

EXHIBIT A
SCOPE OF WORK
CITY OF CAMAS
PARALLEL STEP MAIN REPLACEMENT DESIGN

PROJECT UNDERSTANDING

The City of Camas' Septic Tank Effluent Pump System (STEP) Main carries domestic, commercial and industrial flows from west Camas to the north from the Brady Road Pump Station along Parker Road, then to the southeast along Lake Road south of Lacamas Lake, and then to the south along Everett Road, eventually discharging at the WWTP. A STEP Main Extension was installed in 2015-2016 to connect the pre-existing STEP Main, which had terminated at the 6th and Joy gravity line, directly to the WWTP. The length of the pre-existing STEP Main is approximately 36,940 lf. The pipe material is PVC and varies in diameter from 8 inches to 24 inches. The majority of the STEP Main was installed in the mid-1980s and is thus about 40 years old. Much of the pipe used for the STEP Main is thin-walled (SDR41), plastic irrigation PVC pipe with a 100-psi rating.

A portion of the City's STEP Main is experiencing plugging issues due to a buildup of scale caused by the industrial discharge from TSMC (a.k.a. Wafertech). In June 2024 Gray and Osborne provided the City of Camas with a STEP Main Condition Assessment Plan and Scale Removal Evaluation study and report. The study and report included an evaluation of pipe scaling caused by the TSMC facility, a plan for assessing the condition of the City's STEP Main serving West Camas and NW Lake Road, and concept plans for replacing the STEP Main. The concept plan included cost estimates for replacing the entire STEP Main (from the Brady Road Pump Station to the new extension) and for replacing just the portion of the STEP Main near the TSMC facility

Given the nature of its construction, the scaling issues, and age of 40 years, it is appropriate to start developing a plan for phased replacement of the STEP Main and provide some parallel pipes for bypass provisions to reduce the risk of a catastrophic failure. The first phase for the STEP Main replacement will be construction of a parallel STEP Main around the TSMC (a.k.a. Wafertech) discharge locations on Lake Road, from NW Jackson to NW Friberg-Strunk Street. This section of STEP Main replacement currently consists of approximately 4,500 lf of 12-inch and 24-inch PVC pipe and associated appurtenances. Maintaining STEP Main service to TSMC and the rest of the customers throughout project construction will be of critical importance. The City has determined that installation of a redundant force main is desired to preserve pipeline capacity and allow for investigation and rehabilitation of the existing main. The City has requested this scope of work to install approximately 5,600 LF of parallel main from NW Friberg-Strunk Street to NW Jackson Street, a section where scaling is suspected.

More specifically, the work will include the following.

DESIGN

Task 1 – Project Management and Oversight

Provide overall project management and oversight of the project work by the Principal-in-Charge and senior staff members. Services to include:

- A. Procure sufficient staff resources to dedicate to the project.
- B. Prepare and execute subconsultant contracts.
- C. Manage subconsultant work.
- D. Manage and control project budget and schedule.
- E. Manage and provide monthly progress reports and invoices.
- F. Provide coordination with the City, Wafertech, and other stakeholders.

In addition to Gray and Osborne’s internal project management, project management will also be provided by Shell Engineering and Consulting, LLC (Shell). (See attached scope from Shell, which is made a part of this scope by this reference.)

Task 2 – Kickoff Meeting

Conduct a kickoff meeting with City staff to confirm scope, identify critical path schedule and task items, format and schedule for deliverables, major project assignments, stakeholder contacts, and any special regulatory and funding agency requirements. The discussion will include, but not be limited to, the following topics:

- A. Review provided record drawings of existing system.
- B. Review and confirm project understanding and design criteria to be employed.
- C. Review and confirm task assignments and budget hours for assigned tasks.
- D. Review and confirm project schedule and milestones/deliverables.
- E. Identify regulatory requirements.
- F. Identify utility purveyors and concerns.

- G. Identify project stakeholders and discuss their needs and impacts on the project.
- H. Environmental requirements.
- I. Document the discussion of the meeting and distribute to all attendees.

