

8. Fee Proposal

ENGINEERING SERVICES FOR DISTRIBUTION SYSTEM IMPROVEMENTS TO TRENTON
WATER WORKS SYSTEM AS PART OF PHASE 1 – PENNINGTON REPLACEMENT PROJECT FOR
A PERIOD OF FOUR (4) YEARS

	Planned Hours	Billing Rates	Planned Bill
Total Project Summary:			
Task 1 - Design / Permitting - Phase 1 Off-site Water Distribution System Improvements	1,051.00		\$166,060.00
Task 2a - Total Bid Phase Services - Transmission Main and Fittings - Procurement Only	15.00		\$2,165.00
Task 2b - Total Bid Phase Services - Water Distribution Sytsem at Pennington	16.00		\$2,290.00
Task 2c - Total for Bid Phase Services - Furnishing & Installation Pressure Reducing Stations	16.00		\$2,290.00
Task 3a - Construction Phase Services - Phase 1 Off-Site Water Distribution Improvements	1,100.00		\$170,500.00
Task 3b - Construction Phase Services - Phase 1 Water Storage Tank Projects	2,646.00		\$406,120.00
Task 4 - TWW Operational Materials and Support	50.00		\$7,250.00
Task 5 - Allowance			\$120,000.00
Total for Trenton City Water Works - Phase 1 - Pennington Replacement Project	4,894.00		\$876,675.00

8. Fee Proposal

	Planned Hours	Billing Rates	Planned Bill
Task 1 - Design / Permitting (Phase 1 Off-site Water Distribution System Improvements)			
Data Collection & Document Review (3 separate bid packages)			
Cuthbert, Stephanie - Project Manager	1.00	\$190.00	\$190.00
Hubal, Mark - Senior Design Engineer	2.00	\$180.00	\$360.00
Marques, Timothy - Senior Design Engineer	12.00	\$180.00	\$2,160.00
Hayes, Ryan - Senior Engineering Tech	24.00	\$150.00	\$3,600.00
Hogan, Kalina - Senior Engineering Tech - Modeler	24.00	\$150.00	\$3,600.00
Total for Data Collection & Document Review	63.00		\$9,910.00
Design Memorandum (3 separate bid packages)			
Cuthbert, Stephanie - Project Manager	1.00	\$190.00	\$190.00
Hubal, Mark - Senior Design Engineer	8.00	\$180.00	\$1,440.00
Marques, Timothy - Senior Design Engineer	16.00	\$180.00	\$2,880.00
Hayes, Ryan - Senior Engineer Technician	48.00	\$150.00	\$7,200.00
Yoder, Dennis - QAQC	2.00	\$190.00	\$380.00
Total for Design Memorandum	75.00		\$12,090.00
Survey - Supplemental (if required)			
Adamson, Charles - Survey QAQC	2.00	\$180.00	\$360.00
Kordes Jr., Mark - Rodperson	48.00	\$125.00	\$6,000.00
Kordes, Mark - Party Chief	48.00	\$130.00	\$6,240.00
Savage, James - Draftsperson	52.00	\$155.00	\$8,060.00
Yorkiewicz, Brian - Survey Manager	4.00	\$175.00	\$700.00
Total for Survey - Supplemental	154.00		\$21,360.00
Plans & Specifications (3 separate bid packages)			
Cuthbert, Stephanie - Project Manager	8.00	\$190.00	\$1,520.00
Cameron, Matthew - Senior Draftsperson	90.00	\$155.00	\$13,950.00
Hubal, Mark- Senior Design Engineer	16.00	\$180.00	\$2,880.00
Marques, Timothy - Senior Design Engineer	80.00	\$180.00	\$14,400.00
Hayes, Ryan - Senior Engineer Technician	240.00	\$150.00	\$36,000.00
Mingle, Joseph - Design Engineer	16.00	\$180.00	\$2,880.00
Kramer, Kristin - Design Engineer	100.00	\$165.00	\$16,500.00
Meyer, Carl - Engineering Technican	4.00	\$125.00	\$500.00
Rodgers, Gail - Technical Aide	16.00	\$85.00	\$1,360.00
Yoder, Dennis - QAQC	6.00	\$190.00	\$1,140.00
Total for Plans & Specifications	576.00		\$91,130.00
Permitting			
Cuthbert, Stephanie - Project Manager	1.00	\$190.00	\$190.00
Marques, Timothy - Senior Design Engineer	16.00	\$180.00	\$2,880.00
Hogan, Kalina - Permitting	62.00	\$150.00	\$9,300.00
Hubal, Mark - Senior Design Engineer	2.00	\$180.00	\$360.00
Total for Permitting	81.00		\$12,730.00
NJ I Bank Support - Water Distribution System Improvements			
Kelley, Paul - Ibank Specialist	48.00	\$180.00	\$8,640.00
Total for NJ I Bank Support	48.00		\$8,640.00
Design Phase Meetings			
Cuthbert, Stephanie - Project Manager	18.00	\$190.00	\$3,420.00
Hubal, Mark - Senior Design Engineer	18.00	\$180.00	\$3,240.00
Marques, Timothy - Senior Design Engineer	18.00	\$180.00	\$3,240.00
Task 1 - Total for Design Phase Meetings	54.00		\$9,900.00
Expense - Mileage			\$300.00
TOTAL Task 1 - Design / Permitting (Phase 1 Off-site Water Distribution System Improvements)	1,051.00		\$166,060.00

8. Fee Proposal

	Planned Hours	Billing Rates	Planned Bill
Task 2a - Bid Phase Services Transmission Main & Fittings (Procurement Only)			
Cuthbert, Stephanie - Project Manager	1.00	\$190.00	\$190.00
Hubal, Mark - Senior Design Engineer	1.00	\$180.00	\$180.00
Hayes, Ryan - Senior Engineer Technician	10.00	\$150.00	\$1,500.00
Meyer, Carl - Technical Aide Reproduction	1.00	\$125.00	\$125.00
Rodgers, Gail - Technical Aide	2.00	\$85.00	\$170.00
Task 2a - Bid Phase Services Transmission Main & Fittings (Procurement Only)	15.00		\$2,165.00
Task 2b - Bid Phase Services - Water Distribution System Improvements			
Cuthbert, Stephanie - Project Manager	1.00	\$190.00	\$190.00
Hubal, Mark - Senior Design Engineer	1.00	\$180.00	\$180.00
Hayes, Ryan - Senior Engineer Technician	10.00	\$150.00	\$1,500.00
Meyer, Carl - Technical Aide Reproduction	2.00	\$125.00	\$250.00
Rodgers, Gail - Technical Aide	2.00	\$85.00	\$170.00
Task 2b - Bid Phase Services - Water Distribution System Improvements	16.00		\$2,290.00
Task 2c - Bid Phase Services - Furnishing & Installing Pressure Reducing Stations			
Cuthbert, Stephanie - Project Manager	1.00	\$190.00	\$190.00
Hubal, Mark - Senior Design Engineer	1.00	\$180.00	\$180.00
Hayes, Ryan - Senior Engineer Technician	10.00	\$150.00	\$1,500.00
Meyer, Carl - Technical Aide Reproduction	2.00	\$125.00	\$250.00
Rodgers, Gail - Technical Aide	2.00	\$85.00	\$170.00
Task 2c - Bid Phase Services - Furnishing & Installing Pressure Reducing Stations	16.00		\$2,290.00
Task 3a - Construction Phase Engineering & Inspection Services - Phase 1 Offsite Water Distribution System Improvements			
Cuthbert, Stephanie - Project Manager	8.00	\$190.00	\$1,520.00
Hubal, Mark- Senior Design Engineer	8.00	\$180.00	\$1,440.00
Marques, Timothy - Senior Engineer Technician	16.00	\$180.00	\$2,880.00
Hayes, Ryan - Senior Engineer Technician	32.00	\$150.00	\$4,800.00
Parent, Gabriel - Inspector	1,000.00	\$155.00	\$155,000.00
Brewer, William - Inspector	20.00	\$155.00	\$3,100.00
Valentine, Ronald - Contract Admin	16.00	\$110.00	\$1,760.00
Task 3a - Construction Phase Engineering & Inspection Services - Phase 1 Offsite Water Distribution System Improvements	1,100.00		\$170,500.00
Task 3b - Construction Phase Engineering & Inspection Services - Phase 1 Water Storage Tank Projects			
Cuthbert, Stephanie - Project Manager	6.00	\$190.00	\$1,140.00
Hubal, Mark- Senior Design Engineer	12.00	\$180.00	\$2,160.00
Kramer, Kristin - Senior Engineer Technician	48.00	\$165.00	\$7,920.00
Parent, Gabriel - Inspector	1,400.00	\$155.00	\$217,000.00
Stathakopolus, Chris - Inspector	1,100.00	\$150.00	\$165,000.00
Brewer, William - Inspector	20.00	\$155.00	\$3,100.00
Mitchel, Butler - Structural Engineer	40.00	\$165.00	\$6,600.00
Valentine, Ronald - Contract Admin	20.00	\$110.00	\$2,200.00
Expenses - Mileage			\$1,000.00
Total for Task 3b - Construction Phase Engineering & Inspection Services - Phase 1 Water Storage Tank Projects	2,646.00		\$406,120.00
Task 4 - Operational Materials & Support			
Cantwell, Joseph - Licensed Operator	50.00	\$145.00	\$7,250.00
Total for Task 4 - Operational Materials and Support	50.00		\$7,250.00
Allowance 1 -Unforeseen Conditions			
Allowance - if & where directed			\$120,000.00
Total for Allowance 1 - Unforeseen Conditions			\$120,000.00



