City of Fayetteville Staff Review Form

2019-0240

Legistar File ID

5/7/2019

City Council Meeting Date - Agenda Item Only
N/A for Non-Agenda Item

Paul Libertini	4/19/2019	ENGINEERING (621)
Submitted By	Submitted Date	Division / Department
_		_ •

Action Recommendation:

A Resolution to approve Supplement Agreement #1 to the contract with Burns & McDonnell Engineering Company, Inc. in an amount not to exceed \$50,439 for additional design services associated with the design and construction of the Sain Street Extension project, and to approve a Budget Adjustment.

Budget Impact:

4520.800.9556-5314.00	Sales Tax	c Construction Project					
Account Number	_	Fund					
06035.3400	Sain St	reet Constru	ction				
Project Number	Project Title						
Budgeted Item? Yes	Current Budget	\$	32,984.00				
	Funds Obligated	\$	26,421.00				
_	Current Balance	\$	6,563.00				
Does item have a cost? Yes	Item Cost	\$	50,439.00				
Budget Adjustment Attached? Yes	Budget Adjustment	\$	55,000.00				
	Remaining Budget	\$	11,124.00				

Purchase Order Number:	2016-00000620	Previous Ordinance or Resolution # 64-16	
Change Order Number:	_	Approval Date:	
Original Contract Number:	2408		

Comments:



CITY COUNCIL MEMO

MEETING OF MAY 7, 2019

TO: Mayor and City Council

THRU: Don Marr, Chief of Staff

Garner Stoll, Development Services Director

Chris Brown, City Engineer

FROM: Paul Libertini, Staff Engineer

DATE: April 16, 2019

SUBJECT: Sain Street Extension - Supplement Agreement #1 with Burns & McDonnell

Engineering Company

RECOMMENDATION:

Staff recommends City Council approval of Supplemental Agreement #1 to the contract with Burns & McDonnell Engineering Company in the amount of \$50,439 for additional services.

BACKGROUND:

The proposed Sain Street Extension project has been identified on the Master Street Plan since at least the year 2000. The Fayetteville Expressway Economic Development Corridor Study (FEEDC) of 2006-2007 developed a conceptual layout for the Sain Street Connection to the Flyover/Fulbright Expressway, Hwy. 71B and Joyce Boulevard. The Fayetteville Mobility Plan of 2107 includes the Sain Street Extension in the Long-Term Improvements to N. College (Hwy 71B). The current 71B Corridor Study is looking at some innovative concepts of connecting the Fulbright Expressway, Hwy. 71B, Sain Street and N. Front Street for better, safer access while increasing economic opportunities.

Thus far, the City has been awarded \$1,075,000 in Federal funding for Engineering, R/W and Utilities with a City match of \$287,000. To date, the project has spent approximately \$450,000 of Federal dollars for engineering services. If the project is not completed, the City would have to reimburse the State for this expenditure. The estimated construction cost of this project is \$4.8 Million. The City will be requesting Federal funding of 80% or \$3.8 Million for construction but we will be competing with our neighboring cities for a limited amount of Federal funding to our region which is approximately \$7 Million per year. It should also be noted that the City has collected approximately \$250,000 from developers for the construction of a bridge over Mud Creek which is part of the Sain Street Extension project. These funds would also have to be returned to the developers if the bridge was not constructed.

The design plans for Sain Street Extension are nearing completion. The City has hired a real estate appraisal firm to evaluate the cost of the land to be acquired for this project and the City has received approximately 50% of the appraisal reports to date. These reports will have to be reviewed and approved by the ARDOT (Arkansas Department of Transportation) after which the

City will be allowed to meet with the property owners and present offers to purchase r/w and easements.

DISCUSSION:

Supplemental Agreement #1 to the engineering design contract with Burns & McDonnell Engineering Company will cover the following design elements that were not included in the original agreement for a cost of \$50,439:

- Provide analysis, design and exhibits that extended the project beyond the intersection of Hwy. 71B and Millsap to include the analysis of a Backage Road and a roundabout at the intersection of Millsap and Backage Road
- Widen the roadway & bridge typical section to accommodate the addition of buffered bicycle lanes
- Provide a design to relocate the existing parking lot owned by the University of Arkansas which is being eliminated due to the extension of Sain Street
- Elevate Mud Creek Trail by 2 feet under the proposed bridge to reduce the impact to the trail during major stormwater events
- Relocate the existing trail lighting to the new location and add lighting under the proposed road bridge
- Provide additional survey work to stake the proposed rights-of-way and easements to assist the real estate appraiser in evaluating the cost of land acquisition

On February 26th, the Transportation Committee voted to forward this item to the City Council with a recommendation for approval.

