

**RESOLUTION NO. U-11294** 

A RESOLUTION related to Tacoma Water; authorizing participation in a City of Tacoma, Environmental Services, WW Sewer Replacement South J Street Project.

WHEREAS the City of Tacoma, Tacoma Public Utilities, Water Division ("Tacoma Water") is requesting authorization to participate in the City of Tacoma, Environmental Services Department ("Environmental Services") WW Sewer Replacement South J Project, and

WHEREAS, as part of this Project, Tacoma Water proposes to partner with Environmental Services to reconstruct the existing roadway and replace approximately 2,500 feet of 6-inch to 12-inch potable water main, constructed circa 1890's, along South J Street, between South 7<sup>th</sup> Street and South 13<sup>th</sup> Street, and

WHEREAS the total project cost is \$787,282.41, plus a fifteen percent contingency, for a cumulative total of \$905,374.77, plus applicable taxes, and

WHEREAS the overall project will minimize long-term road maintenance by improving roadway surface with asphalt, upgrade underground utilities, and sidewalks/ADA improvements, and

WHEREAS Tacoma Water believes it is in the best interest of the utility and its customers to include water main work in the partnership with the Environmental Services, to improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to residents, and

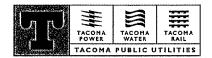


WHEREAS Tacoma Water requests authority to participate in the Environmental Services contract for the above purpose and reasons; Now, Therefore,

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

That Tacoma Water is authorized to participate in the Environmental Services' and Public Works' contract for the WW Sewer Replacement South J Project, in the amount of \$787,282.41, plus a fifteen percent contingency, for a cumulative total of \$905,374.77, 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.

Chair
Onan
Secretary
Adopted



#### **Board Action Memorandum**

го:	Jackie	Flowers	, Directo	r of Utilities
	<b>~</b> 1			

COPY: Charleen Jacobs, Director and Board Offices

FROM: Scott Dewhirst, Utilities Dir Dep. Water Superintendent, Tacoma Water St.

Ali Polda, Principal Engineer, Tacoma Water

MEETING DATE: November 17, 2021
DATE: November 3, 2021

# STRATEGIC DIRECTIVE ALIGNMENT (select as many that apply):

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

☐ SD1 – Equity & Inclusion	☐ SD8 - Telecom
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□ 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 Environmental Services WW Sewer Replacement South J Street Project. Tacoma Water proposes to replace approximately 2,500 feet of 6-inch to 12-inch potable water main. The total project cost is \$787,282.41, plus a 15 percent contingency, for a cumulative total of \$905,374.77, 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 Environmental Services project. Project partnership will improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to residents.

#### **BACKGROUND:**

Tacoma Water is partnering with the Environmental Services to reconstruct the existing roadway and replace approximately 2,500 feet of existing water main, constructed circa 1890's, along South J Street, between South 7<sup>th</sup> Street and South 13<sup>th</sup> Street.

The overall project will minimize long-term road maintenance by improving roadway surface with asphalt, upgrade underground utilities, and sidewalks/ADA improvements.

Project partner contributions are summarized in the attached "Environmental Services – Tacoma Water Agreement for Joint Project."



#### **Board Action Memorandum**

ISSUE: The existing water main in this area is an upwards of 130 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 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

City Manager Action Memorandum

Environmental Services - Tacoma Water Agreement for Joint Project

CONTACT: Ali Polda, Principal Engineer, 253-310-1599

Jessica Knickerbocker, Assistant Division Manager, 253-389-8044

# **ATTACHMENTS**

# **Project Map**



Project Extents – South J Street, from South 7<sup>th</sup> Street to South 13<sup>th</sup> Street



#### City Manager Action Memorandum

TO:

Elizabeth Pauli, City Manager or delegee

FROM:

COPY:

Michael P. Slevin III, P.E., Environmental Services Director

John Burk, P.E., ES Science and Engineering Division Manager

Shannon Wall, P.E., Division Manager, Planning & Engineering, Tacoma Water City Manager, City Council, City Clerk, EIC Coordinator, LEAP Coordinator, and

Steve Hoffman, Project Manager, Ali Polda, P.E., Erik Sloan, Pavement

Manager, and Doreen Klaaskate, Senior Buyer, Finance/Purchasing

SUBJECT:

WW Sewer Replacement South J Street

Request for Bids Specification No. ES21-0547F

DATE:

Today's Date

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

#### RECOMMENDATION SUMMARY:

The Environmental Services, and Tacoma Water Departments recommend a contract be awarded to Pivetta Brothers Construction, Inc., in the amount of \$3,108,836.81 plus a 15 percent contingency, for a cumulative total of \$3,575,162.33 plus applicable taxes, budgeted from various department funds, to replace aging wastewater, surfacewater, and water distribution pipes in the vicinity of J and I Streets from S 13<sup>th</sup> Street to Division Avenue.

#### STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Assure outstanding stewardship of the natural and built environment.

This project will replace aging water distribution pipes, wastewater pipes, and surface water pipes. Roadways impacted by the proposed underground utility replacement work will be restored with permanent asphalt pavement patch. This work supports a safe city with healthy residents, and assures outstanding stewardship of the natural and built environment of this neighborhood.

### BACKGROUND:

Existing underground utilities in this neighborhood have provided many years of reliable essential services and are in need of replacement. These utilities have reached the end of their design life and are at risk of failure.

**ISSUE:** Replacement of existing wastewater pipes, water distribution pipes, and surface water pipes in this neighborhood will reduce the risk of failure that may cause interruptions in essential City services, and represents the lowest life cycle cost solution.



