



CITY OF CAMAS
PROFESSIONAL SERVICES AGREEMENT
Amendment No. 2

616 NE 4th Avenue
Camas, WA 98607

Project No. T1011

NE Lake Road and NE Everett Street Intersection Improvements

THIS AMENDMENT ("Amendment") to Professional Services Agreement is made as of the ___ day of ___, 20___, by and between the City of Camas, a municipal corporation, hereinafter referred to as "the City", and PBS Engineering and Environmental, Incorporated, 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 December 17, 2018, by which Consultant provides professional services in support of the NE Lake Road and NE Everett Street Intersection Improvements. 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.
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. [X] Unchanged from Original/Previous Contract date of December 31, 2021
c. 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" (Costs for Scope of Services) with a total estimated not to exceed fee of:
a. Previous not to exceed fee \$1,119,797.96
b. Amendment No. 2 \$848,374.52
c. Total \$1,968,172.48
d. Consultant billing rates:
e. [X] Modification to Consultant Billing Rates per Exhibit "C" attached herein
f. [] Unchanged from Original 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 _____ day of _____, 2020.

CITY OF CAMAS:

CONSULTANT:
Authorized Representative

By _____

By _____

Print Name _____

Print Name _____

Title _____

Title _____

Approved as to Form:

City Attorney

**EXHIBIT “A”
AMENDED SCOPE OF SERVICES**



EXHIBIT "A"

Scope of Work

Contract Amendment #2

NE Lake Road and NE Everett Street (SR-500): Intersection Improvements City of Camas Project # T1011

Section A

OUT OF SCOPE WORK AND EXTRA SERVICES PERFORMED DURING PHASE 2 AND SCOPE OF WORK TO COMPLETE THE DESIGN AND PERMITTING OF THE PROJECT

INTRODUCTION

PBS Engineering and Environmental Inc. (PBS) and their Consultant team were selected by the City of Camas to perform traffic and design engineering, environmental permitting, public involvement and other related professional services for the NE Lake Road and NE Everett St. (SR-500) Intersection Improvements Project. The original contract was for "Design and Environmental Permitting Through 30% Plans". Professional services included the evaluation of roundabout and traffic signal options, evaluation of alignment options, traffic engineering, environmental process & permits, and utility coordination. Contract Amendment #1 covered out of scope items that were performed during the first phase and items that required more level of effort than were originally anticipated. Contract Amendment #1 also covered professional services necessary to advance the project from the 30% design level to final plans ready for construction. These services included intersection design, stormwater design, design of city utility upgrades and relocations, traffic engineering, lighting design, landscape architecture, environmental process & permits, and utility coordination. This project does not have any federal funding.

Contract Amendment #2 will cover out of scope work that occurred during the second phase of the project where the plans were advanced from the 30% design level to final plans ready for bidding. Contract Amendment #2 also includes additional services to support the construction phase of the project including construction staking, construction management and construction inspection. These are all new tasks that were not included in the original contract or in Contract Amendment #1.

The project team includes:

- Kittelson & Associates, Inc. (KAI) – Traffic Analysis and design
- WSP (Formerly BergerABAM) –Environmental permitting and documentation, and public outreach
- Archaeological Investigations Northwest (AINW) – cultural resources investigation
- Universal Field Services (UFS) – right-of-way acquisition

The Project is funded with Public Works Trust Fund (PWTF) money for design and right of way and includes TIB funding along with PWTF funds in the construction phase.

Although the Project has several properties which were purchased with Washington State Recreation and Conservation Office (RCO) Funding in the immediate vicinity of the project, impacts to these parcels will be avoided.

PROJECT DESCRIPTION/BACKGROUND

NE Everett Road (SR-500) and NE Lake Road is currently a 3-legged signalized intersection. The surrounding area includes Lacamas Lake, forested lands owned by the City of Camas (City) and Clark County, and to the north along SR-500 a bridge over a body of water connecting Lacamas Lake and Round Lake. This intersection connects two roads that are critical links between the south shore and north shore areas of Camas. Average daily traffic entering the intersection is well over 15,000. Camas received State pre-construction funds from the Public Works Board to complete design, permitting, and to secure the necessary property rights for this project. The completed design is a roundabout that will replace the existing signalized intersection.

The project limits extend from the Fallen Leaf Lake access (located to the south of the intersection of Lake Road and Everett Street) to the Everett Street Bridge to the north, and from the sidewalk terminus at the Lodge, to the intersection of Lake Road and Everett Street intersection. The project area also includes the City owned property, east of the intersection, in its entirety.

TASK 1: PROJECT MANAGEMENT AND ADMINISTRATION

WSP attended twenty-eight hours of internal team meetings and meetings with City staff that were not included as part of the original scope of work. These meetings were required to support the permitting process and in preparation for the City's Shoreline Management Committee public meeting. The additional budget required for these services is **\$5,505** and will be added to the budget for Task 1.2 for WSP.

TASK 2: SURVEYING

During Phase 2 of the project there have been various additional survey requests that were not included within the original scope of work. These included updated survey at the Northwest Natural Gate Station, survey locates for VAC-X to complete potholing, survey after potholing was completed, updated survey for utility locates that had been originally completed incorrectly, and additional survey at the south end of the project beyond the original project limits. The cost for out of scope survey work is **\$3,927.50**.

TASK 3: GEOTECHNICAL ENGINEERING

There was additional geotechnical support requested to answer questions related to insignificant "steep slopes" as part of the Critical Areas permit. The additional cost for this work was **\$456.00**.