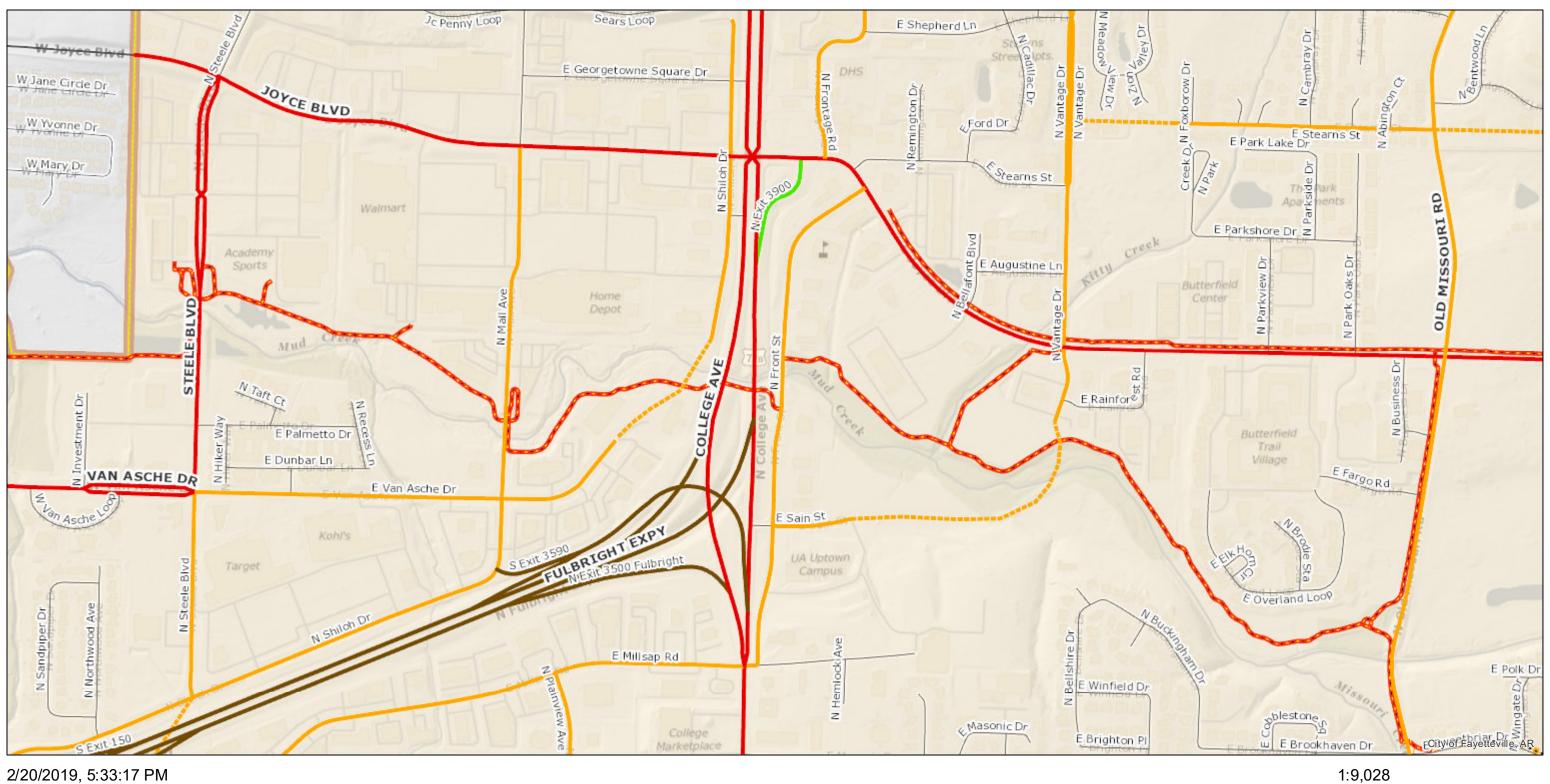
BUDGET/STAFF IMPACT:

Amendment #1 will be paid from the Transportation Bond Program fund with the possibility of partial funding with Federal dollars as the budget allows.

Attachments:

Supplemental Agreement #1, Job 040688, Sain Street Extension Reference Drawings (2 sheets)