**ALTERNATIVES:** Taking no action and accepting the risk of future pipe failures that will result in unanticipated interruptions to essential City services provided to this neighborhood.

#### COMPETITIVE SOLICITATION:

Request for Bids Specification No.ES21-0547F was opened October 12, 2021. The project was advertised in normal publications. Nine submittals were received.

Respondent	Location	Submittal Amount
Pivetta Brothers	Sumner, WA	\$3,108,836.81
Construction, Inc.		13 8 5 0
Laser Underground &	Snohomish, WA	\$3,157,018.00
Earthworks, Inc.		
R.L. Alia Company	Renton, WA	\$3,340,733.90
Rodarte Construction, Inc.	Auburn, WA	\$3,371,333.50
NW Cascade, Inc.	Puyallup, WA	\$3,406,905.00
Pacific Civil & Infrastructure,	Sumner, WA	\$3,514,081.20
Inc.		
Johansen Construction Co.,	Buckley, WA	\$4,167,457.65
LLC		
Miles Resources, LLC	Tacoma, WA	\$4,899,776.05
Ceccanti, Inc.	Tacoma, WA	\$5,331,494.50

Pre-bid Estimate: \$3,420,411.50

The recommended award is 10 percent below the pre-bid estimate.

#### **CONTRACT HISTORY:** New contract

**SUSTAINABILITY:** Replacement of these pipes will minimize the risk of failure thereby reducing the potential for discharge of untreated wastewater into Puget Sound; resulting in positive environmental impacts.

**EIC/LEAP COMPLIANCE:** The recommended contractor is in compliance with the Equity in Contracting (EIC) Regulation requirements per memorandum dated July 29, 2021. The EIC requirements for this project are 6 percent for Minority Business Enterprise (MBE), 3 percent for Women Business Enterprise (WBE), and 5 percent for Small Business Enterprise (SBE). The EIC utilization levels of the recommended contractor, [insert name of recommended contractor], are 6 percent for MBE, 6 percent for WBE, and 6 percent for SBE. The Local Employment and Apprenticeship Training Program (LEAP) requirements are Local Employment Goal of 15 percent and Apprentice Utilization Goal of 15 percent.



# FISCAL IMPACT:

#### EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	ENV-04024-04-04	5330100	\$2,208,624.78
4301 ES Surface Water Fund	ENV-03032-01-04	5330100	\$461,162.78
4600 Tacoma Water Capital Reserve Fund	WTR-00641-02-03	5330100	\$905,374.77
TOTAL			Up to \$3,575,162.33

#### REVENUES:

301 ES Surface Water Fund 600 Tacoma Water Capital eserve Fund	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	524700	6310010	\$2,208,624.78
4301 ES Surface Water Fund	529700	6310010	\$461,162.78
4600 Tacoma Water Capital Reserve Fund	587501	6311170	\$905,374.77
TOTAL			\$3,575,162.33

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$3,575,162.33, Plus applicable sales tax.

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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

APPROVED

City Manager (or delegee)



Memorandum

DATE:

November 2, 2021

TO:

Jessica Knickerbocker, P.E., Tacoma Water Assistant Division Manager

John Burk, P.E., Environmental Services Division Manager

FROM:

Ali Polda, P. E., Principal Engineer, Planning & Engineering, Tacoma Wa

Steve Hoffman, Senior Environmental Specialist, Environmental Services

SUBJECT:

Environmental Services - Tacoma Water Joint Agreement for

MRP 2021-03 / ES21-0547F

WW Sewer Replacement South J Street s 13th & S 7th and I St. Between S 7th and

Division

Our respective organizations believe a coordinated effort to construct approximately 750 feet of 6-inch to 12-inch stormwater pipe, 4,500 feet of 8-inch to 18-inch sanitary sewer pipe, and 2,500 feet of 4-inch to 12-inch potable water pipe under a single City of Tacoma contract, will result in efficiency and cost savings to all parties. Additionally, a joint project will minimize construction disturbance to adjacent businesses and the general public. The following summarizes the arrangements, assumptions, and action items necessary to move forward with this project:

- The project has been combined into a single Environmental Services construction contract.
   Environmental Services has the responsibility to lead and coordinate the compilation of contract plans and specifications, and to advertise and award the construction contract.
- The Department of Environmental Services will administer the construction contract. Environmental Services will charge Tacoma Water for the additional incremental contract administration time associated with Tacoma Water scope of work. Tacoma Water will compensate the Environmental Services Department in the amount of 3% of the lowest responsible bidder water base bid plus the shared item costs less sales tax. The estimated cost for the Tacoma Water portion of contract administration is \$23,618.47. This amount will be transferred to the Department of Environmental Services via journal entry at the completion of the project. This method is consistent with how construction management and overhead costs were addressed on previous projects.
- Tacoma Water will be responsible for shared project costs as reflected in the Project Breakdown Estimate worksheet (see attached Exhibit). The Tacoma Water portion of the shared cost are based on actual bid pricing and are estimated to be approximately \$127,839.51.
- Tacoma Water will provide the WBSE for charging water main construction costs to the Water Division fund. The Water Division WBSE for this project is as follows:

WTR-00641-02-03 Construction Payments to ES

 Tacoma Water will be responsible for the cost of water distribution main work, valves, hydrants, trench excavation, trench backfill and compaction to subgrade elevation, and other appurtenant items directly related to the installation of new water main. These costs have been segregated within "Schedule D" of the contract bid proposal. Costs for the water distribution main is \$659,442.90.



