

Professional Services Agreement Supplement No. 01



Hanmi Global Partner

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Project

Client

**Location and
Description**

STEP Sewer Transmission Main
Camas Project WS-714

Project # 16579.B

City of Camas, Washington

616 NE 4th Avenue, Camas, WA 98607

City of Camas, Washington

Professional services

Based on client direction, changes were requested or required, which fall outside the original scope of our agreement. The changes, as outlined below, necessitate an adjustment to our original contract price. All terms and conditions of the original agreement remain in effect.

ITEM DESCRIPTION	ESTIMATED COST
Please see Exhibit A, Supplement 1 – Scope of Work, which includes	\$175,646
Task 2.0 Archaeological Excavations of Site CL123	
Task 3.0 Archaeological Site Monitoring	
Task 3.3 Site 45CL654 - Excavation	
Task 4.0 Project Meetings	
Task 5.0 Project Submittals and RFIs	
Previous lump sum Contract Amount:	\$135,237
Supplement 01:	\$175,646
Total Revised lump sum Contract Amount:	\$310,883

For Otak:

Signature

Tom KRAFT PRINCIPAL

Name

For City of Camas, Washington:

Signature

Scott Higgins, Mayor of Camas, WA

Name

Exhibit A
City of Camas
Camas STEP Sewer - Services During Construction
Supplement I - Scope of Work
October 13, 2015

This scope of work is to amend the contract for the above project to provide additional archeological services for two sites along the STEP sewer route. As significant archeological resources have been found at these sites, additional testing and artifact recovery must be conducted. This scope of work provides the tasks necessary to complete this work.

Specific tasks included in this amendment are as follows:

Task 2.0 Archaeological Excavations of Site 45CL123

The following work has been added to this task:

- Excavate a 1.0x0.5-meter unit at this site to an approximate depth of 1 meter.
- Prepare a preliminary summary report ahead of receiving the outside analyses and full lab results of artifact analysis.
- Prepare a full report for the work once construction in the 45CL123 site is completed.

This assumes up to 2 samples may be sent for radiocarbon analysis and up to 4 artifacts will be sent for obsidian sourcing and hydration analysis.

Task 3.0 Archeological Site Monitoring

The following additional task has been added:

Task 3.3 Site 45CL654—Excavation

This work plan outlines the methods of additional archaeological fieldwork and analysis that will be conducted in order to provide information from site 45CL654 in Camas, Washington, within the alignment of the proposed trench excavation.

To accommodate construction, additional archaeological testing will be done within the construction trench where the pre-construction trenching encountered archaeological deposits. The proposed testing will consist of excavation of up to seven 1.0 x 1.0-meter (3.3 x 3.3-foot) contiguous units at the top of the terrace and one 1.0 x 1.0-meter (3.3 x 3.3-foot) unit at the small area found at the second bend. These archaeological excavations will be excavated to the depth of the planned base of the construction trench plus 10 centimeters (4 inches), or to the depth of the archaeological deposit, if it is not as deep as the proposed trench. Up to three auger samples will be excavated manually to bedrock within the excavated units to determine the full depth of the archaeological deposit, if the manual excavations do not reach that deep, since the plan would be to slightly over-dig the archaeological deposit below the proposed construction trench. For the short area that has not yet been exposed by backhoe, under the direction of AINW, that area will be

mechanically excavated 10 centimeters (4 inches) at a time by McDonald Excavation to determine where the archaeological deposit may be encountered.

To allow construction to continue while analyses of artifacts and samples are underway, a *preliminary* summary report will be prepared within a week of excavation. It will document this excavation, note whether features were found, provide information about the quantity and types of artifacts found, note what types of samples were collected, and make recommendations. Maps and photographs will be included. Analysis of bulk samples and outside analyses (radiocarbon dating, obsidian hydration, etc.) will be done later and a final report will be prepared after preconstruction trenching and monitoring through this site have been completed.

Once AINW has completed the excavations and submitted the preliminary report that is acceptable to USACE, construction will be allowed to continue. AINW will monitor construction through the archaeological site. At this time, monitoring is not planned for the pipeline trench west of the deposits at the second bend of the alignment on Third Loop.