Task 3 – Survey

Define the limits of the existing rights-of-way, property line, and easements in the project corridors prior to design. Obtain vertical and horizontal control necessary for design of the project, obtain pertinent topographical information to include identifying existing and obvious utilities, and pertinent topographical features to facilitate design of the project. Survey services, to include:

- A. Right-of-Way and Easement Research

Acquire and utilize readily available records of survey, plat maps, assessor maps, etc., from the County Courthouse (Auditor’s Office) along the project corridors as required for establishing the existing rights-of-way and easements along the project alignment. This work will include:

- 1. Identify current rights-of-way along the proposed alignment.
- 2. Overlay the rights-of-way and current property easements on a plan view of the project corridor.

- B. Topographic Survey

- 1. Establish vertical and horizontal control on the City adopted datum for survey and mapping at a scale of not more than 1 inch = 20 feet (horizontal) and 1 inch = 5 feet (vertical). Vertical control will be suitable for establishing 2-foot contour intervals and to support the design and construction included in this scope of work.
- 2. Acquire supplemental topographical survey of the site (within and adjacent to the project corridor) to include establishing surface grades, pavement edges, visually obvious utilities (including utility poles, hydrants, valves, etc.), buildings, fences, major trees and significant landscaping, sidewalks, etc., in sufficient detail to support an adequate level of design.
- 3. Work to support the City obtaining easements for project alignment, if required, including legal descriptions and exhibits.

Task 4 – Utility Data Acquisition

Acquire record drawings and/or as-built information from utility purveyors known to provide service in the project corridor. Services, to include:

- A. Provide written requests for all utility purveyors known to provide utility service in the project area.
- B. Review data provided by utility purveyors and incorporate into project design as may be applicable.
- C. Applied Professional Services, Inc. (APS) will be contracted to locate and mark existing utilities prior to project survey. This information will be picked up by our survey crew and incorporated into the project base map. Potholing of critical utilities will also be contracted through this company once the preferred alignment has been identified.

Task 5 – Technical Memorandum (Predesign Letter Report)

Prepare a technical memorandum summarizing the project understanding, design criteria, regulatory requirements, and general design guidelines and standards which govern the project design. Services, to include:

- A. Prepare a written technical memorandum (letter report) summarizing the project understanding, project site, access issues, utility needs, pertinent design criteria, regulatory requirements, and general design guidelines and standards which govern the project design. The Technical Memorandum will also document the sizing/hydraulic recommendations provided by the City's modeling consultant. We will confirm this information with Wafertech and the City to verify it reflects the current understanding of future Wafertech expansion plans and flows.
- B. Submit the technical memorandum to City staff and solicit comments and/or clarifications. Incorporate all relevant review comments into memorandum and issue the final memorandum to the City.

NOTE: It is assumed that the City's modeling consultant will provide information regarding flow and pressure that will be used in the design for sizing and capacity.

Task 6 – Permitting

Gray and Osborne will provide support required to obtain permits necessary to facilitate construction of the project. Services, to include:

A. Right-of-Way Permits

1. Prepare and submit for grading, drainage, and right-of-way permits from the City.
2. Prepare traffic control plans as necessary for work in major intersections and streets.

B. Stormwater General Construction Permit

Prepare and submit for a Stormwater General Construction Permit from the Washington State Department of Ecology, if required. It is likely that this project disturbs less than one acre, and will thus be exempt.

C. SEPA Checklist

Prepare and submit draft SEPA and revise the document as necessary before preparing final documents for City processing.

Task 7 – 30 Percent Design

Prepare 30 percent design effort drawings of the proposed utility alignment for City review. Services, to include:

A. Base Map

Incorporate all utility as-built information, plat map (property line) information, survey data, and other available and relevant information into the development of a base map.

B. STEP Main Alignment

Prepare layouts and full-size drawings of design representing a 30 percent design effort to include alignment, profile, and typical cross sections illustrating the proposed improvements. These proposed improvements will be designed on the base map developed from the project survey.

C. Quantities and Cost Estimates

Calculate bid quantities and prepare preliminary-level construction cost estimates.

D. Review Meeting

Meet with City staff as may be required to review project status and solicit concerns/comments. It is assumed that the meeting will occur via video conference.

Task 8 – 60 Percent Design

Prepare project drawings, specifications, and cost estimates of the STEP main improvements representing a 60 percent design effort for City review and comment. Specifications will be prepared in WSDOT format. Design will be limited to the preferred alignment developed through the 30 percent design effort. Services, to include:

A. Plans

Prepare preliminary construction plans in City-approved format to include title sheet, legend, location and vicinity maps, plan and profile sheets, special notes, special details, etc.

