

**SUPPLEMENTAL AGREEMENT NO. 1  
TO  
ENGINEERING SERVICES CONTRACT**

This Supplemental Agreement is made part of an agreement dated January 11, 2021 between the City of Republic and Olsson for design and construction inspection of project STBG-6900(813). The purpose of this Supplemental Agreement is to add subconsultant Stone Point Services for archeological research and reporting. These additional services shall be in an amount not to exceed (Fifteen Thousand Five Hundred Dollars and Zero Cents) (\$15,500.00) without further authorization. The total design phase services shall be in an amount not to exceed (Two Hundred Thirty Nine Thousand Two Hundred Eleven Dollars and Twenty-Nine Cents) (\$239,211.29). Attachment A outlines the cost breakdown for this Supplemental Agreement. Exhibit 1 outlines the full scope of services.

Supplement Agreement No. 1 accepted as defined herein:

OWNER: \_\_\_\_\_ ENGINEER: Olsson, Inc.

BY: \_\_\_\_\_ BY:  \_\_\_\_\_  
Jonathan Peitz

TITLE: \_\_\_\_\_ TITLE: Professional Engineer

DATE: \_\_\_\_\_ DATE: January 4, 2022

ATTEST:

BY: \_\_\_\_\_ BY:  \_\_\_\_\_  
Reid Catt

TITLE: \_\_\_\_\_ TITLE: Team Leader

DATE: \_\_\_\_\_ DATE: January 4, 2022

Executed by the City/County on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**ATTACHMENT A  
SUPPLEMENTAL AGREEMENT NO. 1  
(01.04.2021)**

DESIGN Phase Services (Additional):

Total Supplemental Agreement No. 1 \$15,500.00

Summary Design Phase:

Original Agreement	\$223,711.29
Supplemental Agreement	\$15,500.00

Total	\$239,211.29
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### Scope of Work

#### *Cultural Resources Survey of the Shuyler Creek Trail Project, Greene County, Missouri*

Prepared by:  
Lindsay P. Dyle  
Senior Archaeologist  
Stone Point Services, LLC

Stone Point Services has been asked to provide a scope of work and fee for this project by Ms. Kyleen Kelly of Olsson. Stone Point Services is providing this scope of work to outline the requirements of the Missouri State Historic Preservation Office (SHPO) and tribes with jurisdiction in this area, and how we can meet these requirements efficiently. We propose to conduct a cultural resources survey of the Shuyler Creek Trail Project, which will include pedestrian survey, shovel test excavation, and an architectural assessment of nearby properties.

The project is located in Republic, Greene County, Missouri (see figures) and consists of approximately 9,000-feet of new trail. The trail connects in the west to the existing Shuyler Creek Trail and extends into Wilson's Creek National Battlefield to the east. The Missouri Department of Transportation (MoDOT) Historic Preservation Section has recommended a cultural resources survey of the project area.

#### **ARPA Permit**

Because the project extends into Wilson's Creek National Battlefield, an Archaeological Resources Protection Act (ARPA) permit is required to conduct fieldwork on this portion of the project. Upon notice to proceed, Stone Point Services will begin the ARPA permit application process. It can take up to 60-days to receive the permit from the National Parks Service.

#### **Maps and Background Research**

Our Geographic Information System (GIS) staff will produce maps of the project area, including a United States Geological Survey (USGS) topographic quadrangle map and aerial map showing the project area and the project's Area of Potential Effect (APE), road map, soil map, geology map, shovel test map, historic aerial map, and a historic topographic map. Once maps are completed, background research will be conducted.

The background literature and records search for the project area will be conducted through the Missouri SHPO, National Register of Historic Places (NRHP) database, and online sources for historic maps. The records examined at the Missouri SHPO database include a review of information about previously recorded archaeological and historic resources in the vicinity of the project area. The literature review will be used to determine if previously recorded cultural resources are in or near the project area and will also serve to provide a historical context for the project area.

The background research will also include information about standing historic structures and known cemeteries located near the survey area. As noted above, the purpose of the background research is to inform the Stone Point Services crew of potentially important cultural resources that have been previously recorded near the survey area. Using data from the background research, our researchers can pinpoint those areas that are more likely to contain archaeological sites.

The background research likewise helps to identify historic resources, such as historic buildings and cemeteries that are located close to the project area. Previously recorded archaeological sites and surveys within 1-mile of each project area are assessed and their results summarized. In addition, historic aerial photography available through various online sources, and other historic map sources are used to determine if the project area was previously used for habitation. A combination of all data is used as a general background for the investigations and the resulting report.

