

AMENDMENT NO. 1
to the
PROFESSIONAL ENGINEERING SERVICES AGREEMENT
BETWEEN THE CITY OF COLUMBIA, MISSOURI,
AND
BARTLETT & WEST, INC.

This Amendment No. 1 to the June 6, 2016 professional engineering services agreement between the **CITY OF COLUMBIA** ("CITY"), and **BARTLETT & WEST, INC.** ("ENGINEER") is made as of the date of the last signatory noted below.

RECITALS

- A. WHEREAS, on June 6, 2016, CITY and ENGINEER entered into an agreement for professional engineering services for the Phase 1 of the Nifong Boulevard/Sinclair Road and the Vawter School Road/Old Mill Creek Intersections Improvement Project (hereinafter "Agreement"); and
- B. WHEREAS, the Parties hereto desire to formally amend the Agreement with this First Amendment (hereinafter "First Amendment") to add additional services and desire to be bound by the terms contained in the Agreement as amended by this First Amendment to the Agreement.

AMENDMENT

NOW, THEREFORE, in consideration of the mutual benefit to be derived by the parties, it is agreed to amend the Agreement, as follows.

- 1. Section 2.1.1 is replaced with the following:
"2.1.1 Perform professional engineering services as set forth in Attachment A – "Scope of Basic Services," dated May 13, 2016, and as set forth in Attachment A1 – "Supplemental Scope of Basic Services" dated November 20, 2017 to this First Amendment. ENGINEER shall also perform the following services, as more fully detailed in Attachment A1 to this First Amendment:
 - a. Task 1: Preliminary/Right-of-Way Services;
 - b. Task 2: Final Design Services;
 - c. Task 3: Project Management; and
 - d. Task 4: Bidding and Construction Phase Services;
- 2. Section 6.1.1.1 of the Agreement shall be replaced with the following:
"For time spent by personnel, payment at the hourly rates indicated in the "Schedule of Hourly Labor Billing Rates" (attached to this First Amendment). Such rates include overhead and profit. The schedule is effective to January 1, 2018, and may be revised thereafter."
- 3. Section 6.1.2 of the Agreement shall be replaced with the following:

“Total payment for Scope of Services and all other expenses and costs to City under this Agreement and the First Amendment and described herein shall not exceed three-hundred thirty-one thousand six-hundred forty-five dollars and fourteen cents (\$331,655.14).”

4. All other terms of the Agreement shall remain unchanged and in full force and effect.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have duly executed this Amendment No. 1 to the Agreement, on the day and year last written below.

CITY OF COLUMBIA, MISSOURI

By: _____
Mike Matthes, City Manager
Date: _____

ATTEST:

By: _____
Sheela Amin, City Clerk


APPROVED AS TO FORM:

By: _____
Nancy Thompson, City Counselor

CERTIFICATION: I, hereby certify that this contract is within the purpose of the appropriation to which it is to be charged, Account Number 440-8800-528.40-23, 00634, and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefor.

Michele Nix, Director of Finance

BARTLETT & WEST, INC.

By: 
Robert A. Gilbert
11-26-17

Date

ATTEST:

By: 
Name: 11-26-17

ATTACHMENT A1

Supplemental Scope of Basic Services

And

Schedule of Hourly Labor Billing Rates

ENGINEERING FEE ESTIMATE - BARTLETT & WEST
SUPPLEMENTAL SCOPE OF BASIC SERVICES
ROUNABOUT DESIGN SERVICES
NIFONG/SINCLAIR AND VAWTER SCHOOL/OLD MILL CREEK
CITY OF COLUMBIA, MO
11/20/2017

