



RESOLUTION NO. U-11242

1 A RESOLUTION related to the purchase of materials, supplies, equipment and
2 the furnishing of services; authorizing the City officials to enter into
3 contracts and, where specified, waive competitive bidding requirements,
4 authorize sale of surplus property, or increase or extend existing
5 agreements.

6 WHEREAS the City of Tacoma, Department of Public Utilities, requested
7 bids/proposals for the purchase of certain materials, supplies, equipment and/or
8 the furnishing of certain services, or proposes to purchase off an agreement
9 previously competitively bid and entered into by another governmental entity, or
10 for the sales of surplus, or desires to increase and/or extend an existing
11 agreement, all as explained by the attached Exhibit "A," which by this reference
12 is incorporated herein, and

13 WHEREAS in response thereto, bids/proposals (or prices from another
14 governmental agreement) were received, all as evidenced by Exhibit "A," and

15 WHEREAS the Board of Contracts and Awards and/or the requesting
16 division have heretofore made their recommendations, which may include
17 waiver of the formal competitive bid process because it was not practicable to
18 follow said process, or because the purchase is from a single source, or there is
19 an emergency that requires such waiver, and/or waiver of minor deviations, and
20 in the case of sale of surplus, a declaration of surplus has been made certifying
21 that said items are no longer essential for continued effective utility service, as
22 explained in Exhibit "A," Now, therefore,
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BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

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That the Public Utility Board of the City of Tacoma hereby concurs and approves the recommendations of the Board of Contracts and Awards and/or the requesting division, and approves, as appropriate: (1) the purchase and/or furnishing of those materials, supplies, equipment or services recommended for acceptance; (2) the sale of surplus materials, supplies or equipment recommended for acceptance; (3) the Interlocal agreement that authorizes purchase off another governmental entity's contract; (4) the increase and/or extension of an existing agreement, and said matters may include waiver of the formal competitive bid process and/or waiver of minor deviations, all as set forth on Exhibit "A," and authorizes the execution, delivery and implementation of appropriate notices, contracts and documents by the proper officers of the City for said transactions.

Approved as to form:

/s/
Chief Deputy City Attorney

Chair

Secretary

Clerk

Adopted _____



RESOLUTION NO.: U-11242
ITEM NO.: 1
MEETING DATE: MARCH 24, 2021

TO: Board of Contracts and Awards
FROM: Joseph A. Wilson, PE, Transmission and Distribution Manager
Joe Parris, Transmission and Distribution Contract Program Manager
COPY: Public Utility Board, Director of Utilities, Board Clerk, EIC Coordinator, LEAP Coordinator, and Tina Eide, Finance/Purchasing
SUBJECT: Power Line Vegetation Clearance Crews
Request for Bids Specification No. PT20-0355F – March 24, 2021
DATE: March 5, 2021

RECOMMENDATION SUMMARY:

Tacoma Power recommends a contract be awarded to Asplundh Tree Expert, LLC, Woodinville, WA, for power line vegetation clearance crews, in the amount of \$6,590,040.00, plus applicable taxes, for an initial contract term of three years plus a single one year renewal option, for a projected contract amount of \$8,874,587.20, including a 4% escalation for the renewal option year.

BACKGROUND:

The labor and equipment to be supplied under this contract will be utilized to augment the Transmission and Distribution vegetation management workforce. It is anticipated that these contract services will provide support during seasonal workload demands, storm restoration, and to assist in the tree trimming cycles for distribution and transmission circuits. Contract crew services allow Tacoma Power to administer a vegetation management program focused on maintaining reliable electric service and improved public safety.

ISSUE: The field of power line vegetation clearance is a specialized area of the vegetation management trade. Services to be performed will consist of trimming of trees, shrubs, and other vegetation within the right-of-way accesses and in close proximity to energized conductors. This work is critical in assuring Tacoma Power will remain in compliance with the North American Electric Reliability Council (NERC) vegetation management standard FAC-003-4.

ALTERNATIVES: Tacoma Power could forego awarding an on-call contract and conduct individual solicitations for power line vegetation clearance crews on an as-needed basis. This would extend critical project deadlines, negatively impact the timeframe for emergency restoration, and significantly impact internal resources. Individual solicitations would potentially result in increased costs by not leveraging economies of scale.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. PT20-0355F was opened March 2, 2021. Five companies were invited to bid in addition to normal advertising of the project. Three submittals were received.

Asplundh Tree Expert, LLC submitted a bid that resulted in the lowest evaluated submittal after consideration of EIC participation goals. The table below reflects the amount of the initial contract term.



<u>Respondent</u>	<u>Location</u> <i>(city and state)</i>	<u>Submittal</u> <u>Amount</u>
Asplundh Tree Expert, LLC	Woodinville, WA	\$6,590,040.00
Wright Tree Service, Inc.	West Des Moines, IA	\$6,890,000.00
Davey Tree Surgery Company	Livermore, CA	\$8,605.390.00

Pre-bid Estimate: \$6,570,000

The recommended award is 0.3 percent above the pre-bid estimate.

CONTRACT HISTORY: New contract.

