

# **Lewis County Public Works**

## **Packwood Sewer System Amendment 1**

### **Scope of Services**

**January 2024**



**905 Plum Street SE  
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## EXHIBIT A

### SCOPE OF SERVICES AMENDMENT NO. 1

#### Background

Lewis County Public Works (COUNTY) selected HDR Engineering, Inc. (HDR) to provide design, plans, specifications, and engineer's estimate of probable construction costs, and permitting services for construction of the new Sewer System in the community of Packwood, Washington. The County had previously contracted with Territorial-Landworks, Inc. to provide an Alternative Evaluation for a Large On-site Sewage System (LOSS) for Packwood. HDR will build off the existing study to site and design the sewage collection and treatment systems.

#### Scope of Services

##### Task 100 Project Management

###### CONSULTANT Services

1. Project setup, management, and coordination with subconsultants for additional services included in this amendment.

##### Task 200 Survey

###### Objective

CONSULTANT will provide additional topographic and right-of-way survey along Main Street E between Haynes Avenue to Huntington Avenue.

###### CONSULTANT Services

###### Right-of-Way Survey

CONSULTANT will do the field and office work to establish the right-of-way of Main Street E and adjacent side streets as shown in survey limits exhibit in Orange. M2C will also establish side lines of adjacent properties based on record information. No easements will be shown, and no title reports obtained or reviewed for sideline establishment. Sidelines will be considered approximate.

###### Topographic Mapping

CONSULTANT will complete a topographic survey of the sites as specified above and defined on the attached Survey Limits Exhibit. The topographic survey will include the following:

1. One-foot contours with tops, toes and breaks, spot grades to be taken at 50' intervals or less.
2. Buildings and other structures on site with finished floor elevation.
3. Other visible improvements such as curbs, mailboxes, lights poles, etc.
4. Hard surfaces such as concrete, pavement and gravel.
5. Trees 6" and larger diameter-at-breast-height with diameter and species measured.

6. CONSULTANT will hire and coordinate a utility locator service to paint the buried conductible utilities. CONSULTANT will then field map the utilities paint marks and surface appurtenances. CONSULTANT will open and measure utility structures and measure pipe sizes, types and invert elevations.

The Survey will be completed on the Washington State Plane Coordinate System and NAVD 88 vertical datum.

### **Assumptions**

1. Right-of-Way Gravity Sewer.
  - Full ROW mapping for Main Street E between Haynes Avenue to Huntington Avenue.
  - Include Right-of-Way establishment and topographic survey.
2. Private property connections.
  - Assumed 9 sites, topographic mapping only.
  - Topographic mapping from ROW to house locations for sewer connection.
  - Assumed mapping area of 500 SQ. FT. or less.
  - Assumed COUNTY to provide right of entry.
  - COUNTY to provide all title reports.

### **Deliverables**

1. Topographic Survey Map in pdf form.
2. ACAD electronic drawing file of the project by email.

## **Task 300      Geotechnical**

### **CONSULTANT Services**

1. No additional services in this amendment.

## **Task 400      Public Engagement**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Task 500      Data Review and Analysis**

### **CONSULTANT Services**

No changes for this amendment

## **Task 600      Environmental Documentation and Permitting**

### **Subtask 601 – Phase I Environmental Site Assessment**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Subtask 602 – Natural Resources Field Assessment and Documentation**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Subtask 603 – Permitting Support Services**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Subtask 604 – Phase II Environmental Site Assessment**

### **Objective**

Perform a Phase II Environmental Site Assessment (ESA) in accordance with the requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase II ESA Process, Designation E1903-97 (ASTM E1903-97) to assess the presence or likely presences of petroleum hydrocarbons or hazardous substances within the study area.