TASK 1: PRELIMINARY/RIGHT-OF-WAY SERVICES

Labor:	A	Engineer IX	6 @	\$188.00	\$1,128.00
	B	PM/Engineer VI	38 @	\$148.00	\$5,624.00
	C	Engineer II	293 @	\$108.00	\$31,644.00
	D	Engineering Tech VII	142 @	\$104.00	\$14,768.00
	E	Landscape Arch I	0 @	\$98.00	\$0.00
	F	Administrator II	0 @	\$74.00	\$0.00
		Sub-Total Labor	479	TOTAL Labor TASK 1	\$53,164.00
Expenses:		Mileage - Field Visits and Meetings	150 @	\$0.535	\$80.25
		CADD Charges @ \$7.00/hour	311 @	\$7.00	\$2,177.00
		Printing and Plotting	1 @	\$200.00	\$200.00
		Subconsultant - CDI (Survey, ROW, Legal Descriptions)	1 @	\$8,603.06	\$8,603.06
				TOTAL Expenses TASK 1	\$11,060.31
				TOTAL Labor + Expenses TASK 1	\$64,224.31

TASK 2: FINAL DESIGN SERVICES

Labor:	A	Engineer IX	13 @	\$188.00	\$2,444.00
	B	PM/Engineer VI	96 @	\$148.00	\$14,208.00
	C	Engineer II	479 @	\$108.00	\$51,732.00
	D	Engineering Tech VII	454 @	\$104.00	\$47,216.00
	E	Landscape Arch I	0 @	\$98.00	\$0.00
	F	Administrator II	2 @	\$74.00	\$148.00
		Sub-Total Labor	1044	TOTAL Labor TASK 2	\$115,748.00
Expenses:		Mileage - Field Visits and Meetings	150 @	\$0.535	\$80.25
		CADD Charges @ \$7.00/hour	791 @	\$7.00	\$5,537.00
		Printing and Plotting	1 @	\$400.00	\$400.00
				TOTAL Expenses TASK 2	\$6,017.25
				TOTAL Labor + Expenses TASK 2	\$121,765.25

TASK 3: PROJECT MANAGEMENT

Labor:	A	Engineer IX	13 @	\$188.00	\$2,444.00
	B	PM/Engineer VI	52 @	\$148.00	\$7,696.00
	C	Engineer II	20 @	\$108.00	\$2,160.00
	D	Engineering Tech VII	0 @	\$104.00	\$0.00
	E	Landscape Arch I	0 @	\$98.00	\$0.00
	F	Administrator II	8 @	\$74.00	\$592.00
		Sub-Total Labor	93	TOTAL Labor TASK 3	\$12,892.00
Expenses:		Mileage - Field Visits and Meetings	150 @	\$0.535	\$80.25
		CADD Charges @ \$7.00/hour	0 @	\$7.00	\$0.00
		Printing and Plotting	1 @	\$10.00	\$10.00
				TOTAL Expenses TASK 3	\$90.25
				TOTAL Labor + Expenses TASK 3	\$12,982.25

ENGINEERING FEE ESTIMATE - BARTLETT & WEST
SUPPLEMENTAL SCOPE OF BASIC SERVICES
ROUNDBOUT DESIGN SERVICES
NIFONG/SINCLAIR AND VAWTER SCHOOL/OLD MILL CREEK
CITY OF COLUMBIA, MO

11/20/2017

TASK 4: BIDDING AND CONSTRUCTION PHASE SERVICES

Labor:	A	Engineer IX	0 @	\$188.00	\$0.00
	B	PM/Engineer VI	20 @	\$148.00	\$2,960.00
	C	Engineer II	4 @	\$108.00	\$432.00
	D	Engineering Tech VII	0 @	\$104.00	\$0.00
	E	Landscape Arch I	0 @	\$98.00	\$0.00
	F	Administrator II	0 @	\$74.00	\$0.00
		Sub-Total Labor	24	TOTAL Labor TASK 4	\$3,392.00
Expenses:		Mileage - Field Visits and Meetings	400 @	\$0.535	\$214.00
				TOTAL Expenses TASK 4	\$214.00
				TOTAL Labor + Expenses TASK 4	\$3,606.00
				TOTAL COST FOR ALL SERVICES (Labor plus Expenses)	<u>\$202,577.81</u>
				2018 rate increase: 3%	\$6,077.33
				TOTAL COST FOR ALL SERVICES (Labor plus Expenses)	<u>\$208,655.14</u>