Detailed Excavation Plan

Archaeological test units (100x100 cm) would be excavated by hand in 10-centimeter levels. Soils will be screened through 3.2-millimeter (1/4-inch) mesh hardware cloth. A 25x25-cm corner of each unit will be screened through 6.4-millimeter (1/8-inch) hardware cloth. The objective is to have one line of adjacent 1-meter units through the area, and if needed, step down the slope, for a full stratigraphic view. A plan view of each excavation level and feature will be drawn and photographed, and the final unit profile will be drawn and photographed as well. Features, if encountered, will be bisected and excavated separately from the rest of the unit level. If charcoal is found that is associated with prehistoric-period use, samples will be taken for radiocarbon dating; at least three samples will be submitted for dating, and if more than one depositional unit is discerned, additional samples will be taken and submitted for dating. Bulk samples of the midden profile from one test unit will be taken for fine-mesh water screening to recover faunal and botanical remains, if present. Bulk samples will measure a minimum of a liter (10 x 10 x 10 centimeters). Bulk samples will also be taken from features, if features are encountered. Artifacts will be collected by provenience during excavation.

Artifacts and samples will be processed (cleaned, identified, counted, and catalogued) in AINW's office/laboratory. Outside analyses may include radiocarbon analysis, obsidian hydration and x-ray refraction of obsidian artifacts, blood residue analysis of tools, botanical analysis of plant remains, residue analysis of groundstone items, and tephra analysis if volcanic ash is found.

The report will include a summary of the field and laboratory methods, findings, and recommendations. The revised site form, artifact catalogues, and summaries of the outside analyses will be appended to the report. Draft and final versions of the report will be submitted. Copies of the report will be sent to USACE, Tribes, and City of Camas. AINW will revise the report to address comments. The report would be prepared at the close of the

controlled excavations and subsequent analyses.

Summary of Work Plan—Excavation Within and Adjacent to Site 45CL654

1. AINW will hand excavate in two areas.
 - Up to seven 1.0 x 1.0-meter units will be excavated into the exposed archaeological deposit along the leading (southern) edge of Third Loop. Excavations below the removed 0.6 meter (2 feet) of fill will extend to a depth of 1.6 meters (5 feet 4 inches) within the construction trench. This is a thickness of 1.1 meters (3 feet 4 inches) for most of the area, although the thickness will be less on the slope. The total volume is estimated to be 6.4 m³. A backhoe may be used to remove additional fill covering the southern edge of this area.
 - One 1.0 x 1.0-meter (3.3 x 3.3-foot) unit will be excavated in the isolated deposit at the second bend. The fill overburden has been removed to a depth of (4 feet). Assuming the construction trench will need to be 1.5 meters (5 feet deep), the excavation will be a thickness of 0.4 meter (1 foot 4 inches). Total volume is estimated to be 0.4 m³.
 - The depth will be less than this if the deposit is shallower than the depth of the construction trench.
 - Soils will be screened through 3.2-millimeter (1/4-inch) mesh hardware cloth. A 25x25-cm corner of each unit will be screened through 6.4-millimeter (1/8-inch) hardware cloth.
2. The base of selected units will be augered. Up to three augers may be excavated.
3. McDonald Excavation will ensure safe access to the trench bottom for AINW's archaeological team if needed, by sloping the trench walls or installing a trench box.
4. A preliminary report documenting the completion of the excavations and a summary of findings will be prepared and submitted to USACE, Tribes, City, and others.
5. The remaining construction trench through the proposed testing area will be excavated mechanically under the direction of an archaeological monitor.

Task 4 Project Meetings

This task is for additional attendance by the consultant team at construction meetings than what was anticipated in the original scope.

- Assumes attendance by Otak at 5 additional construction meetings.

Task 5 Project Submittals and RFIs

This scope is to provide for review of additional submittals and RFI's.

Task 5.1 Project Submittals

- Assumes review of 5 additional submittals

Task 5.2 Review and Respond to Requests for Information

- Assumes review of 5 additional RFI's by Otak, Inc.