B. Specifications (Draft)

Prepare draft project specifications in WSDOT format referencing the *2025 Standard Specifications for Road, Bridges and Municipal Construction*. Specifications to include City-approved proposal, contract, and bonding documents.

C. Quantities and Cost Estimates

Calculate bid quantities and prepare construction cost estimates.

D. Review Meeting

Meet with City staff as may be required to review project status and solicit concerns/comments. It is assumed that the meeting will occur via video conference.

Task 9 – 90 Percent Design

Prepare project drawings, specifications, and cost estimates of the STEP main improvements representing a 90 percent design effort for City review and comment. Services, to include:

A. Plans

Prepare construction plans in City-approved format to include title sheet, legend, location and vicinity maps, plan and profile sheets, special notes, special details, etc.

B. Specifications

Prepare project specifications in WSDOT format referencing the 2025 Standard Specifications for Road, Bridges and Municipal Construction. Specifications to include City-approved proposal, contract, and bonding documents.

C. Quantities and Cost Estimates

Calculate bid quantities and prepare construction cost estimates.

D. Review Meeting

Meet with City staff as may be required to review project status and solicit concerns/comments. It is assumed that the meeting will occur via video conference.

Task 10 – Final Design

Prepare final design drawings and specifications for use as bid documents suitable for bidding, award, and construction of the project. Specifications will be prepared in WSDOT format, meeting minimum City and WSDOT requirements, adhering to City codes and state guidelines where and when applicable. Plans shall be prepared in City-approved format to include plan and profile sheets and special details. Services, to include:

A. Final Plans

Prepare final bid/construction plans in City-approved format to include title sheet, legend, vicinity and location map, plan and profile sheets, special notes, special details, etc.

B. Specifications (Final)

Prepare final specifications in WSDOT format to include proposal, contract, bonding documents, and technical specifications.

C. Quantities and Cost Estimates

Prepare final quantity takeoff and construction-level construction cost estimate.

Task 11 – Quality Assurance/Quality Control

Oversee three in-house quality assurance/quality control (QA/QC) meetings at G&O’s office during the course of the design project. The meetings will include senior project staff, Shell Engineering, and selected design team members. Meetings are to take place at the following levels:

A. 30 Percent Design (defined more fully in Task 7).

B. 60 Percent Design (defined more fully in Task 8).

C. 90 Percent Design (defined more fully in Task 9).

Ensure incorporation of relevant recommendations and suggestions into bid/construction documents resulting from QA/QC reviews.

Task 12 – Bid Support

Assist the City during the bid phase. Services, to include:

A. Support City staff to answer bid inquiries during bid phase.

B. Support City staff to prepare any Bid Addenda as may be required.

SCHEDULE

We anticipate the following schedule:

Notice to Proceed.....	February 1, 2026
30 Percent Design Effort.....	April 15, 2026
60 Percent Design Effort.....	July 15, 2026
90 Percent Design Effort.....	October 15, 2026
Final Design Effort	January 2027

BUDGET

The maximum amount payable to the Engineer for completion of work associated with this scope of work, including contingencies, salaries, overhead, direct non-salary costs, and net fee, is set forth in the attached Exhibit B. This amount will not be exceeded without prior written authorization of the City.

MANAGEMENT RESERVE FUND

The Management Reserve Fund allows the City to expand the scope of work without seeking an additional and formal contract supplement, within the limits and terms as stated herein. The Engineer cannot access the Management Reserve Fund budget without the further written authorization of the City.

The Management Reserve Fund will consist of an amount not to exceed \$10,000, and is set aside to cover the cost of unforeseen work and/or services required for the PS&E phase of the project. Such unforeseen conditions could include additional right-of-way research, utility locates, traffic analysis, environmental documentation, public involvement process, geotechnical assistance, additional design effort, and/or other related tasks.

DELIVERABLES

At the conclusion of the design effort and during the course of the project, as applicable, the Engineer will deliver to the City the following documents:

1. Electronic copies of any permits acquired during the development of the project.
2. SEPA checklist.
3. Technical memoranda:
 - a. Draft copy;
 - b. Final copy.
4. Electronic copies of full-scale drawings at 30 percent, 60 percent, and 90 percent design effort levels.
5. Electronic copies of project specifications and cost estimate at 60 percent and 90 percent design effort levels.
6. Electronic set of final construction drawings (PDF).