ENGINEERING FEE ESTIMATE - BARTLETT & WEST															
SUPPLEMENTAL SCOPE OF BASIC SERVICES															
ROUNDBOUT DESIGN SERVICES															
NIFONG/SINCLAIR AND VAWTER SCHOOL/OLD MILL CREEK															
CITY OF COLUMBIA, MO															
11/20/2017								Eng. VIII	PM/Eng. IV	Eng. II	Eng Tech IV	Land Arch I	Adm. II	Total	
								A	B	C	D	E	F	Hours	
TASK 1: PRELIMINARY/RIGHT-OF-WAY SERVICES															
1.1	Conduct drainage design for each intersection including drainage areas, hydrologic calculations using Rational Method and hydraulic calculations using Manning's Equation.								4	80					84
1.2	Create set of preliminary plans for project, utilizing AUTOCAD/Civil 3D, consisting of the following:													0	
1.2.1	Cover Sheet									1	2			3	
1.2.2	Typical Sections								1	8	16			25	
1.2.3	Right-of-Way Plan View (assumes 2 sheets at 60 scale)								1	8	12			21	
1.2.4	Plan and Profile (assumes 8 sheets at 20 scale)							2	6	40	40			88	
1.2.5	Storm Sewer Plan and Profile (assumes 4 sheets at 20 scale)							1	4	16	32			53	
1.2.6	Grading Plan							1	4	40	8			53	
1.2.7	Driveway Profiles (assumes 2 sheets)								1	16	8			25	
1.2.8	Cross Sections							2	4	40	24			70	
1.3	Prepare a single preliminary plans cost estimate including both intersections.								1	24				25	
1.4	Submit the preliminary plans and cost estimates to the City for review.								1	2				3	
1.5	Conduct 1 meeting with City to review preliminary plans.								4	4				8	
1.6	Conduct 1 meeting with utility companies to discuss project impacts.								6	12				18	
1.7	Coordinate with CDI to provide legal descriptions (assumes 8 tracts). City to negotiate and acquire easements/Right-of-Way								1	2				3	
	Subtotal Task 1							6	38	293	142	0	0	479	
TASK 2: FINAL DESIGN SERVICES															
2.1	Revise roadway geometrics based on negotiations with property owners.							1	4	24	16			45	
2.2	Coordination with City on Water Quality location and storm sewer routing.							1	4	8				13	
2.3	Coordination with City on Nifong modifications.								6	12				18	
2.4	Develop final plans based on review comments from City staff regarding preliminary plans. Final plans to consist of:													0	
2.4.1	Cover Sheet										2			2	
2.4.2	Quantity Sheet									8	16			24	
2.4.3	General Notes/Standard Details								2	6	12			20	
2.4.4	Typical Sections								1	2	6			9	
2.4.5	Coordinate/Control Points Sheet								1	2	6			9	
2.4.6	Right-of-Way Plan View (assumes 2 sheets at 60 scale)								2	16	24			42	
2.4.7	Plan and Profile (assumes 8 sheets at 20 scale)								2	16	24			42	
2.4.8	Curb Return Plan and Profile (assumes 8 sheets at 20 scale)							1	4	40	32			77	
2.4.9	Splitter Island Plan and Profile (assumes 8 sheets at 20 scale)							1	4	40	32			77	
2.4.10	Storm Sewer Plan and Profile (assumes 4 sheets at 20 scale)								2	16	12			30	
2.4.11	Grading Plan							1	2	16	12			31	
2.4.12	Roundabout Geometry Plan								4	32	40			76	
2.4.13	Drive Profiles								2	12	8			22	
2.4.14	Joint Details								4	16	24			44	
2.4.15	Pavement Marking and Signing Plan								2	16	20			38	
2.4.16	Lighting Plan							1	4	35	60			100	

