CITY OF CAMAS
PROFESSIONAL SERVICES AGREEMENT
CONTRACT No.240115
Amendment No. 2

616 NE 4th Avenue
Camas, WA 98607

Project No. WTR24006

Angelo Booster Station Design Phase I and II

THIS AMENDMENT ("Amendment") to Professional Services Agreement is made as of _____ by and between the **City of Camas**, a municipal corporation, hereinafter referred to as "the City", and **MacKay Sposito, LLC, doing business as MacKay Sposito**, hereinafter referred to as the "Consultant", in consideration of the mutual benefits, terms, and conditions hereinafter specified. The City and Consultant may hereinafter be referred to collectively as the "Parties."

The Parties entered into an Original Agreement dated November 19, 2024, by which Consultant provides professional services in support of the Project identified above. Except as amended herein, the Original Agreement shall remain in full force and effect.

1. Scope of Services. Consultant agrees to perform additional services as identified on **Exhibit "A"** (Amended Scope of Services) attached hereto, including the provision of all labor, materials, equipment, supplies and expenses, for an amount not to exceed **$174,957.75**.

    a. ☐ Unchanged from Original/Previous Contract

2. Time for Performance. Consultant shall perform all services and provide all work product required pursuant to this Amendment by:

    a. ☐ Extended to _____, 20___

    b. ☒ Unchanged from Original/Previous Contract date of December 31, 2027.

    Unless an additional extension of such time is granted in writing by the City, or the Agreement is terminated by the City in accordance with Section 18 of the Original Agreement.

3. Payment. Based on the Scope of Services and assumptions noted in **Exhibit "A"**, Consultant proposes to be compensated on a time and material basis per **Exhibit "B"** (Amended Costs for Scope of Services) with a total estimated not to exceed fee of:

    a. Previous not to exceed fee: $1,949,576.50

    b. Amendment No.2: $174,957.75

    c. **Total: $2,124,534.25**

    d. Consultant billing rates:

    ☒ Modification to Consultant Billing Rates per **Exhibit "C"** attached herein

    ☐ Unchanged from Original/Previous Contract

4. Counterparts. Each individual executing this Agreement on behalf of the City and Consultant represents and warrants that such individual is duly authorized to execute and deliver this Agreement. This Agreement may be executed in any number of counter-parts, which counterparts shall collectively constitute the entire Agreement.

DATED this _____

CITY OF CAMAS:

By:_____

Print Name:_____

Title:_____

MacKay Sposito LLC
DBA MacKay Sposito:
Authorized Representative

By:_____

Print Name:_____

Title:_____

Date: _____

EXHIBIT "A"
AMENDED SCOPE OF SERVICES

Vancouver Office
18405 SE Mill Plain Boulevard, Suite 100, Vancouver, WA 98683

May 19, 2026
Revised June 08,2026
Revised June 10, 2026

Rob Charles
City of Camas
616 NE 4th Avenue
Camas, WA 98607

Re: Lake Road Booster Station - Contract Amendment 2

Dear Rob,

Enclosed you will find our proposed Scope and Fee for Amendment 2. This Amendment covers work needed to cover additional professional services related to the Conditional Use Permit, CARA Permit, underground utility location verification, and pavement overlay design work.

Please contact me with any questions.

Sincerely,

Chad McMurry, PE
Utilities Manager
MacKay
(360) 713-6251
cmcmurry@gomackay.com

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INTRODUCTION

Thank you for selecting the MacKay team to partner with the City of Camas on the Lake Road Booster Station improvements. Following the selection of the preferred alternative and subsequent discussion, additional tasks were identified that were not anticipated in the original scoping discussions. The following amendment outlines those additional services.

GENERAL PROJECT DESCRIPTION/BACKGROUND

The Angelo Booster Pump Station (BPS) currently moves water from the City's 343 Pressure Zone to the 544 Zone. Its capacity is not sufficient to meet increasing demand, so the City and the MacKay team are working together to design a new booster station and transmission mains to provide the additional capacity needed.

