

# **RESOLUTION NO. U-11456**

A RESOLUTION related to Tacoma Water; authorizing the participation in the 1 City of Tacoma, Department of Public Works, E. 64th St. Phase 2 Project, to replace water mains. 2 3 WHEREAS the City of Tacoma, Department of Public Utilities, Water 4 Division (d/b/a"Tacoma Water") requests authorization to participate in the City 5 of Tacoma, Department of Public Works, E. 64th St. Phase 2 Project (the 6 "Project"), and 7 WHEREAS the 2018 Water System Plan conducted computer modeling 8 9 to identify areas in Tacoma Water's service area where existing customers may 10 be experiencing low water pressures, and 11 WHEREAS modeling forecasts through the year 2037, under a peak 12 water demand scenario, predict that some customers along East 64<sup>th</sup> Street 13 may experience water pressures below 30 pounds per square inch ("psi"), and 14 15 WHEREAS field investigations and historic customer complaints also 16 independently confirm lower water pressures in the area, and 17 WHEREAS Washington State code requires a minimum water pressure 18 of 30 psi to be maintained at the water meter under peak water demands, and 19 WHEREAS the Tacoma Water Customer Service Policy recommends a 20 21 minimum of 45 psi pressure, and 22 WHEREAS Tacoma Water will be taking a proactive action in extending 23 the proposed water main to a higher-pressure zone that will satisfy the 24 minimum pressure requirement of the Washington State code and Tacoma 25 Water Customer Service Policy, and 26

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

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

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

8 WHEREAS Tacoma Water believes it is in the best interest of the utility
 9 and its customers to include the water main work in the Public Works Project as
 11 it will improve project delivery, reduce project costs, improve system reliability,
 12 and consolidate construction disturbance to residents and businesses, Now,
 13 therefore,

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

That Tacoma Water is authorized to participate in the Public Works E. 16 64<sup>th</sup> St. Phase 2 Project, to install approximately 1,600 feet of 8-inch water main 17 and replace 16" water valves along E. 64<sup>th</sup> St., between McKinley Ave. and E. 18 19 Portland Ave., in the amount of \$801,429.89, plus a 15 percent contingency, for 20 a cumulative total of \$921,644.37, plus applicable taxes and the proper officers 21 of the City are authorized to execute on behalf of Tacoma Water any necessary 22 or convenient agreements for such project provided such agreements final 23 forms are approved by the City Attorney's Office. 24

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	Approved as to form:		
1	Is/	Chair	
2	Chief Deputy City Attorney	Secretary	
3		Adopted	
4	Clerk		
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	2024\Resolutions\Water\U-11456 E. 64 <sup>th</sup> St. Phase 2 Project	3	U-11456





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

# **GUIDING PRINCIPLE ALIGNMENT (select as many that apply):**

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

GP1- Diveristy, Equity, Inclusion, BelongingGP8 - TelecomGP2- Financial SustainabilityGP9- Economic DevelopmentGP3 - RatesGP10 - Government RelationsGP4 - Stakeholder EngagementGP12- Employee RelationsGP5 - Environmental SustainabilityGP13- Customer ServiceGP6 - InnovationGP14- Resource PlanningGP7- Reliability & ResiliencyGP14- Resource Planning

# SUMMARY:

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

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

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

# BACKGROUND:

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

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



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

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

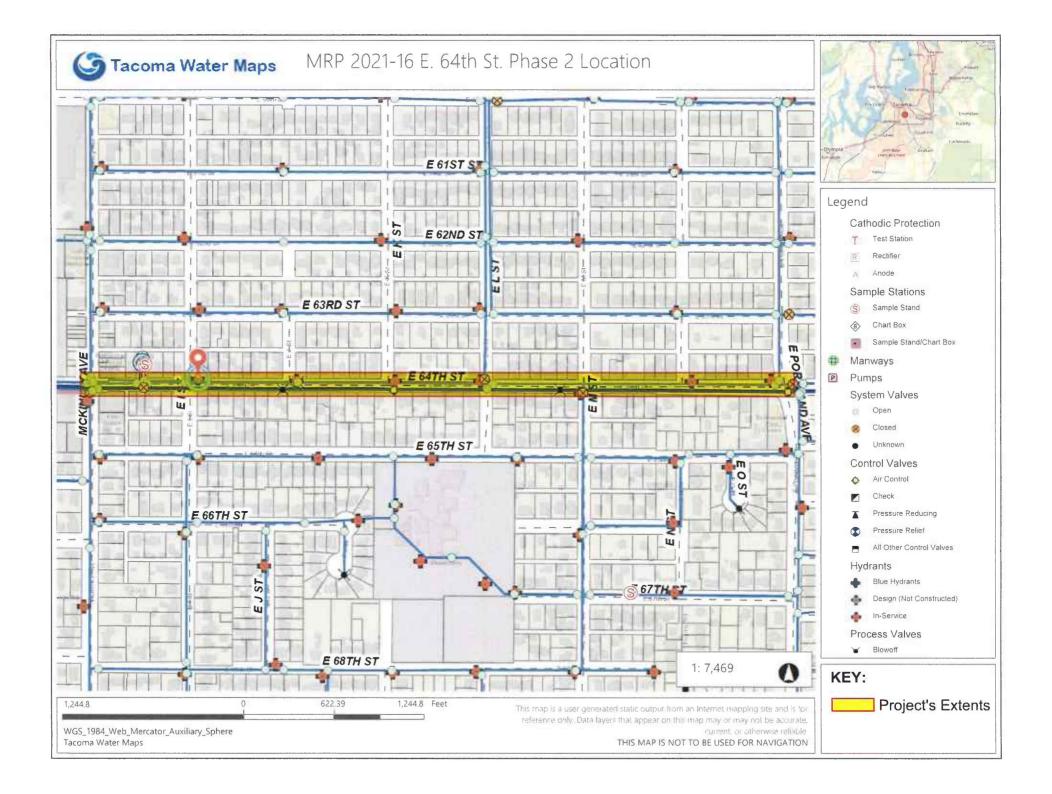
ALTERNATIVES: Not increasing the water pressure within project limits may not satisfy minimum water pressure State code and Tacoma Water customer service policy.

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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

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

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





**Resolution No.:** 

Meeting Date: May 7, 2024

City of Tacoma

Contract and Award Letter Purchase Resolution —Exhibit "A"

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TO: FROM:	Board of Contracts and Awards Ramiro A. Chavez, P.E. PgMP, Public Works Director/City Engineer
	Michael P. Slevin III, P.E., Environmental Services Director
	Jessica Knickerbocker, P.E., Planning & Engineering Manager, Tacoma Water
	Chris Storey, Principal Engineer, Public Works Engineering
COPY:	City Council, City Manager, City Clerk, EIC Coordinator, LEAP Coordinator, and
	Carly Fowler, Senior Buyer, Finance/Purchasing
SUBJECT:	East 64th Street Phase II, McKinley to Portland
	Request for Bids Specification No. PW23-0036F, Contract No. CW2265073 -
	May 7, 2024 City Council
DATE:	April 4, 2024

# RECOMMENDATION SUMMARY:

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

## STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Ensure all Tacoma residents are valued and have access to resources to meet their needs.

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

## BACKGROUND:

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

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

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



City of Tacoma

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

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

Respondent (RFB)

**R.L. Alia Company** Northwest Cascade, Inc. Ceccanti, Inc. Active Construction, Inc. Titan Earthwork, LLC <u>Location</u> (city and state) **Renton, WA** Puyallup, WA Tacoma, WA Puyallup, WA Pacific, WA Submittal Amount

**\$6,689,184.65** \$6,884,515.00 \$7,025,065.34 \$7,750,750.00 \$8,165,280.00

Pre-bid Estimate: \$7,546,681.00 The recommended award is 11.4 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

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

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

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



# FISCAL IMPACT:

## EXPENDITURES:

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

## **REVENUES:**

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

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

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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



TO:	Jack Niehuser, P.E., Division Manager, Public Works Engineering
	Terry Forslund, P.E., Assistant Division Manager, Planning & Engineering, Tacoma Water
FROM:	Chris Storey, P.E., Public Works Engineering Division
	Troy Saghafi, P.E., Professional Engineer, Planning & Engineering, Tacoma Water
SUBJECT:	Secondary Agreement for Joint Project PW-TW for E. 64 <sup>th</sup> St. Phase 2 project PW23- 0036F/ MRP 2021-16
DATE:	April 8, 2024

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

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

1. The project is located along E. 64<sup>th</sup> St., between E. McKinley Ave. and E. Portland Ave.

Water infrastructure improvements include installing new 8-inch water main and associated appurtenances along the project extents.