Fayetteville, AR

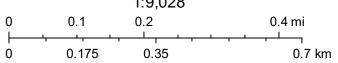


Future Shared-Use Paved Trail

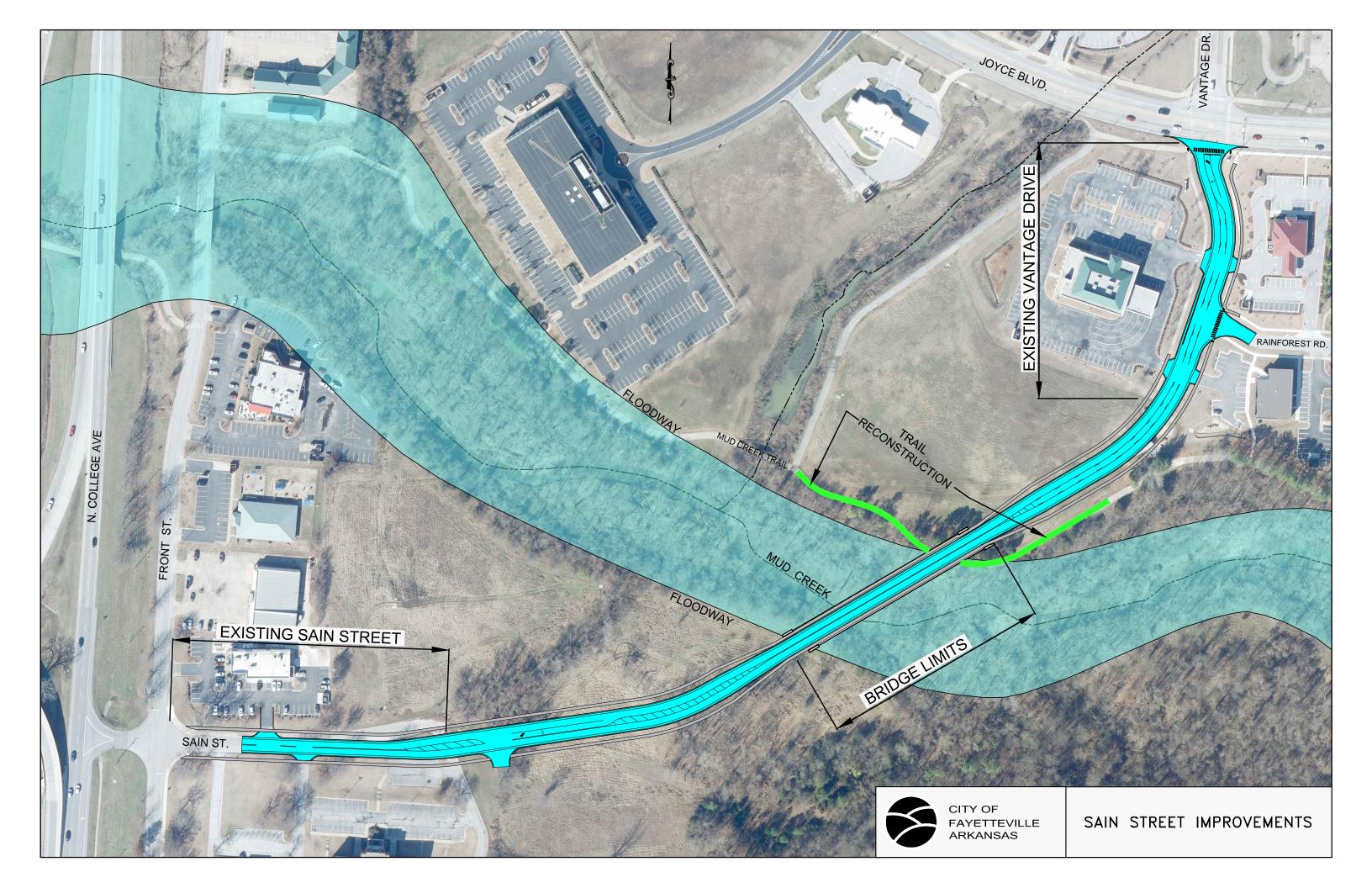
Planning Area Boundary

Fayetteville City Limits





The data contained herein was compiled from various sources for the sole use and benefit of the City of Fayetteville Geographic Information System and the public agencies it serves. Any use of the data by anyone other than the City of Fayeteville is at the sole risk of the user; and by acceptance of this data, the user does hereby agree to indemify the City of Fayeteville and hold the City of Fayeteville harmless from and without liability for any claims, actions, cost for damages of any nature, including the city cost of defense, asserbed by user or by another arising from the use of this data. The City of Fayetteville makes no express or implied warrantees with reference to the data. No word, phrase, or clause found herein shall be construed to wave that tor timmunity set forth under Arkanasa law.



Supplemental Agreement No. 1 Job No. 040688 FAP. No. STPU-9142(39) Sain Street Extension (Fayetteville) (S)

Date:						

WHEREAS, the City of Fayetteville, Arkansas and Burns & McDonnell Engineering Company, Inc. entered into an Agreement for Engineering Services on March 15, 2016; and,

WHEREAS, representatives of the City of Fayetteville, Arkansas requested work in addition to that defined in the Agreement.

NOW THEREFORE, the following modifications will be made to the Agreement to include the additional work requested:

MODIFICATIONS:

- 1) The "Contract Ceiling Price" (Section 1.2) is increased from \$557,695 to \$608,134.
- 2) The "Title I Services Ceiling Price" (Section 1.12) is increased from \$557,695 to \$608,134.
- 3) The fixed fee (Section 3.4) is increased from \$35,192 to \$37,321.
- 4) See Attachment A for modifications to the scope of work.
- 5) The Completion Date (Section 17.1) for Title I Services shall be revised from August 15, 2017 to June 28, 2019, not including bid phase services.
- 6) See Attachment B for modifications to Appendix A Justification of fees and costs

IN WITNESS WHEREOF, the parties execute this Supplemental Agreement No. 5, to be effective upon the date set out above.