### **CONSULTANT Services**

1. CONSULTANT will prepare a brief work plan consisting of a figure showing the planned sampling locations and a table outlining the sampling and analysis plan for each location.
2. CONSULTANT will prepare a site-specific health and safety plan, and coordinate with COUNTY, property owners, occupants, and contractors to determine the site investigation schedule.
3. Prior to beginning any subsurface activities, CONSULTANT will coordinate a public and private utility locate to identify potential utility conflicts within the investigation area. CONSULTANT will subcontract a private utility locating company to identify conductible utilities near the boring locations.
4. CONSULTANT will subcontract a Washington State-licensed driller to advance up to three borings to a maximum depth of 20 feet below ground surface (bgs; the planned depth of construction for the Project) using hollow-stem auger technology.
5. Phase II ESA locations are:
  - A. Beslow's Auto Parts, consisting of tax parcels 011231000000 and 011230000000;
  - B. Rick's Chevron, consisting of tax parcels 035220001003 and 035222002001; and,
  - C. A portion of the Commerce Meadows site, consisting of tax parcels 035230010002, 035230003000 and 035231001000.
6. The soil conditions from each boring will be logged in a field notebook and soil will be field-screened for obvious signs of contamination impacts using a photoionization detector and visual and olfactory methods. CONSULTANT will collect up to two soil samples per boring. Samples will be collected from depth intervals where contamination concentrations appear highest and from the underlying depth interval. If no obvious signs of impacts are observed,

one soil sample will be collected just above the water table at each boring, which is anticipated to be around 10 to 15 feet bgs. A second soil sample will be collected from near the termination depth of the boring for potential future analysis.

7. The licensed driller will install a temporary well at selected boring locations and purge groundwater until it clears or to the satisfaction of CONSULTANT. Groundwater parameters (pH, temperature, specific conductivity, oxidation reduction potential, and dissolved oxygen) will then be measured, and one groundwater sample will be collected from each well. Samples will be placed in a chilled cooler and transported under standard chain-of-custody procedures to a Washington State-accredited analytical laboratory.
8. One composite soil sample of the drill cuttings from all boring locations at one ESA site will be collected for investigation-derived waste (IDW) soil disposal profiling. One composite groundwater sample from all boring locations will be collected for IDW groundwater disposal profiling. The composite soil and groundwater samples will be analyzed for the compounds identified above. Soil and water IDW generated during drilling will be placed in 55-gallon drums and stored at the subject property pending the results of the disposal characterization analysis. Upon receipt of the sampling results, CONSULTANT will coordinate with a local disposal company to transport the drums to an appropriately permitted disposal facility. The proposed budget includes costs to dispose of four 55-gallon drum of IDW soil and one 55-gallon drum of IDW water (purged and decontamination water).
9. After completion of the environmental investigation detailed above and receipt of field data and laboratory analytical results, CONSULTANT will conduct a review of the analytical data for quality control/ quality assurance purposes, tabulate the data, and compare the results to applicable regulatory criteria. The analytical data and investigation findings will be presented in a Phase II ESA report, which will include a summary of the investigation activities and sampling methods, data tables, figures, and the analytical data reports as an appendix. The budget for this task includes the incorporation of one consolidated set of edits to the report followed by preparation of a final version. If additional investigation or cleanup activity is necessary, this work would be conducted under a separate scope.

## **County Responsibilities**

1. Provide rights-of-entry to the subject properties.

## **Assumptions**

1. Site investigations can be performed in one day each.
2. One additional trip is required to mark the planned boring locations for public utility locates.
3. The waste generated during field activities will be drummed, labeled, and stored at a secure location on the subject property, while CONSULTANT arranges for appropriate disposal. Costs for offsite disposal of 55-gallon drums as non-hazardous waste are included in the proposed budget for this project. If analytical results determine that the waste does not qualify as non-hazardous, COUNTY will be responsible for additional costs.

## **Deliverables**

1. Three Draft Phase II ESA reports (in pdf and WORD electronic format).
2. Three Final Phase II ESA reports (in pdf and WORD electronic format).

## **Task 700 Cultural Resources**

### **Objective**

Provide observation of borings performed in support of Phase II ESAs.

### **CONSULTANT Services**

1. Observation and documentation of excavations performed for additional services in Task 600 Subtask 604.

### **County Responsibilities**

1. COUNTY will provide rights of entry as necessary.
2. Review draft Cultural Resources Technical Report within twenty (20) business days of receipt from CONSULTANT.
3. Provide project information pertinent to the cultural resources background review and field investigation.