- 2. The project has been combined into a single construction contract administered by Public Works. Public Works Department has the responsibility to lead and coordinate the compilation of contract plans & specifications and advertise & award the construction contract. The project was advertised, and bids opened on 3/5/2024, R.L. Alia Co. is the low bidder.
- 3. Tacoma Water will be responsible for the cost of water distribution main work, valves, hydrants, trench excavation, trench backfill and compaction to subgrade elevation, mobilization, traffic control, and other appurtenant items directly related to the installation of new water main. Costs for these items are in "Schedule 3" of the contract bid proposal. The estimated cost of "Schedule 3", including force account is \$773,704.60, plus taxes.
- 4. Tacoma Water will be responsible for selected Roadway bid items in Schedule 1, as noted in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water's portion of the shared cost is based on the proportion of costs combined in Schedule 3 relative to the total project costs, based on the contractors bid pricing. The proportional amount of costs to be shared by Water is 12.01% of items R4, R63, R64, & R65. The total shared cost of Tacoma Water's responsibility from Schedule 1 of the Roadway bid items is \$6,130.25 The quantities on the Project Breakdown Estimate worksheet are contractor bid prices, the Departmental actual bid quantities and costs will be separated by the same percentage as the per bid item estimate reflected on the Project Breakdown Estimate worksheet.
- 5. The Department of Public Works will administer the construction contract and provide construction management (contract administration and construction inspection assistance). Tacoma Water will pay the Public Works Department contract administration fees associated with Tacoma Water's scope of work. Tacoma Water will compensate the Public Works Department in the amount of 3% of the combined costs noted in paragraphs 3 and 4 above less force account of \$60,000 (\$779,834.85 \$60,000.00). The estimated cost for the Tacoma Water portion of



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

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

We look forward to continuing our spirit of coordination and cooperation to accomplish this and future projects of mutual benefit to the citizens of Tacoma, the Department of Public Works, and Tacoma Water. Tacoma Water's water-related project construction costs is \$779,834.85 plus a contract administration cost of \$21,595.05 for a cumulative total of \$801,429.89 plus applicable taxes and contingencies. Payment by Tacoma Water will be made for the actual quantities and costs incurred during project closeout. By signature, please indicate your approval to proceed with this joint project.

DocuSigned by: Ford 4

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

04/08/2024

Date

Jack Neluser Jack Neluser Jack Aliehbager, P.E. Division Manager, Public Works

04/08/2024

Date

Attachment: Exhibit-A Project Breakdown Estimate

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

## Exhibit A-Project Breakdown Estimate

#### MRP 2021-16 E. 64th Phase 2

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

					IEER'S MATE		esources, LLC	Wa	ters Responsibility
Item	Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	(%)	Amount
	ule 1 Roadway Itoms								1
R1 R2	Minor Change Roadway Surveying	LS EST	1 00	\$75,000 00 \$110,000 00	\$75,000 00 \$110,000 00	\$75,000 00 \$88,000 00	\$75,000.00 \$88,000.00		
R3	Project Redline Drawings	LS	1.00	\$3 000.00	\$3,000.00	\$1,000.00	\$1.000.00		
R4	SPCC Plan	LS	1,00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	12%	\$ 115.
R5 R6	Mobilization Uniformed Police Officer for Traffic Control	LS	1.00	\$685,000.00	\$685,000.00	\$550,000.00	\$550,000.00		
R7	Pedestrian Traffic Control	HR LS	60 00	\$125.00 \$65,000.00	\$7,500.00 \$65,000.00	\$140.00 \$30.000.00	\$8,400.00 \$30,000.00		
R8	Project Temporary Traffic Control	LS	1 00	\$375,000.00	\$375,000.00	\$192,000.00	\$192,000.00		
R9	Certified Arborist	LS	1 00	\$2,500.00	\$2,500.00	\$4,000 00	\$4,000 00		
R10	Certified Arborist Assessment Report Compliance Clearing and Grubbing	FA LS	1.00	\$5,000.00 \$85,000.00	\$5 000 00 \$85,000 00	\$5,000 00	\$5,000.00		
R12	Test Hole	LS	200.00	\$160.00	\$32,000 00	\$15,000 00 \$250 00	\$15,000,00 \$50,000,00		
313	Removal of Structures and Obstructions	LS	1 00	\$28,000.00	\$28,000.00	\$25,000 00	\$25,000.00		
R14	Roadway Excavation Incl. Haul	CY	6,339.00	\$44.00	\$278,916.00	\$73.00	\$462,747.00		
R15 R18	Embankment Compaction Subgrade Maintenance and Protection	LS	240.00	\$28.00 \$15,000.00	\$6,720.00 \$15,000.00	\$1 00 \$10,250 00	\$240.00 \$10.250.00		
R17	Subgrade Protection Plan	LS	1.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00		
218	Structure Excavation Class A Incl. Haul	CY	470 00	\$38.00	\$17,860.00	\$65.00	\$30,550.00		
R19 R20	Shoring or Extra Excavation Class A Structure Excavation Class B	LS	1 00	\$10 000 00	\$10,000.00	\$2 500 00	\$2,500.00		
R21	Shoring or Extra Excavation Class B	CY SF	809 00 5,202 00	\$30.00 \$2.00	\$24,270 00 \$10,404 00	\$28 00 \$0.50	\$22,652.00 \$2,601.00		
122	Construction Geolextile for Soil Stabilization	SY	10,250 00	\$5.50	\$56,375.00	\$6.00	\$61,500.00		
23	Remove Existing Pavement, Type I, Class A2	SY	315.00	\$11.00	\$3,465.00	\$7 25	\$2,283 75		
224	Remove Existing Pavement, Type I, Class A4	SY	13,020 00	\$15.00	\$195,300.00	\$7 25	\$94,395.00		
126	Remove Existing Pavement, Type I, Class C6 Remove Existing Stairs	SY	3,025 00 230.00	\$20.00 \$35.00	\$60,500 00 \$8,050 00	\$5.00 \$19.00	\$15,125.00 \$4,370.00		
27	Remove Curb	LF	1.675.00	\$10.00	\$16,750.00	\$5 00	\$8,375.00		
28	Remove Catch Basin	EA	14 00	\$500.00	\$7,000.00	\$800.00	\$8,400.00		
29	Remove Manhole	EA	2 00	\$1,500.00	\$3,000 00	\$1.000.00	\$2,000.00		
30 31	Crushed Surfacing Top Course Crushed Surfacing Base Course	TN TN	335 00 4,410 00	\$50.00 \$50.00	\$18,750.00 \$220,500.00	\$80.00 \$53.00	\$26,800.00 \$233,730.00		
32	Asphalt Treated Base	TN	2,040 00	\$110.00	\$220,500.00	\$100.00	\$233,730.00		
33	Planing Bituminous Pavement	SY	825.00	\$7 50	\$6 187 50	\$9.00	\$7,425.00		
34	HMA CL 3/8" PG 58H-22	TN	325 00	\$175.00	\$56,875.00	\$185.00	\$60,125.00		
35 36	HMA for Approach CL 1/2" PG 58H-22 Fiber Reinforced HMA CL 1/2" PG 58H-22	SY	220 00	\$80.00	\$17,600.00	\$25.00	\$5,500.00		
30	Temporary Pavement Patch	TN	2,800.00	\$135.00 \$225.00	\$378,000 00 \$67,500 00	\$120 00 \$100 00	\$336.000.00 \$30,000.00		
38	Adjust Existing Manhole Furnish New Frame and Cover	EA	10 00	\$1,800.00	\$16,000.00	\$1,000.00	\$10 000 00		
39	Adjust Existing Valve Chamber to Grade	EA	23 00	\$750 00	\$17 250 00	\$800.00	\$18,400.00		
40	Adjust lo Grade	EA	5 00	\$850.00	\$4,250.00	\$1,500.00	\$7,500.00		
41	Catch Basin Type 1 Catch Basin Type 2, 48 In Diam.	EA	22 00	\$2,000 00 \$5,000 00	\$44,000.00 \$10,000.00	\$2 200.00	\$48,400.00 \$11,000.00		
43	Manhole 48 In Diam Type 1	EA	1 00	\$5,000.00	\$5,000.00	\$7,400.00	\$7,400.00		
44	Manhole 60 In Diam Type 1	EA	2 00	\$6,500.00	\$13,000 00	\$11,000.00	\$22,000.00		
45	Manhole Additional Height 60 In. Diam. Type 1	LF	3 00	\$350.00	\$1,050.00	\$200.00	\$600.00		
46	Reconnect Existing Sewer Pipe, 4-In. Diam., to New Structure Reconnect Existing Sewer Pipe 8-In Diam., to New Structure	EA .	1 00 2 00	\$1.500.00	\$1,500.00	\$1,000.00	\$1,000.00		
48	Reconnect Existing Sever Pipe 12-In. Diam , to New Structure	EA EA	1.00	\$1,500.00 \$1,500.00	\$3,000 00 \$1,500 00	\$1,250.00 \$2,400.00	\$2,500 00 \$2,400 00		
49	Reconnect Existing Sewer Pipe, 18-In Diam., to New Structure	EA	2.00	\$1,500.00	\$3,000 00	\$3,500.00	\$7,000 00		
50	Reconnect Existing Sewer Pipe, 21-In. Diam , to New Structure	EA	2 00	\$1,500.00	\$3,000 00	\$3,800.00	\$7,600.00		
51 52	Connect New Sewer Pipe, 12-In Diam., to Existing Structure CDF for Pipe Abandonment	EA	8 00 3 00	\$1,500.00 \$550.00	\$12,000.00	\$2,000.00	\$16,000.00		
53	Temporary Slorm Sewer Bypass	LS	1.00	\$2,000.00	\$1,650.00 \$2,000.00	\$400.00	\$1,200.00 \$1,500.00		
54	Temporary Storm Sewer Bypass plan	LS	1 00	\$500.00	\$500.00	\$2,500.00	\$2,500.00		
55	Removal and Replacement of Unsuitable Material	CY	563 00	\$70.00	\$39,410.00	\$38.00	\$21,394.00		
56 57	Ductile Iron Sewer Pipe 12 In Diam Ductile Iron Sewer Pipe 4 In Diam.	LF LF	365 00	\$175.00	\$63 875 00	\$142.00	\$51,830.00		
58	Ductile Iron Sewer Pipe 6 In Diam.	LF	10 00	\$115.00 \$125.00	\$1,150.00 \$2,500.00	\$100.00 \$100.00	\$1,000.00 \$2,000.00		
59	PVC Storm Sewer Pipe 12 In Diam	LF	759 00	\$115.00	\$87,285 00	\$100.00	\$75,900 00		
60	Testing Sewer Pipe	LF	1 154 00	\$5.00	\$5,770.00	\$9.00	\$10,386.00		
81 32	Residential Storm Drain Under Sidewalk Trench Drain 6 In Wide	LF	1,970.00	\$45.00	\$88,650.00	\$9.00	\$17 730.00		
82 83	Erosion/Water Pollution Control	LF LS	94 00	\$105.00 \$32,000.00	\$9,870.00 \$32,000.00	\$250.00 \$50,000.00	\$23,500.00 \$50,000.00	12%	\$ 5,783.
B4	Stormwater Pollution Prevention Plan (SWPPP)	LS	1.00	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	12%	
85	NPDES Construction Stormwater General Permit	LS	1.00	\$ 1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	12%	
86 87	Seeded Lawn Installation	SY	211.00	S6 00	\$1,266.00	\$3.30	\$698.30		
	PSIPE Juniperus Virginiana/Eastern Red Cedar. 6'-7' Ht PSIPE Tsuga Mertensiana/Mountain Hemlock, 6'-7' Ht.	EA EA	8 00	\$750.00 \$750.00	\$6,000.00 \$9,000.00	\$350.00	\$2 800 00 \$4,200 00		
	PSIPE Zeikova Serrata 'Wireless'/Zeikova (Dwarf), 2" Cal	EA	12.00	\$750.00	\$9,000.00	\$475.00	\$5,700.00		
70	PSIPE Parraotia Persica/Persian Ironwood, 2" Cal	EA	16 00	\$750,00	\$12,000.00	\$475.00	\$7,600.00	-	
71	PS/PE Prunus Virginiana/Canada Red Chokecherry, 2" Cal.	EA	6 00	\$750.00	\$4,500.00	\$475.00	\$2,850.00		
72	PSIPE Pinus Parviflora/Japanese White Pine, 6'-7' Ht PSIPE Ulmus Americana/American Elm, 2' Cal,	EA EA	10.00	\$750.00	\$7,500.00 \$1,500.00	\$400.00 \$600.00	\$4,000,00 \$1,200,00		
74	PSIPE Cedrus Deodora/Deodore Cedar, 6'-7' ht.	EA	4 00	\$750.00	\$3,000.00	\$400.00	\$1,600.00		
75	PSIPE Festuca Glauca Elijah Blue/Elijah Blue Fescue, 1 Gal.	EA	3,864.00	\$12.00	\$46,368_00	\$19.00	\$73,416,00		
76	PSIPE Bouteloua Gracilis 'Blonde Ambition'/Blonde Ambition Blue Grama Grass 1 Gal	EA	750 00	\$15.00	\$11.250.000	\$22.00	\$17.050.00		
77	PSIPE Bouleioua Gracilis Bionde Amolition /Bionde Amolition Blue Grama Grass, 1 Gal.	EA	750 00	\$15.00	\$11,250.00 \$11,250.00	\$23.00 \$18.50	\$17,250.00 \$13,875.00		
	PSIPE Heliclotrichon Sempervirens 'Saphirsprudel'/Sapphire Fountain Blue Oat Grass, 1				10				
78 79	Gal. PSIPE Sanlolina Chamaecyparissus/Lavender Cotlon, 1 Gal	EA	750 00	\$15.00	\$11,250.00	\$18.50	\$13,875,00		
90	Topsoil Type A	EA CY	677 00 425 00	\$15.00 \$55.00	\$10,155.00 \$23,375.00	\$18 50 \$75 00	\$12,524.50 \$31,875.00		
11	Bark or Wood Chip Mulch	CY	275.00	\$60.00	\$16,500.00	\$75.00	\$20,625.00	_	
32	Root Barrier	LF	1,900 00	S9 00	\$17,100.00	\$14.00	\$26,600.00		
	Site Restoration	LS	1.00	\$25,000.00	\$25,000.00	\$15,000.00	\$15,000.00		
34 35	Cement Conc. Traffic Curb and Gutlar Cement Conc. Pedestrian Curb	LF	6,870.00 1,590 D0	\$35.00 \$30.00	\$240,450 00 \$47,700 00	\$24 00 \$35 00	\$164,880.00 \$55,650.00		
36	Cement Conc. Valley Gutter	LF	970 00	\$40.00	\$38,800.00	\$35.00	\$24,250.00		
37	Cement Conc. Driveway Enfrance	SY	2.078 00	\$85.00	\$176,630.00	\$67.00	\$139,226.00		
88	Raised Pavement Marker Type 2	HUN	2.00	\$450.00	\$900.00	\$810.00	\$1,620.00		
89	Cedar Fence, 4 Foot Height	LF	492.00	\$90.00	\$44,280.00	\$55.00	\$27,060.00		
90	Cedar Fence, 6 Fool Height Chain Link Fence, Type 1	LF	714 00	\$95.00 \$45.00	\$67,830.00 \$5,850.00	\$60.00 \$120.00	\$42,840.00		
91			130 00	343 00	30,000,00	\$120 UU	\$15,600.00		