ENGINEERING FEE ESTIMATE - BARTLETT & WEST								
SUPPLEMENTAL SCOPE OF BASIC SERVICES								
ROUNDBOUT DESIGN SERVICES								
NIFONG/SINCLAIR AND VAWTER SCHOOL/OLD MILL CREEK								
CITY OF COLUMBIA, MO								
11/20/2017		Eng. VIII	PM/Eng. IV	Eng. II	Eng Tech IV	Land Arch I	Adm. II	Total Hours
		A	B	C	D	E	F	
2.4.17	Traffic Control and Phasing Plan (including evaluation of up to 3 detour alternatives)	2	6	80	40			128
2.4.18	Erosion and Sediment Control Sheet		1	4	8			13
2.4.19	Cross Sections	2	4	24	32			62
2.5	Compute final quantities, develop bid form and prepare Engineer's Estimate for project. Submit to City in digital format.		4	16	12			32
2.6	Develop any project specific technical specifications to be inserted into the City's Project Manual for bidding.		12	4				16
2.7	Submit the final plans, bid forms and Engineer's Estimates to the City for review.		1	2			1	4
2.8	Conduct 1 final design review meeting with City staff during course of final design.	2	4	4				10
2.9	Make final changes to plans, technical special provisions, bid form and Engineer's Estimate based on City staff comments. Sign and Seal.	1	8	16	16		1	42
2.10	Conduct a final design coordination meeting with utility companies.		6	12				18
Subtotal Task 2		13	96	479	454	0	2	1044
TASK 3: PROJECT MANAGEMENT								
3.1	General communication with City.	1	16					17
3.2	Perform duties necessary for administration of project contract and invoices.		8				8	16
3.3	Perform periodic reviews of project for quality assurance purposes. Perform a quality control review at each stage.	8	4					12
3.4	Perform general coordination with utilities and project stakeholders.	4	16	12				32
3.5	Perform a field check of proposed construction improvements.		8	8				16
Subtotal Task 3		13	52	20	0	0	8	93
TASK 4: BIDDING AND CONSTRUCTION PHASE SERVICES								
4.1	Attend Prebid Conference. City to run the conference.		4					4
4.2	Respond to questions during bidding phase.		4	4				8
4.3	Attend Preconstruction Conference. City to run the conference.		4					4
4.4	Site visits during construction. 8 hours total assumed. Further time would be additional services.		8					8
Subtotal Task 4		0	20	4	0	0	0	24
TOTAL HOURS FOR TASKS 1 - 4		32	206	796	596	0	10	1640

Subject:

Nifong Blvd. at Sinclair Rd. and Country Woods Rd.
Columbia, Missouri
Survey hours



By: PAG
CDI No. 2073

Property Boundary and Topographic Survey

Task Description	Hours						Total Hours	Fee	
	Project Mngr I	Project Eng. II	Land Surv. II	Land Surv. I	Survey Tech II	Survey Tech I			
Survey									
Establish Horizontal and Vertical Control			2		4	4	10	\$ 754.54	
Perform Topographic and Utility Survey for additional areas					20	20	40	\$ 2,711.80	
Draft Topographic and Utility Survey and combine with base drawing					10		10	\$ 769.70	
Review Topographic and Utility Survey, QA/QC			4				4	\$ 424.36	
Prepare legal descriptions for RW and easements			12		24		36	\$ 3,120.36	
Subtotal Labor Hours	0	0	18	0	58	24	100	\$ 7,780.76	
	Quantity	Units	Unit Cost						
Direct Costs									
Mileage - Field Visit	520	miles	0.54						\$ 278.20
Mileage - Project Meetings	260	miles	0.54						\$ 139.10
Prints	10		2.50						\$ 25.00
Lodging	2	Each	89.00						\$ 178.00
Per Diem	2	Each	51.00						\$ 102.00
Survey Materials (stakes, rebar, etc)	1	Lump Sum	100.00						\$ 100.00
TOTAL								\$ 8,603.06	

Notes:

CDI - MoDot Approved Billing Rates - 2017

Project Mngr I	\$ 144.09
Project Eng. II	\$ 98.89
Land Surv. II	\$ 106.09
Land Surv. I	\$ 80.15
Survey Tech II	\$ 76.97
Survey Tech I	\$ 58.62