EIC/LEAP COMPLIANCE: The Equity in Contracting (EIC) office determined a program goal would not be applicable for this on-call project. The Local Employment and Apprenticeship Training Program (LEAP) requirements are Local Employment Goal of 15% and Apprentice Utilization Goal of 15%.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Operations & Maintenance Budget			\$8,874,587.20
TOTAL			

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
TOTAL			

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$3,661,133.33

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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

PT20-0355F Power Line Vegetation Clearance Crews

Contract Estimate

Bid Line Item	Estimated Contract Hours	Asplundh Cost per Hour (Regular Time)	Contract Estimate
1	1,000	\$216.99	\$216,990.00
2	27,000	\$220.91	\$5,964,570.00
3	2,000	\$204.24	\$408,480.00
30,000			\$6,590,040.00

3 Year Total	\$6,590,040.00
1 Year Renewal (+4%)	\$2,284,547.20
Cumulative Total	\$8,874,587.20

PT17-0429F - Augmented Tree Crews
Bid Evaluation

Bid Estimate \$6,570,000 \$6,570,000.00						Second Year Escalation 5.00% Third Year Escalation 5.00%					Second Year Escalation 5.0% Third Year Escalation 5.0%					Second Year Escalation 4.0% Third Year Escalation 3.5%					2020 Contract Rates (Wright Tree)			Asplundh % Difference from Prior Contract				
Crew Rates	Bid Estimate					Wright Tree Service					Davey Tree Surgery					Asplundh					Regular Time Rates	Overtime Rates	Storm Rates	Regular Time Rates	Overtime Rates	Storm Rates	Average %	
	Estimated Hours	Regular Time Rates	Overtime Rates	Storm Rates	Total (3 Years)	Regular Time Rates	Overtime Rates	Storm Rates	Total (3 years)	Evaluated Total	Regular Time Rates	Overtime Rates	Storm Rates	Total (3 years)	Evaluated Total	Regular Time Rates	Overtime Rates	Storm Rates	Total (3 years)	Evaluated Total								
		90%	5%	5%		90%	5%	5%			90%	5%	5%			90%	5%	5%										
A - Standard Crew	1,000	\$216.12	\$273.66	\$331.20	\$216,120.00	\$227.00	\$283.77	\$340.54	\$227,000.00	\$247,585.67	\$293.16	\$478.78	\$478.78	\$293,160.00	\$327,697.75	\$216.99	\$301.82	\$345.16	\$216,990.00	\$236,335.85	\$209.83	\$265.69	\$321.55	3.4%	13.6%	7.3%		
B - Extra Height Crew	27,000	\$220.24	\$277.78	\$335.32	\$5,946,480.00	\$231.00	\$287.77	\$344.54	\$6,237,000.00	\$6,798,348.07	\$287.75	\$473.37	\$473.37	\$7,769,250.00	\$8,694,283.23	\$220.91	\$305.74	\$349.08	\$5,964,570.00	\$6,490,950.98	\$213.83	\$269.69	\$325.55	3.3%	13.4%	7.2%		
C - Climbing Crew	2,000	\$201.70	\$259.24	\$316.78	\$403,400.00	\$213.00	\$269.77	\$326.54	\$426,000.00	\$465,736.34	\$271.49	\$457.11	\$457.11	\$542,980.00	\$609,834.33	\$204.24	\$289.07	\$332.41	\$408,480.00	\$446,197.60	\$195.83	\$251.69	\$307.55	4.3%	14.9%	8.1%		
	30,000				\$6,566,000.00				\$6,890,000.00	\$7,511,670.08				\$8,605,390.00	\$9,631,615.31				\$6,590,040.00	\$7,173,484.43				AVG	1.7%	13.9%	7.6%	8.4%
										% Percent Diff to Low at Reading					30.6%				\$ Diff	\$0.00	\$0.00							
										% Percent Diff to Low Evaluated					34.3%					% Percent Diff to Low at Reading								
										% Percent Diff Bid to Estimate					31.0%					% Percent Diff to Low Evaluated								
																				% Percent Diff to Estimate								
Additional Proposal Items																												
Power line Clearance Tree Trimmer in Charge						\$76.43	\$99.43	\$122.43			\$90.82	\$156.21	\$156.21			\$74.94	\$108.75	\$127.09			\$70.12	\$92.74	\$115.38	6.9%	17.3%	10.1%		
Power line Clearance Tree Trimmer						\$68.98	\$88.83	\$108.68			\$84.43	\$145.22	\$145.22			\$66.78	\$97.75	\$111.78			\$63.21	\$82.75	\$102.28	5.7%	18.1%	9.3%		
4th Step Apprentice						\$63.39	\$81.25	\$99.12			\$82.56	\$142.00	\$142.00			\$60.76	\$89.35	\$101.26			\$57.94	\$75.53	\$93.11	4.9%	18.3%	8.7%		
3rd Step Apprentice						\$81.05	\$77.92	\$94.79			\$78.41	\$134.87	\$134.87			\$58.21	\$81.34	\$96.46			\$55.76	\$72.36	\$88.97	4.4%	12.4%	8.4%		
2nd Step Apprentice						\$58.71	\$74.58	\$90.46			\$76.47	\$131.53	\$131.53			\$55.64	\$78.84	\$91.64			\$53.57	\$69.20	\$84.82	3.9%	13.6%	8.0%		
1st Step Apprentice						\$56.36	\$71.25	\$86.13			\$74.52	\$128.17	\$128.17			\$53.07	\$74.32	\$86.82			\$51.38	\$66.03	\$80.67	3.3%	12.6%	7.6%		
Tree Equipment Operator						\$76.43	\$99.43	\$122.43			\$90.42	\$155.52	\$155.52			\$74.94	\$108.75	\$127.09			\$70.12	\$92.74	\$115.38	6.9%	17.3%	10.1%		
Tree Trimmer Ground person						\$54.09	\$68.01	\$81.93			\$69.50	\$119.54	\$119.54			\$50.08	\$70.13	\$81.10			\$49.26	\$62.95	\$76.65	1.7%	11.4%	5.8%		
Trackhoe Mower w/operator & Ground Person						\$346.24	\$383.17	\$420.09			\$386.51	\$664.80	\$664.80			\$231.00	\$304.12	\$405.25			\$188.67	\$224.99	\$261.32	22.4%	35.2%	55.1%		
ISA Certified Arborist w/ Transportation						\$85.75	\$108.75	\$131.75			\$96.41	\$165.83	\$165.83			\$81.50	\$114.50	\$114.50			\$78.04	\$100.67	\$123.31	4.4%	13.7%	-7.1%		
Flagger						\$70.80	\$87.85	\$104.90			\$78.41	\$134.87	\$134.87			\$57.75	\$80.80	\$80.80			\$55.78	\$72.40	\$89.02	3.5%	11.6%	-9.2%		
2 Person Spray Crew W/ Transportation						\$146.92	\$184.31	\$221.70			\$169.56	\$287.62	\$287.62			\$126.45	\$296.14	\$309.20			\$129.37	\$166.15	\$202.93	-2.3%	78.2%	52.4%		
50-55 foot Manlift						\$14.00					\$21.67					\$14.00					\$14.00			0.0%				
60-70 Foot Manlift						\$18.00					\$16.26					\$18.00					\$18.00			0.0%				
80-92 Foot Manlift						\$75.00					\$158.32					\$70.00					\$70.00			0.0%				
105 Foot Manlift						\$75.00					\$260.58					\$70.00					\$70.00			0.0%				
150 Foot Manlift						\$100.00					\$322.89					\$125.00					\$125.00			0.0%				
Off-Road All Terrain 75ft Man Lift						\$25.00					\$158.32					\$38.50					\$38.50			0.0%				
Self Feed Chipper						\$4.25					\$3.12					\$4.25					\$4.25			0.0%				
2-1/2 ton Dump Truck						\$9.25					\$10.56					\$9.00					\$9.00			0.0%				
Skid Steer Mower w/Truck & Trailer						\$57.00					\$226.59					\$32.35					\$32.35			0.0%				
HI-Level Mobile Sign Board						\$15.00					\$26.16					\$4.00					\$4.00			0.0%				
Trackhoe Mower Mobilization						\$215.73					\$1,136.13					\$655.70					\$655.70			0.0%				
Trackhoe Mower Mobilization Vehicle						\$151.43					\$229.28					\$81.69					\$81.69			0.0%				



