



January 10, 2020

Paul Mantello, Boonsboro Town Manager
Town of Boonsboro
21 North Main Street
Boonsboro, Maryland 21713

Ethan Strickler, Town Planner
Town of Boonsboro
21 North Main Street
Boonsboro, Maryland 21713

Re: RFP – Engineering Services for a Wastewater System Master Plan and Hydraulic Model
B&L Revisions to Technical and Cost Proposal dated 12/4/2019

File: P702.4141

Dear Mr. Mantello and Mr. Strickler:

Barton & Loguidice, D.P.C. (B&L) would like to present revisions to our proposal to provide engineering services to the Town of Boonsboro for the Wastewater System Master Plan and Hydraulic Model. The following items indicate our revisions:

1. Section 3, Project Approach, page 3-2, remove upper right-hand box which begins “Flow monitoring of sewer systems....”
2. Section 3, Project Approach, Wastewater System Hydraulic Model Development and Analysis, item e. on page 3-2, remove the sentence, “A flow monitoring allowance has been included in the proposal, with the number of meters and options to be determined upon preliminary analysis of the system.”
3. Section 5, Staff Qualifications, page 5-2 Subcontractors, paragraph 1, line 1, remove “and flow monitoring”. Paragraph 1, line 3, remove “and flow monitoring”.
4. Section 7, Schedule, remove “Flow Monitoring” from the project schedule.
5. Cost Proposal – Replace the previously provided cost proposal with the Revised Cost Proposal, attached.
6. A field survey allowance has been included in the Cost Proposal, to address some uncertainty (i.e., potential data gaps) in the existing digital data and as-built records that will support the project. The allowance would be incurred on an as needed basis in conjunction with approval from the Town. Potential data gaps and inconsistencies are assumed to be able to be resolved in the field survey allowance included as a part of the Cost Proposal. The scope and cost proposal assume that as-built record drawings are available for the vast majority of the gravity sewer system that will be analyzed. If drawings are not sufficiently available, a greater effort may be needed for field survey.

We look forward to the opportunity of working together on this important project. If you have any questions regarding our revisions, please do not hesitate to reach out to David Kerr at 443-949-0106 (office) or 410-353-8195 (cell).

Sincerely,
BARTON & LOGUIDICE, D.P.C.

David J. Kerr, P.E.
Senior Managing Engineer

Revised Cost Proposal January 9, 2020

Town of Boonsboro, MD Wastewater Master Plan and Hydraulic Model	Barton & Loguidice, D.P.C.												
	Principal	Assoc.	Sr. Man. Eng.	Sr. Man. Eng.	Mg. Engr.	Engr. I	CADD/GIS Tech	Clerical	Total Hours	Staff Billings	Expenses/ Printing	Task Total Billings	
	\$190	\$185	\$180	\$180	\$150	\$85	\$90	\$71					
Personnel	EAP	STL	DJK	RJG	LSK	RH	Staff	Staff					
A. Project Management													
a. Prepare a Work Plan and Schedule		1	2			2		1	6	\$786.00		\$786.00	
b. Kick-off Meeting and meeting minutes			4	2	2	6		2	16	\$2,032.00	\$200.00	\$2,232.00	
c. QA/QC Plan	1		2					4	7	\$834.00		\$834.00	
B. Data Collection and Review													
a. Review existing record documents			2			2			4	\$530.00		\$530.00	
b. Request for additional data			1			4			5	\$520.00		\$520.00	
c. Survey / Testing (additional data collection)	0.5		2			2	0.5	1	6	\$741.00	\$0.00	\$741.00	
C. Wastewater System Hydraulic Model													
a. Determine major facility elevations			1		4	24			29	\$2,820.00		\$2,820.00	
b. Develop physical and operational attributes of model components			1		8	80			89	\$8,180.00		\$8,180.00	
c. Develop system design criteria			1		2	11			14	\$1,415.00		\$1,415.00	
d. Develop demand data and scenarios					2	14			16	\$1,490.00		\$1,490.00	
e. Model calibration using field verification			4		10	40			54	\$5,620.00	\$0.00	\$5,620.00	
f. Develop capacity scenarios	0.5		4		4	12			20.5	\$2,435.00		\$2,435.00	
D. Wastewater System Master Plan Report Development													
a. Review existing wastewater service area			2	1		6			9	\$1,050.00		\$1,050.00	
b. Evaluation of existing and future system requirements	0.5		4	1	2	24			31.5	\$3,335.00		\$3,335.00	
c. Recommendations for system performance and operations	0.5		4	1		8		1	14.5	\$1,746.00		\$1,746.00	
d. Strategic asset management plan	0.5	2			6	8		1	17.5	\$2,116.00		\$2,116.00	
e. Future water system planning	0.5	1	6	1	4	8		1	21.5	\$2,891.00		\$2,891.00	
f. Capital Improvement Program	0.5	6	4	1	4	8		1	24.5	\$3,456.00		\$3,456.00	
g. Master Plan Report								1	1	\$71.00		\$71.00	
i. Workshop with Town staff			8					1	9	\$1,511.00	\$100.00	\$1,611.00	
ii. Prepare a Master Plan outline			2						2	\$360.00		\$360.00	
iii. Prepare draft Wastewater System Master Plan	2	1	4	1	1	20	8		37	\$4,035.00		\$4,035.00	
iv. Respond to comments			2	2		2		1	7	\$961.00	\$100.00	\$1,061.00	
v. Prepare final Water System Master Plan	1	1	4	1	1	4		2	14	\$1,907.00	\$250.00	\$2,157.00	
Work Service Total	7.5	12	64	11	50	285	8.5	17	455	\$50,842.00	\$650.00	\$51,492.00	
									Engineering Totals	455	\$50,842.00	\$650.00	\$51,492.00