Memorandum

- Tacoma Water will request authorization from the Public Utility Board to participate in the Environmental Services contract as soon as possible following the determination of the lowest responsible bidder.
- Tacoma Water will be included and fully involved in the initiation, discussion, and review of any addendums, revisions, change orders, or change of scope pertaining to the water main work. Any addendums, revisions, change orders, or change of scope pertaining to the water main scope of work or shared bid items shall be subject to the approval of Tacoma Water.
- Tacoma Water will perform all water main construction staking.
- The Department of Environmental Services will act as the overall contract construction inspection lead. Tacoma Water will be responsible for the daily inspection of the water main construction. Tacoma Water, and Environmental Services inspections will be a cooperative and coordinated effort.

We look forward to continuing our spirit of coordination and cooperation to accomplish this and future projects of mutual benefit to the citizens of Tacoma, the Department of Environmental Services and Tacoma Water. Tacoma Water's total project contribution cost for this project is \$810,900.88, plus applicable taxes and any contingencies. By signature, please indicate your approval to proceed with this joint project.

DocuSigned by:	11/02/2021
Jessica Knickerböcker, P.E.	Date
Tacoma Water Assistant Division Manager	
DocuSigned by:	
John Burk	11/02/2021
John Burk, P.E.	Date
Environmental Services Division Manager	