Fee Proposal

Our fee for the work as defined in the RFP and as clarified by our approach and scope is \$1,990,965. This includes a \$120,000 allowance under Task 5 for unforeseen and miscellaneous services as requested by TWW that are outside of the tasks listed in the RFP and this proposal.

Approx. Average Billing Rates (2023-2026)						\$255	\$230	\$240	\$180	\$160	\$120	\$110	\$105	\$170	\$115
Task	Description	Hours	Labor Costs	Expenses	Total Costs	Sr. Project Manager	Project Manager	Senior Technologist	Senior Engineer	Project Engineer	Engineer	Jr. Engineer	CADD Technician	Sr. Resident Engineer	Resident Engineer
1	Design/Permitting Services - PH1 Off-Site Water Distribution Improvements	1,364	\$ 198,469	\$ 35,900	\$ 234,369	44	254		12	406	8	640			
2a	Bid Services - PH1 Off-Site Water Distribution Improvements Bid Package 1: Distribution System Improvements at Pennington Reservoir	79	\$ 13,109	\$ 2,250	\$ 15,359	1	20		8	28		22			
2b	Bid Services - Off-Site Water Distribution Improvements Bid Package 2: PRV Stations	63	\$ 9,916	\$ 1,125	\$ 11,041	1	10		8	26		18			
2c	Bid Services - Off-Site Water Distribution Improvements Bid Package 3: Main and Fittings (Procurement)	23	\$ 4,043	\$ 100	\$ 4,143		9			8		6			
3a	Construction Phase Engineering Services - Off-Site Water Distribution Improvements	2,925	\$ 412,282	\$ -	\$ 412,282		275	8	238		88	744	336	624	612
3b	Construction Phase Engineering Services - Prospect Street Water Storage Tank Project	6,835	\$ 1,137,600	\$ 4,500	\$ 1,142,100	482		130	1,234	70	212	704	246	3,437	320
4	TWW Operational Materials and Support	278	\$ 50,271	\$ 1,400	\$ 51,671	36		20		206	16				
5	TWW Defined Allowance			\$ 120,000	\$ 120,000										
Totals		11,567	\$ 1,825,690	\$ 165,275	\$ 1,990,965	564	568	158	1,500	744	324	2,134	582	4,061	932

8. Fee Proposal

We find that the effort necessary to successfully undertake and complete the Scope of Services described under the City of Trenton's RFP can be provided for the total, not to exceed cost, indicated below:

Task	Description	Sub-task No	Hours	Cost
1	Task 1: Design/Permitting Services	1. Survey	173	\$ 22,704.00
		2. Data Collection and Document Review	56	\$ 14,777.00
		3. Design Memorandum	88	\$ 15,176.00
		4. Construction Drawings and Technical Specifications for Six (6) PRV Stations	237	\$ 41,067.00
		5. Construction Drawings and Technical Specifications for Water Distribution System Improvements	255	\$ 44,211.00
		6. Permitting	73	\$ 12,846.00
		7. NJ I-Bank Application/Support	155	\$ 26,678.00
		8. Design Phase Meetings	60	\$ 10,728.00
2	Task 2: Bid Services	1. Bid Phase Services for Transmission Main and Fittings (Procurement Only)	48	\$ 8,330.00
		2. Bid Phase Services for Water Distribution System Improvements	59	\$ 10,232.00
		3. Bid Phase Services for Furnishing and Installing PRV Stations	59	\$ 10,232.00
		1. Construction Phase Services for Off-Site Water Distribution Improvements	2,041	\$ 308,883.00
		2. Construction Phase Services for the Prospect Street Water Storage Tank Project	6,561	\$ 986,506.00
4	Task 4: TWW Operational Materials and Support		75	\$ 13,654.00
		SUBTOTAL		\$1,526,024.00
D	Task 4: Allowance	ALLOWANCE	-	\$ 120,000.00
		TOTAL		\$1,646,024.00

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CME ASSOCIATES CME PROJECT NO. PTN00400.01 PROFESSIONAL SERVICES FOR: DISTRIBUTION SYSTEM IMPROVEMENTS CITY OF TRENTON - TRENTON WATER WORKS		The City of Trenton															
		HOUR AND COST BREAKDOWN SUMMARY															
		CME Professional Services Labor Manhours by Classification															
TASK	DESCRIPTION	Partner	Principal	Project Manager	Professional Engineer	Sr. Project Engineer	Project Engineer	Senior Design Engineer	Senior Construction Engineer	Party Chief	Survey Technician	Design Engineer	Technical Assistant	Senior CAD Technician	TOTAL HOURS	LABOR COSTS	
CME ASSOCIATES LABOR																	
1	Design/Permitting Services	7.00	127.00	12.00	0.00	0.00	326.00	490.00	0.00	75.00	50.00	0.00	24.00	16.00	1,127.00	\$ 188,187.00	
	Survey			8.00						75.00	50.00		24.00	16.00	173.00	\$ 22,704.00	
	Data Collection and Document Review		13.00				40.00	32.00							85.00	\$ 14,777.00	
	Design Memorandum		8.00				32.00	48.00							88.00	\$ 15,176.00	
	Construction Drawings and Technical Specifications for PRV Stations	2.00	31.00				68.00	136.00							237.00	\$ 41,067.00	
	Construction Drawings and Technical Specifications Water Dist. Sys.	2.00	35.00				72.00	146.00							255.00	\$ 44,211.00	
	Permitting	1.00	8.00	4.00			16.00	45.00							74.00	\$ 12,846.00	
	NJ I-Bank Application/Support	2.00	8.00				62.00	83.00							155.00	\$ 26,678.00	
	Design Phase Meetings		24.00				36.00								60.00	\$ 10,728.00	
2	Bid Services	3.00	34.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00	0.00	68.00	0.00	0.00	166.00	\$ 28,794.00	
	Bid Phase Services for Transmission Main and Fittings (Procurement)	1.00	10.00				17.00					20.00			48.00	\$ 8,330.00	
	Bid Phase Services for Water Distribution System Improvements	1.00	12.00				22.00					24.00			59.00	\$ 10,232.00	
	Bid Phase Services for Furnishing and Installing PRV Stations	1.00	12.00				22.00					24.00			59.00	\$ 10,232.00	
3	Construction Phase Engineering Services	12.00	0.00	290.00	84.00	963.00	87.00	0.00	7,883.00	37.00	27.00	0.00	47.00	13.00	8,643.00	\$ 1,295,389.00	
	Construction Phase Services for Off-Site Water Dist. Improvements	6.00		120.00	7.00	276.00	5.00		1,570.00	16.00	16.00		18.00	13.00	2,047.00	\$ 308,883.00	
	Construction Phase Services for Prospect Street Water Storage Tanks	6.00		170.00	77.00	687.00	82.00		5,513.00	21.00	11.00		29.00		6,596.00	\$ 986,506.00	
4	TWW Operational Materials and Support	1.00	8.00	0.00	66.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.00	\$ 13,654.00	
	BILLING RATE/HR (AS PER RATE SCHEDULE)	\$196.00	\$189.00	\$184.00	\$181.00	\$174.00	\$172.00	\$170.00	\$145.00	\$138.00	\$125.00	\$168.00	\$97.00	\$144.00	10,011.00	\$ 1,526,024.00	
											SUBTOTAL						\$ 1,526,024.00
											ALLOWANCE						\$ 120,000.00
											TOTAL						\$ 1,646,024.00