The existing scope includes land surveying, land use planning, design, public communication, archaeological, and geotechnical services in support of the project. Recent discussions with the City and changes in Clark County's schedule for revisions to their Comprehensive Plan result in the following revisions to the project:

- **Addition of a Conditional Use Permit for placing the proposed use in a residential zone.** As part of the original project discussions, the property on which the new station will be constructed was to be rezoned to allow the use without a Conditional Use Permit. Clark County's process has been delayed and won't be completed in time to allow this project to proceed. As a result, a Conditional Use Permit will need to be prepared and submitted with the other Land Use applications.
- **Addition of a Critical Aquifer Recharge Area (CARA) Permit to the project scope.** At the pre-application conference, we were informed that a CARA Permit will be required to ensure that the project protects drinking water aquifers below the project.
- **Addition of a Pavement Overlay project to the project scope.** The Lake Road BPS project team met with other City project managers regarding the timing of proposed improvements along NW Lake Road through the project site. One of the outcomes of this and subsequent discussions is the addition of a pavement overlay design project to the scope of the water main project. This project will cover pavement repair and overlay to improve the structural condition and driveability of NW Lake Road from the NW Lake Road/Everett Street roundabout to the limits of the proposed NW Lake Road/Sierra Street Roundabout project, totaling approximately 1.2 miles of roadway.
- **Addition of utility potholing services to the project scope.** As the design effort has moved from the 30% to the 60% effort, several areas have been identified where conflicts with other buried utilities are driving decisions regarding the vertical alignment of the pipe. To address these locations, we recommend excavating to those utilities with hydro-excavation techniques to confirm their elevations, limiting potential construction conflicts.

The additional out-of-scope work included in this amendment also includes additional project management, subconsultant coordination, and schedule management due to the increased project scope.

General Assumptions

1. See tasks for specific task-related assumptions and exclusions.
2. Testing to proceed as soon as practicable following approval of this Amendment.
3. All funding will be local, with no federal, WSDOH, or WSDOT funding
4. City of Camas design requirements and standards apply.
5. All submittals will be made electronically with no paper copies.

Exclusions

1. Bidding and construction phase services
2. Pre and post-construction record of survey

SCOPE OF WORK

(Exhibit "A")
City of Camas
Engineering Design and Pavement Evaluation, Lake Road Booster Station

1.0 PROJECT MANAGEMENT

1.1 PROJECT ADMINISTRATION

- Extend review of subconsultant invoices and incorporate progress on these tasks into monthly progress reports
- Subconsultant coordination

1.2 PROJECT SCHEDULING

- Provide up to (1) additional update to the schedule to reflect project milestones and timeline changes.

1.4 SUBCONSULTANT COORDINATION

- General coordination and management of the subconsultant team including contracting, invoicing, schedule, and deliverables.

DELIVERABLES

- *Monthly Invoices and Progress Reports*
- *Project Schedule Updates*
- *Meeting Agendas and Minutes*

ASSUMPTIONS

- Project duration remains unchanged by this Amendment.

4.0 LAND USE PLANNING AND PERMITTING

The previously contracted scope of work included the preparation and submittal of a Site Plan Application, a Shorelines Conditional Use Permit, Major Design Review, Archaeological Review, and Critical Area Reviews for Shorelines and Wetlands. In addition to those, a Conditional Use Permit has been added in order to ensure that project timelines can be met.