cc: Geff Yotter, Tacoma Water

File MRP 2021-03

SHARED BY PERCENTAGE - ALL UTILITIES

# Exhibit: Project Breakdown Estimate

emson 2020 09

triadil :	DHI Shiri Marini	Unit	Former Find rath	Unit Price	Amount	70	34	71687	Xii	39	(56.7)	76	13.	7.587	100	58.	Y48.7
R001	Project Redena Droveings	LS	1	\$5.60,00	3550 00	0%	0		13%	71.5		25%	137.5	YES:	62%	341	YES
8003	SPCC Fina	- 13		\$560 de	S550 00	0%	0		13%	71.5		25%	11.7.5	YES	12%	341	YES
R603	Mobilization	(S	_1	1250,800,00	\$250 606.00	0%	- 0		124	32/04		25%	62700	YES	62%	166496	YES
R004	Project Temporary Traffic Control	4,9	1	\$195,000.00	\$195,000,00	0%	- 0		13%	25350		25%	48760	YES	60%	120600	YES
R003	Uniformed Police Officer for Yratific Control	HR	160	\$56,86	\$13,842.00	3%	.0		13%	1799.2		25%	3490	YES	62%	8589 B	YES
R008	Sibmtwater Politicion Prevention Plan (SWPPP)	4.9		32,100.00	\$2,160,00	. 0%	0	-	13%	250.6		25%	540	YES	62%	1979.2	YES
R007	MPDES Construction Stormwist at General Permit	1.5		\$2,100.00	\$2 160 00	0°a	0		13%	280.3		26%	540	YES	72%	1200.2	YES
R003	Eresitor/Water Pollution Central	FA		\$15,007.00	\$15,060.00	- 0°a	0		13%	1950		25%	3750	YES	€2%	9700	YES
E600	Inlet Protesting	EA	-6	\$54,80	\$2,646,00	0%	_0		13%	343.98		25%	981.5	YES	62%	1640.52	YES
R010	Street Cleaning	HR	110	\$135.00	\$10,988.00	0%	0		13%	1403		26%	2700	YES	62%	9636	YES
R011	Rosed Pavement Marker Typo 1Y	5490	1	\$357.00	\$1.718.50	0%	0		13%	222 768		25%	49.8 4	YES	62%	1068 480	YES
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5012	Temporary HMA Class W PGSS/C1, Swindy Milliamore Debth, Installed it Remained	SY		\$46.02	\$15,153,50	-0	\$0.00		1600	818/153/50	- 0			The same		
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S014	Calch Bases Type 1	EA	- 3	\$1,702,08	\$9,306,09	0	90 00		3	83.566.09	0	80.00	YES	0	89-00	
S015	Manhola 46 In Dians Type 7	64	- 2	\$2,985.00	\$8,955,00	9	\$0.70		3	58 958 00	.0	\$0.00	YES	-0	80.00	
S016	Minheld 48 in Dism Type 3	EA		\$2,995.00	58 955 00	0	20.00		3	58 058 NO	0	SG 00	YES	0	16 03	
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5018	Connect New Sterm Server Pipe 12-tn, Oldmi-to Existing Structure	E.J.		\$977.88	87 302 SD	0.	30.00		- 8	\$7,822.50		\$0.00	YES	. 0	SC 20	$\neg$
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S031	Recommed Europa Sewor Fine, 30-to Dam. to New Structure	EA		\$1,144.08	\$5,720,40		\$0.00		5	35 726 40		90 00	YES	0	89.90	$\rightarrow$
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3023	Temporary Storm Sewer Byensa	US .		\$2,700.00	52 700.00	0	20.00		1.	\$2,700.00	0	SD 00	YE 5	- 0	50.00	_
3024	Temporary Storm Sewer Bypans Pinn	LS		\$486,50	\$195.00	0	\$0.00		1	8481 00		80 00	YES		\$6.00	
S025	Underground Utility Potheling	EA		3538,01	\$1.514.03	0	S0 30		3	\$1,674.00	0	\$2.00	YE9	0	\$6.50	
5028	Ducitie from Sierra Sower Plan 13 In Diarn	₹E	520	\$122,77	589.819.60	0	SO 00		520	\$93 819 60	. 0	90 00	YES	0	80.00	
S037	PVC Storm Sener Plan 12 In. Brain.	LF	10	\$150.61	\$6 91 40	- 0	\$6.50		.53	311 024 46	- 5	30.00	YES	0	60.00	$\neg$
S008	Dueble from Sterre Sewer Piers 6 In Diam.	LF	210	173.30	\$15,393.00	0	\$0.00		210	\$15,393.0	0	56.60	VES	0	\$6.00	-
9620	Removal and Replacement of Unsurable Material	CY	250	368.87	314,715.00	- C	30.00	1	290	314 51500	0	20 dG	YES	0	\$0.00	$\rightarrow$
\$980	Landscape Restoration	FA	1	\$1,000.00	\$1,000.00	0	30.00	-	- 100	S1 306 00	0	50.00	YES	0	\$6.76	-
3631	Coment Cone Trains Corb and Gener	LF.		\$73.80	52 920 00	0	S0 00		40	52 300 00	0	93 (5)	YES	0	\$6.70	$\rightarrow$
			100	\$150.00		0		-	60							-
2003	Commercial Cement Cena Alley Drivivials Enfision 3-day	SY	00		\$9,000.00	0	50.00	_		59 006 00	0	\$0 OJ	YES	0	S0 00	_
S003	Cernunt Ganz, Sidetrellk.	SY.	30	\$140.00	\$3,860.00	0	\$0.00		20	92,600,96	0	20 00	YES	0	\$0.00	
VVV00+	Removation Structures and Obstituctions	LS	1	\$58,850.00	\$65,950,00	3	\$0.00		0	\$0.00	0	10.10	YES	1	\$55,980 Xi	
SOOMS	Structuro Excercition Class 8	64	6.940	\$10.15	\$70,441.00	0	\$0.50		0	\$0.00	0	\$5-10	YES	65-10	970,441.00	
NW003	Shoring or Extra Excessorion Crists B	SF	54.380	10.12	26 529 20	0	80.00		- G	50.00	0	\$5.37	153	54350	56 526 60	
V5V004	Removill Existing Pavement, Type II Class C8	37	30	\$67.00	82,010,60	9	50.05		0	95.50	ů	\$3 (iii	YES	36	£2.01/L00	
	Ramovo Existing Parromant, Type II Close C12	SY	20	199.20	\$1,984.00	0	50 Du		0	- \$0.30	0	\$0.00	YES	20	\$1.984.50	_
VVV-000	Renewa Existing Presentant: Type II Class CA	94	3 834		\$146.581.00	0	\$6.00		6	\$0.00	0.00	\$0.00	YES	5530	5140.581 (2)	-
	Ramova Existina Povement, Tago II Class T	97	30	323.76	\$3,000 (4)	0	50.00	_	0	So M	0	\$0.00	YES	in	83 100 00	$\rightarrow$
	Remove Curb and Guillar	LF	110	\$13.10	81 44 90	0	30.00	-	0	S0 (2)	0	80-00				-
			710								-		YES	110	\$1,441,00	-
VW009	Remove Alphrow	EA		\$710.00	\$4 240 60	0	\$3.00		0	\$6.9C	U	50.00	YES	6	\$4,260,00	_
vvveto	Crushipal Surfacing Top Course	TR	20	383.25	\$1,895.00	0	\$0.00		0	60,08	0 -	\$9.50	YES	20	\$1,995.60	
25001T	Recycled Concrete Appregate	O.A.	1 340	\$44.70	\$50 054 00	0	50.00		0	30.00	9	50 EU	YES	12-0	\$59.094.00	
			2 260													
VW012		šY		\$22.25	850 285.00	0	\$5.00	_	0	\$0.70	0	80.00	YES	2200	\$50,009.00	
MWOIG	HMM Ct. 1/2 in. PG 56H-22 for Pavement Petph	TN	650		\$129,202.50	0	S0 0G		0	90 70	0	89.00	YES	850	\$129,202,50	
VVV((14	Rephote 43 in Dism Type I	EA	16	\$3,755.00	\$67,690.00	0	\$3.00		0	S0 D0	0	\$0.50	YES	18	887 589 00	
VVV015	Atarchole 40 In. Diem Type 3	EA		\$4,083.90	54 065.00	0	\$0.00		0	50.00	9	50.00	YES	1	S-4 065 00	
vvv016	Renhole Add tional Height 48 In: Diam. Type 1	LF	77	\$220.00	-53.740.00	0	50.00		- 6	50.00	0	50.00	YES	17	\$3,740.00	$\neg$
VW017	Reconnect Eurolog Sawer Pipo S-In Dram. To New Structure	BA	4	\$1,075.00	\$4,900,00	0	55.00		0	50 00	. 0	\$8.00	YES	6	54 360 60	$\rightarrow$
	Reconnect Emitting Sawar P.pu. 13-In. Dem., To New Structura	EA.	1	\$2,760.00	\$2,740,00	0	\$8.00		0	SC 50	0	80.00	YES		\$2 160 00	$\rightarrow$
979010 979010	Abandon E., stans (Januaria	BA .		\$1,110.00	\$6.445.00		80.00	_	0	50 bil	0	80.30	YES	4	\$6.440.00	-
			-	\$70,500.00				-			0					-
	Tampolicity Westewater Sewer Bypasis	LS			\$70 500 00	0	S9 36	-	0.	50.00		80.00	YES	1	\$70,560,60	_
VVD021	TemperaryVisatewatur Sawar Bypsoti Plan	13		\$350.00	9550 30	- 0	SQ 90		0	30.00	0	\$0.90	YES	1	\$3.50.00	
AJA 955	Underground Utility Politicing	ÉA	3	4559.00	\$2,000,00	0	S6 30		0	50.00	9	50.00	YES	4	50,200 (0	
MOSS	SQR 55 PVC Similary Sever Pipa 8 in. Drivm	LF	30	\$80.00	\$3,400.00	0	39.00		0	50 00	0	20 00	YES	50	50 400 30	
ACCMA?	SOR 05 PVC Sandary Serior Plon 10 In Disea	EF.	1.73-1	\$20.85	\$167 (70 %)	0	96 (to		0	\$0.00	9	30 10	YES	1790	\$157 170 50	
7 17 025	SDR 35 PVD Senting Sewer Pipe 12 In Driam	UF	350	\$101.00	838 386-00	0	SU .G		. 0	50.00	0	\$0 pn	YES	380	\$30,350,00	$\neg$
77/028		UF .	1.460	\$133,75	\$195,275,00	0	50 M		0	50.00	0	80.09	YES	1460	\$116075.00	
7W027	C905 DR 18 PVC Spring Sever Pipe 18 in Clam.	LF.	936	\$230.00	3213 999 00	0	\$0.00		0	\$0.00	0	50 bu	YES	930	\$213,960.00	-
V /V 02/		OA.	5.79	\$39.00	5:72 100 W		50.00		0	80.00		50.00	YES	5750	06 7 00 07	$\rightarrow$
17v1029	SDR 35 PVC Salitan Sever Pipe 61s Dunt	LF	510	\$93,40	97.472.00		50.00	1	0	S0 00	- 6	50 00			\$172,500,00	-
			210					-	-				YES	38	\$7,012,00	_
V1V030		UF	210	\$108.25	\$16,857.50	0	80.00		0	\$0.90	0	30.50	YES	210	\$76,857.50	
VW031	Lactor Type A	C×	16	\$110.00	51 740 00	- 6	S0 W		0	95 5C	- 0	\$0.00	YES	16	\$1.760.05	
WW032	Nuberist Wood Chip Multin	GY	32	\$110.00	\$1,320,65	0	\$0.00		0	36.00	0	\$0.00	YES	12	\$1.120.00	
		SY		\$12,00	\$780 (0)	- 0.	90.00		- 0	30 00	- 0	50.00	YES	65	\$792.00	
177/033	Specied Lawn Installation															