MUNICIPAL ENGINEERING SERVICES
GENERAL CONDITIONS AND HOURLY RATE SCHEDULE TO JANUARY 1, 2024

Senior Project Manager	\$185.00 Per Hour
Project Manager	\$184.00 Per Hour
Project Leader	\$183.00 Per Hour
Professional Engineer	\$181.00 Per Hour
Senior Project Engineer	\$174.00 Per Hour
Project Engineer	\$172.00 Per Hour
Senior Design Engineer	\$170.00 Per Hour
Design Engineer	\$166.00 Per Hour
Senior Engineering Technician	\$145.00 Per Hour
Drone Pilot	\$139.00 Per Hour
Engineering Technician/Management Information Systems Technician	\$138.00 Per Hour
Drone Technician	\$ 79.00 Per Hour
Professional Land Surveyor	\$181.00 Per Hour
Land Surveyor	\$159.00 Per Hour
Robotic Total Station	\$ 77.00 Per Hour
Party Chief	\$138.00 Per Hour
Survey Technician	\$125.00 Per Hour
Resident Engineer	\$159.00 Per Hour
Chief Construction Engineer	\$152.00 Per Hour
Senior Construction Engineer	\$145.00 Per Hour
Construction Engineer	\$140.00 Per Hour
Chief Construction Technician	\$138.00 Per Hour
Senior Construction Technician	\$131.00 Per Hour
Construction Technician	\$125.00 Per Hour
Technical Assistant	\$ 97.00 Per Hour
Senior CAD Technician	\$144.00 Per Hour
Licensed Landscape Architect	\$181.00 Per Hour
Senior Landscape Designer	\$165.00 Per Hour
Certified Tree Expert	\$145.00 Per Hour
Landscape Designer	\$131.00 Per Hour
Director of Planning	\$186.00 Per Hour
Professional Planner	\$185.00 Per Hour
Project Planner	\$176.00 Per Hour
Planning Technician	\$165.00 Per Hour
Principal	\$189.00 Per Hour
Partner	\$196.00 Per Hour
Managing Partner/Administrative Partner	\$217.00 Per Hour

Environmental services will be billed in accordance with CME's Environmental Rate Schedule

Invoices - CME Associates (CME) will submit invoices to Client monthly and a final invoice upon completion of services. Payment is due upon presentation of invoice and is past due thirty days from invoice date. Client agrees to pay a finance charge of one and one-half percent per month, or the maximum rate allowed by law, on past due accounts. In the event that the invoice is not paid voluntarily and promptly, and must therefore be referred to an attorney or agency for collection, the Client agrees to pay a collection fee equal to the actual attorney or agency collection fee incurred by CME. Overtime rates are applicable after eight hours Monday through Friday, and all day Saturday and Sunday, and charged at one and one-half times the quoted rate. Holidays are charged at two times the quoted rate. Expenses incurred for reproduction, postage handling, photographs and for services including subconsultants equipment and facilities not furnished by CME are charged to the Client at cost plus fifteen percent. Automobile travel may be charged at the current rate per mile allowed by the Internal Revenue Service.

Standard of Care - Services performed by CME under this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. NO OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

Contaminated Material - It is understood that CME is not, and has no responsibility as a handler, generator, operator, treater or storer, transporter or disposer of hazardous or toxic substances found or identified at any site. Client shall undertake or arrange for, either directly or indirectly through other contractors, the handling, removal, treatment, storage, transportation and disposal of hazardous substances or constituents found or identified at any site.

PROPOSED HOURLY RATES

REQUEST FOR PROPOSALS DISTRIBUTION SYSTEM IMPROVEMENTS TO TRENTON WATER WORKS SYSTEM PHASE 1 PENNINGTON REPLACEMENT PROJECT

Principal/Project Officer	\$175/hour
Senior Project Manager	\$173/hour
Project Manager	\$168/hour
Senior Project Licensed Professional	\$162/hour
Project Licensed Professional	\$155/hour
Licensed Professional	\$148/hour
Senior Project Coordinator	\$162/hour
Project Coordinator	\$160/hour
Senior Designer/Senior Survey Analyst	\$136/hour
Designer/Survey Analyst	\$128/hour
Senior Environmental Scientist	\$133/hour
Environmental Scientist	\$128/hour
Senior Project GIS Analyst	\$148/hour
Project GIS Analyst	\$138/hour
GIS Analyst	\$133/hour
Senior GIS Technician	\$123/hour
GIS Technician	\$113/hour
Senior GIS Project Coordinator	\$138/hour
GIS Project Coordinator	\$133/hour
Senior Inspector	\$123/hour
Inspector	\$113/hour
Senior Technician	\$118/hour
Technician	\$108/hour
Project Administrator	\$123/hour
Administrative Support	\$68/hour

Equipment Unit Cost:

⇒ Unmanned Aerial Systems/Remotely Operated Vehicle	\$150/hour
⇒ Robotic/LiDAR	\$50/hour
⇒ GPS	\$25/hour

LSRP Services Unit Cost:

⇒ For any environmental services requiring LSRP oversight and certification, a \$25/hour unit cost will be included in addition to the hourly rate for roles above.

Public Meeting Attendance: 2-hr. min. charge

Any actual disbursements and expenses which we incur on your behalf, such as subconsultant fees, delivery charges, parking, printing and toll charges will be billed at actual **cost-plus 15 percent**. Application/permit fees will be billed at cost.

Mileage will be billed in accordance with federal prevailing wage.



