



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
Contract

Order Date: 04-19-2023

CORRECT ORDER NUMBER MUST APPEAR ON ALL PACKAGES, INVOICES, AND SHIPPING PAPERS. QUESTIONS CONCERNING THIS ORDER SHOULD BE DIRECTED TO THE DEPARTMENT CONTACT.

Order Number:	CCT 0310 6584 DNR2200000003 3	Procurement Folder:	918464
Document Name:	A/E Services-Beech Fork & Coopers Rock New Cabins	Reason for Modification:	
Document Description:	A/E Services-Beech Fork & Coopers Rock New Cabins	Change Order No. 01 issued to increase the contract per the attached documentation.	
Procurement Type:	Central Contract - Fixed Amt		
Buyer Name:	Joseph E Hager III		
Telephone:	(304) 558-2306		
Email:	joseph.e.hageriii@wv.gov		
Shipping Method:	Best Way	Effective Start Date:	2021-10-06
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	2023-10-05

VENDOR		DEPARTMENT CONTACT		
Vendor Customer Code:	000000160928	Requestor Name:	James H Adkins	
CIVIL & ENVIRONMENTAL CONSULTANTS INC 333 BALDWIN RD		Requestor Phone:	(304) 558-3397	
PITTSBURGH PA 152059702		Requestor Email:	jamie.h.adkins@wv.gov	
US		<div style="font-size: 48px; font-weight: bold;">23</div> <div style="font-size: 24px; font-weight: bold;">FILE LOCATION</div>		
Vendor Contact Phone:	999-999-9999			Extension:
Discount Details:				
#1	No	0.0000	0	
#2	Not Entered			
#3	Not Entered			
#4	Not Entered			

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV 25305 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

4-20-23 RST

Purchasing Division's File Copy

Total Order Amount:	\$1,245,000.00
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ENTERED

PURCHASING DIVISION AUTHORIZATION DATE: <i>Munja 4/20/2023</i> ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM <i>John S. Gray</i> DATE: <i>4/21/2023</i> ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION <i>Beverly Toler</i> DATE: <i>4-21-2023</i> ELECTRONIC SIGNATURE ON FILE
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Extended Description:

Change Order

Change Order No. 01 is issued to increase the original contract to (insert specific date) according to all terms, conditions, prices, and specification contained in the original contract including all authorized change orders.

Effective date of change: 04/01/23

Original Contract Price: \$1,210,000.00

Change Order No. 01 Increase: 35,000.00

Contract New Total: \$1,245,000.00

All provisions of the original Contract and subsequent Change Orders not modified herein shall remain in full force and effect.

No other changes.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
1	81101500	0.00000		0.000000	\$1,210,000.00
Service From	Service To	Manufacturer		Model No	
2021-10-06	2023-10-05				

Commodity Line Description: Civil engineering

Extended Description:

Architectural/engineering services and contract administration for new cabins at Beech Fork State Park and Coopers Rock State Forest.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
2	81101500	0.00000		0.000000	\$35,000.00
Service From	Service To	Manufacturer		Model No	
2021-10-06	2023-10-05				

Commodity Line Description: Change Order No. 01

Extended Description:

Architectural/engineering services and contract administration for new cabins at Beech Fork State Park and Coopers Rock State Forest.

APPROVED
[Signature]
4/19/23



Governor Jim Justice

Director Brett W. McMillion

MEMORANDUM

To: Jamie Adkins *[Signature]*
Chief Procurement Officer

From: Barrow Koslosky, AIA *[Signature]*
Chief of PEM

Date: December 19, 2022

Subject: WV DNR
Beech Fork State Park
A/E Services – Beech Fork & Coopers Rock New Cabins
CCT 0310 6584 DNR22*03 1
Change Order #1

We, the West Virginia Division of Natural Resources, Planning, Engineering and Maintenance Section received the following Engineering Add Service. The United States Army Corp of Engineers, (USACE), has required an archaeological study be performed before core drilling can occur on USACE property. This change request is critical to the project.