4.5 CONDITIONAL USE PERMIT APPLICATION (MACKAY)

- Design Review / Site Design Coordination
    - Prepare design review exhibits illustrating site layout, circulation, fencing, screening, and site features in support of compliance with Camas development and design standards.
    - Coordinate with the internal landscape architect to ensure consistency between site and landscape elements for inclusion in design review materials.
    - Compile and finalize graphic and narrative materials for the Design Review Committee.
    - Attend and present at the Camas Design Review Committee meeting, as required.
- Land Use Applications
    - Conditional Use Permit: Develop and submit a Type III Conditional Use Permit application pursuant to CMC 18.43, including a detailed narrative responding to each approval criterion in CMC 18.43.050 (A–F). The narrative will include compatibility analysis, surrounding development pattern analysis, adjacent property photo documentation, and comprehensive plan consistency findings. Guide the application through the public hearing process before the Hearings Examiner.
    - Shoreline Conditional Use Permit: Coordinate preparation and submittal of a Shoreline Conditional Use Permit application demonstrating compliance with the Camas Shoreline Master Program.
    - Design Review: Prepare and coordinate Design Review submittal materials that addressCamas design guidelines and support architectural, landscape, and site design consistency throughout the review process.
    - Lot Consolidation: Coordinate preparation and submittal of a lot consolidation application to unify the project parcels, if pursued.
    - Critical Area Review Applications: Assemble and submit required Critical Area Review applications for CARA, Fish and Wildlife Habitat Conservation Areas, Shorelines, and Wetlands, incorporating technical reports prepared by the MSI environmental team.
- Land Use Planning
- Prepare consolidated findings of fact narrative demonstrating compliance with Conditional Use Permit criteria, zoning standards, and design requirements.
- Coordinate with Environmental planners to incorporate SEPA, Shoreline, and Critical Areas materials into the land use application package.
- Coordinate with the City of Camas Planning Department to confirm required submittal items, public notice requirements, mailing labels, and on-site notice signage obligations.

- Prepare and coordinate public notice materials, including property owner mailing labels and required sign copy information.
- Procure and install public notice signage (through subcontractor to-be selected)
- Conduct internal QA/QC review of all application materials and ensure consistency between exhibits, forms, and narratives.
- Assemble and submit a complete consolidated Type III land use application package.
- Coordinate consolidated processing of Conditional Use Permit, Shoreline CUP, Design Review, and Critical Area Review applications.
- Monitor the City's completeness and technical review processes and respond to requests for additional information.
- Review the City's draft Staff Report and proposed Conditions of Approval and debrief with client.
- Provide support for presentation of the project to the Hearings Examiner.
- Review and debrief the Hearings Examiner's final decision and advise client regarding conditions of approval.
- Participate in up to four (4) virtual project meetings, including coordination sessions with City staff and the project team.

DELIVERABLES

- *Conditional Use Permit application package*

4.6 CRITICAL AQUIFER RECHARGE AREA PERMIT APPLICATION

Section 16.55 of the Camas Municipal Code requires that any permitted activity complete a Critical Area Report. For the proposed use, a Level One Hydrogeologic Assessment is required. The following tasks are required for the assessment report:

- Review available GIS records within 1300' of pipeline and booster site
  - Clark County GIS
    - Springs
    - Wells
  - Washington Dept. of Ecology
    - Wells
- Discuss potential impacts to critical areas identified in the Critical Areas Report
- Research geologic conditions
  - Review the Washington State Department of Natural Resources' Clark County Geology Map
  - Discuss w/project Geotechnical Engineer
- Review available water quality data for Lacamas Lake/Fallen Leaf Lake/Round Lake, Lacamas Creek, Columbia River
- Review the list of Best Management Practices to be implemented to protect water quality
- Prepare report and package for submittal to the City of Camas

DELIVERABLES

- *Level One Hydrogeologic Assessment Report*

ASSUMPTIONS

- Spring and well information reviewed will be limited to that provided on Clark County GIS and the Washington State Department of Ecology's site
- Geologic conditions discussions will be based on publicly available studies of Clark County prepared by the Department of Natural Resources
- Water Quality Data will be taken from the Department of Ecology's *Freshwater Information Network* application and the City of Camas/Clark County Lake Management Plan for Lacamas, Round, and Fallen Leaf Lakes

4.7 SIGNAGE INSTALLATION

MacKay to procure and install public notice signage (through subcontractor (Sub-13) to-be selected). Costs are estimated in Appendix A.