TASK 4: TRAFFIC ENGINEERING

There was out of scope traffic work performed as part of Phase 2 by Kittelson with some support by PBS. This included design of a temporary traffic signal, additional traffic analysis for the 35th Avenue/Everett Street intersection, and updated VISSIM modeling to include the 35th Avenue intersection for the final project open house. The additional cost for these services is as follows:

- Temporary Signal Design – KAI \$2500
- 35th Avenue Intersection Traffic Model – KAI \$4520 and PBS \$370
- Update VISSIM – KAI - \$550

Total Cost – KAI \$7570 and PBS \$370 = **\$7,940.00**

TASK 5: ALTERNATIVE ANALYSIS

Subtask 5.2 Roundabout Landscape Alternatives

As part of the Roundabout Landscape Alternatives task an additional concept design iteration was required to accommodate the City Council request to simplify the landscape design. The additional cost for this design iteration was **\$7,273.50**.

TASK 6: ENVIRONMENTAL REVIEW AND DOCUMENTATION

As part of the Environmental tasks there were some tasks that required support that were not originally anticipated or scoped. This included some additional tree survey south of the original project limits, extra work to prepare a CARA in support of the Critical Areas permit, and a Final Wetland Permit/Mitigation Plan. The additional costs for this work is as follows:

- Subtask 6.1.3 – Extra Tree Assessment – PBS \$266
- Subtask 6.1.4 – Extra Work to Prepare CARA – PBS \$2,400
- Subtask 6.1.4 – Final Wetland Permit/Mitigation Plan – WSP \$7,407

Total Cost – WSP - \$7407 and PBS \$2,666 = **\$10,073.00**

TASK 7: WSDOT DESIGN DOCUMENTATION

The WSDOT Design Documentation task has been completed and no out of scope work was performed.

TASK 8: DESIGN ENGINEERING

The original scope and budget did not include any waterline design. Part way through the project design the City determined that the existing 12" and 14" lines should be replaced. PBS provided additional services to complete the design for replacement of both waterlines. The additional cost for this work was **\$8,221.00**.

TASK 9: UTILITY COORDINATION

Due to the extensive network of existing critically important utilities within the project limits it became obvious that additional investigation and 3D modeling would be required to ensure to the best of our abilities that the project could be constructed without impacting/relocating several high pressure gas mains and major sanitary sewer force mains. This required extensive potholing by VAC-X and then use of that information and other as-builts to create a 3D model of the existing underground utilities. There was also additional coordination required with NWNatural due to their construction of upgraded Gate Station facilities within the project limits after the project design had commenced. The new Gate Station had improvements built within the City right of way and did not match their approved plans.

The additional cost for this work is as follow:

- VAC-X Potholing - **\$27,165.77** – to be added to Reimbursable Expenses Budget
- PBS Additional Utility Coordination - **\$13,322.25**

TASK 10: PUBLIC INVOLVEMENT

The Public Involvement task required attendance at one additional City Council Work Shop and also included additional 3D Infracore Modeling and Video Simulation work for the final Project Open House. The additional costs for this work is as follows:

- Subtask 10.4 – Extra City Council Work Shop – PBS \$410.50
- Subtask 10.5 – Additional 3D Modeling and Video Simulation Work – PBS \$6,512

Total Cost - **\$6,922.50**

TASK 11: RIGHT OF WAY

The right of way tasks have been completed and there was no out of scope work.

TASK 12: CONSTRUCTION BID SUPPORT

This task is currently being completed and no out of scope work has been performed.

Subtask 12.1 Bid Support

Pre Bid Opening Responsibilities

The Consultant shall respond to questions from prospective bidders and city staff before bid opening in reference to the bid package.

Necessary construction management support will be determined by the City prior to advertisement. A scope amendment will be provided at that point in time to best serve the City's needs.

Assumptions

- Support for the City during the bidding process only.
- Participation in construction meetings is not included.

Deliverables

- Electronic responses to bidder inquiries and addenda as needed.

TOTAL ADDITIONAL COST FOR PHASE 2 DESIGN SERVICES

PBS - \$70,324.52 (Includes VAC-X Expense)

WSP - \$12,912

Kittelson - \$7570

Section A - Total Design Budget Increase - \$90,806.52

The design budget after Contract Amendment #1 was \$1,119,797.96

The new total Design Budget after the design portion of Contract Amendment #2 is \$1,210,604.48

Additional services for construction management, construction inspection, and construction staking are included in Section B of Contract Amendment #2.

Section B

Construction Administration Services

General Description

The City of Camas (City) has selected PBS to perform construction management support for the **NE Lake Road and Everett Street (SR-500) Intersection Improvements** Project. The project is currently in the Final Design phase and is expected to start construction in April 2020. PBS is proposing the scope items below to accommodate this work.

In general, the construction engineering phase will involve, but not be limited to, the following key components and deliverables:

- 1) Preparation and submittal of monthly invoices to City for services performed
- 2) Construction management and administration
- 3) Attendance at preconstruction conference
- 4) Preparation of Record of Materials (ROM)
- 5) Review of material submittals
- 6) Tracking construction schedule weekly to ensure
- 7) Prepare and review of contractor monthly pay estimates and submittal to City
- 8) Review of contractor proposals for alternate "or equal" materials
- 9) Lead and attend weekly on-site construction meetings preparing agendas as needed.
- 10) Construction engineering support
- 11) Construction Inspection
- 12) Preparation and submittal of construction record drawings after construction
- 13) Preparation of draft project closeout paperwork

Assumptions

The following assumptions are specific to the work involved with construction management and inspection:

- 1) Construction will be substantially completed by October 2020, within an assumed 7 months.
- 2) Planting will be complete and establishment period initiated by February 2021.
- 3) 3-year plant establishment to be completed February 2024
- 4) Construction staking will be performed by PBS.
- 5) Probable start of construction: April 2020.
Probable end of construction: October 2020.
- 6) The City will be responsible for bid opening, award, and contract execution for the proposed project.
- 7) As an extension of City staff, PBS will provide final approval of construction related paperwork items. City staff will have approval authority on changes that alter the scope, schedule or budget on the construction project. The PBS Construction Manager will be responsible for distribution of paperwork items to the Contractor, City staff, and PBS' Construction Inspector.
- 8) The City staff, with assistance from the PBS Construction Manager, will be responsible for any negotiations or management of disputes with the Contractor, utility companies, or private property owners.
- 9) PBS will maintain documentation as items are reviewed and approved.
- 10) In this scope, "PBS" is used to represent both PBS' Construction Manager, Project Assistant and Project Inspector, unless otherwise indicated in the task description.