V (V 035							PW			SW		W	11		WW	
	PS Pinus strobus 'Blue Shag / Blue Shag Eastern White Pino: 5 Gat. Cont.	E4		\$540.60	83 240 00	0	80.00		- 5	S0.00	0	\$0.06	YES	6	\$3,240.00	
	PS Berbers thunberg i 'Hamon Polis' Helmand Pillar Berberry 1 Gal. Cont.		- 6	2000												
		EA		\$710.00	9950 00	0	\$0.00		0	80.00	0	50 00	YES	6	\$660.00	-
937	PS Wargeta Ronde Sarred Wise I Salted Wine Wargets, 1 Gat. Cont.	EA	Z <sup>o</sup>	\$118.00	\$2,400,00	0	80.00	-	0:	80.00	0	80 ( G	YES	22	\$2 (00:00	
038	PS Lonizera ciliata Mosa Green Hosa Green Box Leul Honeysucklu. 2 Gal. Cont	EA	12	\$110,00	31 320 00	0	50 00		6	50.00	0	50.30	YES	12	\$1.320.00	
-			- 3											-	31 323 30	$\neg$
039	PS Miscanthus swensin Morning Light? Morning Light Maidin Grass: 2 Girl. Cent.	EA		\$55.00	9165 00	0	\$0.00		0	\$0.96	0	50 CC	YES	3	\$186 00	
000	PS Pennissetuhi orantasa Citta Burnyi Laba Shirinji Chartel Pountain Grasa, 1 Gaz Poni	E0.	dS	W27.00	\$1,323,00	0	5/1.10		0	\$0.00	0					
0.10		E4		\$32,50		0	01.11	-	6		0	80-00	7ES	46	\$1,523,00	_
040	PS Seum Totally Tengerine / Totally Tengerine Avenz, 1 Gell Cord. PS Tenenum enemeding. Was Germander 1 Gell Cord.	EA	26	\$22.00	E2 112 50	0	\$0.00			- 80 90		Sc 50	YES	65	\$2,110,50	_
			13		5616 00		SU 03-	-	0	50.00	0	90 00	YES	25	9814,00	_
	PS Hemerocal is 'Ryby Stelle Ruby Stelle Dayley 1 Gal. Cost.	EA	12	\$44.00		Ð	50.00	-	0	30.00	.0	80 00	YES	12	\$528.70	
rêla :	PS Parangba perfoliate/ Olgga/ s. Speedwall, 1/3at. Cont.	EA	17	844.00	\$748.00	0	\$6.00		G	S0 100	. 0	56 30	YES	17	\$749.66	
	PS Alikum Williamum's Williamum Omersecuti Cirlon; Bulb	EA	75	\$44.06	\$3,360 (0)	0	30.00		6	S0 (\$1		\$6.00	VER	76	\$3.360 00	
	PS kercesus Tata Tutof Teta-a-Tata Datodif Bulb	\$A	75	\$3.2.50	92 437 50	0	20.00		0	50.00	0	St 10	YES	75	62 (37.50	
	Decorative River Reck		2	\$108,80	\$216,00	0	50.06		0	90.00	0	\$0.00	YES	0	\$216.00	_
:0.18	Sakagaa Busud Column	LS		\$0,350,00	\$8 300 10	Ð	50 26		0	50 00	0	S0 00	YES	1	\$8 340 DO	_
(0.49)	Landteape Resitration	FA		\$1,000.00	\$1,000,00	0	80.00		0	50-00	0	\$0.00	YES	1	\$1,000,00	_
658	Coment Core: Trails Curb and Guller	LF.	40	972.35	\$2,864.00	0	10.00		0	50 (0)	0	\$8.00	YES	40	50 894 00	_
35:	Clament Cons. Truific Curb.	LP	20		81,870,90	0	\$6.00		0	59.00	0	80.00	YES	20	E1 370 90	_
	Commercial Corners Conc. Allew Drivewby Entrence, 3-day	Sv	52	\$163.00	87 550 90	0	20.00		-0	50 (N)	0	30.00	YES	80	\$7 858 00	_
	Poured Monument	EA	2	\$1,310,00	\$2 626 00	0	\$0.00		0	50.00	0	S0 30	YES	2		_
	Current Conc. Sidewallt	SY	- 40		\$4 920 00	0	80.30		0	80-00	0	\$6.00	YES	- 20	62 620 00	_
	Sharing or Extra Excevation Chiep 8	SF	13.275		\$1.327.00	0	\$0.00		0	80.00	13270	\$1.327.00		- 42	\$4 929 00	_
	Remova Enging Payament, Type II Class Co	SF S7	30		S1 32 00 80 45 90	0	90 00			\$0.00 \$0.00	13270	91 327 00 9840 90	YES		Se do	_
			4 5%					-	0					0	50.00	_
	Remove Exiting Pevernent Type it Class CA	SY		\$41.10		0	80.06		0	50 00	1880	\$77,360,00	YES	G	50.09	
	Remove Existing Pavement Type it Class T	SY	3.	181 11-501	82 286 00	0	80.00	-	0	SO 00	80	\$2,244,00	YES	. 0	\$6.00	
	Remove Curb and Guttur	EF.	50		\$872.50	0	\$3.30		6	55.00	80	8672.60	YES	- 0	\$5.70	
	Orashed Surboing Top Course	TN	10	\$220.00	52 202 00	0	80 00		9	80.60	10	\$6,500,50	YES	.0	80.00	
007	Regulad Concrete Aggregate	CV	- 680	852.00	536 390 30	0	\$0.00		0	80:00	580	\$35,560,00	YES	0	80.00	=
666	HIIIA CII, 1/2 In. PG 68H/82 for Povement Palish	The	359	\$187.25	SA5 837 60	0	\$0.00		0	99.00	310	\$65.507.80	YES	0	SC 30	_
			910													_
	Famparanj HMA Otisa W PGSSIR2, 3-Inon Minimum Depth, Installed & Removed	\$Y		\$20.30	£18 473 00	0	80 90		6	95.00	916	\$18.473.00	YES	ō	50.00	
610	Underground Uttilby Patholing	EA .	- 7	\$535,00	£3 746 00	0	SJ 00		0	S0 00	7	\$3,745.00	YES	- 0	\$6.00	
770	Trench Compaction Trest instained by the Innonator)	EA.	50	\$108.00	88,490,00	0.	80.30		0	80 70	50	SE 460 00	YES	9	80 00	
/012	Crethed Surfacing Top Course for Trench Backtill	刊	2.6	921 50	857 405 (0)	0	20.00			90.50	2870	\$57,406,00	YES	. 0	50.00	
1015	Trench Excovelion & Evisposial	GY	1.340	9:8:10	804.254.60	0	36 GC		0	\$0.50	1940	\$24,264.00	VES	0	80.00	_