12.0 NW LAKE ROAD PAVEMENT RESTORATION/OVERLAY

NW Lake Road is in need of surface improvements prior to the safety projects planned in the summer of 2027. In order to accomplish this, the City determined that the most effective path forward is to add testing and design services into this contract. In general, the following tasks are anticipated:

- Project management & subconsultant management & coordination
- Evaluation of the existing pavement structure and identification of recommended restoration approaches and pavement sections
- Determination of the NW Lake Road centerline and right-of-way
- Design of the pavement restoration project, including plans, specifications, estimates, and quantities for bid purposes

More specifically, the additional tasks identified for this portion of the project are described as follows:

12.1 GEOTECHNICAL INVESTIGATION & REHABILITATION RECOMMENDATIONS

See attached proposal from sub-consultant Columbia West Engineering (CWE).

12.2 CIVIL DESIGN AND CONSTRUCTION DOCUMENT PREPARATION

- 90% CIVIL DESIGN
  - Prepare for and attend early design development meetings with the project team.
  - Respond to inquiries and needs identified by the City and/or Project Stakeholders.
  - Evaluation of existing guardrail based on WSDOT's Field Guide for Guardrail Condition Assessment
  - Coordination with utility purveyors
  - 90% roadway/pavement restoration design including roadway channelization and pavement markings.
  - Erosion and sediment control design.

  - Prepare 90% design plans, see sheet list Table 1 for anticipated plan sheets.
  - 90% estimate of probable construction cost
  - 90% specifications
  - Transmit 90% design plans, Engineer's opinion of construction cost, and specifications to the City for review and approval.
  - Attend one (1) virtual meeting with the City to review the 90% transmittal package.
- 100% CIVIL DESIGN
  - Incorporate comments from 90% of the design
  - Progress to Final plans, specifications, and estimate.
- QA/QC
  - Perform quality assurance/quality control reviews at each of the design submittals (assumed at 90% and Final submittals). Hours/fees included under the pertinent design tasks above.

DELIVERABLES

- *90% plan set in PDF format as listed in Table 1*
- *90% estimate of probable construction cost in Microsoft Excel format*
- *90% specifications in Microsoft Word format*
- *100% plan set in PDF format as listed in Table 1*
- *100% specifications in Microsoft Word format*
- *100% estimate of probable construction cost in Microsoft Excel format*

Table 1 - List of Plan Sheets Deliverables at each Design Stage

Plan Sheet Description	Scale	No. of Sheets	90% Plan Sheets	100% Plan Sheets
Cover Sheet with Vicinity Map and Sheet Index	Included under previous amendment			
Legend & General Notes	Included under previous amendment			
Typical Roadway Sections	TBD	2	X	X
Erosion and Sediment Control Plans	20	8	X	X
Paving/Pavement Markings/Guardrail Plans	20	8	X	X
Project Details	TBD	3	X	X
Traffic Control Plan	TBD	2	X	X
Traffic Control Plan Details	TBD	4	X	X
Totals		27	27	27

ASSUMPTIONS

- No roadway profiles are required.
- Area of replaced pavement (to base course or lower) will be below the Redevelopment threshold defined in the Stormwater Management Manual for Western Washington. No stormwater treatment or quantity control design is included.
- The project will disturb less than 1 (one) acre and a Construction Stormwater General Permit (CSWGP) will not be required.
- Proposed improvements will be located within the City of Camas right-of-way.
- Contract documents will be prepared by the City.
- Plan sheets will be set up following City of Camas Standards on full-size 22x34 sheets with scale as shown on Table 1.
- Traffic control plans will include signage and detours for pedestrians, bicycle and vehicular movements during construction.
- Project Special Provisions will be based on the current Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction and City of Camas Amendments to those specifications. The City will be responsible for preparing the Division 1 specifications; MacKay will provide Divisions 2-9 with input from the City of Camas.
- Estimates of probable construction cost will be prepared at the 90% and 100% design stages. The cost analysis will be based on unit prices from recent similar projects.