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PROPOSAL FEE BREAKDOWN

SCE-P12514.012

Syburban

STAFFING																	
PHASE DESCRIPTION	NOFO	PM	Sr. Proj. Licensed Professional	Licensed Professional	Sr. Designer, Survey Analyst	Designer/Survey Analyst	Sr. Environmentalist	Environmentalist	Sr. Proj. GIS Analyst	Proj. Administrator	Sr. Inspector	Inspector	Technician	Admin.	Total Hrs	Expenses	Total \$
Project 1: Distribution Improvements - Task 1 - Design/Permitting Services																	
Survey	24				82								77		183	\$ 3,000	\$ 27,438
Project Setup		40													40		\$ 6,720
Kickoff Meeting	8	16	16		8	8				8				8	72	\$ 300	\$ 10,620
Site Visit		8	8		8	8									32		\$ 4,752
Historical Documents		3			8	24									35		\$ 4,664
Basis of Design Report															0		\$ -
BODR Draft	2	10	8		16	60				8				8	112	\$ 35	\$ 14,745
BODR Internal Tech Review	8	8	8		16	16				8					72	\$ 25	\$ 9,817
BODR Final		8	8		8	24				8				8	64	\$ 50	\$ 8,378
30% Plans	8	28	16		60	200				4				8	324	\$ 150	\$ 43,642
30% Specs Water Distribution System		6			20	20				10				8	64	\$ 35	\$ 8,097
30% Specs PRV Chamber		6			20	20				10				8	64	\$ 35	\$ 8,097
Internal Review	8	8	8			8				4					36	\$ 150	\$ 5,706
Client Review	8	8	8			8				4					36	\$ 150	\$ 5,706
60% Plans	4	22	8		40	160				4				8	246	\$ 150	\$ 32,798
60% Specs Water Distribution System		13			80	20				20				8	141	\$ 50	\$ 18,678
60% Specs PRV Chamber		13			80	20				20				8	141	\$ 50	\$ 18,678
Internal Review	8	8	8			8				4					36	\$ 200	\$ 5,756
Client Review	8	8	8			8				4					36	\$ 200	\$ 5,756
90% Plans	4	18	8		20	60				4				8	122	\$ 150	\$ 16,606
90% Specs Water Distribution System		7			40	10				8				8	73	\$ 50	\$ 9,474
90% Specs PRV Chamber		7			40	10				8				8	73	\$ 50	\$ 9,474
Internal Review	8	8	8			8				4				8	44	\$ 200	\$ 6,300
Client Review	8	8	8			8				4				8	44	\$ 200	\$ 6,300
Final	4	18	8		16	34									80	\$ 225	\$ 11,773
Procurement for Pipes and Fitting																	
Plans	8	4	8							8				8	36	\$ 150	\$ 5,046
Specs	4	4	4							4				8	24	\$ 50	\$ 3,106
Water Distribution System Construction																	
Plans	8	4	8							8				8	36	\$ 150	\$ 5,046
Specs	4	4	4							4				8	24	\$ 50	\$ 3,106
PRV Chamber Construction																	
Plans	8	4	8							8				8	36	\$ 150	\$ 5,046
Specs	4	4	4							4				8	24	\$ 50	\$ 3,106
Permits																	
Mercer County Soil Conservation District	1	2		2		8				2				2	17	\$ 35	\$ 2,248
Mercer County Road Opening	8	10		10		64				8				8	108	\$ 35	\$ 14,315
BWSF Distribution Improvements	2	8	8			32				8				8	66	\$ 50	\$ 8,664
BWSF PRV Chamber	2	8	8			32				8				8	66	\$ 50	\$ 8,664
D&R Canal	1	2	4			8				2				2	19	\$ 35	\$ 2,600
T-Bank Support	2	20	8			20				4				4	58	\$ 1,270	\$ 9,600
EDD Final Report	2	8	8			16	16	8	8	8				8	82	\$ 40	\$ 11,334
SED Report Procurement	1	1				8				2				1	13	\$ 35	\$ 1,716
SED Report Water Distribution System Construction	1	1				8				2				1	13	\$ 35	\$ 1,716
Bid Schedule Procurement		1								4				1	6	\$ 25	\$ 753
Bid Schedule Water Distribution System Construction		1								4				1	6	\$ 25	\$ 753
Authorization to Award Procurement		4	2			8				2				3	19	\$ 88	\$ 2,558
Authorization to Award Water Distribution System Construction		4	2			8				2				3	19	\$ 88	\$ 2,558
Project 1: Distribution Improvements - Task 1 - Design/Permitting Services	166	373	212	12	562	954	16	8	8	236	0	0	77	218	2842	\$ 7,866	\$ 392,110
Project 1: Distribution Improvements - Task 2 - Bid Services																	
Procurement for Transmission Mains and Fitting																	
Provide Bid Documents		8	8			4				8				8	20		\$ 2,040
Pre-Bid Meeting						4									20		\$ 3,152
Addendum	1	2	2			4				3				3	15		\$ 1,920
Bid Report	1	2	2			8				2				1	16		\$ 2,173
Water Distribution System Construction																	
Provide Bid Documents						4				8				8	20		\$ 2,040
Pre-Bid Meeting		8	8			4									20		\$ 3,152
Addendum	1	2	2			4				3				3	15		\$ 1,920
Bid Report	1	2	2			8				2				1	16		\$ 2,173
PRV Chamber Construction																	
Provide Bid Documents						4				8				8	20		\$ 2,040
Pre-Bid Meeting		8	8			4									20		\$ 3,152
Addendum	1	2	2			4				3				3	15		\$ 1,920
Bid Report	1	2	2			8				2				1	16		\$ 2,173
Project 1: Distribution Improvements - Task 2 - Bid Services	6	36	36	0	0	60	0	0	0	39	0	0	0	36	213	\$ -	\$ 27,855
Project 1: Distribution Improvements - Task 3A.1 - Construction Phase Services Water Distribution System																	
Water Distribution System Construction																	
Construction Administration																	
Project Setup		8													0		\$ -
Pre-Construction Meeting	6	12								4				8	30	\$ 260	\$ 4,362
Notice-to-Proceed	2	2								4				4	12	\$ 50	\$ 1,500