	12-high Dost is fron Pipi. Push-on yord, ANN-AWIVA, C151, Speciel Cists		2.285													
01-1	Thickness No. 52, to Firmsh. Lay and Test	LF.		\$90,75	\$207.362.75	0	50 30		Ü	\$6.50	2286	8207 363 75	YES	0	\$0.00	
915	Sinch Doctile from Pipe, Fastin-On John, ANSVAVIWA, U151, Special Class Thickness No. 52, to Familiah, Lay and Test	LF.	. 95	965.75	\$4 792 75	0	\$0.00		0	\$0.00	85	\$4.732.75	YES	0		
1619	Such Ductin fron Pipe Puch-On Joint, ANSVATVIVA, C151, Special Olice	LP	108	300,73	\$4 7.85 7.5	,	10.00	-	- 4	1010	. 85	54 /32 /5	YES	0	\$0.00	_
016	Thickness No. RE, to Furnish Lay and Test	i.F		860 88	\$3,350.90	0	SR 110		0	- 80 20	128	88 563 59	rES	0	\$0.00	
	New Purchaliton Pipe Posn-On Joint, ANSVAWWA, C151 Special Class		10				-					00 30: 57	120		20 07	_
	Thickness No. 52, fo Furnish, Lep and Test	- 125		\$202,50	82 025 00	0	\$0.00		0	SC CO	10	\$2,025.00	YES	9	36.70	
018	12-nob x 3-inal: Group, 4-B, M J., Installed	E4		\$805,00	\$605.00	0	\$0.00		0	\$0.00		\$995.00	YES	. 0	S0 00	_
8101	12-inch x 8-inch Guzzile fron Tee, 3-B M J, Inscalled	EA.		#500.00	\$500 99	0	90.00		0	\$0.00		\$800 00	YES	2	50.02	_
020	72-meh s, 8-meh Cluenda tibar You, 3-B. 43 J., Installad	88	5	\$435.00	\$2,475,00	0	50.00		0	\$0.00	ġ.	\$0,176.00	YES		30 00	_
G21	12-trich x 4-trich Ductris from Title 3-B M.J., Installed	EA	- 1	\$435,00	3435 00	0	\$0.00		0.	\$0.00		\$425 00	YES	0	S0 8n	_
			- 2	100	0.0070		V. 10		-	77.00		545737	160		50 01	_
020	E-insh x 6-nsh Dust eitren Rieduser, 2-6: M.J., w/ Concrete Anchor Installed	EA		\$128.50	\$253.00	0	50.00		- 0	80 00	- 2	5213 00	9ES	0	86.00	
1023	12-inch Ducklis (ron Ell. iff.J.: 46°, Installed	EA.	- 2	3380.50	\$1 522.00	0	\$0.00		0	30.00	1	\$1.522.00	YES	. 0	90.00	_
1024	S-each Ductive Iron Ell. M.J., 46° Installed	EA		\$176.25	9705.00	0	\$0.00		0	50.00	1	9705.00	YES	0	E0 02	_
025	Skeph Octobia from Ell. #6.1. 45°, Installed	EA.	2	\$121.00	8242.00	0	80 00		0	80.30	2	S2(6) 00	YES	0	SD 70	_
	2-note Ouctive iron Solid Steeve (Long Petiam) M.J. Installed	EA	2	\$350,50	\$701.00	0	30 hg	1	0	\$0.00	2	8701.00	YES	0	50.00	_
	Seach During from Solid Science Rang Pattern (M.J. Installed	E4	-	\$135.50	\$135.50	0	50.00		0	80.00		g112 - 23			50 30	_
	Sends Trees have Court that justs 7-inch engine that analog nature and charges should			6100,00	9137 00	, v	977.		,	30.00		\$136.50	YES	- 0	50 00	_
028	both C.1 to D L. Installed	EA.	· ·	\$285.00	8570-00	0	30 UO		à	se o.		9578 00	VES	0	20.00	
1029	i 2-inch Ducille fron Cap. M.J., Tappad 2-inch, Installed and Removad	EA	- 1	\$229.00	\$450.00	0	50.00		- 0	30.00	2	5,450,00	YES		50.00	-
	S-inch Dutellie hen Coo M.J. Tebeled 2-moh. Inittelled and Removed	EA		#135 co	540K00	0	30.00		0	50.00	3	8454.00	YES	0	1	_
	8-rich Dutche Iron Cap M.J., Tapped 2-rich Installed and Removed	EA	1	597.50	997 SC	0	\$0.00		8	50 50 to re	1	5904150 817 (C)		- 0	59.00	_
	5-Nith Durane from Phys. 47.3., Toppind 2-man, Incomed and Removed	EA	-	\$150.00	S150.00	0	50.05		0	50 00 10 co		837.60	YES	-	90.00	_
	Section Decrease from Play, M.S., Tapping 2 and first led and Removed					0	80 00	1	0	30.00		\$150,06	YES	- 0	80.00	_
		EA		\$78.80	\$78.80			-					YES	0	88 90	_
	Temporary 2-inch Blow-Oil Adamsby, Installed and Removad	EA		\$2,960.00	\$25 °20 X	0	\$6.50	1	G	50 X	7	\$31,720,00	YES	0	30.00	
	12 mch Mesonplical Joint Restraining Client, Installed	EA	30	# [U.O.DO	35 540 90	0	00 00		0	SEE	30	95/1/10:00	YES	0	58 66	
	S-inch Mechanical Joss Restraining Gland Installed	EA	25	\$117.75	82 590 39	ŋ	\$6.00		C	\$0.70	32	S2 590 -00	YES	Ö	\$3-92	
	S-righ Meditarioas Joint Restraining Gland, firstalled	EA	26	\$70.20	81 995 00	0	80.00		6	20.00	28	\$1,946,80	988	- 0	50 (0	
	S-note lifectuational Joint Rentice Into a Grand, Ingentilled	EA	- 4	\$54.00	5219.00	0	S0 00		0	S0 00	4	\$216.00	YES	0	\$0.00	
	6-enh Posti-on Joint Roshin ning Guskot. Instituted	EA	- 4	\$64.80	\$209.00	0	80.10		0	36 ⊅0 —	- 1	\$297.00	YES	0	90.00	_
PORIO I	Consetts Thrust Anchor Implalles	EA	13	9430-00	\$6.590.00	0	00 02		0	\$0.50	13	95 Slice 30	YES	. 0	50.00	_
010																