Survey Allowance	\$7,500.00	\$0.00	\$7,500.00
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Total Cost	\$ 58,992.00
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January 9, 2020

Mr. Ethan Strickler
Town Planner
Town of Boonsboro
21 North Main Street
Boonsboro, MD 21713

Re: Revised Proposal
Engineering Services for a Wastewater System Master Plan and Hydraulic Model

Dear Mr. Strickler:

As a follow-up to our presentation to the Boonsboro Municipal Utilities Commission (BMUC) on December 18, 2019 and your email request of December 27, 2019, WRA offers the following revised scope and fee for your consideration:

Scope of Services

A. Project Management

Section A. includes Project Management as discussed in our original proposal and is unchanged.

B. Data Collection and Review

Section B. of the wastewater master planning efforts will consist of collecting wastewater system data from various sources, including system piping and facility as-built drawings, records and maps, existing AutoCAD drawing files and ArcGIS shapefiles. As-built drawings, records, maps and AutoCAD/GIS files will be reviewed to obtain system attributes with a focus on manhole location; pipeline diameter, material, slope and depth; and facility locations (manholes, pump stations, etc.). All available data will be compiled into ArcGIS format for use in construction of the hydraulic model and to provide the Town with an updated wastewater system record.

Of particular importance to hydraulic model construction is GIS element connectivity (i.e. upstream and downstream piping is actually connected to adjoining manholes in the shapefile). During this phase, WRA will verify that all system elements included in the GIS are properly connected to minimize verification runs and error warnings during the model development phase.

In addition to the above information, WRA is including topographic surveys as part of the data collection and system mapping phase of the project to gather elevation data (pipe invert and RIM elevations) for model development.

The final deliverable to the Town will be the completed GIS files with an estimate of attribute completeness for the Town to review.

Additional details on data collection tasks are outlined as follows:

B.1. Preliminary Data Review

WRA will meet with the Town to review the pertinent information and discuss key issues of the project. The goal of this phase is to review existing flows and develop reasonable unit flow factors based on historical data, MDE standards, and Town development standards. WRA will develop unit flow factors that will be used with Town population and development projections to develop flow projections. The following documents will be provided by the Town and reviewed by WRA:

- Updates to the Town's development plans, specifically, the creation of revised zoning or land use associated with proposed residential and commercial development
- The Town's historical average and peak day wastewater flows
- The Town's billing records for water and wastewater, identifying the number of residential and commercial customers
- Determination of the "build-out" year and interim growth scenarios
- Parcel mapping and zoning/land use changes (GIS data if available)

B.1.1. Review of Planning Criteria

WRA will review and summarize system planning criteria for the wastewater collection system, including:

- Allowable surcharge in existing mains
- Capacity requirements for sewer mains
- Peak factors
- Excessive I/I thresholds

B.1.2. Technical Memorandum

WRA will produce a Technical Memorandum summarizing information collected and developed during the Data Collection and Review task including the historical data, planning criteria, and the development of unit flow factors and projections for wastewater flows through the selected build-out year.