PROPOSAL FEE BREAKDOWN

Suburban

PHASE DESCRIPTION	STAFFING																Total \$
	FIC/FO	PM	Sr. Proj. License/Professional	Licensed Professional	Sr. Designer/Sr. Survey Analyst	Designer/Survey Analyst	Sr. Environmental	Environmental	Sr. Proj. GR Analyst	Proj. Administrator	Sr. Inspector	Inspector	Technician	Admin	Total Hrs.	Expenses	
Shop Drawings (Assume 30)	2	30	30	30		60				30				30	212		\$ 28,100
RFIs (Assume 4)	4	8	16	16		16				4					8	72	\$ 10,088
Payment Applications (7 Months)	5	21								7				14	47	\$ 210	\$ 6,426
Monthly Progress Reports (7 Months)	5	21								14				14	54	\$ 177	\$ 7,254
Monthly Progress Meetings (7 Months)	14	21	7	7						7				14	70	\$ 420	\$ 10,381
Change Orders (8)	8	40	32	32						16				16	144	\$ 100	\$ 21,196
Communications with Contractor and Owner	3	8								30				30	71		\$ 7,599
Communication with NJDEP	3	8								7				7	25	\$ 105	\$ 3,311
Weekly Contractor Coordination Meeting	5	30	7							30				60	132	\$ 150	\$ 14,969
NJDEP File Maintenance		8								7				7	22	\$ 250	\$ 2,931
SED Labor Interviews and Submissions		8								7				14	29		\$ 3,157
Observation															0		\$ -
Full-time											880				880	\$ 1,500	\$ 109,740
Part-Time											168				168	\$ 504	\$ 21,168
Pre-Construction Meeting											24				24		\$ 2,952
Notice-To-Proceed											4				4		\$ 492
Shop Drawings (Assume 30)											30				30		\$ 3,690
RFIs (Assume 4)											8				8		\$ 984
Payment Applications (7 Months)											21				21		\$ 2,583
Monthly Progress Reports (7 Months)											28				28		\$ 3,444
Monthly Progress Meetings (7 Months)											14				14		\$ 1,722
Change Orders (8)											24				24		\$ 2,952
Communications with Contractor and Owner											60				60		\$ 7,380
Communication with NJDEP											14				14		\$ 1,722
Weekly Contractor Coordination Meeting											60				60		\$ 7,380
NJDEP File Maintenance											14				14		\$ 1,722
SED Labor Interviews and Submissions											14				14		\$ 1,722
Commence Operations											168				168		\$ 20,664
As-Builts (50 Sheets)											50				50		\$ 6,150
Commence Operations											0				0		\$ -
Engineer Witness and Inspection	8	16	24												48	\$ 300	\$ 8,276
Project Closeout															0		\$ -
As-Builts (Assume 50 Sheets)	5	12	25		150									50	242	\$ 175	\$ 30,916
One-Year Anniversary Performance Record Certification	2	8	4							2				2	18	\$ 50	\$ 2,774
Project 1: Distribution Improvements - Task 3A.1 - Construction Phase Services Water Dist. System	72	261	145	85	150	76	0	0	0	169	1581	0	0	278	2817	\$ 4,251	\$ 361,051
Project 1: Distribution Improvements - Task 3A.2 - Construction Phase Services PRV Chambers																	
Construction Administration															0		\$ -
Project Setup		8													8		\$ 1,344
Notice-To-Proceed	2	2								4				4	12	\$ 50	\$ 1,500
Shop Drawings (Assume 30)	2	30	30	30		60				30				30	212		\$ 28,100
RFIs (Assume 2)	4		16	16		16				4				8	64		\$ 8,744
Payment Applications (6)	6	18								9				18	51	\$ 270	\$ 6,075
Monthly Progress Reports (6)	6	18								18				18	60	\$ 228	\$ 7,740
Monthly Progress Meetings (6)	19	18	9	9						9				18	82	\$ 540	\$ 12,010
Change Orders (1)	4	16	16	16						36				9	70	\$ 100	\$ 10,167
Communications with Contractor and Owner		9		18						36				36	99		\$ 11,052
Weekly Contractor Coordination Meeting	10	36	36							36				72	190	\$ 540	\$ 23,494
Observation															0		\$ -
Full-time											360				360	\$ 720	\$ 45,000
Part-Time											240				240	\$ 720	\$ 30,240
Pre-Construction Meeting											6				6		\$ 738
Notice-To-Proceed											2				2		\$ 246
Shop Drawings (Assume 30)											30				30		\$ 3,690
RFIs (Assume 4)											8				8		\$ 984
Payment Applications (9 Months)											27				27		\$ 3,321
Monthly Progress Reports (9 Months)											36				36		\$ 4,428
Monthly Progress Meetings (9 Months)											18				18		\$ 2,214
Change Orders (4)											12				12		\$ 1,476
Communications with Contractor and Owner											36				36		\$ 4,428
Weekly Contractor Coordination Meeting											72				72		\$ 8,856
Commence Operations											168				168		\$ 20,664
As-Builts (50 Sheets)											50				50		\$ 6,150
Commence Operations											0				0		\$ -
Engineer Witness and Inspection	8	24	42												74	\$ 480	\$ 12,716
Project Closeout															0		\$ -
As-Builts (50 Sheets)	5	10	25		150									50	240	\$ 517	\$ 30,922
One-Year Anniversary Performance Record Certification	2	8	4							2				2	18	\$ 50	\$ 2,774
Project 1: Distribution Improvements - Task 3A.2 - Construction Phase Services PRV Chambers	68	197	178	89	150	76	0	0	0	157	1065	0	0	265	2245	\$ 4,215	\$ 289,673
Project 1: Distribution Improvements - Task 3A.3 - Construction Phase Services Procurement for Transmission Mains and Fitting																	
Construction Administration															0		\$ -
Project Setup		8													8		\$ 1,344
Notice-To-Proceed	2	2								4				4	12	\$ 50	\$ 1,500
Shop Drawings (Assume 15)	2	15	15			45				15				15	107		\$ 13,925

PROPOSAL FEE BREAKDOWN

Juburban

STAFFING																	
PHASE DESCRIPTION	PHOTO	PM	Sr. Proj. Engineer	Assistant Professional	Sr. Designer/Sr. Survey Analyst	Map/Survey Analyst	Sr. Environmental	Environmental	Sr. Proj. GIS Analyst	Proj. Administrator	As. Inspector	Inspector	Production	Admin.	Total Hrs	Expenses	Total \$
RFIs (Assume 2)	2	4	4			8				2				4	24		\$ 3,212
Payment Applications (Assume 3)	3	6				9				6				6	30	\$ 90	\$ 3,921
Monthly Progress Reports (Assume 3)	3	6	3							6				12	30	\$ 76	\$ 3,649
Monthly Progress Meetings (Assume 3)	3	6	3							6				12	30	\$ 180	\$ 3,753
Change Orders (1)	1	3	2							2				4	12	\$ 100	\$ 1,621
Communications with Contractor and Owner	3	9								9				9	30		\$ 3,756
Communication with NJDEP	3	6				6				3				9	27	\$ 45	\$ 3,327
NJDEP File Maintenance		4				16				8				16	44	\$ 250	\$ 5,042
Project 1: Distribution Improvements - Task 3A.3 -Construction Phase Services Pipe And Fitting Procurement	22	69	27	0	0	84	0	0	0	61	0	0	0	91	354	\$ 791	\$ 45,050
Project 1: Storage Tanks - Task 3B - Construction Phase Services Prospect Street Water Storage Tanks Project																	
Construction Administration															0		
Pre-Construction Meeting	6	12								4				8	30	\$ 260	\$ 4,362
Notice-To-Proceed	2	2								4				4	12	\$ 50	\$ 1,500
Shop Drawings (Assumed 40 Shop Drawing and 25 Materials Tests)	9	40	130			130				40				65	414		\$ 55,335
RFIs (Assumed 5)	5	10	40							5				5	65		\$ 9,990
Payment Applications (33 Months)	26	99								66				33	224	\$ 875	\$ 32,419
Monthly Progress Reports (33 Months)	33	99								66				33	231	\$ 875	\$ 33,644
Monthly Progress Meetings (33 Months)	66	99	66							66				33	330	\$ 2,100	\$ 51,336
Change Orders (Assumed 5)	5	20	42							5				5	77	\$ 100	\$ 12,094
Communications with Contractor and Owner	8	40								10				15	73		\$ 10,370
Communication with NJDEP	8	40								10				15	73	\$ 525	\$ 10,895
Weekly Contractor Coordination Meeting	10	120	33							10				66	239	\$ 715	\$ 33,689
NJDEP File Maintenance		20								35					55	\$ 250	\$ 7,915
SED Labor Interviews and Submissions		20								33				66	119		\$ 11,907
Observation															0		\$ -
Full-time												4704			4704	\$ 1,980	\$ 533,532
Part-Time												302			302	\$ 906	\$ 35,032
Pre-Construction Meeting											8	16			24		\$ 2,792
Notice-To-Proceed												4			4		\$ 452
Shop Drawings (Assumed 40 Shop Drawing and 25 Materials Tests)												40			40		\$ 4,520
RFIs (Assumed 5)												5			5		\$ 565
Payment Applications (33 Months)										99		165			264		\$ 30,822
Monthly Progress Reports (33 Months)												165			165		\$ 18,645
Monthly Progress Meetings (33 Months)										99		165			264		\$ 30,822
Change Orders (Assumed 5)												20			20		\$ 2,260
Communications with Contractor and Owner										33		66			99		\$ 11,517
Communication with NJDEP										33		66			99		\$ 11,517
Weekly Contractor Coordination Meeting										150		150			300		\$ 35,400
NJDEP File Maintenance										35		75			110		\$ 12,780
SED Labor Interviews and Submissions												66			66		\$ 7,458
Commence Operations										20		160			180		\$ 20,540
Project Closeout										30		172			202		\$ 23,126
As-Builts (41 Sheets)												40			40		\$ 4,320
Commence Operations															0		\$ -
Engineer Witness and Inspection	8	40	100							10				10	168	\$ 600	\$ 26,830
Project Closeout															0		\$ -
As-Builts (41 Sheets)	2	41	82		160					10				8	303	\$ 517	\$ 44,573
One-Year Anniversary Performance Record Certification	2	8	4							2				2	18	\$ 50	\$ 2,774
Project 1: Storage Tanks - Task 3B - Construction Phase Services	190	710	497	0	160	130	0	0	0	376	507	6381	0	368	9319	\$ 9,803	\$ 1,135,933
Project 1: Distribution Improvements - Task 4 - TWW Operational Materials and Support																	
Revise Emergency Response Plan	2	14	10	30		40				16				8	120	\$ 125	\$ 16,519
Standard Operating Procedures (5)	2	14	40	100		120				16				16	308	\$ 150	\$ 42,548
ERP Training (6 sessions @ 2 hrs)		14	48	24		24				16				8	134	\$ 215	\$ 19,479
															0		\$ -
Project 1: Distribution Improvements - Task 4 - TWW Operational Materials and Support	4	42	98	154	0	184	0	0	0	48	0	0	0	32	562	\$ 490	\$ 78,546
Project 1: Distribution Improvements - Task 5 - Allowance																	
Allowance															0	\$ 120,000	\$ 120,000
Project 1: Distribution Improvements - Task 5 - Allowance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 120,000	\$ 120,000
Total Hours	528	1688	1193	340	1022	1564	16	8	8	1086	3153	6381	77	1288	18352	\$ 147,415	\$ 2,450,218
Fee Structures	175	168	162	148	136	128	166.5	128	155	123	123	113	118	68			
Total	\$ 92,400	\$ 283,584	\$ 193,266	\$ 50,320	\$ 138,992	\$ 200,192	\$ 2,664	\$ 1,024	\$ 1,240	\$ 133,578	\$ 387,819	\$ 721,053	\$ 9,086	\$ 87,584		CHECK	\$ 2,450,218

