



PROPOSED BUDGET FOR THE TOWN OF JOHNSTOWN OUTFALL SYSTEM PLAN

PROJECT: <i>Johnstown Outfall System Plan</i> CLIENT: <i>Town of Johnstown</i>								ODC's	Totals	
ACE PROPOSAL NO.: <i>XCOTOJ2024.01</i> PREPARED BY: <i>JDD/BAS</i> DATE: <i>02/15/2024</i>		Principal Engineer I \$165/hr	Project Engineer II \$135/hr	Engineer II \$115/hr	Engineer I \$110/hr	GIS/CAD Technician II \$110/hr	Project Assistant \$85/hr	Other Direct Costs		
Task/Description	Hours	Hours	Hours	Hours	Hours	Hours	Cost	Hours	Cost	
1 PROJECT COORDINATION AND DATA GATHERING	86	0	162	100	80	8	\$600	436	\$128,900	
Kickoff Meeting	6	0	6	0	0	0	\$50		\$1,730	
Progress Meetings	46	0	32	0	0	0	\$50		\$11,320	
Community Engagement Workshops/Coordination with Stakeholders	16	0	12	0	8	8	\$200		\$5,780	
Information Gathering	6	0	60	20	8	0	\$0		\$10,970	
Conditions Assessment	6	0	40	20	4	0	\$0		\$8,230	
GPRS -- Support for Conditions Assessment (allowance for CCTV data collection)									\$25,000	
Field Verifications	6	0	12	60	60	0	\$300		\$15,870	
Majestic Surveying -- Support for Field Verifications (allowance for field survey)									\$50,000	
2 GIS DATA REVIEW AND GIS DEVELOPMENT	20	0	20	0	200	0	\$0	240	\$27,600	
Review and Evaluate Existing Town GIS Data and Schema	10	0	10	0	80	0	\$0		\$11,600	
GIS Dashboard Development	10	0	10	0	120	0	\$0		\$16,000	
3 STORMWATER MASTER PLAN PREPARATION	122	80	560	230	160	20	\$500	1172	\$140,430	
3.1 EXISTING CONDITION MODELING AND IDENTIFICATION OF DRAINAGE ISSUES	40	60	360	140	100	0	\$0	700	\$82,500	
Subbasin Delineation	8	0	80	20	20	0	\$0		\$14,920	
Development of Hydrologic Parameters, Land Use, Rainfall Data, and Subbasin Runoff CUHP Model	8	0	40	20	40	0	\$0		\$12,520	
Development of SWMM Hydrograph Routing Model	16	60	200	80	40	0	\$0		\$46,940	
Hydraulic Evaluation of Existing Drainage Facilities and Problem ID	8	0	40	20	0	0	\$0		\$8,120	
3.2 FUTURE CONDITION MODELING ASSUMING ON-SITE DETENTION	20	20	160	70	40	0	\$0	310	\$36,500	
Development of Hydrologic Parameters, Land Use, and Subbasin Runoff CUHP Model	8	0	40	0	20	0	\$0		\$8,120	
Development of SWMM Hydrograph Routing Model With On-Site Detention	8	20	100	60	20	0	\$0		\$24,320	
Hydraulic Evaluation of Existing Drainage Facilities With Future Condition Hydrology	4	0	20	10	0	0	\$0		\$4,060	
3.3 REPORTING	62	0	40	20	20	20	\$500	162	\$21,430	
30% Submittal	14	0	8	8	4	4	\$0		\$4,890	
60% Submittal	12	0	8	8	4	4	\$0		\$4,560	
90% Submittal	20	0	12	4	8	4	\$0		\$6,340	
Final Report	16	0	12	0	4	8	\$500		\$5,640	
4 10-YEAR CAPITAL IMPROVEMENT PLAN	40	0	140	40	20	12	\$200	252	\$30,520	
Formulate Conceptual Stormwater Management Improvement Alternatives	10	0	60	20	8	0	\$0		\$11,630	
Develop Recommendations for Water Quality and Other Environmental Requirements	8	0	8	0	4	0	\$0		\$2,680	
Prepare Conceptual Design and Cost Estimates for Selected Plan of Improvements	12	0	40	0	0	0	\$0		\$6,580	
Develop Prioritization Matrix and Standalone Report	10	0	32	20	8	12	\$200		\$9,630	
5 RATE STUDY	20	0	20	0	0	0	\$0	40	\$21,576	
Review and Evaluate Existing Town Stormwater and Development Rate Fees	10	0	10	0	0	0	\$0		\$2,800	
Future Rate Implementation Planning	10	0	10	0	0	0	\$0		\$2,800	
Honey Creek Resources -- Support for Rate Study/Implementation Planning									\$15,976	
TOTAL PROJECT HOURS FOR ACE	288	80	902	370	460	40		2140		
TOTAL PROJECT BUDGET	\$47,520	\$10,800	\$103,730	\$40,700	\$50,600	\$3,400	\$1,300		\$349,026	