Scope of work

Task 13: Project Management and Coordination

Sub-Task 13.1: Contract Administration, Invoicing, and Progress Reports

PBS will perform project management services to include the following:

- 1) Prepare and submit monthly invoices. Each invoice will include: date period covered by invoice, number of hours worked during the billing period with billing rates shown, expenses and associated mark-ups, total cost for labor and expenses for the billing period, and a total amount summarizing labor and expenses. No additional markup will be included in the billing by PBS. Assumes project set-up and 45 monthly invoices.
- 2) Prepare a Contract Summary Report to accompany the monthly invoices. The Contract Summary Report will list each invoice as well as current invoice with an itemized summary of invoice numbers, dates, and amounts billed for labor and expenses. The Contract Summary Report will also list the total amount billed to date, total amount remaining under contract, and contract expiration date.
- 3) Maintain contract-required documentation. Provide copies of project files and records to the City for audits and public information requests. Final documents shall be provided in electronic format as requested.
- 4) Maintain WSDOT required reporting such as quarterly Project reports (QPRs)

Sub-Task 13.1: Deliverables

- 1) Monthly invoices, and Contract Summary Reports
- 2) Project documentation

Sub-Task 13.2: Preconstruction and Kickoff Meetings

- 1) An initial kickoff/coordination meeting will be conducted with PBS' project team and City staff to establish procedures/protocols and communication requirements for the project. This meeting should occur prior to bid opening.
- 2) PBS will assist City staff with the bid opening, award and execution of the construction contract.
- 3) PBS will assist the City with coordination of the preconstruction conference. PBS will schedule the conference, invite attendees, produce an agenda, and take meeting notes.
- 4) Pre-bid meeting, if required.

Assumptions:

- 1) Coordination and pre-construction meetings will be attended by the PBS construction services manager, design engineer, office engineer and inspector.

Sub-Task 13.2: Deliverables

- 1) Kickoff coordination meeting agenda and notes provided to the City.
- 2) Preconstruction conference meeting agenda and notes provided to the City and the prime Contractor.

Sub-Task 13.3: Utility Coordination

PBS will facilitate and coordinate with the Contractor and with the utilities companies to ensure the relocation of their facilities.

Sub-Task 13.3: Deliverables

- 1) Copies of written communications with utilities.

Sub-Task 13.4 – Construction Advertisement Assistance

The City will advertise the project for construction. Consultant will provide assistance during the bidding process.

- 1) During the advertisement period Consultant will work with the city staff to answer questions from bidders and to prepare addenda as necessary. Addenda will be posted to the City website by the City.
- 2) PBS will review contractor bids, review bidding documents and make a recommendation for award.
- 3) Consultant will assist City staff with award and execution, as necessary.

Sub-task 13.4: Deliverables

- 1) Addenda as necessary.
- 2) Contract award recommendation.

Sub-Task 13.5 – Public Outreach

- Manage social media accounts
 - City of Camas Facebook – Create graphics and wording; monitor and respond to comments.
 - City of Camas Twitter – Create graphics and wording; monitor and respond to comments.
 - Camas Projects Twitter – Create graphics and wording; monitor and respond to comments.
 - Nextdoor – Monitor only; no posting.
 - Other relevant community groups – Monitor; respond as needed.
- Post to CamasConnect app.
- Update Lake Road Construction project page.
- Generate articles for City website to announce new project info; link to project page.
- Create press releases and distribute to local media outlets.
- Create PowerPoint presentations/support materials for Council workshops/meetings.

Assumptions

- 1) Participate in monthly project meetings.
- 2) Attend meetings on site or by phone as needed.
- 3) Attend Council workshops/meetings on request.

Exemptions:

- 1) Facilitation of community events or project update meetings.
- 2) Materials to support community events or project update meetings.

Task 14: Construction Survey and Staking

Sub-Task 14.1 Construction Surveying and Staking

PBS will provide construction surveying and staking, monumentation and aerial photography services.

Sub-Task 14.1 Construction Staking

Construction staking tasks include:

- 1) Verify, establish, and maintain site control
- 2) Silt Fence, High Visibility Fence, and Saw Cuts
- 3) Sanitary Sewer (connections and cleanouts)
- 4) Storm (ponds, manholes, cleanouts, CB's, outfalls, and pipe)
- 5) Water (hydrants, blow-offs, bends, tees, and pipe)
- 6) Final Curb
- 7) Joint Utility Trench (centerline every 50' with finish grade)
- 8) Retaining Walls
- 9) Light Poles: (33 total)
- 10) 2 Rapid Flashing Beacon Systems (RRFB) on NE Everett (SR500) north of intersection.
- 11) Asbuilts (Storm, sanitary, and water. Assume traffic control provided by contractor)

Assumptions:

- 1) Asbuilts will be surveyed for underground features only. Storm sewer, sanitary sewer and waterlines.
- 2) Contractor will provide traffic control when necessary for survey crew access.
- 3) Stakes will be placed one time.
- 4) Re-staking will be added work.
- 5) A contingency staking task will be added for additional surveying

Sub-Task 14.1 Deliverables:

- 1) Construction staking plan sheet, cut sheets and/or notes
- 2) Asbuilt notes

Sub-Task 14.2 Monumentation

PBS will verify existing monuments that are to be maintained and those that will be destroyed during construction. PBS will obtain monument destruction permit from the DNR, replace destroyed monuments and file a post construction record of survey.