- Base contract amount: \$1,210,000.00
- Add service amount: \$35,000.00
- New contract amount: \$1,245,000.00

BK/rw

Attachment

AIA Document G802[®] – 2017

Amendment to the Professional Services Agreement

PROJECT: *(name and address)*
Beech Fork State Park

AGREEMENT INFORMATION:
Date: A/E Services - Beech Fork &
Coopers Rock State Parks New Cabins,
New RV park at Coopers Rock
10-6/2021

AMENDMENT INFORMATION:
Amendment Number: 001

5601 Long Branch Rd.
Barboursville, WV 25304

Date: 4-6-2023

OWNER: *(name and address)*
West Virginia Division of Natural
Resources Parks & Recreation PEM
Section 324, 4th Avenue
Charleston, WV 26305

ARCHITECT: *(name and address)*
Civil & Environmental Consultants, Inc.
120 Genesis Blvd.
Bridgeport, WV 26330

The Owner and Architect amend the Agreement as follows:
Civil & Environmental Consultants, Inc. (CEC) is submitting the change order being requested by the United States Army Corp of Engineers (USACE). The change order is to include a Phase I Archaeological Identification Survey (\$19,110), Geophysical Survey (\$5,516), Archaeological Site Recordings (\$2,500/site, two (2) sites discovered) and a CEC managerial fee (\$3,555.12).

The Architect's compensation and schedule shall be adjusted as follows:

Compensation Adjustment:
\$35,000.00

Schedule Adjustment:
0 days

SIGNATURES:

Civil & Environmental Consultants,
Inc.

West Virginia Division of Natural
Resources

ARCHITECT *(Firm name)*

OWNER *(Firm name)*





SIGNATURE

SIGNATURE

Jim Christie, PLA/Principal
PRINTED NAME AND TITLE

Brett McMillion/Director
PRINTED NAME AND TITLE

4-6-2023

4/16/23

DATE

DATE

AUTHORIZATION FOR ADDITIONAL SERVICES

Client Name:	<u>West Virginia Division of Natural Resources</u>	Contact:	<u>Barrow Koslosky</u>
Address:	<u>Parks & Recreation PEM Section 324 4th Avenue South Charleston, WV 25305</u>	Client Phone:	<u>304-558-2754</u>
		Client Fax:	<u></u>
		Client Email:	<u>barrow.a.koslosky@wv.gov</u>
Date:	<u>12/12/2022</u>		
Request No.:	<u>0002</u>	CEC Project Manager:	<u>Dennis Miller</u>
CEC Project:	<u>316-363</u>	Task:	<u>0011</u>
Project Name:	<u>Beech Fork State Park</u>		
Location:	<u>Huntington, West Virginia</u>		

Proposed Scope of Services:

Civil & Environmental Consultants, Inc. (CEC) is submitting the task order for additional services being requested by the United States Army Corps of Engineers (USACE). CEC attended a meeting with representatives from the WVDNR and USACE to discuss monitoring of subsurface drilling. At the request of the USACE, CEC completed the Archaeological Resources Protection Act Permit application form to perform geotechnical drilling associated with the Beech Fork State Park Cabin and Roadway Addition Project. USACE further requested that Phase I Archaeological will be required prior to drilling since tracked equipment is needed to complete the task safety and completely. In addition SHPO has requested a probe survey and geophysical survey to clear area near the existing cemetery to authorize construction of the site. CEC proposes to subcontract Cultural Resource Analysts, Inc (CRA) to perform an archaeological survey and a geophysical survey of the headstone found outside of the existing cemetery within the wood line.

Phase I Archaeological Identification Survey

The Phase I survey will be conducted within the Area of Interest (AOI) provided to CRA by CEC. The AOI encompasses 16.76 acres.

Records Review

Before entering the field, CRA will complete a review of the site records and other relevant files maintained by the SHPO. The primary goal of the review will be to identify previously recorded archaeological sites, architectural properties, and historic cemeteries located within 1.0 mile of the AOI. This task will be completed using the SHPO's online GIS-based Interactive Map Viewer, and will not include an in-person visit to their office.

Archaeological Survey

CRA will complete a Phase I archaeological identification survey of the entire AOI. The survey will not extend outside the AOI. Based on topography, soils, and land use, the methods used to complete the investigation will consist of pedestrian/visual survey and shovel probing.

AUTHORIZATION FOR ADDITIONAL SERVICES

Pedestrian/visual survey will be used to examine the entire AOI to identify aboveground historic and prehistoric resources (e.g., artifact scatters, mounds, foundations, and cemeteries). Particular attention will be paid to any evidence for unmarked graves, such as depressions and/or typical vegetation.