RESOLUTION NO.: U-11242
ITEM NO.: 2
MEETING DATE: MARCH 24, 2021

TO: Board of Contracts and Awards
FROM: Dale King, Superintendent, Tacoma Rail *Dale King*
Kyle Kellem, Roadmaster, Tacoma Rail
COPY: Public Utility Board, Director of Utilities, Board Clerk, EIC Coordinator, LEAP
Coordinator, and Tina Eide, Finance/Purchasing
SUBJECT: Marine View Drive Railroad Crossing Improvements
Request for Bid, Specification No. TR20-0143F, – March 24, 2021
DATE: March 11, 2021

RECOMMENDATION SUMMARY:

Tacoma Rail recommends a contract be awarded to Midvale Signals, Inc., Sunnyside, WA, for the installation of active grade crossing signalization at two public railroad crossings along Marine View Drive, in the amount of \$892,855.43, plus applicable taxes. Consistent with TMC 1.07.060 (B-C), Tacoma Rail requests C&A Board approval of a waiver of the Equity In Contracting utilization requirements based on the Best Interests of the City.

STRATEGIC POLICY PRIORITY:

Completion of this project will help enhance public safety.

- Strengthen and support a safe city with healthy residents.

BACKGROUND:

The installation of two active highway/railroad grade crossing signalization systems is being facilitated by a U. S. Department of Transportation, Section 130 Grant, which is being administered by the Washington State Department of Transportation (WSDOT) Local Programs Division. Acceptance of this funding was authorized through Public Utilities Board and City Council Resolutions U-10974 and 39871 in November 2017.

Completion of this project will enhance safety for motorists traversing SR-509/Marine View Drive, and Tacoma Rail traincrew members, by way of providing flashing red lights as a visual alert when railroad equipment is occupying the crossing(s).