BURNS & MCDONNELL	CITY OF FAYETTEVILLE, AR
ENGINEERING COMPANY, INC.	
BY:	BY:
Steven Beam, P.E.	Lioneld Jordan
Business Manager	Mavor

Attachment A SCOPE OF WORK MODIFICATIONS

Supplemental Agreement No. 1
Job No. 040688
FAP. No. STPU-9142(39)
Sain Street Extension (Fayetteville) (S)

The City of Fayetteville (City), in cooperation with the Arkansas Department of Transportation (ArDOT), formerly known as the Arkansas State Highway and Transportation Department (AHTD), and the Federal Highway Administration (FHWA), engaged Burns & McDonnell Engineering Company, Inc. to provide engineering services for the extension of Sain Street in Fayetteville, Arkansas. Section 7 of the Agreement for Engineering Services set forth the scope of services to be performed. The following services are required in addition to those services previously specified:

7. ADDITIONAL INFORMATION & TITLE I SERVICES TO BE PROVIDED BY THE CONSULTANT.

- 1. During the alternatives analysis phase of the project, additional designs and exhibits were prepared that extended beyond the intersection of Hwy. 71B and Millsap to include the analysis of a Backage Road and a Roundabout at the intersection of Millsap and Backage Road. These improvements required coordination with the University of Arkansas and Christian Life Cathedral church and additional traffic evaluations to understand modifications at the intersection with Millsap and Front Street in order to maximize traffic relief in the interim condition of the Sain Street Extension.
- 2. During the development of 60% plans but after roadway modeling and storm drainage design were complete and portions of the ROW plans had been developed, the City requested that the roadway be widened to provide for a striped buffer between vehicular and bike lanes. This work required revisions to the typical section, roadway modeling, drainage design, and all plan sheets showing a plan view of the project.
- 3. The above described change also required revision to the Bridge Layout that was approved but awaiting ArDOT signature. Upon completion of that revision, the Bridge Layout was resubmitted for ArDOT approval.
- 4. The agreed upon concept for the project required that parking areas at the University of Arkansas facilities be reconstructed to accommodate the roadway and drives. This required additional coordination and development of parking lot concepts to present to the University.

Attachment B - Justification of Costs and Fees - SA 1 December 21, 2018

Job 040688 Sain Street Extension (Fayetteville) (S) Washington County

TOTAL PROJECT SUMMARY

TITLE I SERVICES	HOURS	SALARY	FEE	EXPENSES	TOTAL
PROJECT MANAGEMENT	143	\$22,395	\$2,687	\$0	\$25,082
PM - SUPPLEMENTAL AGREEMENT NO. 1	32	\$5,772	\$693	\$0	\$6,465
ENVIRONMENTAL CLEARANCE DOCUMENTATION	240	\$31,143	\$3,737	\$3,268	\$38,148
INTERCHANGE JUSTIFICATION REPORT	148	\$18,728	\$2,247	\$6,300	\$27,275
TRAFFIC DESIGN & PLANS	186	\$23,478	\$2,817	\$8,909	\$35,204
TRAFFIC - SUPPLEMENTAL AGREEMENT NO. 1	48	\$5,531	\$664	\$0	\$6,195
ROADWAY DESIGN & PLANS	360	\$46,174	\$5,541	\$340	\$52,055
BRIDGE DESIGN & PLANS	1,188	\$151,357	\$18,163	\$264	\$169,784
BRIDGE - SUPPLEMENTAL AGREEMENT NO. 1	52	\$6,433	\$772	\$0	\$7,205
ORIGINAL SUBTOTAL TITLE I	2,265	\$293,275	\$35,192	\$19,081	\$347,548
REVISED SUBTOTAL TITLE I	2,397	\$311,011	\$37,321	\$19,081	\$367,413
SUBCONSULTANTS TITLE I					
McClelland Consulting Engineers, Inc.	2,054	\$169,046	\$20,282	\$8,709	\$198,037
MCE Supplemental Agreeement No. 1	316	\$27,289	\$3,275	\$10	\$30,574
Harbor Environmental, Inc.	123	\$9,958	\$1,195	\$957	\$12,110
SUBTOTAL SUBCONSULTANTS TITLE I	439	\$37,247	\$4,470	\$967	\$240,721
REVISED TOTAL TITLE I	2,836	\$348,258	\$41,791	\$20,048	\$608,134