ENVIRONMENTAL RESOLUTIONS, INC.
COST PROPOSAL



CC2022-03

ENGINEERING SERVICES FOR DISTRIBUTION SYSTEM IMPROVEMENTS TO TRENTON WATER WORKS
SYSTEM AS PART OF PHASE 1 -
PENNINGTON REPLACEMENT PROJECT FOR A PERIOD OF FOUR (4) YEARS
CITY OF TRENTON, NJ
Tuesday, December 13, 2022
PROPOSAL SUMMARY SHEET

PROJECT #1: CONSTRUCTION ENGINEERING SERVICES FOR THE INSTALLATION OF STORAGE TANKS AT
942 PROSPECT STREET

Total Cost for Labor and Expenses, Project #1 (iBANK FUNDS): \$ 1,632,920.00
**Fees based on 640 calendar days for the construction contract plus 60 days for project closeout activities*

PROJECT #2: DESIGN, BIDDING & CONSTRUCTION PHASE ENGINEERING SERVICES FOR PHASE 1 OFF-SITE WATER DISTRIBUTION SYSTEM IMPROVEMENTS (iBANK FUNDS)

Total Cost for Labor and Expenses, Project #2 (iBANK FUNDS) \$ 1,000,695.00
**Fees based on 210 calendar days for the design, permitting and bidding portion of the project, 245 calendar days for the construction contract plus 60 days for project closeout activities.*

PROJECT #2: DESIGN, BIDDING & CONSTRUCTION PHASE ENGINEERING SERVICES FOR PHASE 1 OFF-SITE WATER DISTRIBUTION SYSTEM IMPROVEMENTS (CAPITAL FUNDED)

Total Cost for Labor and Expenses, Project #2 (CAPITAL FUNDS) \$ 685,750.00
** Fees as shown represent number of man hours required based on 60 days for design and bidding with 80 days for construction completion plus 60 days for project closeout activities.*

TOTAL COSTS FOR PROJECT #1 AND PROJECT #2: \$ 3,319,365.00

ENVIRONMENTAL RESOLUTIONS, INC.
 CC2022-03
 ENGINEERING SERVICES FOR DISTRIBUTION SYSTEM IMPROVEMENTS TO TRENTON WATER WORKS SYSTEM AS PART OF PHASE 1 -
 PENNINGTON REPLACEMENT PROJECT FOR A PERIOD OF FOUR (4) YEARS
 CITY OF TRENTON, NJ
 Tuesday, December 13, 2022
 PENNINGTON RESERVOIR REPLACEMENT PROJECT : PHASE 1

	Principal Officer	Project Managers/ Engineers	Engineering Associates	Construction Management and Observation	Total Hours for Task	Total \$/Task
PROJECT 1C: CMCI FOR INSTALLATION OF TWO (2) NEW STORAGE TANKS AT 942 PROSPECT STREET	William H. Kirchner, PE, CME, N-2	Jennifer Harris, PE Karen Hermack, PE	Eric Pluckhon, EIT Katherine Villacis, EIT	John Potts, NICET III John Scott, NICET III Andrew Pisarcik		
	\$180.00	\$155.00	\$120.00	\$115.00		
Loan Administration/Management	200	250	250	0	700	\$ 104,750.00
Progress Reporting	0	304	0	423	727	\$ 95,765.00
Meetings & Site Visits	128	212	162	156	658	\$ 93,280.00
Project Oversight	152	2157	998	610	3917	\$ 551,605.00
Construction Inspection Tasks	16	16	16	6776	6824	\$ 786,520.00
TOTAL HOURS FOR LABOR	496	2939	1426	7965	12826	
TOTAL LABOR COSTS PROJECT #1	\$89,280.00	\$455,545.00	\$171,120.00	\$915,975.00		\$1,631,920.00

SUMMARY	
Mileage	\$1,000.00
Total Labor Costs from Above	\$1,631,920.00
TOTAL PROJECT COST FOR PROJECT 1:	\$ 1,632,920.00

* Fees as shown represent number of man hours required for construction based on 674 calendar days for construction completion plus 44 days for project closeout activities.

ENVIRONMENTAL RESOLUTIONS, INC.
 CC2022-03
 ENGINEERING SERVICES FOR DISTRIBUTION SYSTEM IMPROVEMENTS TO TRENTON WATER WORKS SYSTEM AS PART OF PHASE 1 -
 PENNINGTON REPLACEMENT PROJECT FOR A PERIOD OF FOUR (4) YEARS
 CITY OF TRENTON, NJ
 Tuesday, December 13, 2022
 PENNINGTON RESERVOIR REPLACEMENT PROJECT : PHASE 1

	Principal Engineer & QA/QC Professional	Project Engineers	Engineering Associates	Construction Management and Observation	Licensed Surveyor	Robotic Field Crew	Drafter	Structural Engineer	Total Hours for Task	Total \$/Task
PROJECT ID.: OFF-SITE WATER DISTRIBUTION SYSTEM IMPROVEMENTS - PIPING	William H. Kirchner, PE, CME, N-2	Jennifer Harris, PE Karen Hermack, PE	Eric Pluckhron, EIT Katherine Villacis, EIT	John Potts, NICET III John Scott, NICET III Andrew Pisarcik	John Dura, PLS	Ethan Hyder, CST II	David Hudson	Martin Dragan, PE		
	\$180.00	\$155.00	\$120.00	\$115.00	\$165.00	\$160.00	\$120.00	\$165.00		
TASK 1 - DESIGN/PERMITTING SERVICES										
a. Data Collection and Document Review	42	104	182	2	20	130	0	0	480	\$ 69,850.00
b. Design Memorandum	18	50	120	0	0	0	0	0	188	\$ 25,390.00
c. Plans and Specifications	230	351	280	28	0	0	424	64	1377	\$ 194,065.00
d. Permitting	20	60	70	0	0	0	0	0	150	\$ 21,300.00
e. NJ iBank Application and Support	96	240	104	0	0	0	0	0	440	\$ 66,960.00
f. Design Meetings	12	24	12	0	0	0	0	0	48	\$ 7,320.00
TOTAL HOURS TASK 1	418	829	768	30	20	130	424	64	2,483	
TOTAL LABOR COSTS TASK 1	\$75,240.00	\$128,495.00	\$92,160.00	\$3,450.00	\$3,300.00	\$20,800.00	\$50,880.00	\$10,560.00		\$384,985.00
TASK 2 - BID SERVICES										
a. Provide Services during Bid Period	0	12	48	0	0	0	0	0	60	\$ 7,620.00
b. Provide Services during Bid Period	4	8	4	0	0	0	0	0	16	\$ 2,440.00
c. Provide Services during Bid Period	4	16	4	4	0	0	0	0	28	\$ 4,140.00
d. Provide Services during Bid Period	8	32	16	0	0	0	0	0	56	\$ 8,320.00
e. Provide Services during Bid Period	4	4	8	0	0	0	0	0	16	\$ 2,300.00
TOTAL HOURS TASK 2	20	72	80	4	0	0	0	0	176	
TOTAL LABOR COSTS TASK 2	\$3,600.00	\$11,160.00	\$9,600.00	\$460.00	\$0.00	\$0.00	\$0.00	\$0.00		\$24,920.00
TASK 3 - CONSTRUCTION PHASE ENGINEERING SERVICES										
a. Construction Management Services	233	1024	693	396	14	27	0	0	2387	\$ 335,990.00
b. Meeting and Site Visits	34	236	42	86	0	0	0	0	398	\$ 57,630.00
c. Construction Inspection Tasks	14	27	54	1400	5	30	21	0	1551	\$ 182,330.00
d. Deliverables	8	8	64	32	0	0	0	0	112	\$ 14,040.00
TOTAL HOURS TASK 3	289	1295	853	1914	19	57	21	0	4448	
TOTAL LABOR COSTS TASK 3	\$52,070.00	\$200,725.00	\$102,360.00	\$220,110.00	\$3,135.00	\$9,120.00	\$2,520.00	\$0.00		\$581,460.00
TOTAL HOURS PROJECT #2 - iBANK FUNDED	727	2196	1701	1948	39	187	445	64	7307	
TOTAL LABOR COSTS PROJECT #2 - iBANK FUNDED	\$130,860.00	\$340,380.00	\$204,120.00	\$224,020.00	\$6,435.00	\$29,920.00	\$53,400.00	\$10,560.00		\$999,695.00