Sub-Task 14.2 Deliverables:

- 1) Create a list of monuments that are to be maintained and those that will be destroyed during construction.
- 2) Create and file a monument destruction permit with the State DNR
- 3) Replace monuments
- 4) Set monuments for centerline control.
- 5) Create and file a post construction record of survey with the State DNR

Sub-Task 14.3 UAS Services

PBS will perform UAS flights and take aerial photo and videography for sharing through the City's website. This service includes post flight processing of photos and videos plus storage of the post processed pictures and videos.

Assumptions:

- 1) Drone services are contingent on FAA authorization

- 2) 1 flight per month for 9 months

Sub-Task 14.3 Deliverables:

- 1) Monthly (7) videos taken end-to-end over the construction site.
- 2) Monthly (7) panoramic photos from 3 vantage points, north end, mid project and south end
- 3) Web-links for attachment to the city website.

Task 15: Construction Management and Engineering

Sub-Task 15.1: Prepare Record of Materials (ROM)

PBS will prepare a Record of Materials (ROM) and maintain a documented record of material submittals. PBS will log in and track each approved submittal by the City. PBS duties will include the following:

- 1) PBS will develop the ROM with material acceptance criteria.
- 2) PBS will provide the City with a draft ROM for approval and update the ROM acceptance criteria as needed by the City during construction.
- 3) PBS will produce a submittal list to supply to the contractor which codes each submittal to the ROM and includes additional submittals per contract specifications.

Assumptions:

- 1) The ROM will include the items in the current engineer's estimate. Assumes 155 bid items.
- 2) The Submittal List will be in conjunction with the ROM and include all components for each bid item.

Sub-Task 15.2: Deliverables

- 1) Record of Materials (ROM)
- 2) Submittal List

Sub-Task 15.2: On-Site Meetings

PBS will attend on-site project progress and utility coordination meetings. Other specific pre-work meetings may include the following (based on need during construction or Contractor request): traffic control/staging, construction surveying, HMAC paving, and striping. PBS will issue meeting notes for each meeting attended. Generally, PBS' Construction Manager or Project Assistant, PBS Inspector, and Contractor will be in attendance. Progress meetings will be used to promote effective communication between the City, PBS, Contractor, and other project stakeholders.

Assumptions:

- 1) Assumes 30 on-site meetings of up to 2-hours each.
- 2) Assume 1-hour per meeting and agenda and notes

Sub-Task 15.3: Deliverables

- 1) Construction meeting notes provided to the City.

Sub-Task 15.3: Material Submittals

PBS will receive and review material submittals (Manufacturer's Certificates of Compliance, Certificates of Material Origin, cut sheets, Qualified Product List sheets, etc.), construction sequence schedules, shop drawings, and other items required from the Contractor to ensure compliance with contract requirements. PBS will review the following submittals, including but not limited to: material-specific submittals, HMA and concrete mix designs, retaining wall calculations and drawings, illumination materials, landscape items, and others required by construction contract specifications.

PBS will receive, review, and maintain material submittals. Upon completion of review, PBS will provide approved submittals to the City of appropriate approval requirements for material submittals. PBS will transmit the approvals to the Contractor.

Assumptions:

- 1) Assumes up to 65 material submittals covering materials as listed in the current engineer's estimate.
- 2) Traffic and illumination submittals and will be answered by a third party (Kittleson and Associates).
- 3) Assumes 3 hours per submittal.

Sub-Task 15.4: Deliverables

- 1) Copies of approved material submittals.
- 2) Copies of written communications with the Contractor.

Sub-Task 15.4: Construction Administration and Engineering

PBS' Construction Manager will coordinate with the PBS Inspector and City staff throughout the duration of the project, keep a record of decisions made, review and recommend solutions to change order requests, and review progress and final progress estimates. PBS will review and track Contractor labor compliance documentation, including subcontracts, utilization reports, and subcontractor paid reports. PBS will review the following submittals, including but not limited to: traffic control plans, staging plans, erosion and pollution control plans, quality control plan, construction schedules, and others required by construction contract specifications. Approvals will be by the City Engineer.

PBS duties will include the following:

- 1) PBS will receive and review the SPCC Plan and provide the City with a recommendation of approval criteria.
- 2) PBS will review the Contractor's proposed Monthly Pay Estimate. PBS will provide a draft Monthly Pay Estimate to the City for review and approval. Assumed a total of eleven (11) monthly estimates plus the final estimate. This includes 7 pay estimates for substantial completion and an additional 4 pay estimates for plant establishment.
- 3) PBS will receive and review daily reports recording pertinent information such as: Contractor's hours on the site, weather conditions, and data relative to potential Change Orders, Minor Change Orders, or changed conditions, site visitors, daily activities, and decisions.
- 4) PBS will review and track the Contractor's D/M/WBE documentation.
- 5) PBS will review, check and track the Contractor's certified payrolls, sublet requests and "Buy America Requirements.
- 6) PBS will prepare the SWPPP for the City and assist with transfer to the Contractor.
- 7) PBS will receive and review Contractor's Erosion Control Inspection reports. PBS will notify the City staff if any irregularities or concerns are identified.
- 8) PBS will receive and review Requests to Sublet Work for approval of subcontractors and provide the City with approved documents.

- 9) PBS will receive, review, and determine the acceptability of schedules provided by the contractor. These may include the Progress Schedule, Schedule of Submittals, and Schedule of Values. The master schedule will be activity managed by tracking tasks completed against contract amount expended.
- 10) Permitting updates will be answered by a third party (WSP).
- 11) Signal and illumination related RFI's, inspections, site meetings, and material submittals will be supported by Kittelson and Associates.