						PW		SW		W			WW	
MAL PROPERTY	Course Provide Archive Astronomy Revisual .	400	9000	III /35,00	0	\$1.65	- 0	50 UC	- 1	88 74 L 00	YES	0	90.00	YES
mad Wante	sely view (62 / RESIDENTED, 2019, with CE THAN SHI.	64	\$ \$21,000.00kg	J19.215.00	0	80.00	0	00.00	9	819,215110	YES	0	Sc 40	YES
1993 BAND SNR	Value Bull American August the Mile San Collaboration	- E4	B1,715.18	96,365,00	0	\$5.00	0	Se on		85 285 00	Ves	0	50.00	1/85
was Percent	man Mul, manufact, Craw M. et Come do:	64	19 t,5016,000	ER 515 20	0	\$6.50	0	50 On	- 5	56.576.10	VEB	0	50.00	YES
	rinday, Irius, articular are, Callerin E. octi C.A. repla from	, EA	19 Bit 1985 188	W1 150 90	.0	BUIDS	0	60.00	1	\$1.180.00	YES	. 10	\$0.00	YES
Germania Gele Com	and E.Z., 4 E. San, with 4 and Tombrid Shorters Preside a Forest	SA	GE TRANS	919.323.00	0	\$0.00	0	\$1.00	4	\$10 320.00	Yes		\$6.00	MES
MOVE FROM David	they and hipsy flower flowers and	. 5%	\$17,1800.00m	ER 900 00	0	50 %	- 0	\$0.00	- 5	61.500.00	YES	- 0	90.00	YES
VESSE Earlings	Palmer	.7%	20,700.00	18,100 00	0	96 GO	0	\$0.00	1	\$5,000.00	1988	0	\$9.69	YES
mosy Denember	no Traffy Outside Sutur	D	(4) SE206	\$0.182.59	8	80.00	0	80 %	50	88 660 50	V2.5	5	10.00	125
Bridge French Star	hunest.	- 35	317600	£01.2×0.00	0	86.00	0	St0 (20)	3	52 240.00	YES	0	\$0.00	YEE
19/051 Cerrent Cor	ne. Sittematis.	97	TO STATE OF THE PERSON NAMED IN	B8 721 50	0	\$0.56	0	50 BC	30	33 721 80	YES	-4	90.00	YES
TOTAL FORW PROTE	ial	400	1 Scrowen	JS0-109-20	0	50 CU	0	30.00	- 1	\$20 000 00	YES	2	30.0	YES
		160	20.0	\$0.00	0	80.10	0	\$3.00	0	60.00	Yes	0	50 to 0	YES
		20	2010	80-30	- 0	50 00	0	83.00	0	90.00	YES	.0	80.00	YES
		SHO	200	90.00	0	\$0.00	0	89.07	6	90.00	VES	0	\$0.00	YES
		AC DE	1 39.04	30 00	0	S0 C0	0	88 99	0	S0 50	168	0	80 Dc	VES
			Ear perco trail	11636,731.90		30,09		\$334,534,55		\$959,442.90			\$1,603,504.30	