SUMMARY	
Mileage	\$1,000.00
Total Labor Costs from Above	\$999,695.00
TOTAL PROJECT COST FOR PROJECT #2:	\$ 1,000,695.00

* Fees as shown represent number of man hours required based on 541 days for design, permitting, bidding and construction completion plus 44 days for project closeout activities.

ENVIRONMENTAL RESOLUTIONS, INC.
CC2022-03
ENGINEERING SERVICES FOR DISTRIBUTION SYSTEM IMPROVEMENTS TO TRENTON WATER WORKS SYSTEM AS PART OF PHASE 1 -
PENNINGTON REPLACEMENT PROJECT FOR A PERIOD OF FOUR (4) YEARS
CITY OF TRENTON, NJ
Tuesday, December 13, 2022
PENNINGTON RESERVOIR REPLACEMENT PROJECT : PHASE 1

	Principal Engineer & QA/QC Professional	Project Engineers	Engineering Assistants	Construction Management and Observation	Licensed Surveyor	Robotic Field Crew	Drafter	Structural Engineer	Total Hours for Task	Total \$/Task
PROJECT ID.: OFF-SITE WATER DISTRIBUTION SYSTEM IMPROVEMENTS - PRESSURE REDUCING VALVES	William H. Kirchner, PE, CME, N-2	Jennifer Harris, PE Karen Hermack, PE	Eric Phukchon, EIT Katherine Villacts, EIT	John Potts, NICET III John Scott, NICET III Andrew Plareik	John Dura, PLS	Ethan Hyder, CST II	David Hudson	Martin Dragan, PE		
	\$180.00	\$155.00	\$120.00	\$115.00	\$165.00	\$160.00	\$120.00	\$165.00		
TASK 1 - DESIGN/PERMITTING SERVICES										
a. Data Collection and Document Review	42	104	182	2	20	235	0	0	585	\$ 86,650.00
b. Design Memorandum	18	50	120	0	0	0	0	0	188	\$ 25,390.00
c. Plans and Specifications	204	332	288	28	0	0	452	72	1376	\$ 192,080.00
d. Permitting	20	50	70	0	0	0	0	0	140	\$ 19,750.00
e. NJ iBank Application and Support	0	0	0	0	0	0	0	0	0	\$ -
f. Design Meetings	12	24	12	0	0	0	0	0	48	\$ 7,320.00
TOTAL HOURS TASK 1	296	560	672	30	20	235	452	72	2,337	
TOTAL LABOR COSTS TASK 1	\$53,280.00	\$86,400.00	\$80,640.00	\$3,450.00	\$3,300.00	\$37,600.00	\$54,240.00	\$11,580.00		\$331,190.00
TASK 2 - BID SERVICES										
a. Provide Services during Bid Period	0	12	48	0	0	0	0	0	60	\$ 7,620.00
b. Provide Services during Bid Period	4	8	4	0	0	0	0	0	16	\$ 2,440.00
c. Provide Services during Bid Period	4	16	4	4	0	0	0	0	28	\$ 4,140.00
d. Provide Services during Bid Period	8	32	16	0	0	0	0	0	56	\$ 8,320.00
e. Provide Services during Bid Period	4	4	8	0	0	0	0	0	16	\$ 2,300.00
TOTAL HOURS TASK 2	20	72	80	4	0	0	0	0	176	
TOTAL LABOR COSTS TASK 2	\$3,600.00	\$11,160.00	\$9,600.00	\$460.00	\$0.00	\$0.00	\$0.00	\$0.00		\$24,020.00
TASK 3 - CONSTRUCTION PHASE ENGINEERING SERVICES										
a. Construction Management Services	101	488	341	191	6	13	0	0	1140	\$ 159,775.00
b. Meeting and Site Visits	34	192	62	54	0	0	0	0	342	\$ 49,530.00
c. Construction Inspection Tasks	6	13	26	700	4	34	32	0	815	\$ 96,655.00
d. e. Deliverables	20	20	88	48	0	0	0	0	176	\$ 22,780.00
TOTAL HOURS TASK 3	161	713	517	993	10	47	32	0	2473	
TOTAL LABOR COSTS TASK 3	\$26,980.00	\$110,515.00	\$62,040.00	\$114,195.00	\$1,650.00	\$7,520.00	\$3,840.00	\$0.00		\$581,460.00
TOTAL HOURS PROJECT #2 - iBANK FUNDED	477	1345	1269	1027	30	282	484	72	4986	
TOTAL LABOR COSTS PROJECT #2 - iBANK FUNDED	\$85,860.00	\$208,475.00	\$152,280.00	\$118,105.00	\$4,950.00	\$45,120.00	\$58,080.00	\$11,580.00		\$684,750.00

SUMMARY	
Mileage	\$1,000.00
Total Labor Costs from Above	\$684,750.00
TOTAL PROJECT COST FOR PROJECT #2: \$	685,750.00

* Fees as shown represent number of man hours required based on 270 days for design and bidding with 90 days for construction completion plus 30 days for project closeout activities.

08. Fee Proposal

Below we present Arcadis' proposed fee and a tabular breakdown of labor and expenses for the project.

Fee Table


	Task	Hours	Hourly Rate	Labor	Subs	Expenses	Total Not-to-Exceed Fee
1	Design / Permitting (Off-site Distribution Improvements)	1441	\$ 129.26	\$ 186,257	\$ 13,228	\$ 288	\$ 199,772
2A	Bid Services (Transmission Main & Fittings Procurement)	37	\$ 147.83	\$ 5,470	\$ -	\$ 440	\$ 5,910
2B	Bid Services (Distribution System Improvements)	57	\$ 147.28	\$ 8,395	\$ -	\$ 1,100	\$ 9,495
2C	Bid Services (PRV Stations)	50	\$ 135.48	\$ 6,774	\$ -	\$ 770	\$ 7,544
3A	Construction Admin (Off-site Distribution Improvements)	461	\$ 136.18	\$ 62,777	\$ -	\$ 2,640	\$ 65,417
3B	Construction Admin (Water Storage Tanks)	3997	\$ 129.94	\$ 519,368	\$ -	\$ 21,450	\$ 540,818
4	Operations Support	218	\$ 150.26	\$ 32,756	\$ -	\$ 288	\$ 33,044
	TOTAL	6261	\$ 131.26	\$ 821,797	\$ 13,228	\$ 26,976	\$ 862,000

Note: A general allowance of \$120,000 will also be included upon execution of the contract.

