2-01	Certified Arborist Assessment Report Compliance	FA	1	\$7.500.00	\$7,500.00	\$7,500.00	\$7,500.00		0.00831660	62.3
R10	2-02	Test Hole	LF	150	\$160.00	\$24,000.00	\$300.00	\$45,000.00		0.00000000	0.0
R11	2-02	Existing Irrigation Systems	FA	11	\$2.500.00	\$2,500.00	\$2,500.00	\$2.500.00		0.00831660	20.7
R12	2-03	Roadway Excavation Incl. Haul	CY	2 154	\$35.00	\$75,390.00	\$56.00	\$120,624.00		0.000000000	0.0
R13	2-03	Roadway Excavation of Contaminated Material, Incl. Haul	CY	3,414	\$100.00	\$341,400.00	\$56,00	\$191,184.00		0.00101185	193.4
R14	2-03	Embankment Compaction	CY	50	\$10.00	\$500.00	\$50,00	\$2,500,00		1 00000000	2,500.0
R15	2-03	Gravel Borrow Incl. Haul	CY	114	\$35.00	\$3,990.00	\$60.00	\$6,840.00		0.000000000	0.0
R16	2-06	Subgrade Maintenance and Protection	LS	1	\$7,500.00	\$7,500.00	\$25,000.00	\$25,000.00		0.00831660	207.9
R17	2-09	Structure Excavation Class B	CY	2.233	\$25.00	\$55,825.00	\$43.00	\$96.019.00		0.000000000	0.0
R18	2-09	Shoring or Extra Excavation Class B	SF	16.093	\$4.00	\$64,372.00	\$0.25	\$4.023.25		0.000000000	0.0
R19	2-14	Remove Existing Pavement, Type I, Class A2	SY	12.523	\$5.00	\$62,615.00	\$8.00	\$100.184.00		0.000000000	0.0
R20	2-14	Remove Existing Pavement, Type I, Class A4	SY	5 009	\$15.00	\$75,135.00	\$10.00	\$50.090.00		0 000000000	0.0
R21	2-14	Remove Existing Pavement, Type I. Class C6	SY	1,638	\$20.00	\$32,760.00	\$13.00	\$21,294.00		0.000000000	0.0
R22	2-14	Remove Existing Pavement, Type I, Class CA	SY	250	\$35.00	\$8,750.00	\$40.00	\$10.000.00		0.000000000	0.0
R23	2-15	Remove Curb	LF	564	\$10.00	\$5.640.00	\$6.00	\$3,384.00		0.04728132	160.0
R24	2-16	Remove Catch Basin	EA	18	\$400.00	\$7,200.00	\$750.00	\$13,500.00		0 000000000	0.0
R25	2-16	Remove Manhole	EA	3	\$1,000.00	\$3,000.00	\$1,000.00	\$3,000.00		0 000000000	0.0
R26	2-17	Site Health and Safety Plan	LS	1	\$1,500.00	\$1,500.00	\$3,000.00	\$3.000.00		0.00831660	24.
R27	2-17	Site Health and Safety Officer	LS	1	\$3,500.00	\$3,500 00	\$10,000.00	\$10,000.00		0.00831660	83.
R28	2-17	Soil Management Plan	LS	1	\$1.000.00	\$1,000.00	\$2,000.00	\$2,000.00		0.00831660	16.0
R29	4-04	Crushed Surfacing Top Course	TN	1,410	\$50.00	\$70,500.00	\$47.00	\$66,270.00		0.00532624	352.9
R30	4-04	Crushed Surfacing Base Course	TN	5.617	\$50.00	\$280,850.00	\$47.00	\$263,999.00		0.000000000	0.0
R31	4-04	Gravel Path	TN	12	\$65.00	\$780.00	\$200.00	\$2,400.00		0.000000000	0.4
R32	5-04	Planing Bituminous Pavement	SY	2.539	\$5.00	\$12,695.00	\$7.00	\$17,773.00		0.35897204	6,380.
R33	5-04	HMA CL 1/2" PG 58H-22 per ton	TN	3.895	\$125.00	\$486,875.00	\$118.00	\$459,610.00		0.02591240	11,909.6
R34	5-04	HMA for Approach CL 3/8" PG 58H-22	SY	1.013	\$80.00	\$81,040.00	\$30.00	\$30.390.00		0.00703146	213.
R35	5-04	Temporary Pavement Patch	TN	257	\$225.00	\$57,825.00	\$60.00	\$15,420.00		0.01945525	300.
R36	7-05	Adjust Area Drain to Grade	EA	2	\$1.000.00	\$2,000.00	\$700.00	\$1.400.00		0.000000000	0.0
R37	7-05	Adjust Existing Catch Basin	EA	8	\$800.00	\$6.400.00	\$1,000.00	\$8.000.00		0.000000000	0.0
R38	7-05	Adjust Existing Manhole	EA	25	\$1,200.00	\$30,000.00	\$1,100.00	\$27.500.00		0.02666667	733.
R39	7-05	Adjust Existing Valve Chamber to Grade	EA	39	\$700.00	\$27,300.00	\$800.00	\$31,200.00		0.000000000	0.
R40	7-05	Catch Basin Type 1	EA	38	\$2,000.00	\$76,000.00	\$2.100.00	\$79.800.00		0.000000000	0.1
R41	7-05	Catch Basin Type 2, 48 In. Diam.	EA	1	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00		0.000000000	
R42	7-05	Manhole 48 In. Diam. Type 1	EA	9	\$6,000.00	\$54,000.00	\$5,000.00	\$45.000.00		0.000000000	0.1
R43	7-05	Manhole Additional Height 48 In. Diam. Type 1	LF	4	\$200.00	\$800.00	\$200.00	\$800.00		0 00000000	0.0
R44	7-05	Reconnect Existing Sewer Pipe, 8-In, Diam., to New Structure	EA	5	\$1.500.00	\$7,500.00	\$3,000.00	\$15,000.00		0.00000000	0.0
R45	7-05	Reconnect Existing Sewer Pipe, 6-In. Diam., to New Structure	EA	1	\$1,500.00	\$1,500.00	\$3,000.00	\$3 000.00		0 00000000	0.0
R46	7-05	Reconnect Existing Sewer Pipe, 12-In, Diam., to New Structur	eEA	2	\$1,500.00	\$3,000.00	\$3,000.00	\$6,000.00		0.000000000	0.