Shovel probing will be used to sample subsurface contexts for the portion of the AOI supporting slopes less than 20 percent. Following SHPO guidelines, the maximum distance between shovel test probes (STPs) will be approximately 15 meters. If needed, additional "radial" STPs will be excavated adjacent to positive probes (probes from which artifacts are recovered) to define site boundaries. STPs will measure approximately 50 centimeters in diameter and will be excavated into culturally sterile subsoil. A GIS-based slope and soils analysis, including 1-m LIDAR hillshade maps, indicates that approximately 5.47 acres (32.6%) of the AOI may require subsurface testing. A maximum of 88 STPs are expected in areas of subsurface testing. Excavated soil will be screened through 0.25-inch mesh hardware cloth to recover natural and cultural inclusions. Culturally modified material will be retained and bagged by provenience and context for analysis discussed under Task 3. A representative sample of soil profiles will be documented, with information for soil horizons, texture, Munsell color, and the presence or absence of natural or cultural inclusions recorded. All STPs will be backfilled.

Laboratory Analysis (if necessary).

Any historic and/or prehistoric artifacts recovered will be returned to CRA's West Virginia office for processing and analysis. In the laboratory, the materials will be cleaned and processed using standard methods and techniques. Information collected in the field and data generated from the analysis will be used to evaluate the significance of sites and make assessments of National Register eligibility.

Any recovered artifacts will be returned to the landowner(s) following the completion of analysis and agency approval of the report; no artifacts will be prepared for curation with the Archaeological Collections Facility at Grave Creek Mound Historic Site, Moundsville, West Virginia.

Geophysical Survey

The geophysical survey of a possible grave site take place over a 10 x 10 m area centered on the visible gravestone. Given the unique location of the stone outside the general cemetery boundary, and since it is unclear if the gravestone has been moved from its original location, the survey area will be centered on the gravestone and will be large enough to encompass a grave on either side of the stone. To best delineate the area and to best understand the geophysical data, a slightly larger area around the gravestone will be investigated.

The geophysical survey, which will be conducted by a CRA geophysical specialist, will attempt to identify and map the signature of a potentially marked grave feature. It is always advised that multiple geophysical techniques be employed in the survey of an archaeological site, because it increases the likelihood that target feature like graves will be identified, if present. Different geophysical techniques respond to different types of geophysical soil properties (electrical conductivity/resistivity, types of magnetism, etc.) and are thus able to be identified with different instrument types. The key in identifying any feature or object of interest with geophysical equipment is having contrast between the feature of interest and the background matrix (e.g. soil layers). For this reason, surveys need be slightly larger than a point of interest and surveying a larger area surrounding the point of interest only increases the confidence of the geophysical interpretation. Due to different instruments measuring different properties, some features may be clearly identified with one geophysical instrument and not another. This is to be expected in some cases and further suggests the use of multiple instrument types. There are a variety of geophysical instruments in use today, but in this case CRA

AUTHORIZATION FOR ADDITIONAL SERVICES

suggests the use of ground penetrating radar (GPR) and electrical resistivity.

GPR Survey

GPR is the most common method used in geophysical surveys of historic cemeteries. This is due to its ability to detect both point source like targets (e.g. pipes, stones, tree roots) and stark stratigraphic changes (e.g. grave shafts). Additionally, GPR easily provides depth information to targets which allows data to be correlated to likely feature depths. For example, a historic grave may commonly be dug to approximately six feet, but would likely not be much deeper than this.

Electrical Resistivity Survey

Resistivity is a less commonly used method due to its rather slow data collection rate, however, it commonly produces significant results when employed. It is especially good at detecting moisture differences within the soil which can be related to archaeological features (e.g. water laying on top of a compacted floor or water collecting near a casket). Resistivity provides approximate depth to features based on the probe separation used during the survey.

Field Investigation

The ground penetrating radar (GPR) survey will be conducted using a GSSI Sir-4000 GPR system with a survey wheel (odometer) attached and coupled with a 400 MHz antenna or an equivalent system depending on equipment availability. The transect spacing will be 0.25 m (0.82 ft.), between 50-60 scans per/meter and 512-1024 samples/scan, with data being collected in a zig-zag manner. The proposed 400 MHz antenna has a nominal depth of 1-6 meters (depending on ground conditions and the potential target) and can resolve features around 10 cm across at a depth of 1 meter. This provides enough depth resolution for shallow archaeological sites such as unmarked cemeteries, but not deeply buried sites. The results of the GPR survey will be post-processed and graphical plots of the data will be produced utilizing GPRSlice v.7 and QGIS.