B.1.3. Review Meeting

WRA will present preliminary unit flow factors and projections to the Town for review and comment. WRA will utilize the data collected from the Town and any additional planning data from the Town's Planner, supplemented by MDE standards. WRA will recommend a preliminary wastewater system peak factor to be compared to flow records.

B.2. System Survey and Mapping

B.2.1. Sewer System Survey

WRA recommends collection of field-surveyed elevation data for wastewater system manholes where as-builts are not available. Since the issuance of the RFP, the Town located and provided a number of as-builts for WRA's review. WRA has reviewed the provided sewer as-built information and it is highlighted in *Attachment 1. Figure 1. Town of Boonsboro As-Built Data* with red hatching.

The Town estimates that there are 406 manholes within the collection system. The as-built drawings provided by the Town included information on approximately 48 manholes (12% of the system) leaving approximately 88% of system manholes with missing data.

Therefore, WRA's survey subconsultant will conduct field surveys of the Town's wastewater collection system with an allowance to spatially locate up to 350 collection system manholes.

During the survey effort, top of manhole rim and pipe invert elevations (upstream and downstream) will be collected, and pipe diameter and material will also be collected where possible. This collected data will be incorporated into the GIS database and provided to the Town. This data will provide locations for manholes in the system mapping, and the elevations will be the basis for building an accurate model of the system, properly reflecting pipe slopes and the resulting capacities.



B.2.2. GIS Database Update

WRA will incorporate sewer as-built information and any field data collected into the GIS database. This data will provide locations for manholes in the system mapping, as well as other attributes collected in the field, and will be provided to the Town.

B.2.3. System Review

WRA will submit the updated wastewater system mapping to the Town. A conference call or meeting will be held to review the mapping and confirm WRA's understanding of the system configuration.

C. Wastewater System Hydraulic Model

Section C. will consist of the construction and calibration of a GIS-based wastewater system hydraulic model from the updated GIS and data gathered as part of Section B. WRA has extensive experience utilizing various software packages including both Bentley and Innowyze products to construct, calibrate and perform sewer system analysis. Based on our modeling experience and the criteria established within this RFP, WRA believes Innowyze InfoSewer software, which is a robust program that operates within ESRI's ArcGIS software, is the appropriate program for the Town's use. The Town's current water model is in InfoWater and using InfoSewer as a similar software package would allow for easier license acquisition, maintenance, and interface familiarity.

C.1. Model Development

Additional data to be requested from the Town will include any metered and historic wastewater flow data, pumping station records, metered wastewater treatment plant data, pump curves and controls, rain gauge data, and anticipated Town growth and development numbers. WRA will utilize the GIS developed as part of Section B. as well as the additional operational data collected to build the Town's hydraulic wastewater model.

Operational parameters will be developed and refined based on Town input and assigned to collection system elements. Hydraulic wastewater model elements (manholes, wetwells, etc.) will be assigned ground elevations based on as-builts and any collected survey data. Initial pipe roughness coefficients or "n-factors" will be assigned to all piping in the model based on the pipe material and age as gathered during Section B.

C.1.1. Sewer Basin Delineation

WRA will utilize the wastewater system mapping, as well as discussions with the Town regarding locations of pumping stations, to determine sewersheds within the Town.

C.1.2. Existing Flow Monitoring Data Analysis

WRA will analyze the ADS flow monitoring data acquired in 2016, as well as wastewater treatment plant flow records to determine base average daily flows. The peak flows in the system will be determined by a peaking factor estimated using record data.

C.1.3. Sewer Model Creation/GIS Data Review

WRA will utilize the data from the GIS mapping updated under this project to develop a hydraulic system model for the Town's collection system under steady state conditions. WRA will use a design flow based on a single peaking factor as determined in conjunction with the Town. WRA will document all assumptions required to input the collection system data essential for model development. A Technical Memorandum will be provided to the Town outlining the model creation and stating assumptions used in creating the model.