## Exhibit A-Project Breakdown Estimate

#### MRP 2021-16 E. 64th Phase 2

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

Bid Op	xening: 3/5/2024			ENGI	VEER'S	L	ow Bidder	Wa	ters Responsibility
	1				MATE	Milos F	lesources, LLC		
ltem	Description	-	Quantity	Unit Price	Amount	Unit Price	Amount	(%)	Amount
R93 R94	Chain Link Fence, 7 Foot Height	LF	150.00	\$50.00	\$7,500.00	\$75.00	\$11,250.00		
R95	Privacy Slats, White Temporary Security Fence	EA EA	150 00	\$12 00 \$350 00	\$1,800 00 \$4,200 00	\$15.00 \$500.00	\$2 250 00 \$6,000 00	-	
R96	Poured Monument	EA	3 00	\$1,250.00	\$3,750.00	\$700.00	\$2,100.00		
R97	Cement Conc. Sidewalk	SY	3,684 00	\$72.00	\$265,248.00	\$47.00	\$173,148.00		
R98	Decorative Colored Stamped Cement Conc. Sidewalk	SY	661.00	\$125.00	\$82,625.00	\$131.00	\$86,591.00		
R99	Cement Conc. Curb Ramp	EA	44.00	\$2,750.00	\$121,000 00	\$1,500,00	\$66,000.00		
R100	Detectable Warning Surface, Green Detectable Directional Tile	SF	440.00 5.441 00	\$55.00 \$45.00	\$24,200.00 \$244.845.00	\$125 00 \$17.50	\$55.000.00 \$95.217 50		
R102	House Number Stamp	EA	51 00	\$165.00	\$8,415.00	\$100.00	\$95,217 50		
R103	Mailbox Support	EA	45.00	\$300.00	\$13,500.00	\$275.00	\$12,375.00		
R104	Traffic Signal System, E 64th St & Portland Ave E, Complete	LS	1.00	\$125,000.00	\$125,000.00	\$140,000 00	\$140,000.00		
R105	Illumination System	LS	1 00	\$200,000.00	\$200,000 00	\$300,000 00	\$300,000.00		
R106	Pedestrian-Activated Crosswalk Beacon, E 64th St & E 'L' St	LS	1.00	\$35,000 00	\$35,000,00	\$60,000.00	\$60,000.00		
R107 R108	School Zone Beacon, Complete Interconnect System, Complete	LS	1 00	\$24,000.00 \$38,750.00	\$24,000.00 \$38,750.00	\$40,000 00	\$40,000 00		
R109	Permanent Signing	LS	1.00	\$60,000 00	\$60,000 00	\$65,000.00	\$65,000.00		
3110	Plastic Line	LF	7,380 00	\$4 00	\$29,520.00	\$1.35	S9 963 00		
R111	Plastic Wide Lane Line	LF	325 00	\$5 00	\$1,625.00	\$3 10	\$1.007 50		
R112	Plastic Stop Line	LF	118 00	\$15.00	\$1 770 00	\$15.00	\$1,770.00		
3113	Plastic Traffic Letter	EA	28 00	\$175.00	\$4,900.00	\$105.00	\$2,940.00		
R114	Plastic Traffic Arrow	EA	4 00	\$300.00	\$1,200.00	\$250 00	\$1,000.00		
R115	Plastic Crosswalk Line	LF	820 00	\$7.50	\$6,150.00	\$10.00	\$8,200,00		
R118	Plastic Bicycle Lane Symbol Plastic Bicycle Detection Symbol	EA EA	38 00	\$325 00 \$275 00	\$12,350 00 \$550 00	\$325.00 \$125.00	\$12,350,00 \$250,00		
2118	Green Durable Product	SF	820.00	\$273.00	\$18,040,00	\$128.00	\$14,985.00		
R119	Boulder, 3-Man	EA	30.00	\$225.00	\$6 750 00	\$180.00	\$5,400.00		
R120	Boulder, 4-Man	EA	20.00	\$325.00	\$8,500.00	\$220.00	\$4,400,00		
R121	Public Art	LS	1.00	\$20,000,00	\$20,000 00	\$5,000.00	\$5,000.00		
R122	Cement Conc Starrway	Step	181.00	\$525 00	\$95,025.00	\$500.00	\$90,500.00		
R123	Wrought Iron Hand Rail	LF	142 00	\$250.00	\$35,500.00	\$325.00	\$46,150.00		
R124	Segmental Concrete Retaining Wall Cement Conc Wall	SF	6,950 00 483 00	\$47.00 \$115.00	\$328,650 00 \$55,545 00	\$44.00 \$116.00	\$305,800.00 \$56,028.00		
125	Centent Conc. Walk	LF	463.00	5115.00	355,545.00	5110 00	\$50,028.00		
	Subtota				\$ 6,457,098.50		\$ 5,670,752,55		\$ 6,130.25
chad	ule 2 - Waste Water								
	Roadway Surveying	LS	1.00	\$7,000 00	\$7,000.00	\$5,000.00	\$5,000.00		
VW2		LS	1 00	\$500.00	\$500.00	\$500.00	\$500.00		
	SPCC Plan	LS	1 00	\$500.00	\$500.00	\$500.00	\$500.00		
VW4		LS	1 00	\$45,000.00	\$45 000 00	\$7 500 00	\$7,500.00		
VW5	Project Temporary Traffic Control	LS	1 00	\$25,000 00	\$25,000 00	\$4,000 00	\$4,000.00		
NW6	Structure Excavation Class B	CY	1.020.00	\$60.00	\$61,200.00	\$28 00	\$28 560 00		
NW7	Shoring or Extra Excavation Class B	SF	8,875 00	\$2 50	\$22 187 50	S0 50	\$4,437.50		
WW8		EA	2 00	\$2,100.00	\$4,200.00	\$100.00	\$200.00		
NW9	Temporary Pavement Patch Manhole 48 In Diam Type 1	TN EA	70 00	\$200.00 \$4,500.00	\$14,000 00 \$13,500 00	\$100 00 \$6,200 00	\$7,000 00 \$18,600 00		
VW11		LF	1.00	\$500.00	\$500.00	\$200.00	\$200 00		
VW12		EA	1.00	\$2,000.00	\$2,000.00	\$1,000 00	\$1,000.00		
VW13		LS	1.00	\$2,500.00	\$2,500.00	\$1.000.00	\$1,000.00		
VW14	Temporary Sanitary Sewer Bypass plan	LS	1.00	\$500.00	\$500.00	\$2.000.00	\$2,000.00		
	Removal and Replacement of Unsuitable Material	CY	850 00	\$48.00	\$40,800.00	\$38,00	\$32,300.00		
	PVC Sanitary Sewer Pipe 6 In Diam	LF	105.00	\$85.00	\$8.925.00	\$125 00	\$13,125.00		
VW17 VW18	and the second sec	LF LF	435 00 385 00	\$90.00 \$150.00	\$39,150.00 \$57,750.00	\$88.00 \$140.00	\$38,280 00 \$53,900 00		
VW19		LF	925 00	\$5.00	\$4,625.00	\$9.00	\$8,325.00		
VW20		EA	14 00	\$650.00	\$9,100.00	\$1,200.00	\$16,800.00		
/W21	Erosion/Water Pollution Control	LS	1 00	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00		
	Dukasta				\$359,937.50		4044 707 60		
	Subtotal				\$359,837.50		\$244,727.50		
	ule 3 - Water	l							
W1	Mobilization (1-09 7)	LS	1 00	\$61,000.00	\$61,000.00	\$70 000 00	\$70,000.00	100.00%	
W2	Project Temporary Traffic Control (1-10)	LS	1 00	\$35,000.00	\$35,000.00	\$12,000,00	\$12,000.00	100.00%	\$ 12,000.00
WЗ	Removal/Disposal of existing asphalt, concrete sidewalk/curbing & concrete pavement								\$ 5,464.00
	Includes all thicknesses and combinations (2-02.3(3))	SY	683.00	\$20.00	\$13,660.00	\$8.00	\$5.484.00	100 00%	*
	Includes all thicknesses and combinations (2-02.3(3))				\$13,660.00				
W4	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class ½ PG58-32, 2-inch minimum depth, installed & removed (5-04)	SY	683 00	\$35.00	\$13,660 00 \$23,905 00	\$13.20	\$9,015 60	100 00%	\$ 9,015.60
₩4 ₩5	Includes all thicknesses and combinations (2-02.3(3)) Temporary HI&A Class % <sup>2</sup> PG58-22, 2-inch ninimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-09.5 & 0-03.9(3))	SY TN	683.00 1,751.00	\$35.00 \$30.00	\$13,660.00 \$23,905.00 \$52,530.00	\$13.20 \$33.00	\$9,015 80 \$57,783 00	100 00%	\$ 9,015.60 \$ 57,783.00
N4 N5 N6	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class ½ PG58-32, 2-inch minimum depth, installed & removed (5-04)	SY	683 00	\$35.00	\$13,660 00 \$23,905 00	\$13.20	\$9,015 60	100 00%	\$ 9,015.60 \$ 57,783.00 \$ 3,000.00
N4 N5 N6 N7	Includes all thicknesses and combinations (2-02.3(3)) Temporary HI&A Class %: PG58-22, 2-inch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-09.5 & 0-03.9(3)) Storm, Sanilary, Side Sewer Restoration (7-04.7-09.5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-09.5) Trench Shoring (7-09.3(7) & 7-09.5)	SY TN EA	683 00 1,751.00 10.00	\$35.00 \$30.00 \$1,000.00	\$13,660.00 \$23,905.00 \$52,530.00 \$10,000.00	\$13.20 \$33.00 \$300.00	\$9,015 60 \$57,783 00 \$3,000 00	100 00% 100 00% 100.00%	\$ 9,015.60 \$ 57,783.00 \$ 3,000.00 \$ 31,584.00
N4 N5 N6 N7 N8	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class ½ PG58-22, 2-inch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-06.8, 8, 0-03.9(3)) Storm, Sanilary, Sido Sever Resistorian (7-04.7/0.96, 5, 7-17, 8, 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-09.6) Trench Shoring (7-09.3(7) & 7-09.5) Sand for jobe bedring of PVC pape (7-09)	SY TN EA CY	683 00 1,751.00 10.00 1.128 00	\$35.00 \$30.00 \$1,000.00 \$25.00	\$13,660.00 \$23,905.00 \$52,530.00 \$10,000.00 \$28,200.00	\$13.20 \$33.00 \$300.00 \$28.00	\$9,015 60 \$57,783 00 \$3,000 00 \$31,584 00	100 00% 100 00% 100.00% 100.00%	\$ 9,015.60 \$ 57,783.00 \$ 3,000.00 \$ 31,584.00 \$ 2,050.00
N4 N5 N6 N7 N8 N9	Includes all thicknesses and combinations (2-02.3(3)) Temporary HI&A Class ½ PG58-22, 2-inch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-06.5 & 9-03.9(3)) Storm, Sanilary, Side Sever Restoration (7-04.7-09.5, 7-17, & 7-18) Trench Exavation & Disposal (7-09.9(7) & 7-09.5) Trench Shoring (7-09.3(7) & 7-09.5) Sand for pipe bedding of PVC pipe (7-09) Elionch Ducitie for Pipe, Push-On Joint, ANS/IAWWA, C151, Special Class Thickness	SY TN EA CY LF TN	683 00 1,751.00 10.00 1.128 00 2,050.00 252 00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00	\$13,680.00 \$23,905.00 \$52,530.00 \$10,000.00 \$28,200.00 \$2,050.00 \$5,040.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00	\$9,015.80 \$57,783.00 \$3,000.00 \$31,584.00 \$2,050.00 \$8,316.00	100 00% 100 00% 100.00% 100.00% 100 00% 100 00%	\$ 9,015.60 \$ 57,783.00 \$ 3,000.00 \$ 31,584.00 \$ 2,050.00 \$ 8,316.00