PM - SUPPLEMENTAL AGREEMENT NO. 1

		MANHO	DURS						
TASK	PD	PM	SE	STRE	STFE	TECH	ADMIN	TOTAL	
General									
Coordination of Roadway & Bridge Modifications		10						10	
Coordination for UA Parking Modifications		12						12	
Coordination of Add. Millsap & Backage Rd. Alts.		10						10	
								0	
PM - SUPPLEMENTAL AGREEMENT NO. 1	0	32	0	0	0	0	0	32	
		LABOR	COSTS						
Category - Description						Rate	MH	Amount	
PD - Project Director						\$70.00	0	\$0	
PM - Project Manager						\$60.00	32	\$1,920	
SE - Senior Engineer						\$50.00	0	\$0	
STRE - Structural Engineer						\$50.00	0	\$0	
STFE - Staff Engineer						\$40.00	0	\$0	
TECH - Technician \$35.00									
ADMIN - Administrative Assistant \$25.00 0									
							Subtotal	\$1,920	
Overhead 200.61%									
							Subtotal	\$5,772	
							Fee	\$693	
						FCCM	0.00%	\$0	
						Subtotal	Labor Costs	\$6,465	
		EXPE	ISES						
ITEM					Quantity	Unit	Rate	Amount	
Printing (8 1/2 x 11)						each	\$0.08	\$0	
Printing (11 x 17)						each	\$0.35	\$0	
Plotting (22 x 34)						each	\$1.35	\$0	
Mileage (2 trips at 850 miles, 2 trips at 400 miles)						mile	\$0.540	\$0	
Lodging						each	\$88.00	\$0	
Meals (per day)						each	\$25.00	\$0	
						Subto	tal Expenses	\$0	
	TOTA	L COSTS	- PM - S	UPPLEM	ENTAL A	GREEME	NT NO. 1	\$6,465	
	BA	ASIS OF E	STIMAT	E					
Description									
Additional project management effort required by addi	tional serv	vices descr	bed in the	Scope of \	Nork for Su	upplementa	al Agreement N	o. 1.	
· · · · · ·									

TRAFFIC - SUPPLEMENTAL AGREEMENT NO. 1

	N	IANHOU	RS					
TASK	PD	PM	SE	STRE	STFE	TECH	ADMIN	TOTAL
Non-Interchange Alternatives								
Additional Alternatives Analysis for Millsap & Backage Rd.					32	16		48
- TRAFFIC - SUPPLEMENTAL AGREEMENT NO. 1	0	0	0	0	32	16	0	48
	LA	BOR CO	STS					
Category - Description	MH	Amount						
PD - Project Director						\$70.00	0	\$0
PM - Project Manager						\$60.00	0	\$0
SE - Senior Engineer						\$50.00	0	\$0
STRE - Structural Engineer						\$50.00	0	\$0
STFE - Staff Engineer						\$40.00	32	\$1,280
TECH - Technician						\$35.00	16	\$560
ADMIN - Administrative Assistant						\$25.00	0	\$0
							Subtotal	\$1,840
						Overhead	200.61%	\$3,691
							Subtotal	\$5,531
							Fee	\$664
						FCCM	0.00%	\$0
						Subtotal	Labor Costs	\$6,195
	E	EXPENSE	S					
ITEM					Quantity	Unit	Rate	Amount
Printing (8 1/2 x 11)						each	\$0.08	\$0
Printing (11 x 17)						each	\$0.35	\$0
Plotting (22 x 34)						each	\$1.35	\$0
Mileage (1 trips at 250 miles one-way)						mile	\$0.540	\$0
Lodging and Meals (\$88 Lodging, \$25 Meals)						each	\$113.00	\$0
24-Hour Turning Movement Counts						each	\$1,080.00	\$0
48-Hour Continuous Traffic Counts						Lane	\$700.00	\$0
						Subto	tal Expenses	\$0
TO	OTAL CO	STS - TR	AFFIC - S	SUPPLEN	IENTAL A	AGREEME	NT NO. 1	\$6,195
	BASIS	S OF EST	IMATE					
Description								
Additional concept development and traffic analyses to analyz	e potential	modificati	ons to Mills	sap Road a	and a propo	osed backag	je road.	

BRIDGE - SUPPLEMENTAL AGREEMENT NO. 1

		MANHO	OURS							
TASK	PD	PM	SE	STRE	STFE	TECH	ADMIN	TOTAL		
Additional Services										
Bridge Layout Change to match Roadway Change		2		18		32		52		
								0		
								0		
GE - SUPPLEMENTAL AGREEMENT NO. 1	0	2	0	18	0	32	0	52		
		LABOR	COSTS							
Category - Description						Rate	MH	Amount		
PD - Project Director						\$70.00	0	\$0		
PM - Project Manager						\$60.00	2	\$120		
SE - Senior Engineer						\$50.00	0	\$0		
STRE - Structural Engineer						\$50.00	18	\$900		
STFE - Staff Engineer	· · · · · · · · · · · · · · · · · · ·									
FECH - Technician \$35.00 32										
ADMIN - Administrative Assistant \$25.00 0								\$0		
							Subtotal	\$2,140		
						Overhead	200.61%	\$4,293		
							Subtotal	\$6,433		
							Fee	\$772		
						FCCM	0.00%	\$0		
						Subtotal	Labor Costs	\$7,205		
		EXPE	NSES							
ITEM					Quantity	Unit	Rate	Amount		
Printing (8 1/2 x 11)						each	\$0.08	\$0		
Printing (11 x 17)						each	\$0.35	\$0		
Plotting (22 x 34)						each	\$1.35	\$0		
						Subtot	al Expenses	\$0		
то	TAL CO	STS - BR	IDGE - S	UPPLEM	ENTAL A	GREEMEN	NT NO. 1	\$7,205		
	BA	ASIS OF E	STIMAT	E						
Description										
Revision of bridge layout and plans to accommodate the	ne additio	nal roadwa	y width for	separation	n between t	ravel lanes	and bike lanes	S.		

