Ivins City Staff Report
City Council Meeting 7/15/2019

Agenda Item: Approval of expenditure for engineering services for 450 North Detention Basin and Pipeline Design and Bid Period Services for the Storm Water Improvements Project

Submitted by: Thomas J. Jorgensen, P.E., Assistant Public Works Director

Recommended City Council Action:
Approve expenditure of $30,984 for engineering services to design the 450 North Detention Basin and Pipeline and for Bid Period Services for the Storm Water Improvements Project

BACKGROUND:
Ivins City has several storm water related projects that were approved for design in 2016. These improvements were taken from the 2016 Storm Water Master Plan. During the course of the design process, Staff has been considering adding to the design one additional project from the 2016 Storm Water Master Plan. This project is the 450 North Detention Basin. The past several years Ivins City has received several storm events that have caused serious flooding down 600 West. The addition of this 450 North Detention Basin would assist in alleviating those flows to more manageable levels. For this reason, Staff is recommending adding this project to the overall Storm Water Improvement Project design.

Staff submitted a request for proposals (RFP) for engineering services to several engineering firms back in 2016, when Bowen Collins & Associates (BC&A) was awarded the design contract. Staff has asked BC&A to provide a scope and fee proposal for adding the 450 North Detention Basin into the design.

In addition to this, Staff has also requested that BC&A assist with the bid period services and a small portion of the construction management services for the construction portion of this contract. The design is nearly complete, and Staff is hoping that the project will be bid out either the end of this month or next. Additional details are identified in the attached scope and fee proposal.

FINDINGS AND ANALYSIS:

450 North Detention Basin and Pipeline Design Services – $20,016

Bid Period and Construction Management Services – $10,968

Staff has evaluated the scope and fee proposal for the design and bid period services and recommend that Council approve the expenditure of $30, 984.

SUPPORT MATERIALS:
- Scope and Fee Proposal

FINANCIAL IMPACT:
The expense has been budgeted and will be paid for from the $1.2 million bond.
$30,984

Respectfully Submitted:

Thomas J. Jorgensen, P.E., Assistant Public Works Director

Content Review:

Dale Coulam, City Manager

BOWEN COLLINS
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June 6, 2019

Tom Jorgensen, P.E.
Assistant Public Works Director
55 North Main
Ivins, Utah 84738

Subject: Scope of Services for the 450 North Detention Basin and Pipeline and Bid Period Services for the Storm Water Improvements Project

Dear Tom:

Bowen Collins & Associates (BC&A) was contracted to design and prepare contract documents for the construction of Storm Water Improvements Projects. It is our understanding that Ivins City wishes to expand the scope of this Storm Water Improvements project by adding a site that includes additional piping and a detention basin at approximately 450 North and 500 West. In addition, the City has requested that bid period services and construction period coordination also be added to the contract. The following section provides a summary of the additions to the tasks in the original SOW to account for the requested expanded scope.

PROPOSED CLAFIFICATIONS AND MODIFICATION TO THE ORIGINAL SCOPE OF WORK

Task A: Topo Survey and Easement Research. BC&A will coordinate with a local surveyor to obtain topographic information of the additional project site. BC&A will review and incorporate this new surface into the design. The surveyor will also identify or set control points for each project site if not already set.

Task B: 450 North 500 West Design. BC&A will design and prepare contract documents for the additional 450 North 500 West storm water facilities, which includes a pipeline and detention basin. The additional design drawings and technical specifications will be included in the overall project contract document package. The general layout and sizing of the detention basin will be provided by Ivins City. It is anticipated that the design of this additional site will require four additional civil drawings, and two additional structural drawings.

Task C: Bid Period and Construction Period Services. BC&A will provide bid period services, including helping the City prepare a bid advertisement, providing bid documents, holding a mandatory pre-bid meeting, responding to contractor questions, and providing addenda as needed. BC&A will assist the city in evaluating bids received and recommending award of the project. BC&A will hold a pre-construction meeting with the selected contractor. BC&A will provide limited support services during construction, with Ivins City performing weekly construction progress meetings and construction inspection. At the conclusion of the project, BC&A will prepare record drawings.

COST SUMMARY

We have tabulated estimated man-hours and costs to complete each task outlined in the previously defined scope of services. As presented in Attachment 1, we propose to complete the scope of services for a fee not to exceed $30,984.

We are willing to negotiate the scope of services, schedule, and fee if there is something in this proposal that does not meet your needs. We enjoy working with Ivins City and look forward to working with you on this project. Please call if you have any questions or need additional information.

Sincerely,
Bowen Collins & Associates, Inc.

Todd Olsen, P.E.
Project Manager

cc. Chuck Gillette, Ivins City
Cody Moultrie, BC&A

Attachments

2019 Storm Drain Master Plan Improvements Project - 450 North Detention Basin and Pipeline and Bid Period Services
Ivins City
Engineering Man-hours and Fee Estimate

BOWEN COLLINS & ASSOCIATES

6/6/2019

		Office		Techs		Engineers							Subtotal Hours	Subtotal Labor	Subtotal Expenses	Expenses			Total Cost
	Labor Category	Account	Editor	Tech 3	Tech 4	Enviro.	CM	Struct.	Staff	PE	PM	PIC				Computer	Mileage	Survey	
	Staff	Buhler	Hilbert	CAD	CAD	Tsandes	Williams	Cohen	Nielson	Moultrie	Olsen	Bagley				$ 7.00			
	Labor Rate	$72	$89	$107	$112	$146	$140	$155	$107	$119	$152	$182							
Task	Task Description																		
ENGINEERING/DESIGN																			
A	Topo Survey and Easement Research									6	3		9	$ 1,170	$ 2,263	$ 63		$ 2,200	$ 3,433
B	450 North 500 West Design	2	2					24	48	45	7		128	$ 15,597	$ 986	$ 896	$ 90		$ 16,583
	Engineering/Design Sub-Total	**2**	**2**	**0**	**0**	**0**	**0**	**24**	**48**	**51**	**10**	**0**	**137**	**$ 16,767**	**$ 3,249**	**$ 959**	**$ 90**	**$ 2,200**	**$ 20,016**
BID PERIOD/CONSTRUCTION																			
C	Bid Period and Construction Period Services								28	39	18		85	$ 10,373	$ 595	$ 595			$ 10,968
	Bid/Construction Sub-Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**28**	**39**	**18**	**0**	**85**	**$ 10,373**	**$ 595**	**$ 595**	**$ -**	**$ -**	**$ 10,968**
	Additional Task Sub-Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	TOTAL HOURS	***2***	***2***	***0***	***0***	***0***	***0***	***24***	***76***	***90***	***28***	***0***	***222***						
	TOTAL COSTS	*$144*	*$178*	*$0*	*$0*	*$0*	*$0*	*$3,720*	*$8,132*	*$10,710*	*$4,256*	*$0*		$ 27,140	$ 3,844	$ 1,554	$ 90	$ 2,200	$ 30,984

Expenses include:
Computer/Communications Charge at $7/labor hour
Mileage Charge at $0.75/mile
10% Markup on other project related expenses