TOWN OF JOHNSTOWN

STORMWATER MASTER PLAN



Stormwater Master Plan											
Town of Johnstown											
2/16/2024	PIC	PM	SME QA/QC	Modeling	GIS						
	Olson	Greiman	Roth / File / Fuentes	Bussen	Gwartney	Fling					
	Principal	Project Manager II	Senior Project Manager	Senior Project Engineer	Project Manager II	Designer I	Benesch Total Hours	Benesch Labor Fee	Benesch Mileage	Sub Consultants	Sub-Task Fees
	Hourly Rates:	\$ 250	\$ 192	\$ 215	\$ 165	\$ 192	\$ 104				
Design											
Subs											
UMS - SUE (\$25,000 allowance)		1					1	\$192			\$ 192
Eugene Lynne - Field Survey (\$25,000 allowance)		1					1	\$192			\$ 192
CCTV - Paul's Anytime (\$25,000 allowance)		1					1	\$192			\$ 192
GovRate - Rate Study		1					1	\$192			\$ 192
Benesch											
1) Project Coordination/Data Gathering											
a) Project Meetings											
i) Kick-Off Meeting	2	2	6				10	\$2,174			\$ 2,174
ii) Initial Agency Workshop	2	2	6	2	2	2	16	\$3,096			\$ 3,096
iii) Project Management Team and Technical Focus Meetings (Progress)	10	10	40	4	4	4	72	\$14,864			\$ 14,864
b) Public and Stakeholder Involvement/Open Houses	4	16	16				16	\$9,176			\$ 9,176
c) Project Management	2	22					24	\$4,724			\$ 4,724
d) Project Schedule		4	2				6	\$1,198			\$ 1,198
e) Information Gathering		8	16	16		40	80	\$11,776	\$ 385		\$ 12,161
f) Conditions Assessment		8	16			40	64	\$9,136	\$ 385		\$ 9,521
g) Field Verifications		8	8			40	56	\$7,416	\$ 385	\$ 75,000	\$ 82,801
h) QA/QC		16	40	8	8		72	\$14,528			\$ 14,528
2) GIS Data Review and GIS Dashboard Development											
a) Review Existing GIS						80	80	\$15,360			\$ 15,360
b) GIS Updates						160	160	\$30,720			\$ 30,720
c) Incorporate New Project Lists						40	40	\$7,680			\$ 7,680
3) Stormwater Master Plan Preparation											
a) Review of Available Modeling and Studies			12	40		40	92	\$13,340			\$ 13,340
b) Local and Regional Watershed Delineation			16	40		40	96	\$14,200			\$ 14,200
c) Identification of High Flood Risk Areas			20	80		40	140	\$21,660			\$ 21,660
d) Remaining Asset Life			2	4		40	46	\$5,250			\$ 5,250
e) Develop PC-SWMM Models			16	200		120	336	\$48,920			\$ 48,920
f) Review and Calibrate Models			2	24			26	\$4,390			\$ 4,390