Description: Streets Initiative Package #24 & #35 Specification No.: PW23-0241F

Bid Opening: 11/28/23

						ENGINEER'S ESTIMATE		idder Company	Harana Maria da In		
Item S	Spec #	Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	QTY.	%	Amount
R47 7-	-05	Reconnect Existing Sewer Pipe, 10-In. Diam., to New Structur	eEA	4	\$1,500.00	\$6,000.00	\$3,000.00	\$12,000.00		0.00000000	0.0
R48 7-	-05	Connect New Sewer Pipe, 12-In Diam., to Existing Structure	EA	7	\$1,500.00	\$10,500.00	\$2,200.00	\$15,400.00		0.000000000	0.
		Contech StormFilter Manhole 60-In. Diam., with 4 StormFilter									
R49 7-	-05	Cartridges	EA	2	\$35,000.00	\$70,000.00	\$38,000.00	\$76,000.00		0.00000000	0.
R50 7-	-08	CDF for Pipe Abandonment	CY	7	\$550.00	\$3,850.00	\$500.00	\$3.500.00		0.000000000	0.
R51 7-	-08	Temporary Storm Sewer Bypass	LS	1	\$8,500.00	\$8,500.00	\$500.00	\$500.00		0.00831660	4.
R52 7-	-08	Temporary Storm Sewer Bypass plan	LS	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1.500.00		0.00831660	12.
R53 7-	-17	Removal and Replacement of Unsuitable Material Incl. Haul	CY	1.273	\$70.00	\$89,110.00	\$29.00	\$36.917.00		0.00000000	0.
		Removal and Replacement of Unsuitable Contaminated									
R54 7-	-17	Material, Incl. Haul	CY	387	\$115.00	\$44,505.00	\$29.00	\$11.223.00		0.000000000	0.
R55 7-	-17	Pipe Zone Contaminated Material Haul and Disposal	CY	187	\$100.00	\$18,700.00	\$29.00	\$5,423.00		0.000000000	0.
		Ductile Iron Sewer Pipe 6 In. Diam.	LF	58	\$150.00	\$8,700,00	\$100.00	\$5,800,00		0 000000000	0.
	-17	Ductile Iron Sewer Pipe 12 In, Diam,	LF	453	\$175.00	\$79.275.00	\$175.00	\$79,275,00		0.000000000	0.
		PVC Storm Sewer Pipe 12 In. Diam.	LF	2,360	\$115.00	\$271,400.00	\$100.00	\$236,000,00		0 00000000	0.
	-17	Testing Sewer Pipe	LF	2,871	\$5.00	\$14,355.00	\$7.00	\$20.097.00		0.00000000	0.
		Residential Storm Drain Through Curb	LF	85	\$45.00	\$3.825.00	\$90.00	\$7,650.00		0.000000000	0.
		Erosion/Water Pollution Control	LS	1	\$11.000.00	\$11,000.00	\$35,000.00	\$35.000.00		0.00831660	291.
	-01	Stormwater Pollution Prevention Plan (SWPPP)	LS	1	\$1.500.00	\$1,500.00	\$1,000.00	\$1.000.00		0.00831660	8.
		NPDES Construction Stormwater General Permit	LS	1	\$1,500.00	\$1,500,00	\$1,000.00	\$1,000.00		0.00831660	8
		Site Restoration	LS	1	\$55,000.00	\$55,000.00	\$50,000.00	\$50.000.00		0.00831660	415