WATER ITEMS MOIT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS										W					
item £	Bid Story Warras	tanit -	Total Proj Chy	State Prison	Amount		Acta femiliated with subspay should exhabit	1		SITY	73	Yam?			13
		700		00.00	30.00		any insert that would normally be light up by .			0.0	80 85	YES	U Same	2000	
		700	1 9	20.0	90.00		percentige but that make characters to pay			0.00	85 35	YES			100
		16.0	- 3	20.0	80.00	10000	Inguistrate in their own schedule. These may		1000	0.09	50 00	YES			
		AC.		25.04	80 00	10000	-midule metallianies and josffic limited, for			0.00	50.00	1956			1
2		- 94	1 3	80.08	30 AG			1000	100	0.00	36.30	YES	The second	Name and Address of the Owner, where	
				- Blacketrotskii	061.50						. \$0.00		2000		-

HEMS CALCULANTE BY PERCENTAGE PW 5W ww \$317.041.99 SHARED BY PERCENTAGE ALL SHARED BY PERCENTAGE, EADL JOING MATER \$9.00 \$0.00 \$66 476 55 \$0 00 \$127,839.51

FEMALCIAL ARED BY QUANTITY

SHARED BY DURNITH AND HON SHARED MEWS INDUCTOR IN PERDENT PARTNERSHIP CAUDULATIONS WATER DOOR NOT WOULDED IN PERDENT PARTNERSHIP CAUDULATIONS

80 00 \$334 534 56 %659 442 90 \$0 00 \$1 803 501 30

\$8.00

\$401,017.11

\$787,282.41

\$1,920,548.29

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Participation Calculations for these that include all Itelities.

Patternalise
Statements

Water

Water

Water

Water 12.31 0% 122-55-55 25 135-41.51 255 1.52-51 31 07%

TOTAL KOSTANIA SULDA

Photowed Platficipation Calcubation for Herm that Each of White Public Victor Science Stormatte
Stormatte ET X PA

TOTAL BIGGS 25151 MODEL

TOTAL

Total Storm Bid Protect from Storios from India Vision system 

#### Sales Tax Calculation

Safes Tax Rate	10.30%
Total Taxable Public Works Hems	\$0.00
Total Tax - Public Works	\$0.00
Total Taxable Stomwater Items	\$0.00
Total Tax - Stonmwater	\$0.00
Total Taxable Water items	\$767,282 41
Total Tax - Water	\$81,090.09
Total Taxable Wastewater Items	\$1,920,543.29
Total Tax - Wastewater	\$197,815.96
Total Sales Tax	\$278,906.05

General Practice for Sales Tax:

Wastewater & Water surface restoration items are non-teachle ONLY in areas where there is a pertnership with Public Works to also build rownways or where ES is building roadways (pervious projects).

Wastewater and Water surface instruction items are teachle if this project with not build a roadway regulates of whether it is a pertnership project (in, only replacing Cs.C., add walk, threeways, twicerroadway patching, etc.) With counting on privace property not in sight-devely it interest regardless of which utility pays for the worl!

Items in the Roadway Schedule that are not roadway related items (such as mobilization. SPCC Plan; Project Red Lines, etc.) ARE (axable for Wastewater and Water utilities.)