g) Identification of System Deficiencies and High Risk Infrastructure Failure			2	8		24	34	\$4,246			\$ 4,246
h) Identification of Proposed Conveyance			2	8		24	34	\$4,246			\$ 4,246
i) Flood Reduction Alternatives			16	40		80	136	\$18,360			\$ 18,360
j) Assessment of Alternative Scenarios			16	40		80	136	\$18,360			\$ 18,360
k) Report											
i) CIP Project Descriptions	2	8				24	34	\$4,532			\$ 4,532
ii) Draft Reports (30%/60%/90%)	8	120				40	168	\$29,200			\$ 29,200
iii) Final Report	4	40				20	64	\$10,760			\$ 10,760
l) City Council Presentations	8	8	8				24	\$5,256	\$ 103		\$ 5,359
4) 10-Year Capital Improvement Plan											
a) Evaluation of Benefits		8			8	8	24	\$3,904			\$ 3,904
b) Cost		8			20	8	36	\$6,208			\$ 6,208
c) Recommended Projects		8	8	8		40	64	\$8,736			\$ 8,736
d) Prioritization Criteria		40	8				48	\$9,400			\$ 9,400
e) Develop Final List and Sequencing		16	16			40	72	\$10,672			\$ 10,672
5) Rate Study											
a) Benesch Support		2	2				4	\$814		\$ 24,000	\$ 24,814
Total	42	358	296	522	322	810	2350	\$ 374,302	\$ 1,258	\$ 99,000	\$ 475,328

<u>Position</u>	<u>Hourly Rate</u>
Professional 1	127
Professional 2	155
Professional 3	173
Professional 4	200
Professional 5	234
Professional 6	267
Construction Manager 1	110
Construction Manager 2	136
Construction Manager 3	148
Construction Manager 4	185
Construction Manager 5	223
Construction Manager 6	254
Construction Representative 1	98
Construction Representative 2	110
Construction Representative 3	136
Construction Representative 4	148
CAD Technician/Designer 1	108
CAD Technician/Designer 2	139
CAD Technician/Designer 3	172
Corporate Project Support 1	103
Corporate Project Support 2	124
Corporate Project Support 3	165
Intern / Coop	63
Senior Advisor	175

Rates for In-House Services and Equipment

<u>Mileage</u>	<u>Bulk Printing and Reproduction</u>		<u>Equipment</u>		
Standard IRS Rates		<u>B&W</u>	<u>Color</u>	Valve Crew Vehicle (hour)	\$75
	Small Format (per copy)	\$0.10	\$0.25	Pressure Data Logger (each)	\$200
	Large Format (per sq. ft.)			Water Quality Meter (per day)	\$100
	Bond	\$0.25	\$0.75	Microscope (each)	\$150
	Glossy / Mylar	\$0.75	\$1.25	Pressure Recorder (per day)	\$100
	Vinyl / Adhesive	\$1.50	\$2.00	Ultrasonic Thickness Guage (per day)	\$275
				Coating Inspection Kit (per day)	\$275
	Mounting (per sq. ft.)	\$2.00		Flushing / Cfactor (each)	\$500
	Binding (per binding)	\$0.25		Backpack Electrofisher (each)	\$1,000
				<u>Survey Grade</u>	<u>Standard</u>
				Drone (per day)	\$200 \$100
				GPS (per day)	\$150 \$50

OTHER DIRECT EXPENSES:

Other direct expenses are reimbursed at actual cost times a multiplier of 1.05. They include outside printing and reproduction expense, communication expense, travel, transportation and subsistence away from the FNI office. For other miscellaneous expenses directly related to the work, including costs of laboratory analysis, test, and other work required to be done by independent persons other than staff members, these services will be billed at a cost times a multiplier of 1.05. For Resident Representative services performed by non-FNI employees and CAD services performed In-house by non-FNI employees where FNI provides workspace and equipment to perform such services, these services will be billed at cost times a multiplier of 2.0. This markup approximates the cost to FNI if an FNI employee was performing the same or similar services.