W4 W5 W6 W7 W8 W9	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class ½ PG58-22, 2-inch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-06.8, 8, 0-03.9(3)) Storm, Sanilary, Sido Sever Resistorian (7-04.7/0.96, 5, 7-17, 8, 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-09.6) Trench Shoring (7-09.3(7) & 7-09.5) Sand for jobe bedring of PVC pape (7-09)	SY TN EA CY LF	683 00 1,751.00 10.00 1.128 00 2,050.00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00	\$13,680.00 \$23,905.00 \$52,530.00 \$10,000.00 \$28,200.00 \$2,050.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00	\$9,015 60 \$57,783 00 \$3,000 00 \$31,584,00 \$2,050 00	100 00% 100 00% 100.00% 100.00% 100.00%	\$ 9,015.60 \$ 57,783.00 \$ 3,000.00 \$ 31,584.00 \$ 2,050.00 \$ 8,316.00
W4 W5 W8 W7 W8 W9 V10	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PC58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-96.5 & 0-03.9(3)) Storm, Sanilary, Side Sewer Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-06.5) Sand for pipe bedding of PVC pipe (7-09) 18-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No 52, to furmish, ia yand test, (7-09.3(15), 7-06.5 & 0-90.1(1)) 6-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furmish, uay and test, (7-09.3(15), 8-9.05.1(1))	SY TN EA CY LF TN	683 00 1,751.00 10.00 1.128 00 2,050.00 252 00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00	\$13,680.00 \$23,905.00 \$52,530.00 \$10,000.00 \$28,200.00 \$2,050.00 \$5,040.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00	\$9,015.80 \$57,783.00 \$3,000.00 \$31,584.00 \$2,050.00 \$8,316.00	100 00% 100 00% 100.00% 100.00% 100 00% 100 00%	\$         9,015.60           \$         57,783.00           \$         3,000.00           \$         31,584.00           \$         2,050.00           \$         8,316.00           \$         37,485.00
W4 W5 W8 W7 W8 W9 V10 V11	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class ½ PG58-22, 2-inch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-06.8, 8, 0-03.9(3)) Storm, Sanilary, Sido Sever Resistorian (7-04.70-95, F. 171, 8, 7-18) Trench Excavation & Disposal (7-09.3(7) 8, 7-09.5) Trench Shoring (7-09.3(7) 8, 7-09.5) Sand for jobe bedding of PVC pipe (7-09) 16-inch Ductite Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furnish, Jay and test, 17-09.3(5) 8, 7-09.5 8, 9-30.1(1)) B-inch Ductite Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furnish, Jay and test, (7-09.3(5) 8, 7-09.5 8, 9-30.1(1)) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with Iracer wire, to furnish,	SY TN EA CY LF TN LF LF	683 00 1,751.00 1.128 00 2.050.00 252 00 163 00 160 00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00 \$100 \$20.00 \$140.00 \$60.00	\$13,680.00 \$23,905.00 \$10,000.00 \$28,200.00 \$2,050.00 \$2,050.00 \$2,040.00 \$21,420.00 \$9,600.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00 \$245.00 \$70.00	59.015 60 \$57.783 00 \$3.000 00 \$31.584 00 \$2,950 00 \$8,316 00 \$37,485.00 \$11,200 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9,015.60           \$ 57,783.00           \$ 3,000.00           \$ 3,000.00           \$ 31,584.00           \$ 2,050.00           \$ 8,316.00           \$ 37,485.00           \$ 11,200.00
W4 W5 W8 W7 W8 W9 V10	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PC58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-96.5 & 0-03.9(3)) Storm, Sanilary, Side Sewer Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-06.5) Sand for pipe bedding of PVC pipe (7-09) 18-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No 52, to furmish, ia yand test, (7-09.3(15), 7-06.5 & 0-90.1(1)) 6-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furmish, uay and test, (7-09.3(15), 8-9.05.1(1))	SY TN EA CY LF TN LF	683 00 1,751.00 10.00 1.128 00 2.050.00 252 00 153 00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00 \$140.00	\$13,660.00 \$23,905.00 \$52,530.00 \$10,000.00 \$28,200.00 \$2,050.00 \$5,040.00 \$21,420.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00 \$245.00	\$9,015 80 \$57,783 00 \$31,584 00 \$2,050 00 \$8,316 00 \$37,485,00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$         9,015.60           \$         57,783.00           \$         3,000.00           \$         3,1584.00           \$         2,050.00           \$         8,316.00           \$         37,485.00           \$         11,200.00
W4 W5 W8 W9 V10 V11 V112 V12	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class V: PC58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-90.5 & 0-03.9(3)) Storm, Sanilary, Sido Sewer Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Storary (7-09.3(7) & 7-09.5) Sand for pipe bedding of PVC pipe (7-09) Sand for Pipe Pupe Pupe Pupe Pupe Pupe Pupe Pupe Pu	SY TN EA CY LF TN LF LF LF	683 00 1,751.00 10.00 2,050.00 252 00 163 00 160 00 1 656 00 255.00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00 \$140.00 \$60.00 \$80.00 \$80.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,000.00 \$28,000.00 \$2,050.00 \$2,050.00 \$2,050.00 \$2,1420.00 \$9,600.00 \$132,480.00 \$15,300.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00 \$245.00 \$70.00 \$62.00 \$48.00	\$9,015 00 \$57,783 00 \$3,000 00 \$31,584 00 \$2,050 00 \$8,316 00 \$37,485,00 \$11,200 00 \$102,672 00 \$12,240 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9,015.66 \$ 57,783.00 \$ 3,000.00 \$ 31,584.00 \$ 2,050.00 \$ 8,315.60 \$ 37,485.00 \$ 11,200.00 \$ 102,672.00 \$ 12,240.00
W4 W5 W6 W7 W8 W9 V10 V11 V11 V112 V113 V13	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class X': PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-96.5 & 0-03.9(3)) Storm, Sanilary, Side Sever Restoration (7-04.7-09.5, 7-17, & 7-18) Trench Shoring (7-08.3(7) & 7-09.5) Sand for jpie bedding of PVC pipe (7-09) Temch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15), 7-09.5 & 0-93.1(1)) B-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15), 7-09.5 & 0-93.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C000, DR14, with Iracer wire, to furnish, Jay and lest 10-inch 2-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1))	SY TN EA CY LF TN LF LF LF LF . EA	683 00 1,751.00 10,00 1.128 00 2,050.00 252 00 163 00 160 00 1 656 00 255.00 1.00	\$35.00 \$30.00 \$1,000.00 \$1.00 \$25.00 \$1.00 \$20.00 \$140.00 \$60.00 \$80.00 \$80.00 \$80.00 \$1,500.00	\$13,680.00 \$23,905.00 \$52,530.00 \$10,000,00 \$28,200.00 \$2,050.00 \$2,050.00 \$2,050.00 \$2,1420.00 \$9,600.00 \$132,480.00 \$15,300.00 \$1,500.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$245.00 \$70.00 \$62.00 \$48.00 \$8,000.00	59.015 00 \$57.783 00 \$3.000 00 \$31.584 00 \$2.050 00 \$8.316 00 \$37.485.00 \$11 200 00 \$102,672 00 \$12,240 00 \$12,240 00 \$8.000 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	S         9.015.66           S         57.783.00           S         3.0000.00           S         3.1,584.00           S         2.050.00           S         8.316.00           S         37.485.00           S         11,200.00           S         102,672.00           S         12,240.00           S         12,240.00           S         8.000.00