ISSUE:

Following engineering/design, and environmental permitting approval activities, it took over one-year to negotiate the necessary property easements for construction and utility occupancies with an adjacent property owner, prior to proceeding with advertisement of the project.

ALTERNATIVES:

Rebidding the project would further delay these public safety enhancements, potentially place the grant funding at risk, and jeopardize meeting this summer's work window to utilize the negotiated construction easement which expires on November 13, 2021.



Rail staff could continue with current safety protocols associated with these two crossings. If the request for a waiver is denied the project would have to be re-bid, although the expectation for additional qualified entities responding to a second call for submittals is low.

If the Grant funding was rescinded, Rail could plan to complete the project in a future budget cycle without the aid of federal grant funding.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. TR20-0143F was opened February 16, 2021. Four companies were invited to bid in addition to normal advertising of the project. Three submittals were received.

The low bidder, Midvale Signal, is recommended for this project.

Midvale Signal, Inc, submitted a bid that resulted in the lowest evaluated submittal. Global Contractors, Inc. was determined non-responsible per failure to meet the prior experience required. The table below reflects the amount of the base award.

<u>Respondent</u>	<u>Location</u> <i>(city and state)</i>	<u>Submittal</u> <u>Amount</u>
Midvale Signal, Inc.	Sunnyside, WA	\$892,855.43
Northeast Electric, Inc.	Woodland, WA	\$896,889.00
Global Contractors, Inc.	Eatonville, WA	\$1,269,356.00*

*Non-Responsible

Pre-bid Estimate: \$1,100,000.00
The recommended award is 18.8 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

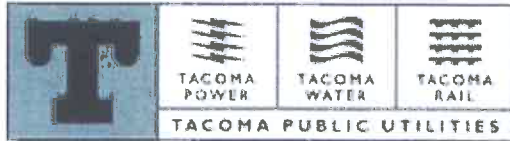
SUSTAINABILITY:

This project will contribute to the enhancement of public safety, the 8-inch flashing lights installed in the signal systems will be LED.

EIC/LEAP COMPLIANCE:

Consistent with TMC 1.07.060 (B-C), Tacoma Rail requests C&A Board approval of a waiver of the Equity In Contracting utilization requirements based on the Best Interests of the City and award to the low bidder Midvale Signal, Inc. Rail staff are making this request, due to the fact that the only bidder to meet the EIC goal requirement does not meet the prior experience requirements for completion of the project.

The EIC requirements for this project are MBE 6%, WBE 3%, and SBE 9%.



The EIC utilization levels of the recommended contractor Midvale Signal, Inc. are MBE 0%, WBE 0%, and SBE 0%, at the time of the bid submittal. The Local Employment and Apprenticeship Training Program (LEAP) requirements are Local Employment Goal of 15%.

Of the three bid submittals received, the third low bidder, Global Contractors, LLC, was the only bidder to list a registered sub-contractor on the Equity In Contracting Utilization Form, included in the Specification documents. During the bid review process it was determined that Global Contractors, LLC, does not have the required relevant experience to properly execute this project per the Pre-Award letter dated 2/23/2021.

The low bidder, Midvale Signal, Inc. wrote 'None @ time of bid' on the EIC Utilization Form in their submittal packet. The base bid submitted by Midvale Signal, Inc. is \$401,500.57 less than the base bid submitted by Global Contractors, LLC.

The second low bidder, Northeast Electric, LLC, marked N/A on the EIC Utilization Form in their submittal packet.

Tacoma Rail staff remains mindful of, and understands the City's Equity In Contracting goal provision. Tacoma Rail staff respectfully requests a waiver of the requirements for this particular project as Rail staff believes this request to be in the best interest of the City.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4500 Tacoma Rail	RAL-00090	5320100	\$892,855.43
TOTAL			\$892,855.43

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
WSDOT Section 130 Grant	RAL-00090	5320100	\$892,855.43
TOTAL			\$892,855.43



FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$ 892,855.43

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

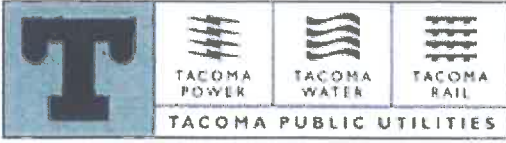
IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED. N/A