Attachment B - Justification of Costs and Fees - SA 1 December 21, 2018

Job 040688 Sain Street Extension (Fayetteville) (S) Washington County

SUBCONSULTANT SUMMARY SUPPLEMENTAL AGREEMENT NO. 1

TITLE I SERVICES	HOURS	SALARY	FEE	EXPENSES	TOTAL
ENVIRONMENTAL CLEARANCE					
FIELD SURVEYS AND MAPPING	27	\$1,773	\$213	\$10	\$1,996
ROADWAY DESIGN & PLANS	147	\$14,806	\$1,777	\$0	\$16,582
ROW DESIGN & PLANS	142	\$10,710	\$1,285	\$0	\$11,995
GEOTECHNICAL					
FLOODPLAIN MODELING					
SUBCONSULTANT TOTAL TITLE I	316	\$27,289	\$3,275	\$10	\$30,574
SUBCONSULTANT TOTAL PROJECT	316	\$27,289	\$3,275	\$10	\$30,574

FIELD SURVEYS & MAPPING

MCCLELLAND CONSULTING ENGINEERS, INC.

		MANH	IOURS						
TASK	PRE	PM	PLS	PC	CREW	TECH	CLR	TOTAL	
Control Survey (CSUR)									
Field Work								0	
Office Computation & Mapping								0	
Design Survey (DSUR)									
Field Work				8	8			16	
Office Computation & Mapping	1	1	3			4	2	11	
TOTAL MH - FIELD SURVEYS & MAPPING	1	1	3	8	8	4	2	27	
		LABOR	COSTS						
Category - Description						Rate	MH	Amount	
PRE - Principle Engineer						\$52.28	1	\$52.28	
PM - Project Manager						\$37.26	1	\$37.26	
PLS - Registered Land Surveyor	\$37.74	3	\$113.22						
PC - Survey Party Chief		\$28.00	8	\$224.00					
CREW - Survey Field Crewman						\$15.00	8	\$120.00	
TECH - Technician	\$24.00	4	\$96.00						
CLR - Clerical \$21.00 2									
							Subtotal	\$684.76	
						Overhead	158.92%	\$1,088.22	
							Subtotal	\$1,772.98	
							Fee	\$212.76	
						FCCM	0.00%	\$0.00	
						Subtotal	Labor Costs	\$1,985.74	
		EXPE	NSES						
ITEM					Quantity	Unit	Rate	Amount	
Printing/Reproduction							\$0.05	\$0.00	
Printing (11 x 17)						each	\$0.10	\$0.00	
Plotting (22 x 34)						each	\$0.35	\$0.00	
Mileage (3 trips @ 6 miles)					18	mile	\$0.580	\$10.44	
Lodging						each		\$0.00	
Meals (per day)						each		\$0.00	
						Subto	tal Expenses	\$10.44	
			TOTAL C	OSTS -	FIELD SU	RVEYS & N	MAPPING	\$1,996.18	
	В	ASIS OF	ESTIMAT	E					
Description									
Field survey associated with addition of 12,000 SF par	king lot fo	r approx 2	7 bays on l	JA Campı	ıs.				

ROW DESIGN & PLANS

at 102 hrs for this work)

MCCLELLAND CONSULTING ENGINEERS, INC.

		MANH	OURS						
TASK	PRE	PM	PLS	PC	CREW	TECH	CLR	TOTAL	
Design Survey (DSUR)									
Field Work									
Office Computation & Mapping	1	4	51					56	
TOTAL MH - FIELD SURVEYS & MAPPING	1	4	51	0	0	0	0	56	
		LABOR	COSTS					Amount	
Category - Description Rate MH									
PRE - Principle Engineer						\$52.28	1	\$52.2	
PM - Project Manager						\$37.26	4	\$149.0	
PLS - Registered Land Surveyor						\$37.74	51	\$1,924.7	
PC - Survey Party Chief						\$28.00	0	\$0.0	
CREW - Survey Field Crewman						\$15.00	0	\$0.0	
TECH - Technician						\$24.00	0	\$0.0	
CLR - Clerical						\$21.00	0	\$0.0	
							Subtotal	\$2,126.0	
						Overhead	158.92%	\$3,378.7	
							Subtotal	\$5,504.7	
							Fee	\$660.5	
						FCCM	0.00%	\$0.0	
						Subtota	Labor Costs	\$6,165.3	
		EXPE	NSES						
ITEM					Quantity	Unit	Rate	Amount	
Printing/Reproduction							\$0.05	\$0.0	
Printing (11 x 17)						each	\$0.10	\$0.0	
Plotting (22 x 34)						each	\$0.35	\$0.0	
Mileage (3 trips @ 6 miles)						mile	\$0.580	\$0.0	
Lodging						each		\$0.0	
Meals (per day)						each		\$0.0	
						Subto	tal Expenses	\$0.00	
			TOTAL C	OSTS -	FIELD SUI	RVEYS & I	MAPPING	\$6,165.37	
	В	ASIS OF	ESTIMAT	Έ					
Description									