W4 W5 W6 W7 W8 W9 V10 V11 V11 V12 V11 V12 V14 V14 V15	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class %: PG58-22, 2-inch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-06.8, 8 -0.3.9(3)) Storm, Sanilary, Side Sever Resistorian (7-04.7.0.95, F. 717, 8, 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-09.5, 7-17, 8, 7-18) Trench Shoring (7-08.3(7) & 7-09.5) Sand for jobe bedding of PVC pipe (7-09) 18-inch Ductite Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furnish, Iay and test, (7-09.3(5) A, 7-09.5 & 9-03.0(1)) B-inch Ductite Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furnish, Iay and test, (7-09.3(5) A, 7-09.5 & 9-03.0(1)) B-inch PUC-Ripe, Push-On Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, Iay and test 18-inch PUC-Ripe, Push-On Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, Iay and test 18-inch PUC-Ripe, Teush-On Joint, ANSI/AWWA, C600, Z(1)) 19-inch X-8-inch Ductite Iron Tee, 3-B, M J, installed (9-30.2(1))	SY TN EA CY LF TN LF LF LF LF LF EA EA	683 00 1,751.00 10,00 2,050,00 252 00 153 00 160 00 1 656 00 255.00 1,00 5,00	\$35.00 \$30.00 \$1,000.00 \$2.00 \$1.00 \$20.00 \$140.00 \$80.00 \$80.00 \$80.00 \$1,500.00 \$1,500.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,200.00 \$2,050.00 \$2,050.00 \$2,040.00 \$2,040.00 \$9,600.00 \$132,480.00 \$15,300.00 \$1,500.00 \$9,750.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00 \$245.00 \$70.00 \$62.00 \$48.00 \$8,000.00	\$9,015 80 \$57,783 00 \$3,000 00 \$3,154 00 \$2,050 00 \$8,316 00 \$37,485.00 \$11,200 00 \$102,672 00 \$12,240 00 \$8,200 00 \$40,000 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9,015,66 \$ 57,783,00 \$ 3,000,00 \$ 31,584,00 \$ 2,0550,00 \$ 8,316,00 \$ 37,485,00 \$ 11,200,00 \$ 102,672,00 \$ 102,672,00 \$ 12,240,00 \$ 8,000,00 \$ 40,000,00
W4 W5 W6 W7 W8 W9 V10 V11 V11 V12 V112 V113 V14 V15 V16	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class V: PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-06.5 & 0-03.0(3)) Storm, Sanilary, Side Sewer Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-06.5) Sand for pipe bedding of PVC pipe (7-09) 18-inch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmish, lay and test, (7-09.3(15), 7-06.5 & 0-30.1(1)) 8-inch PUC Pipe, Push-On-Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and test, 10-00.1(5), 7-00.5 & 0-30.1(1)) 8-inch PUC Pipe, Push-On-Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and test, 10-00.1(5), 7-00.5 & 0-30.1(1)) 8-inch PUC Pipe, Push-On-Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and test, 10-00.1(5), 7-00.5 & 0-30.1(1)) 18-inch AB-inch Ductile Iron Tee, 3-8, M J, installed (9-30.2(1)) 18-inch Ductile Iron Tee, 3-8, M J, installed (9-30.2(1))	SY TN EA CY LF TN LF LF LF LF EA EA	683 00 1,751.00 1,000 1.128 00 2,050.00 252 00 153 00 160 00 1 656 00 255.00 1.00 5.00 1.00	\$35.00 \$30.00 \$1,000.00 \$1.00 \$22.00 \$140.00 \$60.00 \$80.00 \$80.00 \$1,500.00 \$1,950.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,200.00 \$28,2050.00 \$2,050.00 \$2,050.00 \$21,420.00 \$9,800.00 \$132,480.00 \$132,480.00 \$15,300.00 \$1,500.00 \$9,750.00 \$3350.00	\$13.20 \$33.00 \$300.00 \$28.00 \$1.00 \$33.00 \$245.00 \$70.00 \$62.00 \$48.00 \$8,000.00 \$8,000.00 \$1,200.00	\$9,015 00 \$57,783 00 \$3,000 00 \$31,584 00 \$2,050 00 \$8,316 00 \$37,485,00 \$11,200 00 \$102,672 00 \$102,672 00 \$102,672 00 \$12,240 00 \$40,000 00 \$1,200 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9,015.6 \$ 57,783.0 \$ 3,000.0 \$ 31,584.0 \$ 2,050.0 \$ 2,050.0 \$ 37,485.0 \$ 37,485.0 \$ 11,200.0 \$ 102,672.0 \$ 102,672.0 \$ 12,240.0 \$ 38,000.00 \$ 3,000.00 \$ 3,000
W4 W5 W6 W7 W8 W9 V10 V11 V11 V12 V13 V14 V15 V16 V17	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class X': PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfaring Top Course for french backfill (7-96.5 & 0-03.9(3)) Storm, Sanilary, Side Sever Restoration (7-04.7-09.5, 7-17.8, 7-18) Trench Shoring (7-09.3(7) & 7-09.5) Sand for jpise bedding of PVC pipe (7-09) Temch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15), 7-09.5 & 0-9.0.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15), 7-09.5 & 0-9.0.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C000, DR14, with tracer wire, to furnish, Jay and test, (7-09.3(15), 7-09.0.158, 7-09.114), and test Telinch S-inch Ductite Iron Tee, 3-B, M.J., installed (0-30.2(1)) 18-inch x-6-inch Ductite Iron Tee, 3-B, M.J., installed (0-30.2(1)) B-inch x-6-inch Ductite Iron Tee, 3-B, M.J., installed (0-30.2(1))	SY TN EA CY LF TN LF LF LF EA EA EA	683 00 1,751.00 10.00 1,28 00 2,050.00 255.00 163 00 1656 00 255.00 1,00 5.00 1,00 1,00	\$35.00 \$1,000.00 \$25.00 \$100.00 \$20.00 \$100 \$20.00 \$140.00 \$80.00 \$80.00 \$1,500.00 \$1,500.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$70,000.00 \$2,050.00 \$2,050.00 \$2,050.00 \$21,420.00 \$9,600.00 \$132,480.00 \$15,300.00 \$15,300.00 \$1,500.00 \$5750.00 \$5500.00	\$13.20 \$33.00 \$28.00 \$1.00 \$33.00 \$28.00 \$33.00 \$245.00 \$70.00 \$62.00 \$48.00 \$8,000.00 \$1.200.00 \$1.200.00	\$9,015 80 \$3,000 \$3,000 \$3,1584 00 \$2,050 00 \$8,316 00 \$8,316 00 \$11,200 00 \$102,672 00 \$12,240 00 \$8,000 00 \$8,000 00 \$40,000 00 \$1,200 00 \$1,200 00 \$1,400 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$         9.015.66           \$         57.783.00           \$         3.000.00           \$         3.1,584.00           \$         2.050.00           \$         2.050.00           \$         3.7,485.00           \$         3.7,485.00           \$         11,200.00           \$         12,240.00           \$         8.000.00           \$         40,000.00           \$         1,200.00           \$         1,200.00           \$         1,200.00
N/4 N/6 N/7 N/8 N/9 V10 V11 V11 V12 V11 V12 V11 V12 V13 V14 V15 V16 V17 V18	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class V: PC58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacang Top Course for trench backfill (7-90.5 & 0-03.9(3)) Storm, Sanilary, Sido Sever Restoration (7-04,7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-08.5) Sand for pipe bedding of PVC pipe (7-09) Temch Shoring (7-09.3(7) & 7-08.5) Sand for pipe bedding of PVC pipe (7-09) Temch Shoring (7-09.3(7) & 7-08.5) Sand for pipe bedding of PVC pipe (7-09) Temch Shoring (7-09.3(7) & 7-09.5) Sand for pipe hedding of PVC pipe (7-09) Sinch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No 52. to furnish, lay and test, (7-09.3(15)A, 7-08.5 & 8-03.0(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C600. DR14, with tracer wire, to furnish, lay and last 4-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C600. DR14, with tracer wire, to furnish, lay and last 10-linch x.8-inch Ductile Iron Tee, 3-B, M.J., installed (9-30.2(1)) B-inch Ductile Iron Tee, 3-B, M.J., installed (9-30.2(1)) B-inch Ductile Iron Tee, 3-B, M.J., installed (9-30.2(1))	SY TN EA CY LF TN LF LF LF EA EA EA EA EA	683 00 1,751.00 10.00 1,128 00 2,050.00 252.00 160.00 1656.00 255.00 1.00 5.00 1.00 1.00 1.00 1.00 1.00	\$35.00 \$30.00 \$25.00 \$22.00 \$140.00 \$40.00 \$60.00 \$40.00 \$1,50.00 \$1,50.00 \$31,50.00 \$31,50.00 \$31,50.00 \$350.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$70,000.00 \$2,050.00 \$2,050.00 \$2,1420.00 \$9,600.00 \$132,480.00 \$15,300.00 \$15,300.00 \$15,300.00 \$15,300.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$3	\$13.20 \$33.00 \$200.00 \$28.00 \$33.00 \$33.00 \$245.00 \$70.00 \$62.00 \$64.00 \$8.000.00 \$1.200.01 \$1.400.00	\$9,015 80 \$57,783 00 \$3,000 00 \$31,84 00 \$2,050 00 \$8,316 00 \$11,200 00 \$102,672 00 \$102,672 00 \$102,672 00 \$102,672 00 \$102,672 00 \$1,2240 00 \$40,000 00 \$1,400 00 \$1,400 00	100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%, 100.00%,	\$ 9,015.6 \$ 57,783.0 \$ 3,000.0 \$ 3,1584.0 \$ 2,059.0 \$ 2,059.0 \$ 37,485.0 \$ 37,485.0 \$ 11,200.0 \$ 102,672.0 \$ 12,240.0 \$ 8,000.0 \$ 32,240.0 \$ 12,240.0 \$ 1,260.0 \$