C.1.4. Model System Operations

After the wastewater model has been developed, WRA will validate connectivity and physical model data. This task includes:

- Run models with a nonspecific load at the upstream manhole to test model function
- Review model projected full flow capacity
- Produce a map of the model area, showing:
 - Sewer infrastructure
 - Sewershed boundaries
 - Modeled collector sewer identification

C.2. Model Simulations

After model development and validation, flow projections (loads) will be spatially distributed into the model. A base scenario will be developed to reflect base sanitary sewer flows from water consumption records, planning projections, and available flow information.

WRA will incorporate rain-derived infiltration and inflow (RDII) using a peaking factor as determined from the flow data and selected in conjunction with the Town. WRA will evaluate capacity for existing conditions (Year 2020), intermediate conditions (Years TBD, one model for each planned development, and then a selected set of combinations), and ultimate build-out conditions (Year TBD, includes all currently planned development). Should the model indicate a surcharge condition, improvements will be investigated. All pipes which exceed capacity will be identified. For each basin, the modeled pipe runs will be documented. This includes:

- Tabular data showing flow and HGL information
- Profiles as required to illustrate areas with deficient capacity

As previously mentioned, if deficiencies are found, system improvements will be investigated. This will include selecting improvements (such as upsizing a section of pipe) and testing the improvement(s) in the sewer model.

C.3. Additional Flow Monitoring Analysis

Additional flow monitoring will not be conducted as a part of this study. Base and peak flows will be determined from the existing 2016 meter data. An estimated allowance will be made for infiltration and inflow (I&I) per inch-diameter miles of pipe in each major sewershed for infiltration.

D. Wastewater System Master Plan

For Section D., WRA will provide a master plan report that will include recommendations and a strategic asset management plan (in the form of a capital improvement plan). The plan will include projects to correct identified surcharge conditions and will also include recommendations and capital improvement projects in select sewer basins to reduce RDII sources. Capital improvements will be identified with a scope, timing and probable cost. The improvements will focus on the following:

- For correction of surcharge conditions, the focus will be on upsizing existing sewers, and may consider constructing a parallel sewer or altering the sewer basins to re-route flow. The improvement(s) will be sized to convey ultimate flow without surcharging.
- For reduction of RDII sources, the improvements will focus on sewer rehabilitation to eliminate leaks in the existing sewers.



Compensation

A detailed workhour breakdown showing the derivation of this estimated fee is provided in the manhour spreadsheet which is included as Attachment 2.

*Our total compensation to perform these services is **\$126,277.00**.*

This fee will not be exceeded without your authorization.

The payroll rates include payroll burden, overhead costs for partners, accountants, secretarial staff, and other non-technical support personnel engaged on this project. Out-of-pocket expenses include subconsultant fees, reproduction, plus the costs for any other expenses used exclusively on this project and are directly chargeable.

If a work effort for this project is recognized as being outside of this scope of services by WRA or is requested by the Town of Boonsboro, a scope amendment will be submitted for the Town's authorization, prior to proceeding with that effort.

Schedule

WRA will begin this work immediately upon your authorization, and will follow the updated schedule, shown as Attachment 3. The schedule has been updated to reflect the elimination of additional flow monitoring from the scope. This proposal assumes notice to proceed on February 1, 2020 and completion of these efforts by September 15, 2020.

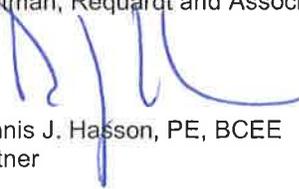
Attachments

1. Figure 1. Town of Boonsboro As-Built Data
2. Manhour Spreadsheet
3. Schedule

Thank you for the opportunity to present our revised proposal for this wastewater system master plan and hydraulic model. Should you have any questions regarding our submission, please do not hesitate to contact me at 410.235.3450 or dhasson@wrallp.com.