ROW DESIGN & PLANS

MCCLELLAND CONSULTING ENGINEERS, INC.

TASK taking of ROW for Appraisers	PRE	PM 2	PLS 8	PC	CREW	TECH	CLR	TOTAL
taking of ROW for Appraisers		2	8	20				
taking of ROW for Appraisers		2	8	20				
			Ü	38	38			86
TOTAL MH - FIELD SURVEYS & MAPPING	0	2	8	38	38	0	0	86
		LABOR	COSTS					
Category - Description Rate MH								
RE - Principle Engineer						\$52.28	0	\$0.00
M - Project Manager						\$37.26	2	\$74.52
LS - Registered Land Surveyor						\$37.74	8	\$301.92
C - Survey Party Chief		\$28.00	38	\$1,064.00				
REW - Survey Field Crewman		\$15.00	38	\$570.00				
ECH - Technician		\$24.00	0	\$0.00				
ELR - Clerical						\$21.00	0	\$0.00
					_	-	Subtotal	\$2,010.44
Overhead 158.92%								
							Subtotal	\$5,205.43
							Fee	\$624.65
						FCCM	0.00%	\$0.00
						Subtotal	Labor Costs	\$5,830.08
		EXPE	NSES					
ГЕМ					Quantity	Unit	Rate	Amount
rinting/Reproduction							\$0.05	\$0.00
rinting (11 x 17)						each	\$0.10	\$0.00
lotting (22 x 34)						each	\$0.35	\$0.00
fileage (3 trips @ 6 miles)						mile	\$0.580	\$0.00
odging						each		\$0.00
leals (per day)						each		\$0.00
					-	Subtot	al Expenses	\$0.00
			TOTAL C	OSTS - I	FIELD SUI	RVEYS & N	IAPPING	\$5,830.08
	B	ASIS OF	ESTIMAT	E				
escription								

ROADWAY DESIGN & PLANS

MCCLELLAND CONSULTING ENGINEERS, INC.

		MANH	IOURS					
TASK	PRE	PM	PE	TECH	CD	DRAFT	CLR	TOTAL
Conceptual Design (30%)								
30% Roadway Plans including QA/QC	6	1						7
30% Construction Estimate								0
Preliminary Design (50%)								
50% Roadway Plans including QA/QC	1	24						25
50% Construction Estimate	1	1						2
Field Inspection/ Plan Review Meeting	1	1						2
Final Design (90%)								
90% Roadway Plans including QA/QC	4	8		16				28
Develop Final Quantities and Estimate		2						2
Field Inspection/ Plan Review Meeting	1	3		1				5
Final Design (100%)								
Address 90% Review Comments	1	4						5
TOTAL MH - ROADWAY DESIGN & PLANS	15	44	0	17	0			76
		LABOR	COSTS					
Category - Description						Rate	MH	Amount
PRE - Principle Engineer						\$52.28	15	\$784.20
PM - Project Manager						\$37.26	44	\$1,639.44
PE - Project Engineer							0	\$0.00
TECH - Technician							17	\$544.00
CD - Chief Draftsman							0	\$0.00
DRAFT - Draftsman							0	\$0.00
CLR - Clerical							0	\$0.00
							Subtotal	\$2,967.64
						Overhead	158.92%	\$4,716.17
							Subtotal	\$7,683.81
							Fee	\$922.06
FCCM 0.00%								\$0.00
						Subtota	l Labor Costs	\$8,605.87
		EXPE	NSES					
ITEM					Quantity	Unit	Rate	Amount
Printing (8 1/2 x 11)						each	\$0.05	\$0.00
Printing (11 x 17)						each	\$0.10	\$0.00
Plotting (22 x 34)						each	\$0.35	\$0.00
Mileage (4 trips at 6 miles)		_				mile	\$0.580	\$0.00
Lodging						each		\$0.00
Meals (per day)						each		\$0.00
Roll Plot						lf		
					-	Subto	otal Expenses	\$0.00
			TOTAL C	OSTS - R	OADWA	Y DESIGN	& PLANS	\$8,605.87

BASIS OF ESTIMATE

Description

Design of approx 12,000 SF parking lot for approx 27 bays on UA Campus. Realignment of existing sidewalk to connect to new construction.