	-02	Topsoil Type A	CY	581	\$75.00	\$43,575.00	\$90.00	\$52.290.00		0.000000000	0
	-02	Seeded Lawn Installation	SY	3,410	\$5.00	\$17,050.00	\$3.00	\$10,230.00		0 000000000	0
	-02	Quarry Spalls for Slope Restoration	TN	405	\$50.00	\$20,250.00	\$75.00	\$30,375.00		0.000000000	0.
	-04	Cement Conc. Traffic Curb and Gutter	IF	5.792	\$35.00	\$202,720.00	\$31.00	\$179.552.00		0.00459945	825
	-04	Mountable Cement Conc. Curb and Gutter, Type D	LF	45	\$50.00	\$2,250.00	\$31.00	\$1.395.00		0.00000000	0.
		Pedestrian Curb	LF	15	\$25.00	\$375.00	\$40.00	\$600.00		0.000000000	0.
		Cement Conc. Driveway Entrance	SY	1,117	\$100.00	\$111,700.00	\$70.00	\$78 190.00		0.00000000	0.
		Removing and Resetting Beam Guardrail	LF	60	\$50.00	\$3,000.00	\$100.00	\$6,000.00		0.00000000	0
	-13	Poured Monument	EA	7	\$1.000.00	\$7,000.00	\$700.00	\$4 900.00		0.07142857	350
	-14	Cement Conc. Sidewalk	SY	637	\$100.00	\$63,700.00	\$60.00	\$38,220.00		0.000000000	0.
	-14	Cement Conc. Sidewalk with Score Pattern	SY	40	\$120.00	\$4,800.00	\$100.00	\$4,000.00		0.000000000	0.
	-14	Cement Conc. Curb Ramp	EA	88	\$2,500,00	\$220,000.00	\$2,100.00	\$184.800.00		0.000000000	0.
	-14	Detectable Warning Surface	SF	20	\$75.00	\$1,500.00	\$50.00	\$1,000.00		0.000000000	0.
	-18	Mailbox Support	EA	15	\$300.00	\$4,500.00	\$400.00	\$6,000.00		0.000000000	0.
	-21	Permanent Roadway Terminus	EA	1	\$400.00	\$400.00	\$2,500.00	\$2.500.00		0.000000000	0.
	-21	Permanent Signing	LS	1	\$25.000.00	\$25,000.00	\$30,000.00	\$30,000.00		0.00831660	249
	-22	Plastic Line	LF	1.700	\$5.00	\$8,500.00	\$6.00	\$10,200.00		0.00	0.
	-32	Concrete Border	LF	25	\$35.00	\$875.00	\$60.00	\$1.500.00		0.00	0.
	-32	Artificial Turf	SY	44	\$400.00	\$17,600.00	\$200.00	\$8.800.00		0.00	0
1,00	-	Roadway Base Bid Total (Bid Items R1 - R83			0.00.00	\$4,364,157.00	0200.00	\$3,512,541.25		0.00	29,212
chedule I	B: Was	tewater Bid Items WW1 - WW32	/			+ .,554,757.00		40,012,041.20			
	-05	Roadway Surveying	LS	1 1	\$78.000.00	\$78.000.00	\$5,000.00	\$5,000.00			
		Project Redline Drawings	LS	1	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00			
	-07	SPCC Plan	LS	1	\$1,500.00	\$1,500.00	\$500.00	\$500.00			
		Mobilization	LS	1	\$230,000.00	\$230,000.00	\$150,000.00	\$150,000,00			
	-10	Pedestrian Traffic Control	LS	1	\$35.000.00	\$35,000.00	\$20,000.00	\$20,000,00			
		Project Temporary Traffic Control	LS	1	\$195.000.00	\$195,000.00	\$120,000.00				