### **Archaeological Field Investigations**

Per MoDOT standards, the archaeological APE includes all new and existing right of way and easements (both temporary and permanent).

Pedestrian survey is used to identify whether archaeological deposits are present within the survey area. During the pedestrian survey, transects are walked at no greater than 5-meter (16-foot) intervals to identify surface deposits, if present.

Shovel tests are excavated at 15-meter (50-foot) intervals. Shovel tests measure 40-centimeters (16-inches) in diameter and are excavated to sterile subsoil (pre-Holocene deposits) or at least 80-centimeters (31-inches) below ground surface, whichever is encountered first. Each shovel test is excavated in no greater than 10-centimeter (4-inches) levels to ensure that any artifacts encountered can be plotted by depth. All shovel test fill is screened through 6.35-millimeter (0.25-inch) wire mesh screen. Sites (if encountered) are to be recorded using a Trimble GPS and plotted on USGS 7.5-minute topographic maps. All features are mapped using ArcGIS 10 with standard shapefile formats. If sites or isolated finds are identified, diagnostic artifacts recovered during the survey are to be bagged by site or isolated find and relative provenience within each site. Non-diagnostic artifacts are field analyzed and returned to their original provenience. Due to landowner restrictions, sites are only delineated within the boundaries of the survey area. Sites are documented using Missouri archaeological site forms that are submitted to the Missouri SHPO upon conclusion of the fieldwork. The Project Archaeologist maintains detailed notes on survey methods, sites identified during the survey, and relevant environmental factors associated with each site.

All fieldwork will be completed by a Secretary of the Interior qualified archaeologist.

### **Architectural Field Investigations**

Per MoDOT standards, the architectural APE includes the project's right-of-way and easements, as well as a buffer zone of 50-feet in developed areas and 100-feet in rural areas. The architectural portion of the project will include photographs, descriptions, and NRHP evaluations of any built environment resources (buildings or structures 45 years of age or older).

### **Analysis, Report Preparation, and Curation**

Upon completion of the fieldwork, Stone Point Services will prepare a draft report of the project findings, including the results of both the archaeological and architectural investigations, as well as all background and environmental information pertinent to the project. The report will also include recommendations for any additional work that may be necessary under pertinent federal and/or state laws. The report will follow guidelines provided by the Missouri SHPO and tribes with review authority in Missouri. Collected artifacts outside of Wilson's Creek National Battlefield, if any, will be curated at an approved Missouri facility.

Collected artifacts from within Wilson's Creek National Battlefield, if any, will be curated at the Midwest Archeological Center in Lincoln, NE.

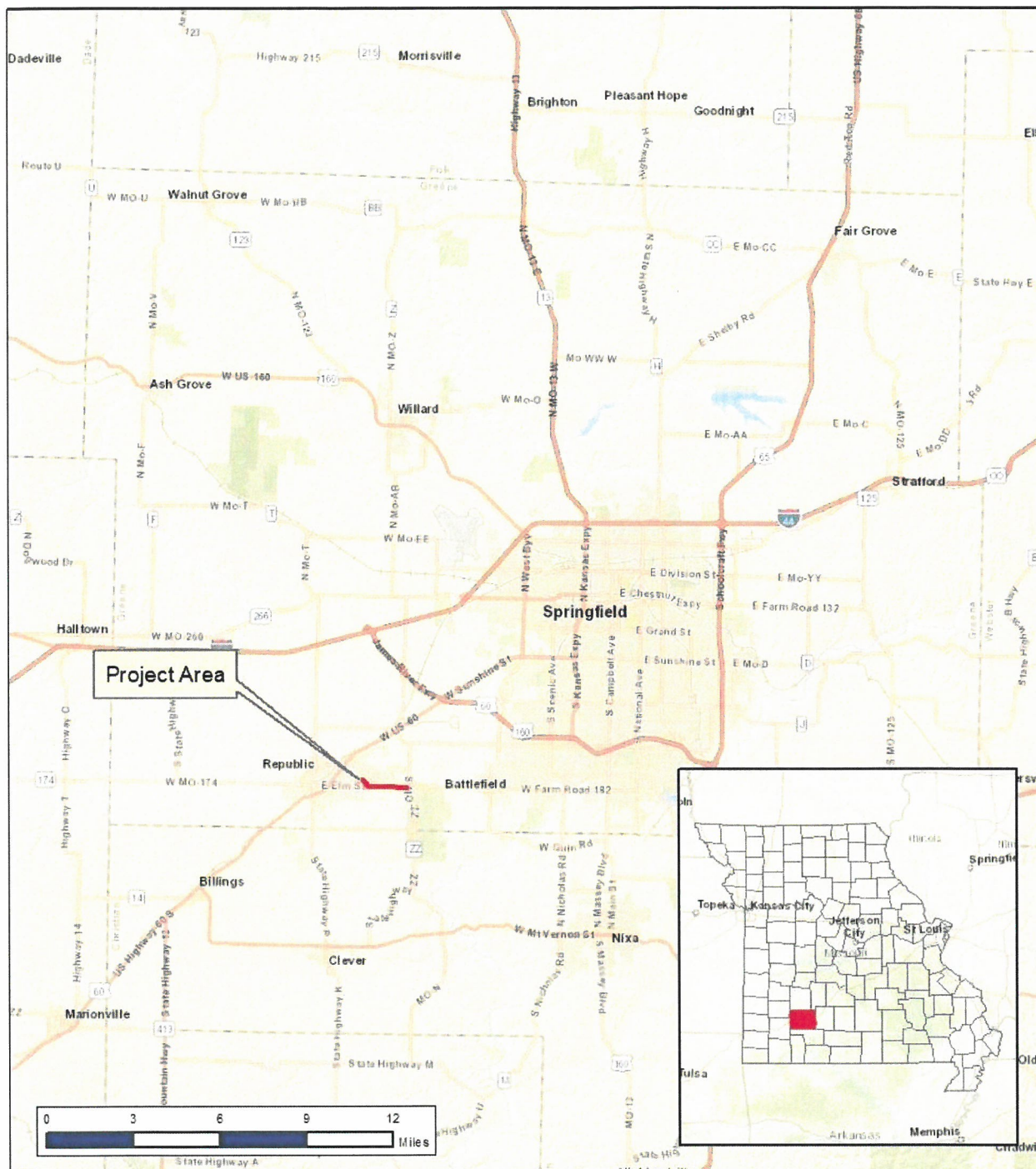
Once the draft report has been reviewed by the client, MoDOT, Missouri SHPO, and various tribes, Stone Point Services will address these comments in a final technical report. A digital copy of the final report will be submitted to the client.