FEE PROPOSAL



Statement of Qualifications for

COMPREHENSIVE STORMWATER MASTER PLAN

ICON
ENGINEERING

February 16, 2024



PROPOSED FEE

PROJECT: Johnstown Stormwater Management Plan

CLIENT: Town of Johnstown



PREPARED BY: JKD CHECKED BY: CDJ DATE: 2024-02-06	ICON Engineering, Inc.										Subconsultants					Subconsultant Total Services	Total Services
	Principal	Project Manager III	Project Manager III	Project Engineer I	Design Engineer II	CAD Technician I	GIS Specialist	Admin	ICON Misc. Direct	ICON Total	DHM Landscape Architecture	NHN Public Outreach	Caliber Eng Rate Study	Kinetic CCTV	105 West Survey		
	Craig	Jaclyn	Jeremy	Monica	Josie	Cassie/Samantha	Zenia	Angie	Costs								
	\$215 Hours	\$205 Hours	\$200 Hours	\$170 Hours	\$140 Hours	\$105 Hours	\$115 Hours	\$72 Hours									
Task 1: Project Coordination and Data Gathering										\$ 68,268.00						\$ 93,085.00	\$ 161,353.00
a.1 Project Administration: Project setup, budgeting, and contract administration	4							24		\$ 2,588.00						\$ -	\$ 2,588.00
a.2 Kick-off Meeting: Prepare agendas, presentation, and meeting minutes		8	4		4				\$400	\$ 3,400.00						\$ -	\$ 3,400.00
b.1 Progress Meetings: Plan review at 30, 60, 90% Milestones with the Town and stakeholders invited by the Town. ICON will prepare agendas, presentations, minutes		12	12		12					\$ 6,540.00						\$ -	\$ 6,540.00
c.1 Community Engagement Workshops:3 workshops assumed. Coordination with Town and stakeholders to present flooding concerns and master plan concepts		8			24	24				\$ 7,520.00	\$7,585	\$22,500				\$ 30,085.00	\$ 37,605.00
c.2 Community Engagement: Create and maintain project page to aid in communication. Project page will have a place for citizens to provide comments and inform team of known flooding issues					4		12			\$ 1,940.00						\$ -	\$ 1,940.00
d.1 Coordination with Stakeholders: ICON will reach out to adjacent communities early on in the process in order to incorporate their input into the Master Plan.		12			12					\$ 4,140.00						\$ -	\$ 4,140.00
e.1 Coordination Meetings: Assumes twice a month between Town and ICON to keep project on schedule and on budget		36	12	12	54					\$ 19,380.00						\$ -	\$ 19,380.00
f.1 Information Gathering: Research existing plans and reports, drainage reports, studies, as-built data, review historic data. Information obtained will be incorporated into the GIS database.					40		24			\$ 8,360.00						\$ -	\$ 8,360.00
f.2 Information Gathering: Obtain and review Town storm drainage GIS database and existing information on storm drainage system, meeting with maintenance crew to determine concerns with existing system and typical maintenance practices.		4			4		8			\$ 2,300.00						\$ -	\$ 2,300.00
f.3 Information Gathering: Review existing master plan and hydrologic and hydraulic modeling into to utilize past information where possible.			2		8					\$ 1,520.00						\$ -	\$ 1,520.00
f.4 Information Gathering: Review Town's utility GIS database, obtain GIS Shapefiles for existing land use, future land use, parcels, jurisdictional boundary and include in the GIS Database							8			\$ 920.00						\$ -	\$ 920.00
g.1 Conditions Assessment: Additional CCTV inspections will be required to fill in any gaps in the system. The team will determine what pipes will need to be inspected and will provide CCTV inspection of those segments.						8	4			\$ 1,300.00			\$25,000			\$ 25,000.00	\$ 26,300.00
g.2 Conditions Assessment: Review and compile existing bridge inspections. These inspections will be added to the GIS data base.						8	4			\$ 1,300.00						\$ -	\$ 1,300.00
g.3 Conditions Assessment: Review and document existing system material type and condition per the GIS data and CCTV runs. This information will also be included in the GIS database.						8	4			\$ 1,300.00						\$ -	\$ 1,300.00