**City of Tacoma
Construction Division
Bid Tabulation**

**Description: Marine View Drive Railroad Crossing Upgrades
Specification No.: TR20-0143F
Bid Opening: 2/16/2021**

				ENGINEER'S ESTIMATE		Low Bidder Midvale Signal, Inc.		#2 Bidder Northeast Electric, LLC		#3 Bidder Global Contractors, LLC	
Item	Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	COVID 19 Health and Safety Plan	LS	1.00	1,000.00	\$1,000.00	\$1,200.00	\$1,200.00	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00
2	Project Red Line Drawings	LS	1.00	1,000.00	\$1,000.00	\$500.00	\$500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
3	SPPC Plan	LS	1.00	5,000.00	\$5,000.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
4	Storm Water Pollution Prevention Plan (SWPPP)	LS	1.00	2,000.00	\$2,000.00	\$3,000.00	\$3,000.00	\$500.00	\$500.00	\$1,500.00	\$1,500.00
5	Mobilization	LS	1.00	68,000.00	\$68,000.00	\$25,100.00	\$25,100.00	\$85,000.00	\$85,000.00	\$150,000.00	\$150,000.00
6	Project Temporary Traffic Control	LS	1.00	116,150.00	\$116,150.00	\$72,000.00	\$72,000.00	\$99,000.00	\$99,000.00	\$288,000.00	\$288,000.00
7	Erosion/Water Pollution Control	LS	1.00	5,000.00	\$5,000.00	\$70,130.00	\$70,130.00	\$7,400.00	\$7,400.00	\$12,500.00	\$12,500.00
8	Removal and Replacement of Trench Drain	LS	1.00	8,400.00	\$8,400.00	\$62,398.80	\$62,398.80	\$6,939.00	\$6,939.00	\$18,000.00	\$18,000.00
9	Television Inspection	LS	1.00	4,400.00	\$4,400.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,500.00	\$2,500.00
10	Permanent Signing	LS	1.00	6,900.00	\$6,900.00	\$17,500.00	\$17,500.00	\$7,700.00	\$7,700.00	\$3,000.00	\$3,000.00
11	Removing Plastic Line	LF	870.00	3.00	\$2,610.00	\$4.00	\$3,480.00	\$4.00	\$3,480.00	\$2.00	\$1,740.00
12	Removing Plastic Traffic Markings	EA	4.00	400.00	\$1,600.00	\$775.00	\$3,100.00	\$150.00	\$600.00	\$150.00	\$600.00
13	Remove Existing Pavement, Type III Class C6	SY	55.00	19.00	\$1,045.00	\$101.63	\$5,589.65	\$65.00	\$3,575.00	\$90.00	\$4,950.00
14	Remove Existing Pavement, Type III Class A8	SY	106.00	18.00	\$1,908.00	\$101.63	\$10,772.78	\$65.00	\$6,890.00	\$54.00	\$5,724.00
15	Plastic Stop Line	LF	336.00	18.00	\$6,048.00	\$11.00	\$3,696.00	\$35.00	\$11,760.00	\$7.50	\$2,520.00
16	Plastic Railroad Crossing Symbol	EA	8.00	1,700.00	\$13,600.00	\$775.00	\$6,200.00	\$150.00	\$1,200.00	\$1,500.00	\$12,000.00
17	Project Surveying	LS	1.00	24,150.00	\$24,150.00	\$17,800.00	\$17,800.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00
18	Highway - Rail Grade Crossing Warning System Jones Chemid	LS	1.00	306,854.00	\$306,854.00	\$260,778.21	\$260,778.21	\$299,000.00	\$299,000.00	\$357,604.00	\$357,604.00
19	Highway - Rail Grade Crossing Warning System Pacific NW Te	LS	1.00	311,374.00	\$311,374.00	\$267,364.99	\$267,364.99	\$310,000.00	\$310,000.00	\$367,918.00	\$367,918.00
20	HMA Cl. 1/2 PG 64-22 for Pavement Patch	TN	25.00	322.00	\$8,050.00	\$595.00	\$14,875.00	\$350.00	\$8,750.00	\$300.00	\$7,500.00
21	Crushed Surfacing Top Course	TN	11.00	53.00	\$583.00	\$150.00	\$1,650.00	\$35.00	\$385.00	\$150.00	\$1,650.00
22	Crushed Surfacing Base Course	TN	56.00	77.00	\$4,312.00	\$120.00	\$6,720.00	\$35.00	\$1,960.00	\$150.00	\$8,400.00
23	Cement Conc. Sidewalk	SY	55.00	115.00	\$6,325.00	\$200.00	\$11,000.00	\$150.00	\$8,250.00	\$250.00	\$13,750.00
24	Force Account	EST.	1.00	25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00
Base Bid (Subtotal Items Nos. 1-23)					\$906,309.00		\$867,855.43		\$871,889.00		\$1,269,356.00
GRAND TOTAL (Base Bid and Force Account)					\$931,309.00		\$892,855.43		\$896,889.00		\$1,294,356.00
SBE = No Sales Tax - Force Account					\$906,309.00		\$867,855.43		\$871,889.00		\$1,269,356.00

* Correction made to Bid Item Total and/or Bid Total Amount



RESOLUTION NO.: U-11242
ITEM NO.: 3
MEETING DATE: MARCH 24, 2021

TO: Board of Contracts and Awards
FROM: Dale King, Tacoma Rail Superintendent *Dale King*
Kyle Kellem, Tacoma Rail Roadmaster
COPY: Public Utility Board, Director of Utilities, Board Clerk, EIC Coordinator, LEAP
Coordinator, and Doreen Klaaskate, Finance/Purchasing
SUBJECT: Railroad Signal Maintenance and Inspection
Request for Bid Specification No. TR21-0001F, – March 24, 2021
DATE: March 5, 2021

RECOMMENDATION SUMMARY:

Tacoma Rail recommends a contract be awarded to RailWorks Track Systems Inc, Chehalis, WA, for railroad grade crossing signal system maintenance and inspections, in the amount of \$1,412,780.00, plus applicable taxes, for an initial contract term of two years with the option to renew for two one-year renewal periods, for a projected cumulative contract amount of \$2,825,560.00, plus any applicable taxes.