Assumptions:

- 1) Assumes 1-review of each document
- 2) Assumes half of the documents will have to be returned to the Contractor for re-submittal.
- 3) Assume re-review for half of submitted documents

Sub-Task 15.5: Deliverables

- 1) Copies of plans and reports provided by the Contractor with approval
- 2) Copies of Erosion Control Inspection Reports to the City
- 3) D/M/WBE documentation
- 4) Checked certified payrolls
- 5) SWPPP transfer documentation.
- 6) Draft of Monthly Pay Estimates for review and approval
- 7) Copies of Inspector's daily reports
- 8) Copies of written communications
- 9) Record of field decisions
- 10) Record of Contractor labor compliance, including subcontracts
- 11) Copies of Schedules provided by the Contractor

Sub-Task 15.5: Response to Questions and Change Orders

PBS will assist the City in response to requests for information (RFI) and response for clarifications (RFC) by the Contractor and provide supplemental information as needed to maintain the progress of the work. If field adjustments are required, as a result of a change in conditions or a desired change by the City, PBS will prepare necessary change order documents and plan revisions for approval by City staff. PBS will provide the City with draft change order documents for review, approval, and issuance to the Contractor.

PBS' duties will include the following:

- 1) PBS will assist the City with addressing construction questions and RFIs from the Contractor.
- 2) PBS will assist the City with processing RFCs from the Contractor.
- 3) PBS will assist the City with preparing change orders and provide these to the City for approval and issuance to the Contractor.
- 4) PBS will prepare design changes associated with change orders (including exhibits) during the construction process.

Assumptions:

- 1) Address up to 10 RFI's
- 2) Process up to 10 RFC's
- 3) Prepare up to 20 Field Directives
- 4) Prepare up to 5 change orders

- 5) Prepare up to four (4) design changes.

Exclusions: Approval of change order paperwork to Contractor.

Sub-Task 15.6: Deliverables

- 1) Copies of RFIs to the City staff
- 2) Copies of RFCs to the City staff
- 3) Draft Change Orders to the City for approval and issuance to the Contractor
- 4) Plan sheets for design changes

Task 16: Construction Observation

Sub-Task 16.1: Site Visits

PBS' Construction Manager will perform site visits as necessitated by concerns or issues arising from construction, or when requested by the City.

Assumptions:

- 1) Site visits will be weekly for up to 7 months.

Sub-Task 16.1: Deliverables

- 1) Copies of written communications
- 2) Copies of observation reports

Sub-Task 16.2: Geotechnical Support

The PBS geotechnical staff will perform site visits on a part- and full-time, on-call basis for observation of fill, foundation, and pavement subgrades, and density testing of structural fill, retaining wall backfill, utility trench backfill, pavement base aggregate, and asphalt concrete pavement. Observations for each visit will be summarized in daily field reports and distributed to the design and construction teams. Inspection staff will be utilized when available to perform compaction testing and subgrade observations.

PBS' geotechnical scope of work will include the following:

- 1) Provide engineering consultation to the design team as requested
- 2) Prepare project addenda to clarify or update geotechnical engineering recommendations
- 3) Review request for information (RFI) and contractor submittals
- 4) Observe site stripping
- 5) Observe suitability of the fill area and pavement subgrades
- 6) Provide density testing of retaining wall backfill
- 7) Provide density testing of utility trench backfill and structural fill
- 8) Provide density testing of pavement base aggregate and asphalt concrete pavement
- 9) Prepare a final report regarding an opinion of compliance related to whether the geotechnical-related aspects of the project were completed in general accordance with the geotechnical engineering report and recommendations.

Sub-Task 16.2 – Deliverables

- 1) Response to RFIs

- 2) Review of material submittals
- 3) Copies of daily field reports (DFRs) documenting the results of observations and testing
- 4) Copies of construction recommendations.

Sub-Task 16.3 Material Testing

PBS will coordinate the testing of materials as required by the ROM. Testing will be performed by third party (Columbia West Engineering.)

Assumptions:

- 1) Assumes material testing as follows:
 - o Borrow
 - Five grading and SE
 - Five compaction tests.
 - o CSBC
 - Four grading, SE and fracture
 - Six compaction tests
 - o HMA
 - Six complete mix tests (graduation, oil content, rice density)
 - Three aggregate only tests
 - Eight compaction sub-lot tests
 - o Gravel backfill for pipe zone
 - Ten compaction tests
 - o Retaining Wall Backfill
 - Four compaction tests
 - o Concrete
 - One grading on coarse aggregate
 - One grading on fine aggregate
 - 12 sets cylinders and breaks

Sub-Task 16.3 – Deliverables:

- 1) Copies of test results and reports.

Sub-Task 16.4: Inspection Services

PBS shall provide on-site construction inspection services. The PBS' construction inspector will be the Engineer's agent for the project and will act as directed by, and under the supervision of the engineer. The inspector's oversight pertaining to the Contractor's work shall, in general, be with the engineer and Contractor, keeping the City staff advised as necessary. The inspector's interaction with subcontractors shall only be through, or with, the full knowledge and approval of the Contractor. The inspector shall communicate with City staff, with the knowledge of and under the direction of the engineer. For budgeting purposes, this assume two (2) full time inspection for 30 weeks during a total project time of 7 months. The inspector responsibilities will include the following:

- 1) Inspector will serve as the engineer's liaison with Contractor, working principally through Contractor's superintendent, and assist in providing information regarding the intent of the Contract Documents.
- 2) Inspector will assist in obtaining additional details or information from the City staff when required for proper execution of the work.

