



SCOPE OF WORK
April 8, 2020

GENERAL

This Scope of Work (SOW) outlines the tasks and estimated fees associated with Anderson Perry & Associates, Inc. (Engineer) preparing a Preliminary Engineering Report (PER) for the City of Hermiston (Owner) for a potential bridge that would span the Umatilla River as an extension of either W. Elm Avenue or W. Punkin Center Road just west of the City of Hermiston in Umatilla County, Oregon.

The PER will generally include a Strength, Weakness, Opportunity, and Threat analysis for the two bridge options and will include establishing objectives for a potential project. As part of the PER, environmental and cultural resource evaluations will be conducted. The Engineer will also investigate any other permits, easements, land acquisition, and other infrastructure improvements that may be needed. A preliminary traffic impact analysis will be performed as part of the PER.

The PER work is anticipated to require the following tasks:

TASK NO. 1 - PROJECT MANAGEMENT AND COORDINATION

The Engineer shall provide project management and coordination of all tasks in this SOW, including:

1. Attend up to four meetings with the Owner, including an initial meeting to discuss overall transportation system conditions, areas of concern, and ideas on improvement options. Subsequent meetings will be held to review the progress of work, present alternatives, and assist the Owner in making key decisions relative to the preparation of the PER.
2. Prepare initial project schedule and updates as needed.
3. Provide quality assurance and quality control review of all documents.
4. Prepare and distribute agenda and minutes for all meetings.

TASK NO. 2 - PRELIMINARY TRANSPORTATION IMPACT ANALYSIS

This task reflects the preliminary understanding of the Umatilla Bridge options and is based on conversations with Owner staff. Other items may be included. Following is a list of items anticipated to be provided by the Engineer related to Task No. 2:

Site Visit/Data Collection. The Engineer will visit the City of Hermiston to observe existing traffic flow patterns and will identify existing physical and operational characteristics of the transportation system in the vicinity of each potential bridge location. If needed, traffic counts may also be conducted at key intersections during peak traffic



periods. The data gathering effort will include obtaining existing available traffic count data and crash data that may be available.

Transportation Impact Analysis. The Engineer will take data and information gathered and will estimate the assumed future build-out year (assumed to be 2025) background traffic conditions within the site vicinity and along the main arterial and collector streets that are anticipated to be impacted by the installation of a bridge. These estimates will be based on current growth trends, identified in-process developments, and transportation improvement projects in the study area. Based on these data, the Engineer will develop and estimate trip distribution patterns for the proposed bridge options. As part of the analysis, the Engineer will identify potential multimodal circulation deficiencies in the study area and determine feasible mitigation measures if necessary.

Report of Findings. The Engineer will produce a formal report, including text, figures, and tables, that summarizes the results of the data gathering and analysis discussed above. The report will be an appendix to the PER.

Assumptions: The Engineer assumes the following to perform Task No. 2:

- The Owner shall make available all maps, records, reports, and any other information relative to the Owner's existing transportation system and corresponding infrastructure.
- The Engineer will hire a subconsultant to prepare the transportation impact analysis.

TASK NO. 3 - PERMITTING, ENVIRONMENTAL, AND CULTURAL RESOURCES

This task will involve investigating potential permitting, environmental, and cultural resources requirements that would be necessary to implement each bridge option as follows:

Environmental/Permitting Review. The Engineer will conduct a site visit and perform an environmental review to identify potential wetland impacts, the presence of threatened or endangered species, or other environmental concerns within the limits of the proposed improvements.

Cultural Resource Review. Anticipated archaeological services for this project include a desktop review (literature review), which is composed of the following work items:

Gather available archaeological site, archaeological survey, and historic-period built resource data from a variety of sources. Previous survey and site information will be gathered utilizing the Oregon Archaeological Records Remote Access database. Site and survey data will be collected for areas within the area of potential effect (APE) and within a 2-mile radius of the APE. Previous historic-period built resource data will be gathered utilizing the Oregon Historic Sites Database. This task also includes examination of readily available maps and images including, but not limited to, historical General Land Office maps, U.S. Geological Survey topographic maps, Metsker maps, county or city engineering records, newspaper articles, and historic-period aerial photos to identify other potential cultural resource sites or gain more information concerning known cultural resources within or adjacent to the APE.

The following additional services related to the historical and cultural resources review are not included as part of this SOW, but may be added by amendment to this SOW if necessary:



- Archaeological permit for subsurface testing.
- A cultural resource inventory, including the execution of pedestrian and subsurface survey.
- A Memorandum of Agreement (MOA) to detail mitigation measures if the Oregon State Historic Preservation Office deems that mitigation measures are necessary for the project's potential effects on historical properties.
- Curation fees associated with artifacts discovered during fieldwork.
- Additional documentation or other work resulting from the conditions of the MOA.
- Any additional work beyond that specifically described that may be required by the state agencies involved. This work could include conducting archaeological monitoring, performing archaeological site testing, and/or mitigation.

Assumption: The Engineer assumes the following to perform Task No. 3:

- The Owner shall make available all records, reports, correspondence, and any other available information relative to the Owner's existing transportation system as it pertains to this potential project.

TASK NO. 4 - EASEMENTS/RIGHT-OF-WAY NEEDS

This task will involve identifying needed easement and right-of-way acquisitions to implement a given proposed option. This task would involve gathering existing land use data and result in maps showing existing and proposed land use/owners. Costs for acquiring needed land for these purposes would be estimated under this task.

Assumptions: The Engineer assumes the following to perform Task No.4:

- The Owner shall locate and provide access to existing collection system components as requested by the Engineer.

TASK NO. 5 - DEVELOPMENT OF TRANSPORTATION SYSTEM IMPROVEMENTS

Recommendations for improvements to the transportation system will be provided in the PER. These improvements will include a bridge, roadway improvements, and other associated infrastructure. It is not the intent of the PER to design the various components of the two options in detail but rather to show conceptual layouts of the two options. Design components shown on a conceptual level will be in sufficient detail to provide high-level total project costs with appropriate contingency to allow for unknowns to the potential project. As part of this task, the Engineer will identify potential funding sources available for implementation of the project.

TASK NO. 6 - DEVELOPMENT OF THE PRELIMINARY ENGINEERING REPORT DOCUMENT

The Engineer will prepare and present copies of a draft PER summarizing the results of the planning effort to the Owner for review and comment. After comments are received regarding the draft PER from the Owner, copies of the final PER will be prepared and presented to the Owner.

The Engineer will provide the following services as part of the development of the PER document:



- Develop draft PER
- Internal review of draft PER
- Present draft PER to Owner's staff for review
- Develop final draft PER
- Present final draft PER to the City Council
- Distribution to and review of final draft PER by the Owner
- Make final PER revisions requested by the Owner

Deliverables

- Draft PER
- Final draft PER
- Final PER

ADDITIONAL SERVICES

In addition to the foregoing tasks being performed, the following services may be provided by the Engineer when requested by the Owner in writing, as required. If additional services are requested, the scope and fees will be added by amendment to this SOW or under a separate Work Order.

Potential items include:

1. Design engineering services
2. Project funding assistance
3. Perform special tests, specialized studies, or tests other than previously outlined herein that may be required on the project

ESTIMATED FEE

The estimated fee for all tasks outlined herein (except Additional Services) is \$130,000, to be billed on an hourly fee basis, plus direct reimbursable expenses. This amount shall not be exceeded without notification to and written approval from the Owner.