Labor Table

	Task	Principal-in-Charge	Principal Engineer I	Senior Engineer/Scientist II	Senior Engineer/Scientist I	Staff Engineer	Design Tech II	TOTAL
1	Design / Permitting (Off-site Distribution Improvements)	12	243	93	625	0	468	1441
2	Bid Services (Transmission Main & Fittings Procurement)	0	4	10	19	4	0	37
2B	Bid Services (Distribution System Improvements)	0	5	11	36	5	0	57
2C	Bid Services (PRV Stations)	0	4	10	0	36	0	50
3A	Construction Admin (Off-site Distribution Improvements)	0	28	66	38	329	0	461
3B	Construction Admin (Water Storage Tanks)	6	148	46	50	3747	0	3997
4	Operations Support	0	15	86	67	50	0	218
	TOTAL	18	447	322	835	4171	468	6261

Distribution System Imps Phase I - Pennington Reservoir Replacement Project CC2022-03	UNIT PRICE FORM									<div>B &L</div>						
	TITLE	Senior Vice President	Vice-President	Assoc/ Sr. Assoc	Senior Managing Engr	Project/ Staff Engineer	Engineer II	Engineer I	RPR	Date: 12/9/2022 File: 702.4735						
	SCOPE OF SERVICES										TOTALS PER TASK					
										Total Labor			Allowance	Sub	Expenses	TOTAL
RATE/HR		\$ 220	\$ 220	\$ 205	\$ 185	\$ 138	\$ 126	\$ 98	\$ 110					1.15		
	Hours															
1.0 DESIGN/PERMITTING SERVICES (OFF-SITE ONLY)																\$342,078
1.a DATA COLLECTION / DOC REVIEW				8	32	32	40	80		\$24,856				\$50,000		\$74,856
1.b DESIGN MEMORANDUM		2		4	40	60	80	120		\$38,780						\$38,780
1.c PLANS/SPECS																
CONTRACT 1 - MAIN AND FITTINGS PROCUREMENT				10		40	80	80		\$25,490						\$25,490
CONTRACT 2 - WATER SYSTEM IMPS (PENNINGTON)		2		36	60	120	180	180		\$75,800					\$200	\$76,000
CONTRACT 3 - PRV STATIONS		2		36	60	120	200	200		\$80,280					\$400	\$80,680
1.d PERMITTING		2		24			20	80		\$15,720						\$15,720
1.e NJ WATER BANK APP/SUPPORT		4	24	8	8			60		\$15,160					\$3,500	\$18,660
1.f DESIGN PHASE MEETINGS				8	24	24				\$9,392					\$2,500	\$11,892
2.0 BID SERVICES (OFF-SITE ONLY)																\$56,350
2.a PLANS/SPECS REPRO																
CONTRACT 1 - MAIN AND FITTINGS PROCUREMENT				2		2		12		\$1,862					\$1,500	\$3,362
CONTRACT 2 - WATER SYSTEM IMPS (PENNINGTON)				2		2		12		\$1,862					\$1,500	\$3,362
CONTRACT 3 - PRV STATIONS				2		2		12		\$1,862					\$1,500	\$3,362
2.b BID QUESTIONS				2	4		12	24		\$5,014						\$5,014
CONTRACT 1 - MAIN AND FITTINGS PROCUREMENT				2				4		\$802						\$802
CONTRACT 2 - WATER SYSTEM IMPS (PENNINGTON)				8				16		\$3,208						\$3,208
CONTRACT 3 - PRV STATIONS				8				16		\$3,208						\$3,208
2.c PRE-BID																
CONTRACT 1 - MAIN AND FITTINGS PROCUREMENT	NO PRE-BID ASSUMED FOR PROCUREMENT									\$0						\$0
CONTRACT 2 - WATER SYSTEM IMPS (PENNINGTON)				16				32		\$6,416					\$2,500	\$8,916
CONTRACT 3 - PRV STATIONS				16				32		\$6,416					\$2,500	\$8,916
2.d ADDENDA				2	2	4	12	32		\$5,980						\$5,980
CONTRACT 1 - MAIN AND FITTINGS PROCUREMENT				2				4		\$802						\$802
CONTRACT 2 - WATER SYSTEM IMPS (PENNINGTON)				4				8		\$1,604						\$1,604
CONTRACT 3 - PRV STATIONS				4				8		\$1,604						\$1,604
2.e BID EVALUATION				2	2	2	2	8		\$2,092						\$2,092
CONTRACT 1 - MAIN AND FITTINGS PROCUREMENT					2		4	4		\$1,266						\$1,266
CONTRACT 2 - WATER SYSTEM IMPS (PENNINGTON)					2		4	8		\$1,658						\$1,658
CONTRACT 3 - PRV STATIONS				2				8		\$1,194						\$1,194
3.0 CONSTRUCTION PHASE SERVICES																\$1,144,086
3.a.1 TECHNICAL PROJECT REP (PROSPECT ST. TANKS)					324			900		\$148,140					\$45,000	\$193,140
3.a.2 TECHNICAL PROJECT REP (PENNINGTON/PRVs)					336			720		\$132,720					\$30,000	\$162,720
3.b.1 RESIDENT REP (PROSPECT ST. TANKS)									3120	\$343,200				\$34,500	\$27,000	\$404,700
3.b.2 RESIDENT REP (PENNINGTON)									2080	\$228,600					\$18,000	\$246,600

Distribution System Imps Phase I - Pennington Reservoir Replacement Project CC2022-03	UNIT PRICE FORM																
	TITLE	Senior Vice President	Vice-President	Assoc/ Sr. Assoc	Senior Managing Engr	Project/ Staff Engineer	Engineer II	Engineer I	RPR	Date: 12/9/2022 File: 702.4735							
	SCOPE OF SERVICES									TOTALS PER TASK							
											Total Labor			Allowance	Sub	Expenses	TOTAL
RATE/HR		\$ 220	\$ 220	\$ 205	\$ 185	\$ 138	\$ 126	\$ 98	\$ 110					1.15			
3.b.3 RESIDENT REP (PRV STATIONS)									1040	\$114,400						\$9,000	\$123,400
3.c O&M MANUALS				2	2	8	16			\$3,900							\$3,900
3.d RECORD DOCUMENTS					2	8	32	40		\$9,426							\$9,426
4.0 TWW OPERATIONAL MATERIALS AND SUPPORT																	\$46,076
4.1 ERP UPDATE					8			40		\$5,400					\$1,500		\$6,900
4.2 SOP UPDATE				16	40		60	72		\$25,296							\$25,296
4.3 IN-PERSON TRAINING					16		40	60		\$13,880							\$13,880
5.0 ALLOWANCE													\$120,000				\$120,000
HOURS TOTAL		12	24	226	964	424	782	2,872	6,240								
DIRECT PAY		\$ 2,640	\$ 5,280	\$ 46,330	\$ 178,340	\$ 58,512	\$ 98,532	\$ 281,456	\$ 686,400								
TOTAL		\$ 2,640	\$ 5,280	\$ 46,330	\$ 178,340	\$ 58,512	\$ 98,532	\$ 281,456	\$ 686,400	\$1,357,490			\$120,000	\$84,500	\$146,600	\$1,588,590	
LABOR TOTAL										\$ 1,357,490							
SUBCONSULTANTS										\$ 84,500							
EXPENSES										\$ 146,600							
FEE TOTAL										\$1,588,590							
ALLOWANCE										\$ 120,000							
FEE TOTAL + ALLOWANCE										\$ 1,708,590							