Very truly yours,

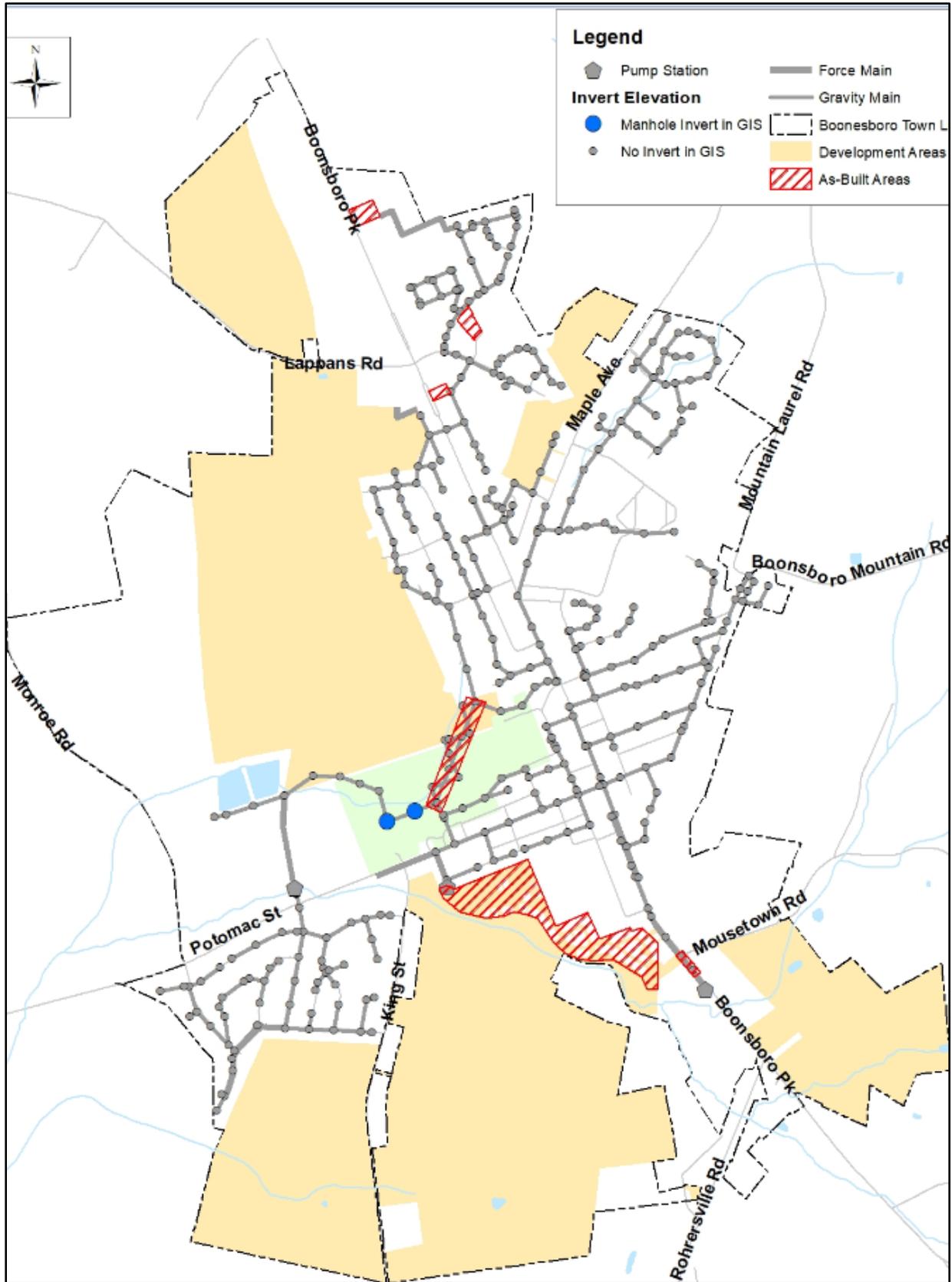
Whitman, Requardt and Associates, LLP



Dennis J. Hasson, PE, BCEE
Partner



Attachment 1. | Figure 1. Town of Boonsboro As-Built Data



Attachment 2

**Revised Manhour Estimate and Cost Proposal
Town of Boonsboro, Maryland
Engineering Services for a Wastewater System Master Plan and Hydraulic Model**