N/4 N/6 N/7 N/8 N/9 V10 V11 V12 V11 V12 V12 V13 V14 V15 V16 V17 V18 V19	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class X': PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfaring Top Course for french backfill (7-96.5 & 0-03.9(3)) Storm, Sanilary, Side Sever Restoration (7-04.7-09.5, 7-17.8, 7-18) Trench Shoring (7-09.3(7) & 7-09.5) Sand for jpis bedding of PVC pipe (7-09) Temch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15), 7-09.5 & 0-9.0.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C151. Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15), 7-09.5 & 0-9.0.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C000, DR14, with tracer wire, to furnish, Jay and test, (7-09.3(15), 7-09.0.158, 7-09.114), and test Telinch S-inch Ductite Iron Tee, 3-B, M.J., installed (0-30.2(1)) 18-inch x-6-inch Ductite Iron Tee, 3-B, M.J., installed (0-30.2(1)) B-inch x-6-inch Ductite Iron Tee, 3-B, M.J., installed (0-30.2(1))	SY TN EA CY LF TN LF LF LF EA EA EA EA EA	683 00 1,751.00 10.00 1,28 00 2,050.00 255.00 163 00 1656 00 255.00 1,00 5.00 1,00 1,00	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00 \$140.00 \$60.00 \$80.00 \$1,600.00 \$1,600.00 \$1,650.00 \$350.00 \$350.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,200.00 \$2,050.00 \$5,040.00 \$21,420.00 \$1,420.00 \$132,480.00 \$132,480.00 \$15,300.00 \$15,500.00 \$3550.00 \$3550.00 \$3550.00 \$3550.00	\$13,20 \$33,00 \$280,00 \$728,00 \$100 \$33,00 \$245,00 \$70,00 \$62,00 \$48,000,00 \$8,000,00 \$1,200,00 \$1,400,00 \$1,400,00 \$1,400,00	\$9,015 00 \$57,783 00 \$3,000 00 \$31,584 00 \$32,050 00 \$8,316 00 \$37,485,00 \$112,200 00 \$102,672 00 \$102,672 00 \$102,672 00 \$102,672 00 \$12,240 00 \$1,200 00 \$1,200 00 \$1,400,00 \$1,400,00 \$1,200 00 \$1,200,00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9,015,6 \$ 57,783,0 \$ 3,000,0 \$ 31,584,0 \$ 2,050,0 \$ 2,050,0 \$ 37,485,0 \$ 11,200,0 \$ 112,000,0 \$ 102,672,0 \$ 12,240,0 \$ 3,000,0 \$ 40,000,0 \$ 1,200,0 \$ 1,000,0 \$
W4 W5 W8 W9 V10 V11 V11 V12 V13 V14 V15 V16 V17 V18 V19 V19 V20	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-06.5 & 0-03.0(3)) Storm, Sanilary, Side Sewer Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-06.5) Sand for pipe bedding of PVC pipe (7-09) Tench Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-09.3(15), 7-00.5 & 0-30.1(1)) B-inch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-00.3(15), 7-00.5 & 0-30.1(1)) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with fracer wire, to furnish, lay and test, To-0.3(15)A, 7-00.5 & 0-30.1(1) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with fracer wire, to furnish, lay and test, To-0.3(15)A, 7-00.5 & 0-30.1(1) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with fracer wire, to furnish, lay and test, To-3.8, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch	SY TN EA CY LF TN LF LF EA EA EA EA EA EA EA	683 00 1,751.00 1,0.00 1,128 00 2,050,00 252 00 153 00 160,00 1,656 00 255.00 1,656 00 255.00 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 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\$350.00 \$350.00 \$350.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,200.00 \$28,2050.00 \$22,050.00 \$21,420.00 \$9,800.00 \$132,480.00 \$132,480.00 \$15,300.00 \$1,500.00 \$35500.00 \$35500.00	\$13,20 \$33,00 \$280,00 \$280,00 \$100 \$33,00 \$245,00 \$70,00 \$62,00 \$62,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 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\$         2,050.0           \$         3,1584.0           \$         3,2485.0           \$         37,485.0           \$         11,200.0           \$         102,672.01           \$         12,240.00           \$         40,000.00           \$         1,200.00           \$         1,400.00           \$         1,400.00           \$         1,400.00           \$         1,400.00           \$         1,200.00
W4 W5 W8 W9 V10 V11 V11 V12 V13 V14 V15 V16 V17 V18 V19 V19 V20	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class X': PG58-22, 2-anch-inkinismum depth, installed & removed (5-04) Crushed Surfaring Top Course for french backfill (7-96.5 & 0-03.9(3)) Sform, Sanilary, Side Sever Resistoration (7-04.7-09 5, 7-17, & 7-18) Trench Shoring (7-09.3(7) & 7-09.5) Trench Shoring (7-09.3(7) & 7-09.5) Trench Shoring (7-09.3(7) & 7-09.5) Sand for jpbe bedding of PVC pipe (7-09) Telmich Ductitle fron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmish, Jay and test, (7-09.3(15)A, 7-09.5 & 9-9.0.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C900, DR14, with tracer wire, to furnish, Jay and test, (7-09.3(15)A, 7-09.5 & 9-9.0.1(1)) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C900, DR14, with tracer wire, to furnish, Jay and test, (7-09.3(15)A, 7-09.5 & 9-9.0.1(1)) B-inch As-inch Ductitle fron Tee, 3-B, M.J., installed (9-30.2(1)) B-inch VE-Direl Fron Tee, 3-B, M.J., installed (9-30.2(1)) B-inch VE-Direl fron Tee, 3-B, M.J., installed (9-30.2(1)) B-inch VE-Direl Form Tee, 3-B, M.J., installed (9-30.2(1)) B-inch VE-Direl fron Tee, 3-B, M.J., installed (9-30.2(1)) B-inch VE	SY TN EA CY LF TN LF LF LF EA EA EA EA EA	683.00 1,751.00 10,00 1,28.00 2,050,00 252.00 160.00 1656.00 255.00 1.00 5.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	\$35.00 \$30.00 \$1,000.00 \$25.00 \$1.00 \$20.00 \$140.00 \$60.00 \$80.00 \$1,600.00 \$1,600.00 \$1,650.00 \$350.00 \$350.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,200.00 \$2,050.00 \$5,040.00 \$21,420.00 \$1,420.00 \$132,480.00 \$132,480.00 \$15,300.00 \$15,500.00 \$3550.00 \$3550.00 \$3550.00 \$3550.00	\$13,20 \$33,00 \$280,00 \$728,00 \$100 \$33,00 \$245,00 \$70,00 \$62,00 \$48,000,00 \$8,000,00 \$1,200,00 \$1,400,00 \$1,400,00 \$1,400,00	\$9,015 00 \$57,783 00 \$3,000 00 \$31,584 00 \$32,050 00 \$8,316 00 \$37,485,00 \$112,200 00 \$102,672 00 \$102,672 00 \$102,672 00 \$102,672 00 \$12,240 00 \$1,200 00 \$1,200 00 \$1,400,00 \$1,400,00 \$1,200 00 \$1,200,00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$         9,015.6           \$         57,783.0           \$         3,000.0           \$         3,1594.0           \$         3,1594.0           \$         2,050.0           \$         2,050.0           \$         3,1584.0           \$         3,2485.0           \$         37,485.0           \$         11,200.0           \$         102,672.01           \$         12,240.00           \$         40,000.00           \$         1,200.00           \$         1,400.00           \$         1,400.00           \$         1,400.00           \$         1,400.00           \$         1,200.00
W4 W5 W8 W9 W10 W11 W12 W13 W14 W13 W14 W13 W14 W15 W16 W17 W18 W19 W20 W21 W21	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-06.5 & 0-03.0(3)) Storm, Sanilary, Side Sewer Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-06.5) Sand for pipe bedding of PVC pipe (7-09) Tench Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-09.3(15), 7-00.5 & 0-30.1(1)) B-inch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-00.3(15), 7-00.5 & 0-30.1(1)) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with fracer wire, to furnish, lay and test, To-0.3(15)A, 7-00.5 & 0-30.1(1) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with fracer wire, to furnish, lay and test, To-0.3(15)A, 7-00.5 & 0-30.1(1) B-inch PUC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with fracer wire, to furnish, lay and test, To-3.8, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (0-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch A-B-inch Ductile Iron Tee, 3-B, M J, installed (7-08.8-30.2(1)) B-inch	SY TN EA CY LF TN LF LF EA EA EA EA EA EA EA	683 00 1,751.00 1,0.00 1,128 00 2,050,00 252 00 153 00 160,00 1,656 00 255.00 1,656 00 255.00 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 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\$350.00 \$350.00 \$350.00 \$350.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,200.00 \$28,2050.00 \$22,050.00 \$21,420.00 \$9,800.00 \$132,480.00 \$132,480.00 \$15,300.00 \$1,500.00 \$35500.00 \$35500.00	\$13,20 \$33,00 \$280,00 \$280,00 \$100 \$33,00 \$245,00 \$70,00 \$62,00 \$62,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 \$648,00 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\$ 37,485,00           \$ 11,200,00           \$ 102,672,00           \$ 102,672,00           \$ 12,240,00           \$ 1,2240,00           \$ 1,200,00           \$ 1,200,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 2,000,00