### **Assumptions**

1. See assumptions in original scope document.

### **Deliverables**

1. Cultural Resources Technical Report

## **Task 800 Preliminary Design**

### **CONSULTANT Services**

1. Review Sub-Area boundaries to confirm collection system can accommodate future residential zoning.

### **Assumptions**

1. See assumptions in original scope document.

### **Deliverables**

1. Updated Engineering Report.
- 2.

## **Task 900 Final Design**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Task 1000      Right-of-Way Services**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Task 1100      Third Party Coordination**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Task 1200      Bid Support Services**

### **CONSULTANT Services**

1. No additional services with this amendment.

## **Task 1300      Construction Support**

### **Services**

Construction Management and Inspection services are not needed at this time. Should these services become necessary they will be added as a supplement to the project in an amendment to contract.

## **Task 1400      Grant Support**

### **Services**

Grant Support services are not needed at this time. Should these services become necessary they will be added as a supplement to the project in an amendment to contract.

## Estimated Fee for Professional Services

The estimated total contract amount to complete the professional services identified in this Scope of Services is offered on a **time-and-materials basis not-to-exceed \$179,689**.

Following are estimated professional services costs for the tasks provided in this scope of services. The following table is provided only to show the COUNTY an approximate breakdown of estimated costs.

| Task                                 | Estimated Task Cost |
|--------------------------------------|---------------------|
| Task 100 – Project Management        | \$3,265             |
| Task 200 – Survey                    | \$10,678            |
| Task 300 – Geotechnical              | \$0                 |
| Task 400 – Public Outreach           | \$0                 |
| Task 500 – Data Analysis & Review    | \$0                 |
| Task 600 – Environmental Permitting  | \$157,021           |
| Task 700 – Cultural Resources        | \$6,519             |
| Task 800 – Preliminary Design        | \$2,206             |
| Task 900 – Final Design              | \$0                 |
| Task 1000 – ROW Services             | \$0                 |
| Task 1100 – Third Party Coordination | \$0                 |
| Task 1200 – Bid Support              | \$0                 |
|                                      |                     |
| <b>Total</b>                         | <b>\$179,689</b>    |

# EXHIBIT A ATTACHMENT 1



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## Survey Limits Exhibit

Limits of Right-of-way and Topographic mapping highlighted in orange.



| Project Role     |                          | Project Manager                | Project Accountant    | Deputy PM     | Engineer      | CAD                  | Ph II ESA QC              | Engineer               | Cultural Resources II/Archaeologist | Cultural Resources QC | Project Engineer   | Total Hours | Total Cost   |
|------------------|--------------------------|--------------------------------|-----------------------|---------------|---------------|----------------------|---------------------------|------------------------|-------------------------------------|-----------------------|--------------------|-------------|--------------|
| Name             |                          | Starling, Jonathan M (Michael) | Allen, Mariah Lindsey | Johnson, Ty M | Gibbs, Troy M | Kendall, Dennis J Jr | Garufi, Katherine Allison | Der, Alexandra Jubilee | Limberg, Caitlin Paige              | Ferris, Jennifer M    | Kuhns, David W Jr. |             |              |
| 100              | Project Management       | 9                              | 2                     | 3             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 14          | \$ 3,264.89  |
| 200              | Survey                   | 0                              | 0                     | 0             | 0             | 4                    | 0                         | 1                      | 0                                   | 0                     | 0                  | 5           | \$ 870.72    |
| 300              | Geotechnical             | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| 400              | Public Outreach          | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| 500              | Data Review and Analysis | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| 600              | Environmental Planning   | 4                              | 0                     | 0             | 8             | 0                    | 12                        | 0                      | 0                                   | 0                     | 0                  | 24          | \$ 6,241.00  |
| 700              | Cultural Resources       | 2                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 36                                  | 4                     | 0                  | 42          | \$ 5,892.50  |
| 800              | Preliminary Design       | 1                              | 0                     | 0             | 0             | 0                    | 0                         | 2                      | 0                                   | 0                     | 8                  | 11          | \$ 2,206.11  |
| 900              | Final Design             | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| 1000             | ROW Services             | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| 1100             | Third Party Coordination | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| 1200             | Bid Support Services     | 0                              | 0                     | 0             | 0             | 0                    | 0                         | 0                      | 0                                   | 0                     | 0                  | 0           | \$ -         |
| Task Total Hours |                          | 16.00                          | 2.00                  | 3.00          | 8.00          | 4.00                 | 12.00                     | 3.00                   | 36.00                               | 4.00                  | 8.00               | 96.00       | \$ 18,475.22 |
| Task Total Fee   |                          | \$ 3,981.28                    | \$ 224.00             | \$ 801.42     | \$ 1,719.84   | \$ 678.40            | \$ 3,525.84               | \$ 576.96              | \$ 4,542.48                         | \$ 852.36             | \$ 1,572.64        |             |              |