  Exclusions:

  - Stormwater design and associated hydraulics and hydrology calculations and reports.
  - Curb ramp design
  - SWPPP report

14.0 UNDERGROUND UTILITY LOCATION

Riparia Environmental, a subsidiary of MacKay, will utilize hydro-excavation techniques to expose buried utilities (approximately 15 locations are estimated). Hydro-excavation is a safe, non-destructive excavation technique that uses high pressure water and vacuum to excavate the earth around underground utilities, exposing them to the air. There is no risk of utility strikes as with traditional heavy equipment, allowing the utilities to be safely exposed to the air so measurements and depths can be verified prior to larger scale excavation.

If pothole locations are in areas of asphalt or concrete, Riparia will utilize diamond blade core bits to cut a core through the asphalt/concrete, remove the core, and then hydro-excavate the earth to expose utility. Once the utility is exposed, MacKay survey crew will collect horizontal and vertical measurements of the utility.

After data is collected, Riparia crew will backfill the hole according to City or WSDOT standards and restore the surface via approved methods which may include cold patch, HMA, concrete/grout, landscaping restoration, etc. This task includes traffic control services complying with City and WSDOT standards.

14.1 HYDRO-EXCAVATION

- Hydro-excavation on an estimated 15 utility locations

APPENDICES

APPENDIX A: MACKAY FEE SHEET

APPENDIX B: MACKAY RATE TABLE

APPENDIX C: GEOTECHNICAL - (COLUMBIA WEST ENGINEERING - CWE)

EXHIBIT "B"(Appendix A: Mackay Fee Sheet)
AMENDED COSTS FOR SCOPE OF SERVICES

MacKay

Project Name: LAKE ROAD BOOSTER STATION - **AMENDMENT II**
Project Manager: Chad McMurry
MSi Job No.: 8887
Date: June 10, 2026 REV-2

		Project Manager - Civil	Project Engineer	Engineer II	Design Technician III	Project Coordinator I	Senior Planner	Planner III	Riparia Environmental NTE	Total	Columbia West Engineers SUB-9	General Signage Installation SUB-13	Total Subconsultant	**Total Budget Amount**
1.0 - Project Management	1.1 Project Administration	11	4			1				$3,634				$3,634
	1.2 Project Scheduling	7								$1,666				$1,666
	1.4 Subconsultant Coordination	6	2			2				$2,152				$2,152
	Project Management Subtotal	**24**	**6**	**0**	**0**	**3**	**0**	**0**		**$7,452**				**$7,452**
4.0 - Land Use Planning & Permitting	4.5 Continual Use Permit Application (MacKay)						6	2		$1,552				$1,552
	4.6 Critical Aquifer Recharge Area Permit Application						6	2		$1,552				$1,552
	4.7 Signage Installation - ***GENERAL (SUB 13)*** *(includes 5% markup)*											$1,680.00	$1,680.00	$1,680
	Land Use Planning & Permitting Subtotal	**0**	**0**	**0**	**0**	**0**	**12**	**4**		**$3,104**				**$4,784**
12.0 - NW Lake Road Pavement Restoration/Overlay	12.1 Geotechnical Investigation & Rehabilitation Recommendation - ***COLUMIBA WEST ENGINEERS (SUB 9)*** *(includes 5% markup)*										$34,749.75		$34,749.75	$34,749.75
	12.2 Civil Design & Construction Document Preparation	46	77	117	122	9				$67,972				$67,972
	NW Lake Road Pavement Restoration/Overlay Subtotal	**46**	**77**	**117**	**122**	**9**	**0**	**0**		**$67,972**				**$102,722**
14.0 - Underground Utility Location	14.1 Hydro-Excavation								1	$60,000				$60,000
	Project Management Subtotal	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**$60,000**				**$60,000**
	Hours	70	83	117	122	12	12	4	1					
	Rate	238.00	218.00	166.00	160.00	144.00	200.00	176.00	60,000.00					
	TOTAL	$16,660.00	$18,094.00	$19,422.00	$19,520.00	$1,728.00	$2,400.00	$704.00	$60,000.00	$138,528.00			$36,429.75	**$174,957.75**