The electrical resistivity survey will be conducted using a Frobisher TAR-3 system. The transect spacing will be 0.5 m with in-line sampling of 0.5 m and data will be collected in a zig-zag manner using the twin-probe configuration. The depth of investigation for this instrument configuration is approximately equivalent to the spacing of the electrical probes, depending on soil conditions. A spacing of 1 m will be used (3.28 ft.) allowing detection of any potential grave shaft depth. The results of the electrical resistivity survey will be processed in Archaeo-fusion and with custom Python scripts. Graphical plots will be created in QGIS.

Additionally, given the location in a wooded area, a field map of the geophysical survey area will be created. This will document any trees, surface depressions, or other potential obstructions or features that could be reflected in the geophysical data.

Including travel time and clearing the survey area of debris and dead vegetation (leaves, tree branches, etc.), the survey is expected to require a 1.5 days to complete. A statement regarding the likelihood of the presence of a grave shaft can be provided approximately two days following the completion of fieldwork.

Deliverables

The results of the Phase I archaeological survey, geophysical survey, and (if necessary) the solid core probe survey will be presented in a high quality report that includes appropriate mapping, photographs, and tables. The report will be created in Microsoft Word and single-spaced on standard 8.5 x 11-inch white paper with page numbers on all pages. The report will be completed to Guidelines for Phase I, II, and III Archaeological

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Investigations and Technical Reports (SHPO 2001). The geophysical survey section of the report will include project area mapping, as well as horizontal plan view maps of the project area showing the results of the geophysical surveys. Interpretive notes will be added to the plan view maps, where appropriate, to denote the locations of the possible grave.

Draft reports will be submitted to CEC in PDF format for review. CRA will make any necessary changes to the reports upon receipt of comments from CEC, and produce the Final Drafts for agency submission.

CRA will submit electronic copies of each Final Draft and project GIS files required by the SHPO to CEC. Bound print copies can be produced upon request.

PROJECT ASSUMPTIONS

The cost estimate and schedule are based on the following assumptions

1. CRA is not responsible for obtaining rights of entry.
2. The AOI is approximately 16.76 acres.
3. Approximately 5.47 acres have slopes greater than 20 percent, and 11.29 acres have slopes less than 20 percent.
4. Approximately 11.29 acres (67.4%) of the AOI will be examined by pedestrian/visual survey only.
5. Approximately 5.47 acres (32.6%) of the AOI will be examined by a combination of pedestrian and shovel probe survey.
6. Based on topography, soils and slope analysis, it is estimated that no more than 88 STPs will be excavated.
7. The Project does not require deep testing.
8. No archaeological sites will be documented.
9. Any recovered artifacts will be returned to the landowner(s) following the completion of analysis and agency approval of the report; no artifacts will be prepared for curation with the Archaeological Collections Facility at Grave Creek Mound Historic Site, Moundsville, West Virginia.

Schedule

Phase I Archaeological Identification Survey

The archaeological survey will be scheduled upon receipt of written notice to proceed (NTP). Based on our current workload, work would be expected to commence within approximately 5-10 business days of NTP. The survey is expected to require four days to complete.

Geophysical Survey

CRA can initiate travel to the field site and fieldwork as soon as equipment is available after receiving NTP, likely 5-10 business days, with the start date dependent in large part on the forecasted weather conditions. The survey is expected to require 1.5 days to complete, including travel time.

Deliverables

An electronic copy of the Draft Report will be submitted CEC via email attachment within approximately 3-6 weeks from the date fieldwork is completed, depending on the overall results of the survey and whether the solid core probe survey is necessary.



AUTHORIZATION FOR ADDITIONAL SERVICES

Costs

The base cost for each survey is presented below. **If archaeological site(s) are recorded, an additional per site fee of \$3,000 will be charged for each identified site.**

<i>Task</i>	<i>Base Cost</i>
Archaeological Survey	\$22,500
Geophysical Survey	\$6,500
Archaeological Sites	\$3,000/site (x2 sites identified)

CEC Principal Signature: *Jim Christie* Estimated Lump Sum Fee: \$35,000.00

Please provide a signature below authorizing CEC to proceed with the additional services. Upon receipt, CEC will begin the additional services under the Terms and Conditions of our initial Agreement for the additional fee identified above.

Client Authorized Signature: _____ Date: _____



**Archeological Survey; Beech Fork State Park
Estimation of hours and fees**

Task 0002 Archeological Survey C.O. #1

Principal 26.87 hrs @\$200 = \$5,374