g.4 Conditions Assessment: Site visits to document existing land use, existing vegetation and verification of drainage areas				8	8				\$400	\$ 2,880.00						\$ -	\$ 2,880.00
h.1 Field Verifications- additional survey data and existing site condition verification			4		12				\$400	\$ 2,880.00				\$38,000		\$ 38,000.00	\$ 40,880.00
										\$ -						\$ -	\$ -
Task 2: GIS Data Review and Dashboard Development										\$ 9,290.00						\$ -	\$ 9,290.00
a.1 GIS: Create a GIS compatible dashboard for the project to organize and document the Town's assets	4	2	2		2		20			\$ 4,250.00						\$ -	\$ 4,250.00
a.3 GIS: Evaluate Existing GIS Data and Schema			2		2		8			\$ 1,600.00						\$ -	\$ 1,600.00
a.3 GIS: Update Existing GIS Data and Schema and fill in gaps per the direction of the Town Staff, incorporate as-built plans and information into the GIS database			2		2		8			\$ 1,600.00						\$ -	\$ 1,600.00
b.1 GIS: Update GIS to include existing storm facilities and storm modeling parameters							8			\$ 920.00						\$ -	\$ 920.00
c.1 GIS: Proposed Project integration into the GIS dashboard							8			\$ 920.00						\$ -	\$ 920.00
										\$ -						\$ -	\$ -
Task 3: Master Plan Development										\$ 128,590.00						\$ -	\$ 172,510.00
a.1 Hydrologic Model Development: Regional watershed delineation and basin parameters historic conditions needed to create a Historic Conditions CUHP model.	4		4		54		4			\$ 9,680.00						\$ -	\$ 9,680.00
a.2 Hydrologic Model Development: Regional watershed delineation and basin parameters future conditions needed to create a Future Conditions CUHP model.			4		24		2			\$ 4,390.00						\$ -	\$ 4,390.00
a.3 Hydrologic Model Development: Local watershed delineation and basin parameter historic conditions needed to create a Historic Conditions CUHP model.			4		40		2			\$ 6,630.00						\$ -	\$ 6,630.00
a.4 Hydrologic Model Development: Local watershed delineation and basin parameter future conditions needed to create a Future Conditions CUHP model.			4		16		2			\$ 3,270.00						\$ -	\$ 3,270.00
a.5 Hydrologic Model Development: CUHP model creation (2-, 5-, 10-, 25-, 50-, 100-year, 500-yr EX & FUT)			1		8					\$ 1,320.00						\$ -	\$ 1,320.00
b.1 2D Model: Two-Dimensional Inundation modeling to verify flow conditions			2		8		2			\$ 1,750.00						\$ -	\$ 1,750.00
c.1 Ditch Analysis: 2D dynamic ditch model set up to verify flow spill locations and spill quantities. Surface will be obtained from lidar data and supplemented by field survey.			2	60			4			\$ 11,060.00						\$ -	\$ 11,060.00
c.2 Ditch Analysis: Ditch inflows and modeling (2-, 5-, 10-, 25-, 50-, 100-year, 500-yr EX & FUT). Inflows from CUHP and SWMM will be input into the model as inflow hydrographs. Spills will be determined and outflow hydrographs will be exported.			2	4	8					\$ 2,200.00						\$ -	\$ 2,200.00
c.3 Ditch Analysis: Ditch spill location exhibits				2	4		8			\$ 1,820.00						\$ -	\$ 1,820.00
d.1 SWMM Development: Existing storm conveyance system will be set up in EPA SWMM model to analyze the existing system and drainage facilities.			2		40					\$ 6,000.00						\$ -	\$ 6,000.00
d.2 SWMM Development: Existing detention ponds will be input into the EPA SWMM model per the drainage reports reviewed in above tasks			2		24					\$ 3,760.00						\$ -	\$ 3,760.00
d.3 SWMM Development: Field verification/survey will be required to obtain information that is needed to complete the model as well as to verify the GIS information received for the project. As-built information will be used where possible and simple assumptions will be made to remain cost effective.			2		16					\$ 2,640.00				\$12,000		\$ 12,000.00	\$ 14,640.00