BARTLETT & WEST, INC.
2017 SCHEDULE OF HOURLY CHARGES
Effective January 1, 2017

Engineer XI/Landscape Arch XI	\$220.00	Right-of-Way Technician VI	\$118.00
Engineer X/Landscape Arch X	200.00	Right-of-Way Technician V	109.00
Engineer IX/Landscape Arch IX	188.00	Right-of-Way Technician IV	99.00
Engineer VIII/Landscape Arch VIII	175.00	Right-of-Way Technician III	90.00
Engineer VII/Landscape Arch VII	161.00	Right-of-Way Technician II	79.00
Engineer VI/Landscape Arch VI	148.00	Right-of-Way Technician I	68.00
Engineer V/Landscape Arch V	138.00		
Engineer IV/ Landscape Arch IV	129.00	GIS Coordinator IX	\$220.00
Engineer III/Landscape Arch III	118.00	GIS Coordinator VIII	208.00
Engineer II/Landscape Arch II	108.00	GIS Coordinator VII	198.00
Engineer I/Landscape Arch I	98.00	GIS Coordinator VI	184.00
		GIS Coordinator V	174.00
		GIS Coordinator IV	158.00
Engineering Technician XI	\$165.00	GIS Coordinator III	145.00
Engineering Technician X	140.00	GIS Coordinator II	130.00
Engineering Technician IX	127.00	GIS Coordinator I	120.00
Engineering Technician VIII	114.00		
Engineering Technician VII	104.00	GIS Developer/DBA V	\$158.00
Engineering Technician VI	96.00	GIS Developer/DBA IV	148.00
Engineering Technician V	90.00	GIS Developer/DBA III	138.00
Engineering Technician IV	83.00	GIS Developer/DBA II	128.00
Engineering Technician III	76.00	GIS Developer/DBA I	118.00
Engineering Technician II	70.00		
Engineering Technician I	65.00	GIS Analyst V	\$127.00
		GIS Analyst IV	117.00
Surveyor X	\$175.00	GIS Analyst III	107.00
Surveyor IX	160.00	GIS Analyst II	97.00
Surveyor VIII	145.00	GIS Analyst I	87.00
Surveyor VII	133.00		
Surveyor VI	123.00	GIS Technician IV	\$88.00
Surveyor V	109.00	GIS Technician III	79.00
Surveyor IV	98.00	GIS Technician II	69.00
Surveyor III	88.00	GIS Technician I	58.00
Surveyor II	77.00		
Surveyor I	67.00	Project Coordinator VII	\$208.00
		Project Coordinator VI	180.00
Survey Technician VIII	\$123.00	Project Coordinator V	165.00
Survey Technician VII	109.00	Project Coordinator IV	140.00
Survey Technician VI	98.00	Project Coordinator III	125.00
Survey Technician V	85.00	Project Coordinator II	115.00
Survey Technician IV	75.00	Project Coordinator I	103.00
Survey Technician III	66.00		
Survey Technician II	58.00	Systems Analyst	\$160.00
Survey Technician I	53.00	Systems Administrator	120.00
		Systems Technician	80.00
Construction Eng. Tech IX**	\$145.00		
Construction Eng. Tech VIII	135.00	Administrator VI	\$125.00
Construction Eng. Tech VII	127.00	Administrator V	110.00
Construction Eng. Tech VI	117.00	Administrator IV	97.00
Construction Eng. Tech V	108.00	Administrator III	82.00
Construction Eng. Tech IV	98.00	Administrator II	74.00
Construction Eng. Tech III	86.00	Administrator I	66.00
Construction Eng. Tech II	75.00		
Construction Eng. Tech I	68.00	Administrative Technician V	\$72.00
		Administrative Technician IV	65.00
Right-of-Way Specialist IV	\$208.00	Administrative Technician III	58.00
Right-of-Way Specialist III	165.00	Administrative Technician II	53.00
Right-of-Way Specialist II	143.00	Administrative Technician I	47.00
Right-of-Way Specialist I	127.00		

**Formerly Field Representative category

The listed rates are subject to annual adjustment January 1 of each year

BWE-2017