\$2,017.00

\$1.00

\$10.00

\$20,170.00

100,00% \$20,170.00

Description: Streets Initiative Package #24 & #35

Specification No.: PW23-0241F Bid Opening: 11/28/23

W10

Trench Shoring (7-09 3(7) & 7-09.5)

ENGINEER'S Low Bidder **ESTIMATE** R.L. Alia Company Item Spec # Description Unit Quantity Unit Price Amount Unit Price Amount QTY. Amount WW7 2-01 Clearing and Grubbing \$60,000.00 \$60,000.00 \$8,000.00 \$8,000.00 \$5,800,00 \$2,500.00 \$2,500.00 WW8 2-01 Certified Arborist \$5,800,00 WW9 2-02 Removal of Structures and Obstructions \$5.800.00 \$5,800,00 \$20,000,00 \$20,000.00 1 WW10 2-09 Structure Excavation Class B 6.619 \$25.00 \$165,475.00 \$43.00 \$284,617.00 Shoring or Extra Excavation Class B 54,507 \$4.00 \$218,028.00 \$0.50 \$27 253.50 WW11 2-09 WW12 2-16 Remove Manhole EA \$1,000.00 \$9,000.00 \$1,000.00 \$9 000.00 590 \$132,750.00 \$60.00 \$35,400.00 Temporary Pavement Patch INT \$225.00 WW13 5-04 WW14 7-05 Manhole 48 In. Diam. Type 1 EA 21 \$6,000.00 \$126,000.00 \$8,000.00 \$168,000,00 Manhole Additional Height 48 In. Diam. Type 1 35 \$200.00 \$7,000.00 \$7 000.00 WW15 7-05 IF \$200.00 WW16 7-05 Reconnect Existing Sewer Pipe, 10-In. Diam., to New Structure EA \$1,500.00 \$4,500.00 \$3,000.00 \$9,000,00 3 WW17 7-05 Connect New Sewer Pipe, 10-In Diam., to Existing Structure \$1,500.00 \$10,500.00 \$2,200.00 \$15.400.00 \$1,500.00 \$1,500.00 WW18 7-05 Connect New Sewer Pipe, 8-In Diam., to Existing Structure 1 \$2,200.00 \$2,200.00 WW19 7-08 CDF for Pipe Abandonment \$550.00 \$1,100.00 \$1,000.00 \$2,000.00 2 WW20 7-08 Temporary Sanitary Sewer Bypass \$7,500.00 \$7,500.00 \$40,000.00 \$40.000.00 Temporary Sanitary Sewer Bypass plan \$1,000.00 \$1,000.00 \$2,500.00 \$2,500.00 WW21 WW22 Removal and Replacement of Unsuitable Material Incl. Haul 3.648 \$70.00 \$255,360.00 \$29.00 \$105,792.00 Removal and Replacement of Unsuitable Contaminated \$243,110,00 WW23 7-17 Material, Incl. Haul 2.114 \$115.00 \$29.00 \$61,306.00 Pipe Zone Contaminated Material Haul and Disposal \$6,000.00 \$1.740.00 WW24 7-17 CY 60 \$100.00 \$29.00 PVC Sanitary Sewer Pipe 10 In. Diam. LF 3,313 \$115.00 \$380,995.00 \$156.00 \$516,828.00 WW26 7-17 PVC Sanitary Sewer Pipe 8 In. Diam. 911 \$115.00 \$104,765.00 \$156.00 \$142 116.00 \$115.00 \$175.00 7-17 PVC Sanitary Sewer Pipe 6 In. Diam. 964 \$110.860.00 \$168,700,00 PVC Sanitary Sewer Pipe C900 6 In. Diam. WW28 434 \$150.00 \$65,100.00 \$200.00 \$86,800.00 7-17 Testing Sewer Pipe 5.152 \$5.00 \$25,760,00 \$36,064,00 WW29 \$7.00 -19 Sewer Cleanout 76 \$60,800.00 \$800.00 \$60.800.00 \$20.000.00 WW31 Erosion/Water Pollution Control \$11,000.00 \$11,000.00 \$20,000,00 \$25,000,00 WW32 8-02 Site Restoration LS 1 \$58,000,00 \$58,000,00 \$25,000.00 Wastewater Base Bid Total (Bid Items WW1 - WW32) \$2.618.203.00 \$2,154,516,50 Schedule C: Water Bid Items W1 - W38 Mobilization (1-09.7) \$46,000,00 \$46,000.00 \$35.000.00 \$35,000.00 100.00% \$35.000.00 W2 Project Temporary Traffic Control (1-10) IS \$25,000.00 \$25,000.00 \$10,000.00 \$10,000.00 100.00% \$10.000.00 Removal/Disposal of existing asphalt, concrete sidewalk/curbing & concrete pavement. Includes all W3 thicknesses and combinations (2-02.3(3)) 739 \$25,00 \$18,475,00 \$12.00 \$8,868,00 100.00% \$8,868,00 Temporary HMA Class 1/2" PG58-22. 2-inch minimum depth, W4 installed & removed (5-04 & 9-03.8) 706 \$35.00 \$24,710,00 \$6.00 \$4.236,00 100.00% \$4,236.00 HMA CI 1/2" PG58-22 pavement for permanent trench patch (5 W5 04 & 9-03.8)-6" in Depth TN 10 \$200.00 \$2,000.00 \$300.00 \$3,000.00 100.00% \$3,000.00 Crushed Surfacing Top Course for trench backfill (7-09.5 & 9-1.576 \$25.00 \$39,400.00 \$52,008.00 100.00% \$52,008.00 W7 Storm, Sanitary, Side Sewer Restoration (7-04,7-09.5, 7-17, & EA \$500.00 \$4,000.00 \$300.00 \$2,400.00 100.00% \$2,400.00 8 Trench Excavation & Disposal of Contaminated Material, Incl. \$107,975.00 Haul to LRI (2-17 & 7-09.4) \$175.00 W/8 617 \$29.616.00 100.00% \$29,616.00 \$48.00 Trench Excavation & Disposal (7-09.3(7) & 7-09.5) W9 347 \$25.00 \$8,675.00 \$35,00 \$12,145.00 100.00% \$12,145.00