- 3) Inspector will conduct on-site observation of the project to ensure work is completed in accordance with the Contract Documents and advise the City staff if any changed conditions are encountered.
- 4) Inspector will coordinate in advance of scheduled major inspections, or specialty inspections and verify that appropriate City staff personnel are present, and that adequate records are kept.
- 5) Inspector will prepare a daily inspector report recording pertinent information such as: Contractor's hours on the site, weather conditions, and data relative to potential Change Orders, Field Orders, or changed conditions, site visitors, daily activities, and decisions.
- 6) Inspector will immediately notify the City staff of any site accidents, emergencies, acts of God endangering the work, or damage to property.
- 7) Inspector will review the contractor's pay estimates to ensure work being paid for has been completed. Inspector will track and process materials-on-hand in accordance with the Contract Documents.
- 8) Inspector will track bid item quantities daily.
- 9) Inspector will represent the City when communicating with Camas citizens.

Assumptions:

- 1) Two (2) Project inspectors on site up to 10 hours per day for 30 weeks over a total project time of 7 months.

Sub-Task 16.4: Deliverables

- 1) Daily Inspection Reports.
- 2) Daily Tracking of Bid Item Quantities.
- 3) Project photos
- 4) Conduct Interviews

Task 17: Arborist, Landscape, Irrigation and Plant Establishment Support

Task 17 Arborist, Landscape Site Features, Tree Mitigation, Irrigation and Plant-Establishment Support

PBS will provide on-site tree and plant-establishment inspection services. PBS will coordinate to address any questions that may arise regarding this field of expertise.

Sub-Task 17.1: Arborist

PBS Arborist will conduct an initial onsite preconstruction meeting with contractor with daily onsite inspections during tree removal work in the mitigation area, project clearing and grubbing and while working near the American Chestnut tree to be protected. PBS will oversee any proposed BMPs for the protection of the American Chestnut Tree; i.e. restoration pruning, watering, etc. PBS will coordinate with the contractor to ensure the contract plans and specifications are being met.

Assumptions:

- 1) Site visits will be weekly for up to 2 months.

Sub-Task 17.1: Deliverables

- 1) Copies of written communications
- 2) Copies of observation reports

Sub-Task 17.2: Landscape Site Features

PBS Landscape Architect will provide coordination and direction for selected landscape features within the roundabout and open areas. PBS will coordinate with the contractor on the selection, location and orientation of tree root wads, fallen trees, logs to be retained for benches and landscape lighting.

Assumptions:

- 1) Up to three site visits.

Sub-Task 17.2: Deliverables

- 1) Copies of written communications

Sub-Task 17.3: Tree Mitigation

PBS Landscape Architect will provide staking in field of trees within the proposed mitigation area. PBS will coordinate with the contractor to ensure the contract plans and specifications are being met.

Assumptions:

- 1) Up to three site visits.

Sub-Task 17.3: Irrigation System

PBS Landscape Architect will inspect irrigation layout, operation and water schedule timing. PBS will ensure start up and winterization with required state backflow certification is conducted. PBS will coordinate with the contractor to ensure the contract plans and specifications are being met.

Assumptions:

- 1) Up to three site visits.

Sub-Task 17.2: Deliverables

- 1) Copies of written communications
- 2) Copies of observation reports and punch lists
- 3) Notice of fully operational status

Sub-Task 17.4: Plant Establishment

PBS will monitor the planting and establishment of plants for the duration of the plant establishment period. Once plantings have been installed, monthly on-site meetings with the contractor will be held to check the condition of the plantings and develop a list of any action items.

Assumptions:

- 1) Site visits will be monthly for up to 38 months.

Sub-Task 17.2: Deliverables

- 4) Copies of written communications
- 5) Copies of observation reports and punch lists
- 6) Notice of completion for 1, 2- and 3-year plant establishment

Task 18: Project Closeout and As-Builts

Sub-Task 18.1: As-Builts

The Final Plans will be revised to conform to construction record drawings from information supplied by the Contractor, and as reviewed by the PBS inspector.

PBS' duties will include the following:

- 1) PBS will review Construction Record Drawings provided by the Contractor.
- 2) PBS will submit the complete set to the City for approval.

Sub-Task 18.1: Deliverables

- 1) Reviewed Construction Record Drawings.

Sub-Task 18.2: Closeout Documentation

PBS will compile project closeout documentation and coordinate with the Contractor and the City to obtain the required documents. PBS will assemble project documentation and deliver to the City at project completion.

- 1) PBS's Construction Manager, Inspector and the City staff will perform final inspections and will create a list of punch list items. PBS's Construction Manager and the City staff will establish dates of substantial, physical, and contract completion.
- 2) PBS will prepare draft letters of substantial, physical, and contract completion for review, approval, and issuance by the City.
- 3) PBS will assemble construction documentation in binders for delivery to the City.
- 4) PBS will represent City staff in WSDOT/HLP file and project reviews and audits.

Sub-Task 18.2: Deliverables

- 1) Draft letters of substantial, physical, and contract completion for approval and issuance by the City
- 2) Hard copy of construction documentation and electronic files on CD

Reimbursable Expenses

PBS has included reimbursable expenses for:

- 1) Vehicle mileage
- 2) Printing, copying, or binding services

**EXHIBIT “B”
AMENDED COSTS FOR SCOPE OF SERVICES**

Exhibit B

Lake and Everett- CM Budget

City of Camas, Washington
 Tuesday, March 10, 2020

EXHIBIT "B"
 SECTION B ONLY

Task and Description	PBS Engineering and Environmental (Engineering/Management)																				TOTAL	Subcontractors			SUB TOTAL	BUDGET AMOUNT	
	ENG- PRINCIPAL	ENG MGR VII	ENG VI	ENG V	ENG III	ENG I	LA/PA V	Survey VI PLS	Survey IV PLS	Survey II	Survey 2- Person Crew	UAS Operator	Project Geol. II	Project Geol. I	Const IV	Const I	PRJ ADMIN II	PRJ ADMIN I	Public Outreach Specialist	Expense		Kittleson	Columbia West	WSP			
Task 13: Project Management and Coordination																					60,775.00				0.00	60,775.00	
Sub-Task 13.1: Contract Administration, Invoicing, and Progress Reports	8.00	45.00															45.00				14,175.00				0.00	\$14,175.00	
Sub-Task 13.2: Preconstruction and Kickoff Meetings	4.00	16.00		4.00											8.00	8.00				200.00				0.00	\$6,380.00		
Sub-Task 13.3: Utility Coordination	8.00	10.00		40.00												20.00								0.00	\$11,500.00		
Sub-Task 13.4: Construction Advertisement Assistance	4.00			8.00															20.00					0.00	\$3,780.00		
Sub-Task 13.5: Public Outreach																			172.00					0.00	\$24,940.00		
Task 14: Construction Survey and Staking																					85,267.00				0.00	85,267.00	
Sub-Task 14.1: Construction Staking				12.00				10.00	20.00	140.00	230.00									400.00				0.00	\$64,510.00		
Sub-Task 14.2: Monumentation								4.00		8.00	15.00													0.00	\$4,357.00		
Sub-Task 14.3: UAS Services												120.00									200.00				0.00	\$16,400.00	
Task 15: Construction Management and Engineering																					152,240.00				22,226.00	174,466.00	
Sub-Task 15.1: Prepare Record of Materials (ROM)		8.00													24.00	40.00									0.00	\$8,360.00	
Sub-Task 15.2: On-Site Meetings		100.00		20.00																	1,200.00				0.00	\$22,200.00	
Sub-Task 15.3: Material Submittals		80.00		120.00	40.00		8.00											80.00					0.00	\$45,440.00			
Sub-Task 15.4: Construction Administration and Engineering		160.00																120.00			17,000.00		5,226.00	22,226.00	\$61,106.00		
Sub-Task 15.5: Response to Questions and Change Orders	24.00	80.00		60.00	40.00																			0.00	\$37,360.00		
Task 16: Construction Observation																					364,530.00				25,500.00	390,030.00	
Sub-Task 16.1: Site Visits		80.00		24.00																	550.00				0.00	\$18,550.00	
Sub-Task 16.2: Geotechnical Support	10.00	12.00											70.00	140.00					10.00					0.00	\$29,670.00		
Sub-Task 16.3: Material Testing	2.00	2.00																			2,500.00		25,500.00		25,500.00	\$28,810.00	
Sub-Task 16.4: Inspection Services															1,200.00	1,600.00					5,000.00				0.00	\$313,000.00	
Task 17: Landscape Architect and Arborist Construction Support																					30,530.00				0.00	30,530.00	
Sub-Task 17.1: Arborist																						150.00				0.00	\$2,390.00
Sub-Task 17.2: Landscape Site Features																						100				0.00	\$1,780.00
Sub-Task 17.3: Tree Mitigation																						100.00				0.00	\$1,780.00
Sub-Task 17.4: Irrigation System																						150.00				0.00	\$2,950.00
Sub-Task 17.5: Plant Establishment																						350.00				0.00	\$21,630.00
																											\$0.00
Task 18: Project Closeout and As-Builts																						16,500.00				0.00	16,500.00
Sub-Task 18.1: As-Builts		8.00		12.00	24.00	8.00									8.00	8.00									0.00	\$8,440.00	
Sub-Task 18.2: Closeout Documentation		20.00													8.00	24.00	12.00									0.00	\$8,060.00
																											\$0.00
TOTAL HOURS	60.00	621.00	0.00	288.00	92.00	24.00	228.00	14.00	20.00	148.00	245.00	120.00	70.00	140.00	1,248.00	1,700.00	57.00	270.00	172.00								
HOURLY RATES	225.00	180.00	165.00	150.00	130.00	105.00	140.00	170.00	130.00	94.00	195.00	135.00	110.00	98.00	130.00	95.00	95.00	84.00	145.00								
TOTAL DOLLARS	13,500.00	111,780.00	0.00	43,200.00	11,960.00	2,520.00	31,920.00	2,380.00	2,600.00	13,912.00	47,775.00	16,200.00	7,700.00	13,720.00	162,240.00	161,500.00	5,415.00	22,680.00	24,940.00	13,900.00	709,842.00	17,000.00	25,500.00	5,226.00	47,726.00	757,568.00	