7. One electronic set of final project specifications (PDF).

PROJECT ASSUMPTIONS REGARDING CITY RESPONSIBILITIES

This scope of work and the resulting maximum amount payable is based on the following assumptions as required for the development of the project. See also item assumptions noted in the aforementioned tasks. Changes in these assumptions and responsibilities may cause a change in scope of the services being offered and result in a corresponding adjustment of the contract price.

1. This scope of work assumes that the City will provide overall coordination and approval of the project, including timely (2 week) review of all submittals. This also assumes timely responses from Wafertech to inquires, issues raised, and the predesign review.
2. This scope of work assumes that the City will provide G&O with relevant capacity requirements and record drawings of existing sanitary sewer infrastructure along the project alignment, as may be available and/or pertinent to the project.
3. This scope of work assumes that the City will advertise and circulate the SEPA checklist document, pay any costs of publication, and make timely threshold determinations.
4. This scope of work assumes that the City will agree to appear as “Applicant” on all permits, will function as lead agency for the environmental documentation process, and will pay all costs or fees associated with the various permits that may be required.
5. This scope of work assumes that the City will make arrangements for and provide a suitable location to accommodate the bid opening.
6. This scope assumes that geotechnical investigations will not be needed due to the proposed pipeline being located within existing roadway.
7. This scope assumes there will be no critical areas requirements for this project due to the proposed pipeline being located within existing roadway.



SCOPE OF WORK FOR

CITY OF CAMAS WAFERTECH SECTION PARELLEL STEP MAIN REPLACEMENT

December 4, 2025

PROJECT OVERVIEW

The City of Camas' Septic Tank Effluent Pump System (STEP) Main carries domestic, commercial and industrial flows from west Camas to the north from the Brady Road Pump Station along Parker Road, then to the southeast along Lake Road south of Lacamas Lake, and then to the south along Everett Road, eventually discharging at the WWTP. A STEP Main Extension was installed in 2015-2016 to connect the pre-existing STEP Main, which had terminated at the 6th and Joy gravity line, directly to the WWTP. The length of the pre-existing STEP Main is approximately 36,940 lf. The pipe material is PVC and varies in diameter from 8 inches to 24 inches. The majority of the STEP Main was installed in the mid-1980s and is thus about 40 years old. Much of the pipe used for the STEP Main is thin-walled (SDR41), plastic irrigation PVC pipe with a 100-psi rating.

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Given the nature of its construction, the scaling issues, and age of 40 years, it is appropriate to start developing a plan for phased replacement of the STEP Main and provide some parallel pipes for bypass provisions to reduce the risk of a catastrophic failure. The first phase for the STEP Main replacement will be construction of a parallel STEP Main around the TSMC discharge locations on Lake Road, from NW Jackson to NW Friberg Trunk Street. This section of STEP Main replacement currently consists of approximately 4,500 lf of 12-inch and 24-inch PVC pipe and associated appurtenances. Maintaining STEP Main service to TSMC and the rest of the customers throughout project construction will be of critical importance. The City has determined that installation of a redundant force main is desired to preserve pipeline capacity and allow for investigation and rehabilitation of the existing main. The City has requested this scope of work to install approximately 5,000 LF of parallel main from NW Friberg-Strunk Street to NW Jackson Street, a section where scaling is suspected.

More specifically, the work will include the following

SCOPE OF WORK

1. Project Management

Provide project management for the project. Coordinate with City of Camas (City) staff and the Gray & Osborne (G&O) project team. Coordinate and manage the schedule for the consultant team. Facilitate communication and exchange of information. Review project progress versus schedule. Meet periodically with the City and G&O project team to review project progress and identify design issues. Communicate with regulatory agencies and stakeholders.

2. Review Background Information

Review previous reports, flow data, and record drawings. Coordinate with City to obtain available information required for design.

3. Technical Memorandum (Predesign Letter Report)

Manage analysis of the existing STEP Main and facilitate preparation a pre-design Technical Memorandum. Submit the Technical Memorandum for City review and comments. Facilitate a review meeting with City staff and preparation of a final draft.

4. Design Phase

Provide project management for completion of engineering design of the project. This task includes completing the engineering analysis and calculations necessary to complete the design. This task also includes preparation of detailed plans, specifications, and cost estimates to adequately describe the work for a public works contractor. Deliverables for this phase of the project will be provided at 30%, 60%, 90% and Final stages of development.