Current Rates = 2026 SW Washington

MacKay Sposito

Vancouver Office

18405 SE Mill Plain Boulevard, Suite 100, Vancouver, WA 98683
360-695-3411 | www.mackaysposito.com

2026 HOURLY RATE SCHEDULE

Southern Washington

Title	Regular
Senior Principal	$374
Principal	$306
Engineering Manager	$268
Project Manager II - Civil	$252
Project Manager I - Civil	$238
Project Engineer II	$226
Project Engineer I	$218
Engineer IV	$200
Engineer III	$182
Engineer II	$166
Engineer I	$148
Design Technician IV	$174
Design Technician III	$160
Design Technician II	$144
Design Technician I	$128
Landscape Manager	$228
Project Manager II - Landscape	$210
Project Manager I - Landscape	$194
Landscape Architect II	$174
Landscape Architect I	$154
Landscape Designer IV	$158
Landscape Designer III	$144
Landscape Designer II	$132
Landscape Designer I	$120
Land Development Manager	$272
Planning Manager	$248
Project Manager II - Planning	$236
Project Manager I - Planning	$224
Senior Planner	$200
Planner IV	$188
Planner III	$176
Planner II	$162
Planner I	$148
Planning Technician	$136
Land Development Assistant	$124
Environmental Manager II	$214
Environmental Manager I	$188
Natural Resource Specialist IV	$170

Title	Regular
Natural Resource Specialist III	$156
Natural Resource Specialist II	$140
Natural Resource Specialist I	$126
Survey Manager	$238
Project Manager II - Survey	$228
Project Manager I - Survey	$220
Land Surveyor IV	$202
Land Surveyor III	$188
Land Surveyor II	$174
Land Surveyor I	$160
Survey Technician IV	$158
Survey Technician III	$142
Survey Technician II	$128
Survey Technician I	$114
Survey Aid	$100
Chief of Parties	$188
Senior Party Chief	$178
Senior Party Chief - Out of Town	$184
Survey Party Chief	$170
Survey Party Chief - Out of Town	$176
Senior Instrument Person	$130
Senior Instrument Person - Out of Town	$136
Survey Instrument Person	$120
Survey Instrument Person - Out of Town	$126
UAV Pilot	$174
GIS Mapping Specialist II	$178
GIS Mapping Specialist I	$170
Stormwater Analyst	$158
Project Controls Manager	$264
Contract Administrator	$198
Project Coordinator II	$158
Project Coordinator I	$144
Accounting Manager	$234
Project Accountant	$162
Administrative Manager	$162
Administrative Assistant	$124
Clerical	$104

The above rates cover salaries, overhead and profit. All other materials and expenses will be billed on an actual cost plus 10% basis. Overtime rates will be 1.5 times unless otherwise negotiated. These rates will be adjusted annually or as necessary to reflect market conditions. Sub-Consultants costs will be on actual cost plus 10% to compensate MacKay Sposito for Business Occupation Tax and administrative costs.

Per diem rates for travel within the continental United States will be billed in accordance with the rates published by the Office of Governmentwide Policy, General Services Administration (GSA) for the applicable fiscal year. Mileage will be billed in accordance with standard mileage rates published by the Internal Revenue Service.