PROPOSED FEE



PROJECT: Johnstown Stormwater Management Plan

CLIENT: Town of Johnstown

PREPARED BY: JKD CHECKED BY: CDJ DATE: 2024-02-06		ICON Engineering, Inc.										Subconsultants						Subconsultant Total Services	Total Services
		Principal	Project Manager III	Project Manager III	Project Engineer I	Design Engineer II	CAD Technician I	GIS Specialist	Admin	ICON Misc. Direct	ICON Total	DHM Landscape Architecture	NHN Public Outreach	Caliber Eng Rate Study	Kinetic CCTV	105 West Survey			
		Craig \$215 Hours	Jaclyn \$205 Hours	Jeremy \$200 Hours	Monica \$170 Hours	Josie \$140 Hours	Cassie/Samantha \$105 Hours	Zenia \$115 Hours	Angie \$72 Hours	Costs									
d.4	SWMM Development: Ditch outflow hydrographs will be input into the model as inflow hydrographs.			2	4	8					\$ 2,200.00						\$ -	\$ 2,200.00	
d.5	SWMM Development: Existing conditions EPA SWMM model troubleshooting			4	8	12					\$ 3,840.00						\$ -	\$ 3,840.00	
e.1	DRAFT Master Plan (30%): Two-Dimensional Inundation Mapping to help assist in proposed improvements and to help review the model for accuracy.			2		8	24	12			\$ 5,420.00						\$ -	\$ 5,420.00	
e.2	DRAFT Master Plan (30%): Prepare baseline Hydrology & Hydraulics Report section of Master Plan			4	24	40	12	12			\$ 13,120.00	\$12,500					\$ 12,500.00	\$ 25,620.00	
e.3	DRAFT Master Plan (30%): Internal QA/QC	4									\$ 820.00						\$ -	\$ 820.00	
e.4	DRAFT Master Plan (30%): 30% submittal					24					\$ 3,360.00						\$ -	\$ 3,360.00	
f.1	DRAFT Master Plan (60%): Address comments from 30% submittal			2		40					\$ 6,000.00						\$ -	\$ 6,000.00	
f.2	DRAFT Master Plan (60%): Revise CUHP/SWMM models and adjust report to reflect comments from the Town.				24						\$ 4,080.00	\$8,500					\$ 8,500.00	\$ 12,580.00	
f.3	DRAFT Master Plan (60%): Internal QA/QC	2									\$ 410.00						\$ -	\$ 410.00	
f.4	DRAFT Master Plan (60%): 60% submittal					12	8	8			\$ 3,440.00						\$ -	\$ 3,440.00	
g.1	DRAFT Master Plan (90%): Address comments from 60% submittal			2		40					\$ 6,000.00						\$ -	\$ 6,000.00	
g.2	DRAFT Master Plan (90%): Revise CUHP/SWMM models and adjust report to reflect comments from the Town.				12						\$ 2,040.00	\$4,785					\$ 4,785.00	\$ 6,825.00	
g.3	DRAFT Master Plan (90%): Internal QA/QC	2									\$ 410.00						\$ -	\$ 410.00	
g.4	DRAFT Master Plan (90%): 90% submittal					12	8	8			\$ 3,440.00						\$ -	\$ 3,440.00	
h.1	FINAL Master Plan: Address comments from 90% submittal			2		40					\$ 6,000.00						\$ -	\$ 6,000.00	
h.2	FINAL Master Plan: Revise models and adjust report				12						\$ 2,040.00	\$3,000					\$ 3,000.00	\$ 5,040.00	
h.3	FINAL Master Plan: Internal QA/QC	2									\$ 410.00						\$ -	\$ 410.00	
h.4	FINAL Master Plan: 90% submittal					12	8	8			\$ 3,440.00						\$ -	\$ 3,440.00	
i.1	Stormwater Master Plan Presentation	2	4	4	4	4	12				\$ 3,830.00						\$ -	\$ 3,830.00	
i.2	Stormwater Master Plan Presentation: PowerPoint Presentation	1				12					\$ 1,885.00						\$ -	\$ 1,885.00	
i.3	Stormwater Master Plan Presentation : Supplemental Materials	1				12					\$ 1,885.00						\$ -	\$ 1,885.00	
Task 4: 10-Year Capital Improvement Plan											\$ 63,195.00						\$ 18,400.00	\$ 81,595.00	
a.1	Capital Plan: Identify system deficiencies and provide exhibits that demonstrate the deficiencies.	4		4	8	8	24	12			\$ 8,040.00						\$ -	\$ 8,040.00	
a.2	Capital Plan: Internal QA/QC Reviews		8								\$ 1,640.00						\$ -	\$ 1,640.00	
b.1	Capital Plan (30%): Proposed improvements concepts and plan views (initial submittal will not include profiles)					40	24				\$ 8,120.00	\$9,150					\$ 9,150.00	\$ 17,270.00	