SUBTOTAL SECTION A 90,806.52
AMENDMENT 2 TOTAL 848,374.52

**EXHIBIT “C”
AMENDED CONSULTANT BILLING RATES**

***Survey Crew and UAS Operator Rates Include Equipment Cost**

Classification*	Max salary	Overhead	Profit	Max billing	Actual
	2020	174.57%	30.00%	Rate	Billing Rate
Principal Engineer	\$ 106.63	\$ 186.14	\$ 31.99	\$ 324.76	225
Engineer VIII	\$ 100.10	\$ 174.74	\$ 30.03	\$ 304.87	190
Engineer VII	\$ 69.71	\$ 121.69	\$ 20.91	\$ 212.32	180
Engineer VI	\$ 68.65	\$ 119.84	\$ 20.60	\$ 209.09	165
Engineer V	\$ 63.70	\$ 111.20	\$ 19.11	\$ 194.01	150
Engineer IV	\$ 56.19	\$ 98.09	\$ 16.86	\$ 171.14	140
Engineer III	\$ 46.63	\$ 81.40	\$ 13.99	\$ 142.02	130
Engineer II	\$ 38.76	\$ 67.66	\$ 11.63	\$ 118.05	115
Engineer I	\$ 35.33	\$ 61.68	\$ 10.60	\$ 107.60	105
Engineering Technician	\$ 31.00	\$ 54.12	\$ 9.30	\$ 94.42	90
Landscape Arch/Planner VI	\$ 65.00	\$ 113.47	\$ 19.50	\$ 197.97	155
Landscape Arch/Planner V	\$ 60.00	\$ 104.74	\$ 18.00	\$ 182.74	140
Landscape Arch/Planner IV	\$ 46.30	\$ 80.83	\$ 13.89	\$ 141.02	130
Landscape Arch/Planner III	\$ 38.75	\$ 67.65	\$ 11.63	\$ 118.02	105
Landscape Arch/Planner II	\$ 35.25	\$ 61.54	\$ 10.58	\$ 107.36	95
Landscape Arch/Planner I	\$ 32.00	\$ 55.86	\$ 9.60	\$ 97.46	85
Design Technician IV	\$ 39.80	\$ 69.48	\$ 11.94	\$ 121.22	120
Design Technician III	\$ 36.50	\$ 63.72	\$ 10.95	\$ 111.17	110
Engineering Geologist I	\$ 43.27	\$ 75.54	\$ 12.98	\$ 131.79	130
Construction Inspector IV	\$ 50.00	\$ 87.29	\$ 15.00	\$ 152.29	130
Construction Inspector III	\$ 47.00	\$ 82.05	\$ 14.10	\$ 143.15	120
Construction Inspector II	\$ 45.00	\$ 78.56	\$ 13.50	\$ 137.06	105
Construction Inspector I	\$ 38.00	\$ 66.34	\$ 11.40	\$ 115.74	95
Survey VI (PLS Principal)	\$ 66.67	\$ 116.39	\$ 20.00	\$ 203.06	170
Survey V (PLS Manager)	\$ 52.00	\$ 90.78	\$ 15.60	\$ 158.38	150
Survey IV (PLS)	\$ 43.80	\$ 76.46	\$ 13.14	\$ 133.40	130
Survey III (LSIT)	\$ 35.00	\$ 61.10	\$ 10.50	\$ 106.60	105
Survey II (Technician)	\$ 31.00	\$ 54.12	\$ 9.30	\$ 94.42	94
Survey I (Assistant)	\$ 26.97	\$ 47.08	\$ 8.09	\$ 82.14	80
Survey 2-Person Crew	\$ 59.55	\$ 103.96	\$ 17.87	\$ 181.37	195*
Survey 1-Person Crew	\$ 31.00	\$ 54.12	\$ 9.30	\$ 94.42	140*
Unmanned Aircraft Sys. Op.	\$ 34.38	\$ 60.02	\$ 10.31	\$ 104.71	135*
Principal Geologist	\$ 72.12	\$ 125.90	\$ 21.64	\$ 219.66	200
Sr. Geologist III	\$ 55.29	\$ 96.52	\$ 16.59	\$ 168.39	165
Sr. Geologist II	\$ 44.48	\$ 77.65	\$ 13.34	\$ 135.47	135
Sr. Hydrogeologist II	\$ 70.00	\$ 122.20	\$ 21.00	\$ 213.20	150
Sr. Geologist I	\$ 41.39	\$ 72.25	\$ 12.42	\$ 126.06	125
Project Geologist II	\$ 39.76	\$ 69.41	\$ 11.93	\$ 121.10	120
Project Scientist/Planner I	\$ 32.46	\$ 56.67	\$ 9.74	\$ 98.86	98
Project Geologist I	\$ 32.46	\$ 56.67	\$ 9.74	\$ 98.86	98
Staff Geologist II	\$ 29.50	\$ 51.50	\$ 8.85	\$ 89.85	89
Staff Scientist/Planner II	\$ 29.50	\$ 51.50	\$ 8.85	\$ 89.85	89
Staff Geologist I	\$ 28.35	\$ 49.49	\$ 8.51	\$ 86.35	85
Field Technician	\$ 25.00	\$ 43.64	\$ 7.50	\$ 76.14	70
Principal Scientist/Planner	\$ 73.75	\$ 128.75	\$ 22.13	\$ 224.62	195
Senior Scientist/Planner	\$ 50.66	\$ 88.44	\$ 15.20	\$ 154.30	145
Sr Environ/Regulatory Spec.	\$ 47.70	\$ 83.27	\$ 14.31	\$ 145.28	145
Proj Envir/Regulatory Spec	\$ 42.50	\$ 74.19	\$ 12.75	\$ 129.44	120
Proj Environ Compl Monitor	\$ 38.50	\$ 67.21	\$ 11.55	\$ 117.26	115
Field Scientist/Planner	\$ 25.00	\$ 43.64	\$ 7.50	\$ 76.14	75
Public Involvement	\$ 40.39	\$ 70.51	\$ 12.12	\$ 123.02	120
IT / Database Management	\$ 45.00	\$ 78.56	\$ 13.50	\$ 137.06	110
CAD Manager	\$ 40.96	\$ 71.50	\$ 12.29	\$ 124.75	120
CAD / Micro Station Tech I	\$ 27.50	\$ 48.01	\$ 8.25	\$ 83.76	82
Graphic Artist	\$ 33.05	\$ 57.70	\$ 9.92	\$ 100.66	100
Writer / Editor	\$ 34.62	\$ 60.44	\$ 10.39	\$ 105.44	95
Project Administrator II	\$ 38.46	\$ 67.14	\$ 11.54	\$ 117.14	95
Project Administrator I	\$ 28.00	\$ 48.88	\$ 8.40	\$ 85.28	85
Administration	\$ 24.75	\$ 43.21	\$ 7.43	\$ 75.38	70

*Includes Equipment Cost