2.017

Description: Streets Initiative Package #24 & #35 Specification No.: PW23-0241F

Specification No.: PW23 Bid Opening: 11/28/23

					MATE	Low B R.L. Alia C		Hispania III			
Item Spe	c # Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	QTY.	%	Amount	
	8-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151.										
	Special Class Thickness No. 52, to furnish, lay and test (7-										
/√11	09.3(15)A. 7-09.5 & 9-30.1(1))	LF	235	\$60.00	\$14,100.00	\$76.00	\$17.860.00		100.00%	\$17,860.0	
	6-inch Ductile Iron Pipe. Push-On Joint, ANSI/AWWA, C151.										
	Special Class Thickness No. 52, to furnish, lay and test, (7-										
N12	09.3(15)A. 7-09.5 & 9-30.1(1))	LF	1.960	\$50.00	\$98,000.00	\$70.00	\$137,200.00		100.00%	\$137.200.	
	8-inch x 6-inch Ductile Iron Reducer, 2-B, M.J., w/ anchor,									i	
W13	installed (7-05.9 & 9-30.2(1))	EA	1	\$375.00	\$375.00	\$300.00	\$300.00		100.00%	\$300.	
N14	8-inch x 6-inch Ductile Iron Tee, 3-B, M.J. installed (9-30.2(1))		1	\$425.00	\$425.00	\$350.00	\$350.00		100.00%	\$350.	
N15	6-inch Ductife Iron Tee, 3-B, M.J, installed (9-30.2(1))	EA	3	\$335.00	\$1,005.00	\$400.00	\$1,200.00		100.00%	\$1,200.	
N16	8-inch Ductile Iron Ell, M.J., 45°, installed. (7-09, & 9-30.2(1))	EA	2	\$275.00	\$550.00	\$600.00	\$1,200.00		100.00%	\$1,200.	
W17		EA	12	\$195.00	\$2,340.00	\$200.00	\$2,400.00		100.00%	\$2,400.	
W18	6-inch Ductile Iron Ell, M.J. 22-1/2°, installed. (7-09, & 9-	EA	4	\$175.00	\$700.00	\$275.00	\$1,100.00		100.00%	\$1,100.	
N19	6-inch Ductile Iron Ell. M.J., 11-1/4°, installed. (7-09, & 9-	EA	1	\$180.00	\$180.00	\$220.00	\$220.00		100.00%	\$220.	
	6-inch Vertical Ductile Iron Ell, M.J., 22-1/2°, installed, (7-09, &										
W20	9-30.2(1))	EA	2	\$500.00	\$1,000.00	\$400.00	\$800 00		100.00%	\$800.	
	8-inch Transition Coupling with 7-inch center ring, epoxy										
	coating, and stainless steel bolts, C.I. to D.I., installed (7-										
N21	09.3(19)A, 7-09.5 & 9-30.2(7))	EA	1	\$1,100.00	\$1,100.00	\$650.00	\$650.00		100,00%	\$650.	
	6-inch Transition Coupling with 7-inch center ring, epoxy										
	coating, and stainless steel bolts, C.I. to D.I., installed (7-										
W22	09.3(19)A, 7-09.5 & 9-30.2(7))	EA	3	\$750.00	\$2,250.00	\$550.00	\$1.650.00		100.00%	\$1,650.	