BACKGROUND:

This contract is for federally mandated railroad grade crossing signal system inspections and maintenance, as prescribed by Title 49 CFR Part 234.

The determination as to which crossings are signalized is typically made by the Washington Utilities and Transportation Commission (WUTC), based on statistical analysis of data using a complex matrix. Historically, crossing-signal system installation costs are covered by federal Section 130 grant funding. However, once a signal system is installed, the railroad has inspection and maintenance responsibility in perpetuity, until such time that the WUTC would approve a formal petition filed by the railroad requesting the removal of an existing grade crossing signal system.

ISSUE: Federal Railroad Administration (FRA) regulations require inspection and maintenance of highway railroad grade crossing signal systems.

ALTERNATIVES: There are no practical alternatives for this contract, as Tacoma Rail does not currently employ staff with the technical expertise necessary to inspect and effectively maintain the grade crossing signal systems, and a substantial investment in training, vehicles, tools, and materials would be necessary in order to internalize this activity.

COMPETITIVE SOLICITATION:

Request for Bids, Specification No. TR21-0001F, was opened February 16, 2021. Four companies were invited to bid in addition to normal advertising of the project. Three submittals were received.

RailWorks Track Systems, Inc. submitted a bid that resulted in the lowest evaluated submittal. The table below reflects the amount of the base award.



<u>Respondent</u>	<u>Location</u>	<u>Submittal Amount</u>
RailWorks Track Systems Inc	Chehalis, WA	\$1,412,780.00
Liberty Electric, LLC	Tacoma, WA	\$1,604,050.00
Elcon Corporation	Everett, WA	\$2,055,187.00

Pre-bid Estimate: \$1,687,412.00

The recommended award is 16.2% percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: This service contract will help ensure ongoing compliance with existing federal regulations and contribute to public safety. All replaced or antiquated materials are routinely recycled.

EIC/LEAP COMPLIANCE: EIC is N/A. The Local Employment and Apprenticeship Training Program (LEAP) requirements are Local Employment Goal of 15%.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4500 Tacoma Rail	592302	5320100	\$2,825,560.00
TOTAL			\$2,825,560.00

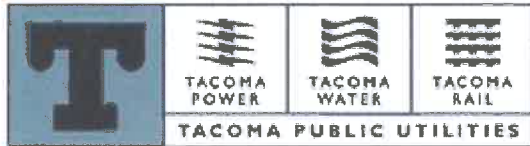
REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4500 Tacoma Rail	592302	5320100	\$2,825,560.00
TOTAL			\$2,825,560.00

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$1,412,780.00

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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



RESOLUTION NO.: U-11242
ITEM NO.: 4
MEETING DATE: 3-24-21

TO: Board of Contracts and Awards
FROM: Tenzin Gyaltzen, Power Section Manager Utility Technology Services
Rick Munson, Power Section Manager Assistant, Utility Technology Services
COPY: Public Utility Board, Director of Utilities, Board Clerk, EIC Coordinator, LEAP
Coordinator, and Seth Hartz, Finance/Purchasing
SUBJECT: Tacoma Water VHF Radio System Equipment, Software, and Services
RFP Specification No. PS17-0256F, Contract No. CW2241884 – March 24, 2021
DATE: March 11, 2021

RECOMMENDATION SUMMARY:

Tacoma Power, Utility Technology Services (UTS) recommends a contract be awarded to Motorola Solutions, Inc., Chicago, IL, for hardware equipment, software and licensing, services and support to upgrade Tacoma Water’s VHF radio system at Headworks in the amount of \$1,226,508 plus applicable taxes, for an initial contract term of two years, plus System Upgrade Agreement and System Maintenance services paid annually for an additional 12 years, for a total of 14 years.

BACKGROUND:

Tacoma Water depends on two-way radio communications for employee safety as well as maintaining and enforcing security across the entire Green River watershed. With this project, UTS intends to leverage the existing transmit and receive sites located at Indian Hill, Grass Mountain, Headworks and Stampede Pass. Headworks will act as the simulcast prime site.

ISSUE: TPU’s Water division relies on a VHF radio system for communication at its Headworks facility and throughout the watershed. This system was implemented over 20 years ago and is end of life and no longer supported by the manufacturer. Tacoma Water must replace the current system to ensure continued reliable communication between Headworks, TPU and personnel working throughout the watershed area.

ALTERNATIVES: Cell phone service is not a viable option due to the topography of the watershed area and cell coverage constraints. Continuing to operate the current end of life radio system without a vendor-supported radio system could expose Tacoma Water staff to unnecessary risk in the event of an extended outage due to a catastrophic hardware or software failure.

COMPETITIVE SOLICITATION:

This new radio system will integrate with the Tacoma Power’s existing digital radio system procured in 2018 through a competitive process described below.