Engineering categories are in accordance with ASCE Classifications. Rates detailed above do not apply to Federal or State contracts with specific Wage Determinations or mandated prevailing wage/fringe benefits minimum.

EXHIBIT "D"
[APPENDIX C: GEOTECHNICAL - (COLUMBIA WEST ENGINEERING - CWE)]

Lake Road Pavement Overlay/Rehabilitation (Geotechnical)

Understanding

The project consists of approximately 7,000 linear feet of roadway asphalt concrete overlay/surface improvements between the intersections of NW Lake Road/SW Sierra Street and NW Lake Road/NE Everett Street.

Background

According to the Geologic Map of the Camas Quadrangle, Clark County Washington and Multnomah County, Oregon the near-surface geologic conditions along the project alignment are primarily mapped as a combination of conglomerate (QTc), the hyaloclastic sandstone member of the Pliocene and Miocene-aged Troutdale Formation (Qtfh), recent alluvium (Qa), and landslide deposits (Qls).

Based on experience in the area, shallow subsurface conditions along the roadway alignment will be variable and could consist of silt, sand, clay, and gravel. Static groundwater along the alignment will likely vary but be less than 15 feet below ground surface (BGS) with perched groundwater potentially above static groundwater.

Approach

In order to evaluate existing pavement and subgrade conditions and provide recommendations for overlays/surface improvements, a geotechnical investigation will be conducted.

Field investigation will include subsurface exploration using soil borings that extend 5 and 10 feet below ground surface (BGS). Based on correspondence with the City of Camas, explorations at 1,000 foot spacings are sufficient for the project.

Pavement cores and in-situ soil samples will be collected from relevant lithologic horizons and submitted for laboratory analysis for particle-size gradation, plasticity, and classification. Lithologic profiles will be logged and classified in accordance with USCS and AASHTO specifications. Subsurface exploration equipment will consist of a truck- or – trailer mounted, solid or hollow-stem auger drill rig. Explorations will be backfilled with bentonite and patched with asphalt concrete upon completion.

Findings will be summarized and overlay/rehabilitation recommendations will be presented in a geotechnical report. Asphalt concrete pavement design recommendations, will be prepared in general accordance with Clark County guidelines, the *1993 AASHTO Flexible Pavement Design Manual, the WSDOT Pavement Design Guide, and the WSDOT Geotechnical Design Manual*.

Scope

- Review information available in Columbia West's files from previous geological and geotechnical studies conducted at and in the vicinity of the site.
- Coordinate and manage the field exploration, including public and private utility locates, and scheduling our subcontractors and staff.
- Acquire right-of-way and traffic control permits from the City of Camas to facilitate subsurface exploration within the Blair Road right-of-way. We have assumed that right-of-way permit fees will be waived by the City of Camas.

- Provide traffic control services which will include submission of an approved traffic control plan for permitting purposes and providing traffic control personnel onsite during subsurface exploration activity.
- Drill eight (8) borings to depths between 5 of 10 feet BGS, or refusal if encountered earlier. We have assumed that the borings can be completed in approximately 1.5 to 2 days of drilling. We will maintain continuous logs of the borings and collect soil samples at representative intervals. Soil cuttings and drilling byproducts will be drummed and hauled offsite.
- Complete DCPT testing in select borings to determine existing resilient moduli of the existing aggregate base and subgrade.
- Perform laboratory tests on select samples collected from the borings. The specific tests will be selected based on the geologic material encountered and may consist of natural moisture content, particle-size analysis, AASHTO/USCS soil classification, and Atterberg limits.
- Prepare a draft geotechnical report for the project that includes the following:
    - Summary of pavement, soil, and groundwater conditions along the alignment
    - Recommendations for pavement overlay/rehabilitation
    - Recommendations for site preparation, grading and drainage, stripping depths, fill type for imported material, compaction criteria, trench excavation and backfill, use of on-site soil, and wet/dry weather earthwork
    - Recommendations for managing identified groundwater conditions that may affect the performance of structures and roadway improvements
    - Recommendations for general pavement construction
- Prepare a final geotechnical report for the project based on comments from the City and design team.