	8-inch Ductile Iron Cap. M.J., tapped 2", installed and removed										
W23	(9-30.2(1) & 7-09.5)	EA	1	\$245.00	\$245.00	\$300.00	\$300.00		100 00%	\$300.	
	6-inch Ductile Iron Cap, M.J., tapped 2', installed and removed										
W24	(9-30.2(1) & 7-09.5)	EA	4	\$175.00	\$700.00	\$300.00	\$1,200.00		100,00%	\$1,200.	
	Temporary 2-inch Blow-Off Assembly, installed and removed										
W25	(Dwg. 17-56-1) (7-09.3(22) & 7-09.5)	EA	5	\$750,00	\$3,750.00	\$300.00	\$1,500,00		100,00%	\$1,500.	
	8-inch Mechanical Joint Restraining Glands (7-14, 7-09.5 & 9-										
W26	30.2(6))	EA	6	\$60.00	\$360.00	\$120.00	\$720.00		100.00%	\$720.	
	6-inch Mechanical Joint Restraining Glands (7-14, 7-09.5 & 9-										
W27	30.2(6))	EA	8	\$60.00	\$480.00	\$100.00	\$800.00		100.00%	\$800.	
W28	Concrete Thrust Anchor, installed. (7-09.3(21) & 7-09.5)	EA	21	\$500.00	\$10,500.00	\$200.00	\$4,200.00		100.00%	\$4,200.	
	Temporary Concrete Thrust Anchor, installed and removed (7-										
W29	09.3(21) & 7-09.5)	EΑ	5	\$300.00	\$1,500.00	\$100.00	\$500.00		100.00%	\$500.	
	insulating casing spacers and end seals for 6-inch DI pipe (7-										
W30	10)	LF	311	\$150.00	\$46,650.00	\$75.00	\$23,325.00		100.00%	\$23,325.	
	Trench Compaction Test (as directed by the Inspector) (7-										
W31	09.3(11) & 7-09.5)	EA	40	\$150.00	\$6,000.00	\$80.00	\$3,200.00		100.00%	\$3,200.	
W32	Test Holes (7-09.3(6) & 7-09.5)	LS	1	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00		100.00%	\$2,000.	
	8-inch Gate Valve, M.J., ANSI/AWWA. C509/515, with C.I.										
W33	Valve Box (7-12 & 9.30.3)	EA	1	\$1,600.00	\$1,600.00	\$3,000.00	\$3,000.00		100.00%	\$3,000.	
	6-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I.										
W34	Valve Box (7-12 & 9.30.3)	EA	10	\$1,200.00	\$12,000.00	\$2,000.00	\$20.000.00		100.00%	\$20,000.	
	6-inch Hydrant, M.J., 5.0-ft bury, with 4-inch Tacoma										
W35	Standard Threads & 5-inch Quick Coupling (7-14 & 9-30.5(2))	EA	2	\$4,500.00	\$9,000.00	\$5,500.00	\$11,000.00		100.00%	\$11,000.	
	Street cleaning with Self-propelled Pickup and Vacuum Street										
W36	Sweeper Equipment. (8-01.3(8))	HR	25	\$175.00	\$4.375.00	\$150.00	\$3,750.00		100.00%	\$3,750.	