b.2	Capital Plan (30%): Proposed improvements EPA SWMM and ditch modeling based on comments from the Town.			2		24	4				\$ 4,180.00						\$ -	\$ 4,180.00	
b.3	Capital Plan (30%): Proposed water quality improvements			2		16	12				\$ 3,900.00						\$ -	\$ 3,900.00	
c.1	Capital Plan (60%): Proposed improvements plan and profiles			2	16	40	40				\$ 12,920.00	\$3,250					\$ 3,250.00	\$ 16,170.00	
c.2	Capital Plan (60%): Revise Proposed improvements EPA SWMM and ditch modeling based on comments from Town.					12					\$ 1,680.00						\$ -	\$ 1,680.00	
c.3	Capital Plan (60%): Proposed water quality improvements adjustments and CUHP/SWMM modeling adjustments per comments from the Town.					4					\$ 560.00						\$ -	\$ 560.00	
c.4	Capital Plan (60%): Cost estimates of proposed improvements	4				8					\$ 1,940.00						\$ -	\$ 1,940.00	
d.1	Capital Plan (90%): Revise proposed improvements and resubmit					4					\$ 560.00	\$2,500					\$ 2,500.00	\$ 3,060.00	
d.2	Capital Plan (90%): Revise Proposed improvements EPA SWMM and ditch modeling based on comments from Town					4					\$ 560.00						\$ -	\$ 560.00	
d.3	Capital Plan (90%): Proposed water quality improvements adjustments and CUHP/SWMM modeling adjustments per comments from the Town.					4					\$ 560.00						\$ -	\$ 560.00	
d.4	Capital Plan (90%): Revise cost estimates based on comments from Town		1			2					\$ 485.00						\$ -	\$ 485.00	
e.1	Capital Plan (Final): Revise proposed improvements and resubmit					16					\$ 2,240.00	\$1,500					\$ 1,500.00	\$ 3,740.00	
e.2	Capital Plan (Final): Periodization matrix based on project ranking scorecards. Improvements will be ranked based on a comprehensive ranking matrix. The items included in the matrix will be discussed and agreed upon by the team and Town. Example items to include in matrix: cost benefit, Level of service, risk of flooding, resiliency, water quality, and public support. The projects	1	2	2		24					\$ 4,385.00	\$2,000					\$ 2,000.00	\$ 6,385.00	
e.3	Capital Plan (Final): 10-year cost analysis to determine ways to fund the projects over 10-years		4								\$ 820.00						\$ -	\$ 820.00	
e.4	Capital Plan (Final): Prepared detailed planning level cost estimates for proposed improvement. A sustainable design approach will be used as possible.			2		8					\$ 1,520.00						\$ -	\$ 1,520.00	
e.5	Capital Plan (Final): Draft cost benefit analysis of proposed improvements. A simplified cost benefit analysis will be performed to help direct project recommendations and grant funding possibilities.			4	12	24		4			\$ 6,660.00						\$ -	\$ 6,660.00	
e.6	Capital Plan (Final): GIS integration. The proposed projects will be integrated into the GIS dashboard created for this project.							12			\$ 1,380.00						\$ -	\$ 1,380.00	
e.7	Capital Plan (Final): Funding and Design Recommendations. Funding options will be explored includes grants, loans and public-private partnerships to fund future projects	2	3								\$ 1,045.00						\$ -	\$ 1,045.00	
Task 5: Rate Study											\$ 10,040.00						\$ 15,000.00	\$ 19,590.00	
a.1	Rate Study: Financial Analysis of Stormwater Improvements (10-Years)	4	6			24					\$ 5,450.00		\$15,000				\$ 15,000.00	\$ 19,590.00	
a.2	Rate Study: Alternative Rate Structures (10-Years)		6			24					\$ 4,590.00						\$ -	\$ -	
Total Hours		23	130	109	210	992	212	228	24	\$ 1,200.00							\$ -		
Total Fees		\$4,945	\$26,650	\$21,800	\$35,700	\$138,880	\$22,260	\$26,220	\$1,728	\$ 1,200.00	\$ 279,383.00	\$54,770	\$22,500	\$15,000	\$25,000	\$50,000	\$167,270	\$446,653	