Revision: 5
Date: January 9, 2020
Prepared By: Andrew Cooper, PE, BCEE

Task	Use Labor Cost Rates for year: 2020	QA/QC	Project Manager	Senior Project Engineer	Design Engineer Civil	GIS Specialist	Survey Manager	Registered Surveyor	Office Work	Survey Crew	0	WRA TOTAL HOURS	WRA TOTAL PAYROLL	WRA EXPENSES T R E (Travel) (Reproduction) (Equipment Rental)	Subcontractor hours	Subcontractor Payroll	SUBCONTRACTOR EXPENSES T R E (Travel) (Reproduction) (Equipment Rental)	Line Item Totals		
		\$76	\$79	\$58	\$41	\$48	\$80	\$65	\$40	\$60	\$0	T, R, E	(See Legend)	T, R, E	(See Legend)					
A. Project Management			20	12								32	\$5,559	T	\$100		\$	-	\$	\$5,659
B. Data Collection and Review												0	\$0	-	\$		\$	-	\$	\$0
Preliminary Data Review		4	12	36	36	16						104	\$13,672	-	\$		\$	-	\$	\$13,672
System Survey and Mapping			8	16	16	32						72	\$9,217	-	\$	DMW	\$33,700	-	\$	\$42,917
C. Wastewater System Hydraulic Model												0	\$0	-	\$		\$	-	\$	\$0
Model Development			9	74	96	20						199	\$24,242	-	\$		\$	-	\$	\$24,242
Model Simulations			8	60	100	4						172	\$20,581	R	\$100		\$	-	\$	\$20,681
Additional Flow Monitoring Analysis												0	\$0	-	\$		\$	-	\$	\$0
D. Wastewater System Master Plan Report		8	20	44	52	16						140	\$18,706	T, R	\$400		\$	-	\$	\$19,106
SUBTOTALS		12	77	242	300	88	0	0	0	0	0	719	\$91,977	\$600		Subcontractor Total	\$33,700			\$126,277
SUB-TOTAL DOLLARS		\$2,227	\$14,894	\$34,092	\$30,319	\$10,446	\$0	\$0	\$0	\$0	\$0	\$91,977				Profit on Sub	0.0%			
			619	Civil	\$79,304	88	Other	\$10,446	0		\$0					WRA Total	\$92,577			
																Base Scope Total	\$126,277			

Project Total	\$126,277
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	2020	QA/QC	Project Manager	Senior Project Engineer	Design Engineer Civil	GIS Specialist	Survey Manager	Registered Surveyor	Office Work	Survey Crew
Bare Labor Cost Rates for Year	2020	\$75.75	\$78.95	\$57.50	\$41.25	\$48.45	\$80.00	\$65.00	\$40.00	\$60.00
Loaded Labor Rate at a Factor of:	2.45	\$185.59	\$193.43	\$140.88	\$101.06	\$118.70	\$196.00	\$159.25	\$98.00	\$147.00



Attachment 3

Revised Schedule

Town of Boonsboro, Maryland

Engineering Services for a Wastewater System Master Plan and Hydraulic Model

Assumes Notice to Proceed Date of February 1, 2020	February		March		April		May		June		July		August		September		October		November		December	
Task																						
A. Project Management (Includes 2 Meetings)																						
B. Data Collection and Review																						
Preliminary Data Review																						
System Survey and Mapping																						
C. Wastewater System Hydraulic Model																						
Model Development																						
Model Simulations																						
D. Wastewater System Master Plan Report																						





Town of Boonsboro, Maryland

Engineering Services for Wastewater System Master Plan & Hydraulic Model

Cost Proposal



EA Engineering, Science,
and Technology, Inc., PBC

Submitted on:
4 December 2019

Revised:
19 December 2019



225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
Telephone: 410-584-7000
Fax: 410-771-1625
www.eaest.com

4 December 2019 (Revised 19 December 2019)

Town of Boonsboro
21 North Main Street
Boonsboro, Maryland 21713

**Re: Cost Proposal
Engineering Services for a Wastewater System Master Plan and Hydraulic Model**

Dear Members of the Review Committee,

EA Engineering, Science and Technology, Inc. PBC (EA) is enclosing our price proposal for your review and evaluation.

Per the RFP, for each task the labor hours are broken down by consultant classification, we have estimated fee by task, and included the type and estimated amounts of direct costs billed to project.

If you have any questions or would like to hear more about EA's qualifications in wastewater master planning and hydraulic models, please contact me at 410-527-5157 or at sridgway@eaest.com.

Sincerely,

A handwritten signature in blue ink, appearing to read 'SRidgway'.