Description: Streets Initiative Package #24 & #35 Specification No.: PW23-0241F Bid Opening: 11/28/23

						NEER'S IMATE	Low Bio R.L. Alia C			ATTENDATION OF	
Item	Spec #	Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	QTY.	%	Amount
W37		Traffic Lane Markings (8-22)	LS	1	\$1.000.00	\$1,000 00	\$4,000.00	\$4,000.00		100.00%	\$4,000 00
W38		Force Account (1-09.6)	EST	1	\$40,000.00	\$40,000.00	\$40,000.00	\$40,000.00		100.00%	\$40,000.00
		Water Base Bid Total (Bid Items W1 - W38)				\$543,437.00		\$461,868.00			\$461,868.00
Schedu	le D: Gua	rdrail Repair Bid Items G1 - G11									
G1		Mobilization	LS	1	\$25,000.00	\$25,000.00	\$2,500.00	\$2,500.00			
G2		Pedestrian Traffic Control	LS	1	\$7,500.00	\$7,500.00	\$500.00	\$500.00			
G3		Project Temporary Traffic Control	LS	1	\$25,000.00	\$25,000.00	\$8,000.00	\$8,000.00			
G4		Clearing and Grubbing	LS	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00			
G5		Erosion/Water Pollution Control	LS	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00			
G6		Stormwater Pollution Prevention Plan (SWPPP)	LS	1	\$1,500.00	\$1.500.00	\$100.00	\$100.00			
G7		Site Restoration	LS	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00			
G8		Remove Crash Cushion	EΑ	1	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00			
G9		Valtir Quadguard M10 (TL-2)	EΑ	1	\$30,000.00	\$30.000.00	\$33,000.00	\$33.000.00			
G10		Removing Guardrail Anchor	EA	4	\$7,000,00	\$28,000.00	\$500.00	\$2,000.00			
G11		Beam Guardrail Type 31 Non-Flared Terminal	EA	4	\$30,000.00	\$120,000.00	\$7,000.00	\$28,000.00			
		Guardrail Base Bid Total (Bid Items G1 - G11				\$247,500.00		\$79,100.00			
		TOTAL BASE BID (Not Including Sales Tax)				\$7,773,297.00		\$6,208,025.75			
		TOTAL BASE BID + FA - SALES TAX				\$7,773,297.00		\$6,208,025.75			
		EIC = Less FA & Sales Tax				\$7,763,297.00		\$6,198,025.75			

	Tacoma Water Cost Share Summary	
Item	Description	Amount
Α	Water Schedule C Items (Without Tax)	\$461.868.00
В	Shared Cost Items (Without Tax)	\$29,212.42
С	Waste Disposal Fee Cost for Contaminated Items	\$128,146.00
D	(Disposal fee of \$207.69 per CY-\$207.69 x 617 CY) Total Construction Cost (Without Tax)	\$619,226,42
	(A + B + C)	
E	Total Construction Costs with 15% Contingency (C&A Document Water Total)	\$564.742.46
F	(A + B) x 1.15 Admin Costs (3% excluding FA)	\$13,532.41
	(A + B - \$Force Account) x 3%	#C20 750 B2
G	Cumulative Total (less tax, less contingency) (D + F)	\$632,758.83