ICON ENGINEERING

7000 South Yosemite St, Suite 120

Centennial, CO 80112

(303) 221-0802

iconeng.com

Fee Proposal

PROJECT:
Town of Johnstown Stormwater Master Plan

DATE:
02/15/24

			VP	Sr. Assoc	Assoc	Prof IX	Prof VIII	Prof VII	Prof VI	Prof V	Prof IV	Prof III	Prof II	Prof I
ITEM	DESCRIPTION	ITEM COST	\$235	\$200	\$190	\$170	\$160	\$150	\$140	\$130	\$120	\$110	\$100	\$90
1	Project Coordination and Data Gathering													
1.1	Meetings	\$16,900	20		40				20					20
1.2	Community and stakeholder engagement	\$10,940	4	20	10			10		20				
1.3	Information gathering	\$15,580	4	4	16			20	20	20	20			
1.4	Conditions Assessment	\$15,440	4	4	10		10	20		20	20	20		
1.5	Field verifications	\$15,970	2		10		10	20	20			20	40	
	SUBTOTAL	\$74,830	34	28	86	0	20	70	60	60	40	40	40	20
2	GIS Data Review and Dashboard Development													
2.1	Data gap analysis	\$32,280	8	10	40	20		20	20	40	20		40	
2.2	Database design and development	\$39,380	8	10	40	10	10	20	20	40	80		40	
2.3	Utility network	\$36,480	8	10	20			40	40	80	40	40		
2.4	Dashboard	\$24,270	2	20	20			40		40	40			
	SUBTOTAL	\$132,410	26	50	120	30	10	80	80	160	220	40	120	0
3	Stormwater Master Plan													
3.1	Baseline hydrology	\$28,940	4	20	40			40	40		40			
3.2	Existing facility capacity analysis	\$29,940	4	20	40	20		40	40		20			
3.3	Alternatives analysis	\$36,240	4	20	40	10	10	40		40	40	40		
3.4	Conceptual design	\$38,540	4	20	40			40	40	40	40	40		
	SUBTOTAL	\$133,660	16	80	160	30	10	160	120	80	140	80	0	0
4	10-Year CIP													
4.1	System deficiencies	\$26,340	4	20	40			20	60		20			
4.2	Cost estimates	\$18,640	4	4	10				20	20	80			
4.3	Prioritization and Scorecards	\$19,250	10	10	20	10	10	20	20				20	
4.4	Alternative funding options	\$7,840	4	10	10			20						
4.5	Final CIP	\$31,340	4	10	40			40	40		40	40		
	SUBTOTAL	\$103,410	26	54	120	10	10	100	140	20	140	40	20	0
5	Rate Study													
5.1	Revenue analysis	\$5,830	2	2	4			20			10			
5.2	O&M analysis	\$7,070	2	4	10			10			20			
5.3	Cash flow	\$4,630	2	2	4			20						
5.4	Capital financing	\$5,030	2	4	4			20						
5.5	Final rate study	\$10,070	2	4	10			30			20			
	SUBTOTAL	\$32,630	10	16	32	0	0	100	0	0	50	0	0	0

DIRECT LABOR: (T&M)	\$476,940													
TOTAL HOURS	3,198	112	228	518	70	50	510	400	320	590	200	180	20	
DISTRIBUTION		4%	7%	16%	2%	2%	16%	13%	10%	18%	6%	6%	1%	
INDIVIDUAL COSTS		\$26,320	\$45,600	\$98,420	\$11,900	\$8,000	\$76,500	\$56,000	\$41,600	\$70,800	\$22,000	\$18,000	\$1,800	
			PLOTS	REPROD	MILEAGE	DELIVERY								
DIRECT COST SUBTOTAL	\$2,200		\$200	\$1,000	\$1,000	\$0								
GRAND TOTAL:	\$479,140													

Exclusions
Rectyfing GIS data fields