Sarah Ridgway, PE
Senior Vice President
EA Engineering, Science, and Technology, Inc., PBC



Table 1. Labor Hours for each Consultant Classification by Task

Task A - Project Management

(1) Direct Labor Hours Rate Cost

SENIOR TECHNICAL REVIEWER	2	\$243.00	\$486.00
PROJECT MANAGER	30	\$190.00	\$5,700.00
ENGINEER, SENIOR	9	\$185.00	\$1,665.00
ENGINEER, DESIGN	24	\$112.00	\$2,688.00
CADD/GIS TECHNICIAN, MID	8	\$109.00	\$872.00
Subtotal Labor	73		\$11,411.00

Task B - Data Collection and Review

(1) Direct Labor Hours Rate Cost

SENIOR TECHNICAL REVIEWER	2	\$243.00	\$486.00
PROJECT MANAGER	10	\$190.00	\$1,900.00
ENGINEER, SENIOR	6	\$185.00	\$1,110.00
ENGINEER, DESIGN	92	\$112.00	\$10,304.00
ENGINEER, JUNIOR	56	\$81.00	\$4,536.00
CADD/GIS TECHNICIAN, MID	26	\$109.00	\$2,834.00
TECHNICAL WRITER/EDITOR	2	\$135.00	\$270.00
Subtotal Labor	194		\$21,440.00

Task C - Wastewater System Hydraulic Model

(1) Direct Labor Hours Rate Cost

SENIOR TECHNICAL REVIEWER	3	\$243.00	\$729.00
PROJECT MANAGER	25	\$190.00	\$4,750.00
ENGINEER, SENIOR	9	\$185.00	\$1,665.00
ENGINEER, DESIGN	160	\$112.00	\$17,920.00
ENGINEER, JUNIOR	60	\$81.00	\$4,860.00
TECHNICAL WRITER/EDITOR	7	\$135.00	\$945.00
Subtotal Labor	264		\$30,869.00



**Table 1. Labor Hours for each Consultant Classification by Task
(continued)**

Task D - Wastewater System Master Plan Report Development

(1) Direct Labor Hours Rate Cost

SENIOR TECHNICAL REVIEWER	2	\$243.00	\$486.00
PROJECT MANAGER	27	\$190.00	\$5,130.00
ENGINEER, SENIOR	17	\$185.00	\$3,145.00
ENGINEER, DESIGN	134	\$112.00	\$15,008.00
ENGINEER, JUNIOR	122	\$81.00	\$9,882.00
CADD/GIS TECHNICIAN, MID	2	\$109.00	\$218.00
TECHNICAL WRITER/EDITOR	8	\$135.00	\$1,080.00
Subtotal Labor	312		\$34,949.00

Table 2. Estimated Fee by Task

Tasks	Estimated Fee
Task A - Project Management	\$11,548.00
Task B - Data Collection and Review	\$21,534.00
Task C - Wastewater System Hydraulic Model	\$31,317.00
Task D - Wastewater System Master Plan Report Development	\$35,250.00
Total:	\$99,649.00
Optional Task – Field Investigation	\$20,000.00



Table 3. Type & Estimated Amounts of Direct Costs Billed to Project

Task A - Project Management

Type of Direct Cost	Estimated Amount
Travel-Mileage	\$128.00
Printing and Reproduction	\$9.00

Task B - Data Collection and Review

Type of Direct Cost	Estimated Amount
Travel-Mileage	\$87.00
Printing and Reproduction	\$7.00

Task C - Wastewater System Hydraulic Model

Type of Direct Cost	Estimated Amount
Travel-Mileage	\$436.00
Printing and Reproduction	\$12.00



**Table 3. Type & Estimated Amounts of Direct Costs Billed to Project
(continued)**

Task D - Wastewater System Master Plan Report Development

Type of Direct Cost	Estimated Amount
Travel-Mileage	\$127.00
Printing and Reproduction	\$174.00

Optional Task – Field Investigation

Type of Direct Cost	Estimated Amount
Field Investigation*	\$20,000.00*

*Based upon existing information described by the Town it is assumed that additional field investigation will not be necessary. However, EA has included an Optional \$20,000 in project budget for a field investigation Task to gather supplemental infrastructure data should this service be necessary. After data collection and preliminary review of the information provided by the Town, EA will collaborate with the Town to determine if any additional data collection is needed. This could potential include, the hiring of specialty subcontractors, renting monitoring equipment, or self-performing, if desired and requested by the Town. Should the Town determine no field investigations are necessary, this Task will not be utilized. Should the amount of supplemental information needed through field investigation exceed this level of effort, EA will coordinate with the Town to develop an additional scope of work and associated cost.



EA Engineering, Science,
and Technology, Inc., PBC

225 Schilling Circle
Suite 400
Hunt Valley, Maryland
21031