| OTHER DIRECT COSTS |                          |             |  |              |  |           |  |           |                         |
|--------------------|--------------------------|-------------|--|--------------|--|-----------|--|-----------|-------------------------|
|                    |                          | Lodging/day |  | Mileage/mile |  | Meals/day |  | Total ODC | ODC Mark up + Total ODC |
|                    |                          | Travel      |  | Travel       |  | Travel    |  |           |                         |
| 100                | Unit Cost                | \$159,000   |  | \$0.655      |  | \$71,000  |  | 5.00%     |                         |
|                    | Project Management       |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| 400                | Public Outreach          |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| 500                | Data Review and Analysis |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| 600                | Environmental Planning   |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| 700                | Cultural Resources       |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 2           |  | 100          |  | 3         |  |           |                         |
|                    | Task Total               | \$318.00    |  | \$65.50      |  | \$213.00  |  | \$596.50  | \$626.33                |
| 800                | Preliminary Design       |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| 900                | Final Design             |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| 1000               | ROW Services             |             |  |              |  |           |  |           |                         |
|                    | Quantity                 | 0           |  | 0            |  | 0         |  |           |                         |
|                    | Task Total               | \$0.00      |  | \$0.00       |  | \$0.00    |  | \$0.00    | \$0.00                  |
| Total ODC          |                          | \$318.00    |  | \$65.50      |  | \$213.00  |  | \$596.50  | \$29.83                 |
|                    |                          |             |  |              |  |           |  |           |                         |
|                    |                          |             |  |              |  |           |  |           |                         |

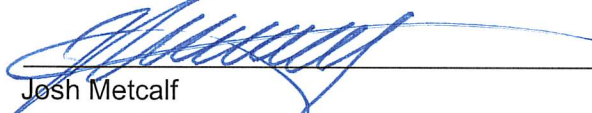
| SUBCONSULTANTS       |                        |            |              |                          |               |                                      |  |  |
|----------------------|------------------------|------------|--------------|--------------------------|---------------|--------------------------------------|--|--|
|                      |                        | M2Coast    | Landau       | Total Subconsu<br>ltants | Sub<br>Markup | Total Subconsu<br>ltants +<br>Markup |  |  |
|                      |                        | 5.00%      |              |                          |               |                                      |  |  |
| 200                  | Survey                 |            |              |                          |               |                                      |  |  |
|                      | Task Total             | \$9,340.00 | \$0.00       | \$9,340.00               | \$467.00      | \$9,807.00                           |  |  |
|                      |                        |            |              |                          |               |                                      |  |  |
| 600                  | Environmental Planning |            |              |                          |               |                                      |  |  |
|                      | Task Total             | \$0.00     | \$143,600.00 | \$143,600.00             | \$7,180.00    | \$150,780.00                         |  |  |
|                      |                        |            |              |                          |               |                                      |  |  |
|                      |                        |            |              |                          |               |                                      |  |  |
| Total Subconsultants |                        | \$9,340.00 | \$143,600.00 | \$152,940.00             | \$7,647.00    | \$160,587.00                         |  |  |

## APPROVAL

This Contract Amendment shall be subject to the written approval of the COUNTY authorized representative and shall not be binding until so approved. The Contract may be altered, amended, or waived only by written approval as executed by the COUNTY.

This CONTRACT Amendment in the amount of \$179,689.00 is approved for a new total CONTRACT amount of \$4,166,728.

LEWIS COUNTY

  
\_\_\_\_\_  
Josh Metcalf  
Director, Public Works

02/01/24  
\_\_\_\_\_  
DATE

HDR ENGINEERING, INC.

  
\_\_\_\_\_  
Rob Berman  
Senior Vice President

02/02/2024  
\_\_\_\_\_  
DATE