**Time Frame**

The ARPA permit can take up to 60-days to receive from the National Parks Service. However, the permit is only needed for the portion of the project located within Wilson's Creek National Battlefield. Fieldwork on the project located outside of Wilson's Creek National Battlefield will likely begin before the ARPA permit is received.

The project will be completed within 8-weeks upon notice to proceed. If this time frame is not attainable due to weather delays or other issues, Olsson will be notified immediately.





Date: November 30 2021  
 Project No: SPS21C0611  
 Scale: 1 inch = 29,167 feet  
 Drawn By: DL

**Legend**

trail

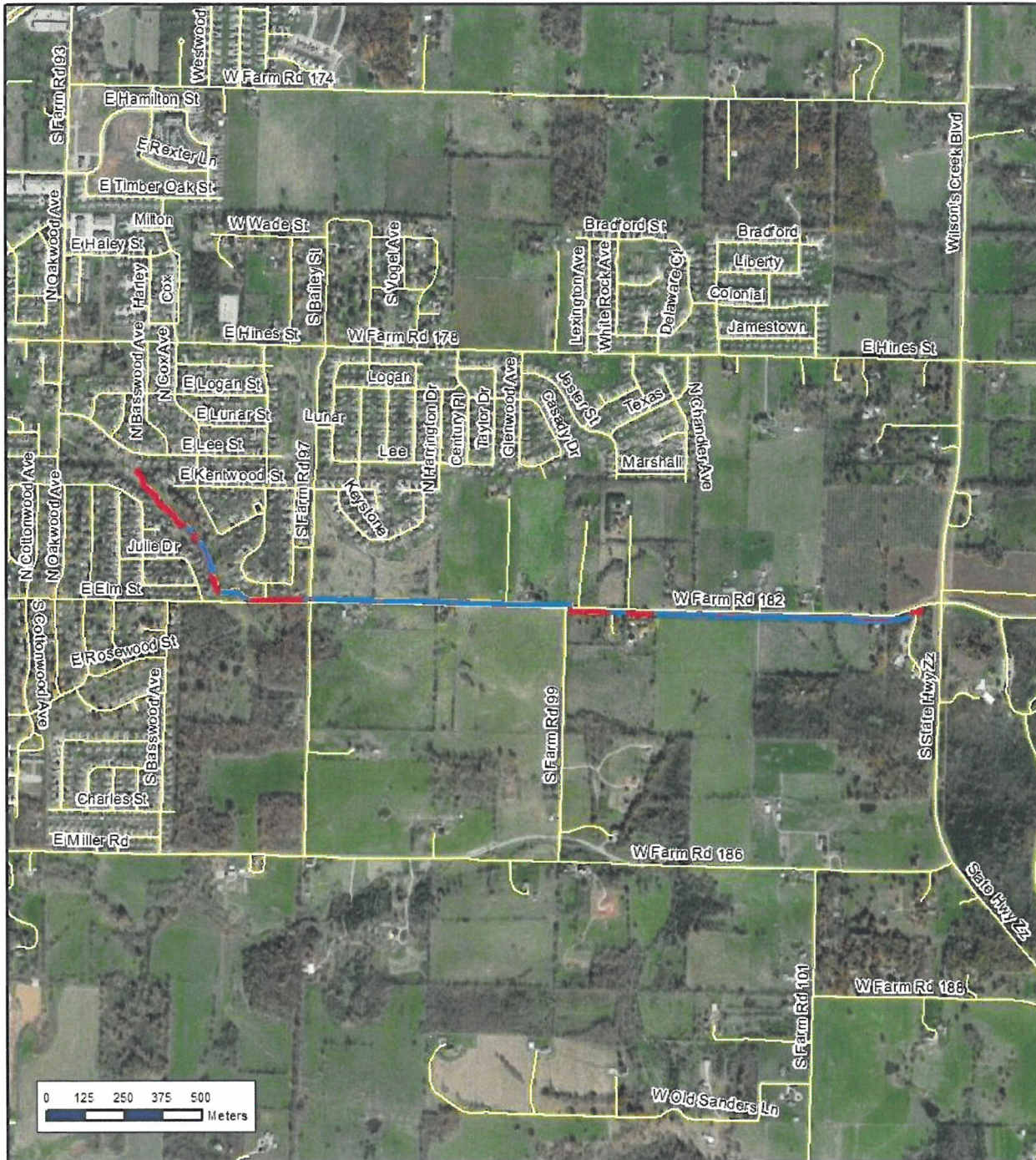
Source: Esri, DeLorme  
 NAVTEQ, USGS



**General Overview Map  
 Shuyler Creek Trail Extension  
 Republic, MO**



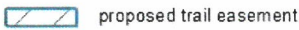
Greene County, Missouri





Date: November 30 2021  
 Project No. SPS21C0611  
 Scale: 1 inch = 1,667 feet  
 Drawn By: DL

**Legend**

-  trail
-  temporary construction easement
-  proposed trail easement



Project Area Overview Map  
 Shuyler Creek Trail Extension  
 Republic, MO

Greene County, Missouri



## Professional Engineering Services Estimate Fee Breakdown by Task

Stone Point Services - Estimated Hours			
Item	Task	Senior Archaeologist	Subtotals
I. Data Collection	Preliminary Research	72	\$4,500
	Maps and Background Research		
	ARPA Permit		
	<b>Sub-Total</b>	<b>72</b>	<b>\$4,500</b>
II. Field Work	Archaeological Field Investigations	72	\$5,000
	Fieldwork		
	Travel		