W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14 W13 W14 W15 W16 W17 W18 W19 W20 W21 W21	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-09.5 & 0-03.0(3)) Storm, Sanilary, Side Sewar Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-08.5) Sand for pipe bedding of PVC pipe (7-09) Temch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-09.3(15), 7-00.5 & 030.1(1)) B-inch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-09.3(15), 7-00.5 & 030.1(1)) B-inch PVC Pipe, Push-On-Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and lest, To-0.3(15)A, 7-00.5 & 030.1(1) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and lest, To-0.3(15)A, 7-00.5 & 030.1(1) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and lest, To-0.3(15)A, 7-00.5 0, 20.3(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (930.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (930.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (930.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (7-09.4, 830.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (7-04.4, 830.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (7-06.4, 830.2(1)) B-inch AB-inch Ductile Iron Reducer, M-J, installed (7-08.4, 830.2(1)) B-inch AB-inch Ductile Iron Reducer, M-J, installed (7-08.4, 830.2(1)) B-inch AB-inch Ductile Iron Reducer, M-J, installed (7-08.4, 830.2(1)) B-inch Transition Coupling with 1-inch center Irong, epoxy coaling, and stainless steel bolts, C.1 to D.1, (7-09.3(19)A, 7-09.5 & 0-30.2(7))	SY TN EA CY LF LF LF LF EA EA EA EA EA EA EA EA EA	683.00 1,751.00 1,0.00 1,128.00 2,050.00 252.00 163.00 1656.00 255.00 1.00 255.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 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\$2,750.00           \$1,000.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,000.00 \$2,050.00 \$2,050.00 \$2,14,20.00 \$132,480.00 \$132,480.00 \$15,300.00 \$15,300.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 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00 \$1,400 00 \$1,400 00 \$1,400 00 \$1,400 00 \$1,200,00 \$2,000,00 \$86,000 00 \$860 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9015.66           \$ 57,783.00           \$ 3,000.00           \$ 3,000.00           \$ 3,054.00           \$ 2,050.00           \$ 2,050.00           \$ 37,485.00           \$ 37,485.00           \$ 11,200.00           \$ 102,672.00           \$ 102,672.00           \$ 102,672.00           \$ 12,240.00           \$ 1,200.00           \$ 1,400.00           \$ 1,400.00           \$ 1,400.00           \$ 1,400.00           \$ 2,000.00           \$ 2,000.00           \$ 2,000.00           \$ 2,000.00           \$ 66,000.00           \$ 8000.00
W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14 W12 W13 W14 W12 W13 W14 W12 W13 W14 W12 W13 W14 W12 W13 W14 W12 W22 W23	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for Irench backfill (7-96.5 & 0-03.9(3)) Storm, Sanilary, Side Sever Restoration (7-04.7-09.5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3)(7) & 7-06.5) Sand for joje bedding of PVC pipe (7-09) Temch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test, (7-09.3)(7) & 7-06.5 & 0-30.1(1)) 6-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test, (7-09.3)(5), 7-09.5 & 0-30.1(1)) 8-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C000, DR14, with Iracer wire, to furnish, lay and test, (7-03.3)(5), 7-00.5 & 0-30.1(1)) 16-inch As-inch Ductile Iron Tee, 3-B, MJ, installed (9-30.2(1)) 16-inch As-inch Ductile Iron Tee, 3-B, MJ, installed (9-30.2(1)) 16-inch As-inch Ductile Iron Tee, 3-B, MJ, installed (9-30.2(1)) 6-inch Ductile Iron Tee, 3-B, MJ, installed (7-08.2(1)) 6-inch Ductile Iron Tee, 3-B, MJ, installed (7-09.3(1)) 6-inch Ductile Iron Tee, 3-B, MJ, installed (7-09.3(1)) 6-inch Ductile Iron Tee, 3-B, MJ, installed (7-09.2(1)) 6-inch Ductile Iron Tee, 3-B, MJ, installed (7-08.2(1)) 6-inch Ductile Iron Tee, 3-B, MJ, installed (7-08.2(2)) 6-inch Ironshin Coupling with T-inch Center Iring, epoxy coaling, and stainless steel bolts, C1 I to D1. Installed (7-09.5 & 9-30.2(7)) 15-inch Ductle Iron Rectore Iring, epoxy coaling, and stainless steel bolts, C1 I to D1. Installed (7-09.5 & 9-30.2(7))	SY TN EA CY LF LF LF LF EA EA EA EA EA EA EA EA EA	683.00 1,751.00 1,000 1,128.00 2,050.00 252.00 163.00 1656.00 255.00 1.656.00 5.00 1.00 1.00 1.00 2.00 2.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 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\$70,000.00 \$2,050.00 \$2,050.00 \$2,1420.00 \$19,2480.00 \$19,2480.00 \$19,2480.00 \$15,300.00 \$15,500.00 \$2550.00 \$2550.00 \$2520.00 \$2520.00 \$5500.00 \$260,500.00 \$1,000.00 \$1,600.00 \$1,600.00	\$11.20 \$33.00 \$28.00 \$70.00 \$245.00 \$245.00 \$70.00 \$62.00 \$48.00 \$8.000.00 \$1.200.00 \$1.200.00 \$1.400.00 \$1.400.00 \$1.400.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 \$1.200.00 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37,485,00           \$ 11,200,00           \$ 11,200,00           \$ 12,240,00           \$ 12,240,00           \$ 40,000,00           \$ 1,200,00           \$ 1,200,00           \$ 1,400,00           \$ 1,400,00           \$ 1,400,00           \$ 2,000,00           \$ 2,000,00           \$ 2,000,00           \$ 2,000,00           \$ 8,000,00           \$ 3,200,00           \$ 3,200,00
W4 W5 W6 W7 W8 W9 M10 M11 M12 M13 M14 M13 M14 M15 M16 M17 M18 M19 M20 M21	Includes all thicknesses and combinations (2-02.3(3)) Temporary HMA Class Y: PG58-22, 2-anch minimum depth, installed & removed (5-04) Crushed Surfacing Top Course for trench backfill (7-09.5 & 0-03.0(3)) Storm, Sanilary, Side Sewar Restoration (7-04.7-09 5, 7-17, & 7-18) Trench Excavation & Disposal (7-09.3(7) & 7-08.5) Sand for pipe bedding of PVC pipe (7-09) Temch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-09.3(15), 7-00.5 & 030.1(1)) B-inch Ductile Iron Pipe, Push-On-Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furmis, lay and test, (7-09.3(15), 7-00.5 & 030.1(1)) B-inch PVC Pipe, Push-On-Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and lest, To-0.3(15)A, 7-00.5 & 030.1(1) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and lest, To-0.3(15)A, 7-00.5 & 030.1(1) B-inch PVC Pipe, Push-On Joint, ANSI/AWWA, C600, DR14, with tracer wire, to furnish, lay and lest, To-0.3(15)A, 7-00.5 0, 20.3(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (930.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (930.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (930.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (7-09.4, 830.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (7-04.4, 830.2(1)) B-inch AB-inch Ductile Iron Tee, 3-B, M-J, installed (7-06.4, 830.2(1)) B-inch AB-inch Ductile Iron Reducer, M-J, installed (7-08.4, 830.2(1)) B-inch AB-inch Ductile Iron Reducer, M-J, installed (7-08.4, 830.2(1)) B-inch AB-inch Ductile Iron Reducer, M-J, installed (7-08.4, 830.2(1)) B-inch Transition Coupling with 1-inch center Irong, epoxy coaling, and stainless steel bolts, C.1 to D.1, (7-09.3(19)A, 7-09.5 & 0-30.2(7))	SY TN EA CY LF LF LF LF EA EA EA EA EA EA EA EA EA	683.00 1,751.00 1,0.00 1,128.00 2,050.00 252.00 163.00 1656.00 255.00 1.00 255.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 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   \$1,000.00	\$13,680.00 \$23,905.00 \$52,530.00 \$28,000.00 \$2,050.00 \$2,050.00 \$2,14,20.00 \$132,480.00 \$132,480.00 \$15,300.00 \$15,300.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 \$350.00 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00 \$1,400 00 \$1,400 00 \$1,200,00 \$2,000,00 \$86,000 00 \$860 00	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	\$ 9,015.60           \$ 57,783.00           \$ 3,000.00           \$ 3,000.00           \$ 3,1584.00           \$ 2,1550.00           \$ 3,7485.00           \$ 3,7485.00           \$ 11,200.00           \$ 11,200.00           \$ 102,672.00           \$ 102,672.00           \$ 102,672.00           \$ 102,672.00           \$ 102,672.00           \$ 1,200.00           \$ 1,200.00           \$ 1,200.00           \$ 1,200.00           \$ 1,200.00           \$ 1,200.00           \$ 2,000.00           \$ 2,000.00           \$ 3,200.00           \$ 3,200.00           \$ 3,200.00           \$ 3,200.00