Provide connectivity to Front Street and existing UA on-site access roads. Modifications to exisitng parking area to increase capacity. Tree removal mitigation & landscape design. Coordination with UA and City of Fayetteville regards design.

ROADWAY DESIGN & PLANS

MCCLELLAND CONSULTING ENGINEERS, INC.

		MANH	IOURS					
TASK	PRE	PM	PE	TECH	CD	DRAFT	CLR	TOTAL
Preliminary Design (50%)								
50% Roadway Plans including QA/QC	1	8						9
50% Construction Estimate								0
Field Inspection/ Plan Review Meeting								0
Final Design (90%)								
90% Roadway Plans including QA/QC		16						16
Develop Final Quantities and Estimate		2						2
Field Inspection/ Plan Review Meeting	1	1						2
Final Design (100%)								
Address 90% Review Comments	1	2						3
TOTAL MH - ROADWAY DESIGN & PLANS	3	29	0	0	0			32
TOTAL MIT - ROADWAT DESIGN & PLANS	3		COSTS	U	U			32
Category - Description		LABOR				Rate	MH	Amount
						\$52.28	3	\$156.84
PRE - Principle Engineer PM - Project Manager							29	\$1,080.54
PE - Project Manager PE - Project Engineer							0	\$0.00
TECH - Technician							0	\$0.00
CD - Chief Draftsman							0	\$0.00
DRAFT - Draftsman							0	\$0.00
CLR - Clerical							0	\$0.00
CLR - Clerical \$21.00 0 Subtotal								\$1,237.38
						Overhead	158.92%	\$1,966.44
							Subtotal	\$3,203.82
							Fee	\$384.46
						FCCM	0.00%	\$0.00
Subtotal Labor Cos							l Labor Costs	\$3,588.28
		EXPE	NSES				•	
ITEM					Quantity	Unit	Rate	Amount
Printing (8 1/2 x 11)						each	\$0.05	\$0.00
Printing (11 x 17)						each	\$0.10	\$0.00
Plotting (22 x 34)						each	\$0.35	\$0.00
Mileage (4 trips at 6 miles)						mile	\$0.580	\$0.00
Lodging						each		\$0.00
Meals (per day)						each		\$0.00
Roll Plot						If		
Subtotal Expenses							\$0.00	
TOTAL COSTS - ROADWAY DESIGN & PLANS						\$3,588.28		

BASIS OF ESTIMATE

Description

Revisons to design to include rerouting of electrical associated with trail lighting installed on-site after field survey complete and design phase progressed beyond 60% submittal. Incldues conduit, lights, cable, and details.

ROADWAY DESIGN & PLANS

MCCLELLAND CONSULTING ENGINEERS, INC.

		MANH	IOURS					
TASK	PRE	PM	PE	TECH	CD	DRAFT	CLR	TOTAL
Preliminary Design (50%)								
50% Roadway Plans including QA/QC								0
50% Construction Estimate								0
Field Inspection/ Plan Review Meeting								0
Final Design (90%)								
90% Roadway Plans including QA/QC		24						24
Develop Final Quantities and Estimate	2	4						6
Field Inspection/ Plan Review Meeting	1	1						2
Final Design (100%)								
Address 90% Review Comments	1	6						7
TOTAL MH - ROADWAY DESIGN & PLANS	4	35	0	0	0			39
		LABOR	COSTS				L	
Category - Description						Rate	MH	Amount
PRE - Principle Engineer							4	\$209.12
PM - Project Manager							35	\$1,304.10
PE - Project Engineer							0	\$0.00
TECH - Technician							0	\$0.00
CD - Chief Draftsman							0	\$0.00
DRAFT - Draftsman	\$20.00	0	\$0.00					
CLR - Clerical							0	\$0.00
CLR - Clerical \$21.00 0 Subtotal								
						Overhead	158.92%	\$2,404.81
Subtotal								\$3,918.03
							Fee	\$470.16
FCCM 0.00%								\$0.00
						Subtota	l Labor Costs	\$4,388.19
		EXPE	NSES					
ITEM					Quantity	Unit	Rate	Amount
Printing (8 1/2 x 11)						each	\$0.05	\$0.00
Printing (11 x 17)						each	\$0.10	\$0.00
Plotting (22 x 34)						each	\$0.35	\$0.00
Mileage (4 trips at 6 miles)						mile	\$0.580	\$0.00
Lodging						each		\$0.00
Meals (per day)						each		\$0.00
Roll Plot						lf		
						Subto	otal Expenses	\$0.00
TOTAL COSTS - ROADWAY DESIGN & PLANS							\$4,388.19	

BASIS OF ESTIMATE

Revisons to project design for i) elevating of trail per City request, ii) changes to design plans and all cross-sections to reflect revisions to design by way of ROW limits and grading easements.