Tacoma Power’s new radio system was purchased under Request for Proposal (RFP) under Specification No. PS17-0256F. Seven companies were invited to bid in addition to normal advertising of the project. Two submittals were received. A selection advisory committee (SAC)



comprised of seven Power and Water staff ranked the proposals using the following categories and weights:

- Qualifications/Experience of Firm and Key Personnel – 15%
- Proposed System – 30%
- Proposed Technology – 20%
- Proposed Approach – 15%
- Fees and Charges – 10%
- Small Business Enterprise (SBE) / Minority and Women’s Business Enterprise (MWBE) Certification – 5%
- Submittal Quality, Organization & Completeness – 5%

The proposal submitted by Motorola Solutions, Inc. ranked the highest by the SAC. In addition, the recommended approach offers the lowest total cost of ownership over 10 years compared to the other RFP responses and the subscriber-based services.

<u>Respondent</u>	<u>Location</u> <i>(city and state)</i>	<u>Score</u>
Motorola Solutions, Inc.	Chicago, IL	51
Day Management Corp.	Milwaukie, OR	42

Pre-bid Estimate in 2018 was: \$4,000,000. This did not include Rail or Water that was later added to the solution.

The recommended award was 134.7% percent above the pre-bid estimate. (The pre-bid estimate covered system hardware and installation costs. It did not include operations and maintenance (O&M) expenses for the expected life of the system which added to the cost.)

CONTRACT HISTORY: This contract was originally awarded to Motorola for Tacoma Power as a result of the above RFP in 2018. Tacoma Rail was later added in 2020 to the solution in the amount of \$366,392 for 15 years under a separate new contract form. The solution now includes Tacoma Water also under a separate new contract form for 14 years in the amount of \$1,226,508.

EIC/LEAP COMPLIANCE: Not applicable.

FISCAL IMPACT:



EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Fund 4600	TBD	Various	\$1,226,508.00
TOTAL			

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Fund 4600	TBD	Various	\$1,226,508.00
TOTAL			

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$ 720,259.00

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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

	Category Weighting	Max Pts	Unweighted Scores		Weighted Scores	
			Motorola	Day Wireless	Motorola	Day Wireless
1. Qualifications	15%	20	10	10	8	8
2. Proposed System	30%	180	98	75	16	13
3. Proposed Technology	20%	220	105	94	10	9
4. Project Approach	15%	70	39	34	8	7
5. Cost	10%	80	40	26	5	3
6. Small Business Enterprise (SBE) / Minority and Women's Business Enterprises (MWBE)	5%	5	0	0	0	0
7. Submittal Quality, Organization, Completeness	5%	5	4	2	4	2
	100%	580	296	241	51	42

Digital Radio RFP

	Motorola	Day Wireless
1. Qualifications	10	10
Experience of Firm		
Describe your firm's experience in implementing P25 of DMR Tier III radio systems. Include work that involves U.S. public agencies	5	5
Key Personnel to be Assigned to this Project		
List key personnel that will manage and work this project including the relevant background and experience of each staff member you propose to assign to this project, including brief biography/resume and indicating which roles each individual will be assigned	5	5
2. Proposed System	98	75
Proposed system design		
Including the frequency band for the proposed system. Provide information regarding approach to securing licenses if necessary. If 700 MHz or 800 MHz licenses cannot be obtained, do you offer a 900 MHz solution.	5	5
Identify all proprietary products proposed in this system.		
Describe operational benefits or capabilities possible by incorporating proprietary technology in your solution.	5	3
Infrastructure		
Does proposed system use existing 6 sites and have proposed site standards been included?	6	3
Are new sites proposed and does proposal include new site standards?	5	1
Backhaul connectivity requirements (Appendix D, Section 2.3, 3.10)	6	5
Provided network requirements for proposed system (Appendix D, Section 3.10)	6	5
Describe proposed site Infrastructure, including, but not limited to; transceivers, base stations, antennas, site controllers, alarms, COTS equipment, site power and please provide DC loading..	7	2
Coverage		
Describe how system meets the 95 % coverage with a 3.4 DAQ.	5	4
Provide coverage maps and disclose if system design is not balanced and why.	5	5
Interoperability		
How will proposed system interoperate with nearby systems? And are any proprietary products required to achieve interoperability?	7	5
System Redundancy		
Describe system resiliency and redundancy.	6	5
Warranty and Maintenance		
Tell us about your included warranty and when it typically takes effect?	5	4
Provide details on your ability to provide a factory employed point-of-contact for infrastructure support and service that is reachable by TPU technicians, and define the contact and escalation process.	5	5
Do you have optional warranty packages, extended warranty packages, or service level agreements?	5	5
Provide details on your recommended spare component methodology, including but not limited to quantity of parts on hand and supplemental support agreements.	5	4