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

					ENGINEER'S ESTIMATE		w Bidder sources, LLC	Waters Responsibility		
Item	Description	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	(%)		Amount
W27	4-inch Ductile Iron Solid Sleeve (Long Pattern) M.J., installed (7-09.5, & 9-30.2(1))	EA	2.00	\$150.00	\$300.00	\$1,500.00	\$3 000.00	100.00%	5	3,000.00
W28	Temporary 2-inch Blow-Off Assembly installed and removed (Dwg 17-56-1) (7-09 3(22) & 7-09 5)	EA	7.00	\$300.00	\$2,100.00	\$1 300.00	\$9,100.00	100 00%		9,100.00
W29	16-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30 2(6))	EA	6 00	\$300.00	\$1,800 00	\$400.00	\$2,400 00	100 00%	\$	2,400.00
W30	8-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30.2(6))	EA	5 00	\$125.00	\$625.00	\$125.00	\$625.00	100 00%	\$	625 00
W31	6-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30.2(6))	EA	28 00	\$100.00	\$2,800.00	\$125 00	\$3,500.00	100 00%	\$	3,500.00
W32	4-inch Mechanical Joint Restraining Glands (7-14, 7-09 5 & 9-30.2(6))	EA	4.00	\$75.00	\$300.00	\$125 00	\$500.00	100.00%	S	500.00
W33	Concrete Thrust Anchor, installed (7-09.3(21) & 7-09.5)	EA	3 00	\$750.00	\$2,250 00	\$200.00	\$600.00	100 00%	\$	600.00
W34	Excavate, remove and dispose of existing valve chamber, piping, conduits and other appurtenances (7-05)	EA	9.00	\$5,000 00	\$45 000 00	\$3,000 00	\$27,000 00	100 00%	\$	27,000.00
W35	Adjust Existing Supply Manhole (7-05)	EA	5 00	\$1,000.00	\$5 000 00	\$3,800.00	\$19,000.00	100 00%	\$	19,000.00
W36	Adjust Supply Main Vent Pipe Adjustment (7-05)	EA	3.00	\$1 000 00	\$3,000 00	\$900.00	\$2,700.00	100.00%	\$	2,700.00
W37	Removal, haul and disposal of abandoned C I. pipe, all sizes. (2-02.3) (7-09 4 & 7-09 5)	LF	176.00	\$20.00	\$3 520 00	\$5 00	\$880.00	100.00%	\$	880.00
W38	Removal, haul and disposal of abandoned D1 pipe, all sizes (2-02-3) (7-09-4 & 7-09-5)	LF	232.00	S20 00	\$4,640.00	\$5.00	\$1,160.00	100.00%	\$	1,160.00
W38	Temporary Concrete Thrust Anchor, installed and removed (7-09.3(21) & 7-09.5)	EA	7.00	\$500.00	\$3,500.00	\$150.00	\$1,050.00	100.00%	5	1,050.00
W40	Trench Compaction Test (as directed by the Inspector) (7-09.3(11) & 7-09.5)	EA	41.00	\$150.00	S8,150.00	\$100.00	\$4,100.00	100 00%	Ş	4,100.00
W41	Test Holes (See Special Provisions) (7-09.3(6) & 7-09.5)	LS	1 00	\$7,500.00	\$7,500.00	\$4,000.00	\$4,000.00	100 00%	\$	4,000.00
W42	18-inch B/F Valve, M J , ANSI/AWWA, C504 with C.I Valve Box, installed	EA	8 00	\$4,175.00	\$33,400.00	\$5,000 00	\$40,000 00	100.00%	\$	40,000 00
W43	8-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box (7-12 & 9 30 3)	EA	4 00	\$1 975 00	\$7,900 00	\$4,200.00	\$16,800.00	100.00%	\$	16,800.00
W44	6-inch Gate Valve, M J , ANSI/AWWA, C509/515 with C I Valve Box (7-12 & 9 30.3)	EA	7 00	\$1,250.00	\$8,750.00	\$3,200.00	\$22,400.00	100 00%	5	22,400 00
W45	8-inch Tapping Sleeve. Installed (7-09 & 9-30.3)	EA	1.00	\$2,500.00	\$2,500.00	\$9,000.00	\$9,000 00	100 00%	\$	9,000.00
W48	8-inch Tapping Gate Valve M.J., ANSI/AWWA, C509/515 with C I. Valve Box (7-12 & 9.30.3)	EA	1 00	\$1,200.00	\$1,200.00	\$3,000.00	\$3,000.00	100.00%	s	3,000 00
W47	6-inch Hydrant, M.J., 4.5-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30 5(2))	EA	1.00	\$4,200.00	\$4,200.00	\$6,000.00	\$6,000.00	100.00%	s	6,000 00
W48	6-inch Hydrant, M.J., 5-5-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30-5(2))	EA	5 00	\$4,500.00	\$22 500 00	\$6,000 00	\$30,000 00	100.00%	Ś	30,000.00
W49	8-inch Hydrant, M J., 6 0-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30 5(2))	EA	1.00	\$4,750.00	\$4 750 00	\$6,200.00	\$6,200.00	100 00%	5	6,200.00
W50	Street cleaning with Self-propelled Pickup and Vacuum Street Sweeper Equipment (8- 01.3(8))	HR	34 00	\$250.00	\$8 500 00	\$220.00	\$7,480.00	100 00%		7,480.00
W51	Force Account (1-09.6)	EST	1 00	\$60,000.00	\$60,000 00	\$60,000.00	\$60,000.00	100.00%	\$	60,000 00
	Subtotal				\$ 729,645.00		\$ 773,704.60		s	773,704.60

Item	Description
Α	Water Bid from Schedule 3 (less Tax)
В	Shared Road Bid from Schedule 1
С	Total Water Costs (Less Tax)
D	Admin Costs (3% less FA)
	(C-\$60,000) x 3%
E	C&A Water total with 15% Contingency (less tax and Admin Cost)
	(C x 1 15)
F	Cumulative Total (less tax, less contingency)

	Amount
\$	773,704.60
S	6,130 25
\$	779,834 85
\$	21,595 05
s	896,810.07
\$	801,429.89