	<b>Sub-Total</b>	<b>72</b>	<b>\$5,000</b>
III. Reporting	Report	80	\$6,000
	Analysis		
	Report Preparation		
	Curation		
	<b>Sub-Total</b>	<b>80</b>	<b>\$6,000</b>
<b>Total Man-hours</b>		<b>224</b>	
<b>TOTAL</b>			<b>\$15,500</b>



**Contractor Cost Certification**  
**Certification of Final Indirect Costs**

**Firm Name:** Stone Point Services, LLC

**Indirect Cost Rate Proposal**

**(overhead rate % and if applicable, FCCM rate %):** 0

**Date of Proposal Preparation (mm/dd/yyyy):** 12/20/2021

**Fiscal Period Covered (mm/dd/yyyy) to mm/dd/yyyy):** 01/01/2022 to 12/31/2022

**I, the undersigned, certify that I have reviewed the proposal to establish final indirect cost rates for the fiscal period as specified above and to the best of my knowledge and belief:**

- 1. All costs included in this proposal to establish final indirect cost rates are allowable in accordance with the cost principles of the Federal Acquisition Regulations (FAR) of title 48, Code of Federal Regulations (CFR), part 31.**
- 2. This proposal does not include any costs which are expressly unallowable under the cost principles of the FAR of 48 CFR 31.**

**All known material transactions or events that have occurred affecting the firm's ownership organization and indirect cost rates have been disclosed.**

**Signature:** *Katherine McMakin* Digitally signed by Katherine McMakin  
Date: 2021.12.20 09:48:50 -06'00'

**Name of Certifying Official (Print):** Katherine McMakin

**Title:** LLC Member

**Date of Certification (mm/dd/yyyy):** 12/20/2021