Provide details on your Software Upgrades, Bug fixes and planned releases including, but not limited to; frequency, accessibility, cost (if additional) and potential software upgrade agreements.	5	4
Provide a list and describe necessary equipment for the ongoing preventative maintenance, testing and alignment of all equipment as part of this proposed system.	5	5
Recording		
Provide details of proposed recording interface solution and how it meets requirements. If you are proposing a separate recording solution, how does it benefit TPU?	5	5
3. Proposed Technology	105	94
Benefits of proposed technology and how it meets TPU requirements now, and in the future.	5	5
Mobile and Portable Radios		
Provide details on proposed mobile and portable radios	5	5
Describe how your system manages radio subscriber roaming, including radios from other manufacturers, across the network.	5	2
Describe how roaming behavior may differ between fleets of radios from different manufacturers operating within the system coverage area, or within a simulcast cell.	5	0
Discuss the ability of the proposed radio subscriber units to support automated testing and tuning/alignment. They shall also recommend a communications analyzer that supports Auto-Test and Auto-Tune.	5	5
Provide specification sheets for all proposed subscriber equipment, including peripheral equipment, e.g., portable radio vehicular adapters, chargers, etc.	5	5
Dispatch Consoles		
Provide details on proposed system dispatch consoles (Appendix D, Section 8.1-8.4)	5	5
Provide a comprehensive list of features supported by the proposed dispatch console solution. Include quantities of talk groups that can be created, how many we can see on screen and how many can be patched. (Appendix D, Section 8.3)	5	5
Describe, in detail, proposed back up methodology for dispatch consoles. (Appendix D, Section 8).	5	5
Provide specification sheets for all proposed subscriber equipment, including peripheral equipment, e.g., portable radio vehicular adapters, chargers, etc.	5	5
Control Stations		
Provide details on remotely located Control stations	5	5
Describe, in detail, proposed dispatch product's current compliance and supported functionality of conventional fixed station Interface in digital and analog operations supported between the control centers and remote control base stations.	5	5
Provide the following information on the proposed digital radio system technology:		
Provide details on any other proposed technology.	5	5
Market entry/introduction date of the system infrastructure (RF and network infrastructure), such as FY and Qtr. (e.g., 3rd QTR2015)	5	4
Market entry/introduction date of the subscriber radio equipment	5	5
Market entry/introduction date of the dispatch console equipment	5	4
Categorization of the above product platforms as early, mid, or mature in a typical product life span	5	5
Based upon historical product lifetimes, estimates of the proposed system lifetime and estimated timeframe for discontinuance and loss-of support.	2	2

For proposals that incorporate 3rd party products (e.g., dispatch consoles) the Respondent shall request and include the above information as required.	2	3
Identify all proprietary products proposed in this system. What are the operational benefits or capabilities possible by incorporating proprietary technology in your solution?	5	5
Provide list and describe necessary equipment for the ongoing preventative maintenance, testing and alignment of the proposed system. (Appendix D, Section 8.8)	5	5
Provide the following information on available "Smart Device Apps" available as a purchase option, or through licensed 3rd Party developers; application features, functionality and devices supported	6	4
4. Project Approach	39	34
Detailed Design Process		
Describe approach to the design process and provide estimated timeline.	7	5
Testing & Acceptance		
Describe factory system testing approach	5	5
Describe on site/functionality/pre-cutover testing approach	5	5
Describe acceptance and coverage testing approach to meet TPU requirements.	5	5
Provide details on all equipment needed for testing.	6	5
Cutover approach		
Describe your cutover approach that will allow for least impact on continuous operations, and achieve a zero downtime cutover.	5	4
Training		
Provide manufacturer training curriculum for various roles (e.g., Technician, engineer, system administrator, etc.) and recommended timeline	6	5
5. Cost	40	26
Provide system lifecycle and upgrade costs over 15 years (Appendix D, Section 9.12)	5	2
Provide a lifecycle timeline and estimate of the O&M costs based upon manufacturer recommended hardware and software refreshes over a 15-year operational lifespan. Address the following requirements:	5	3
Identify all lifecycle costs by cost category	5	3
Provide costs for each category based upon the proposed system scope	5	3
Clearly isolate costs for infrastructure vs. subscriber equipment	5	5
Clearly isolate software vs. hardware costs	5	5
Separately list and itemize all services costs	5	0
Provide equipment and software refresh cycle costs	5	5
6. Small Business Enterprise (SBE) / Minority and Women's Business Enterprises (MWBE)	0	0
Indicate whether your firm is a certified City of Tacoma Small Business Enterprise.	0	0
Indicate whether your firm will be partnering with, or subcontracting to, a certified City of Tacoma Small Business Enterprise to complete this scope of work. If yes, provide the full legal name of the SBE.	0	0
Indicate whether your firm is a minority/woman owned firm certified with the Washington State Office of Minority and Women's Business Enterprises.	0	0

Indicate whether your firm will be partnering with, or subcontracting to, a minority/woman owned firm certified with the Washington State Office of Minority and Women's Business Enterprises to complete this scope of work. If yes, provide the full legal name of the MWBE.	0	0
7. Submittal Quality, Organization, Completeness	4	2
Organization and completeness	4	2

		Motorola	Day Wireless
1. Qualifications	15%	10	10
2. Proposed System	30%	98	75
3. Proposed Technology	20%	105	94
4. Project Approach	15%	39	34
5. Cost	10%	40	26
6. Small Business Enterprise (SBE) / Minority and Women's Business Enterprises (MWBE)	5%	0	0
7. Submittal Quality, Organization, Completeness	5%	4	2
		296	241