Schedule

Columbia West will schedule contractors upon notice to proceed. The boring will require up to 3 days to complete. We will complete and submit a draft report within four weeks of completing the fieldwork. The final report will be provided within 2 weeks of all review comments. Pertinent information will be provided to the design and construction team after the fieldwork and before the report is prepared to assist in design of the project.

Fee

A spreadsheet with costs for the project has been included.

Our fee assumes the following:

- Site access will be arranged by others.
- Contaminated soil will not be encountered in the explorations.

Base Scope - Total Costs

Project Name: **Project Manager:** **NNP** **CWE Job No.:** **Client Job No.:** **Date:**		**Columbia West Engineering**									
		ESTIMATED HOURS AND EXPENSES									Total Budget Amount
		Principal Engineer	Associate Engineer	Senior Project Engineer	Project Engineer	Senior Staff Engineer	Staff Engineer	Laboratory Manager	Senior Technical Editor	Expenses (See expense tab)	Total	
Geotechnical	Field Investigation						16			$21,300.00	$23,524.00	$23,524.00
	Laboratory Testing									$1,650.00	$1,650.00	$1,650.00
	Analysis and Report	3		14			5		10	$0.00	$5,477.00	$5,477.00
	PM and support	2		3			8			$150.00	$2,444.00	$2,444.00
										$0.00	$0.00	$0.00
	Subtotal									**$23,100.00**	**$33,095.00**	**$33,095.00**
											$0.00	$0.00
											$0.00	$0.00
											$0.00	$0.00
											$0.00	$0.00
	Subtotal										**$0.00**	**$0.00**

	TOTAL HOURS	5	0	17	0	0	29	0	10	22,950.00		
	RATE	$ 258.00		$ 222.00			$ 139.00	$ -	$ 90.00			
	TOTAL DOLLARS	$1,290.00	$0.00	$3,774.00	$0.00	$0.00	$4,031.00	$0.00	$900.00	$23,100.00	$33,095.00	$33,095.00

revised_CWE_06/01/25

Base Scope - Expenses

Project Name: **Project Manager:** **NNP** **CWE Job No.:** **Client Job No.:**		**Columbia West Engineering** ESTIMATED HOURS AND EXPENSES						
		Vehicle Fee	DCPT	Lab			Expenses	Total
Geotechnical	Field Investigation	2	2					$400.00
	Laboratory Testing			1				$1,650.00
	Analysis and Report							$0.00
	PM and support	2						$150.00
								$0.00
	Subtotal							**$2,200.00**
Environmental								$0.00
								$0.00
	Subtotal							**$0.00**

Number of Units	4	2	1	0	0	0	
RATE	$ 75.00	$ 125	1,650.00				
TOTAL DOLLARS	$300.00	$250.00	$1,650.00	$0.00	$0.00	$0.00	$2,200.00

Contingency Scope - Expenses

Project Name: **Project Manager:** **NNP** **CWE Job No.:** **Client Job No.:** **Date:**		**Columbia West**					
		Expenses					Total Budget Amount
		Private Locate	Driller	Flaggers	Traffic Control Plans	Total	
Geo Subs	Field Investigation	1.00	1.00	1.00	$1.00	$20,900.00	$20,900.00
	Laboratory Testing					$0.00	$0.00
	Analysis and Report					$0.00	$0.00
	PM and support					$0.00	$0.00
						$0.00	$0.00
	Subtotal					**$20,900.00**	**$20,900.00**

Number of Units	1	1	1	1		
RATE	$ 1,000.00	$ 14,000.00	5,000.00	900.00		
TOTAL DOLLARS	$1,000.00	$14,000.00	$5,000.00		$20,900.00	$20,900.00