- Plans
- Special provisions
- Engineer's estimate

5. Client Meetings, Stakeholder Meetings, and Site Visits

Attend meetings with City staff and Stakeholders during all phases of the project. Attend site visits to review existing conditions, field verify utility locations and record drawings (if available), and verify locations of proposed work. The following meetings are anticipated:

- Project Scoping Meeting
- Project Kick-off Meeting
- Site Visits
- Periodic Project Team Meetings
- Pre-Design Report Review Meeting
- Design Review Meetings at 30%, 60%, 90% and Final

6. Permitting Assistance

Assist G&O with applying for and obtaining the required permits for the project. It is anticipated that the following permit applications will be required:

- City of Camas Engineering Approval
- SEPA Checklist

7. QA/QC Review

Conduct Quality Assurance/Quality Control reviews of all deliverables, to include:

- Survey Base Map
- Pre-Design Technical Memorandum
- 30%, 60%, 90% and Final design submittals
- SEPA Checklist

8. Bid and Contract Award Services

Assist the City with the bid and award process for the project. Respond to bidder inquiries. Prepare addenda as necessary. Review bid results and bidder qualifications. Prepare an award recommendation for the City.

9. Assumptions:

The following assumptions have been made in developing this scope of work.

- Meetings will be video conferences.
- No right-of-way, stormwater or grading permitting is required.
- No geotechnical investigation or recommendations are required.
- Less than 1 acre of ground disturbance will occur and a Stormwater General Construction Permit (NPDES) is not required.
- SEPA Checklist will be prepared by Gray and Osborne.
- Construction support services will be contracted under a future amendment.



SHELL

Engineering &
Consulting LLC

EXHIBIT 'B'
Fee Estimate

City of Camas STEP Main Replacement
December 4, 2025

Task	Description	Hours	Labor Cost	Expenses	Total Cost
1	CONTRACT MANAGEMENT				
	Scope Development	12	\$ 2,400		\$ 2,400
	Invoicing	3	\$ 600		\$ 600
2	REVIEW BACKGROUND INFORMATION				
	Reports	8	\$ 1,600		\$ 1,600
	Record Drawings	4	\$ 800		\$ 800
	Site Review	4	\$ 800		\$ 800
3	TECHNICAL MEMORANDUM				
	Report Development	8	\$ 1,600		\$ 1,600
4	DESIGN PHASE				
	30%	40	\$ 8,000		\$ 8,000
	60%	40	\$ 8,000		\$ 8,000
	90%	40	\$ 8,000		\$ 8,000
	Final	40	\$ 8,000		\$ 8,000
5	MEETINGS				
	Plan Review Meetings	8	\$ 1,600		\$ 1,600
	Stakeholder Meetings	8	\$ 1,600		\$ 1,600
6	PERMITTING ASSISTANCE				
	SEPA Checklist (included above)				
	ROW Permit (included above)				
7	QA/QC REVIEWS				
	Technical Memorandum	4	\$ 800		\$ 800
	30% Deliverable	4	\$ 800		\$ 800
	60% Deliverable	4	\$ 800		\$ 800
	90% Deliverable	4	\$ 800		\$ 800
	Final PS&E	4	\$ 800		\$ 800
8	BID AND CONTRACT AWARD				
	Bidder Questions, Pre-Bid Meeting, Addenda	8	\$ 1,600		\$ 1,600
	TOTAL	243	\$ 48,600	\$ 500	\$ 49,100

EXHIBIT B

**ENGINEERING SERVICES
SCOPE AND ESTIMATED COST**

CITY OF CAMAS - PARALLEL STEP MAIN REPLACEMENT DESIGN

Tasks	Principal-In-Charge Hours	Project Manager Hours	Civil Eng. Hours	Engineer-In-Training Hours	AutoCAD/ GIS Tech./ Eng. Intern Hours	Professional Land Surveyor Hours	Field Survey Crew Member Hours
1 Project Management and Oversight	8	32					
2 Kickoff Meeting	1	4	1				
3 Survey		2			8	60	200
4 Utility Data Acquisition		2	8	32			
5 Prepare Technical Memorandum	12	16	60		12		
6 Permitting		4	16	40	24		
7 30 Percent Design		16	60	80	120		
8 60 Percent Design		16	60	80	120		
9 90 Percent Design		16	60	80	120		
10 Final Design		16	40	40	80		
11 Quality Assurance/Quality Control	30	16	16	12			
12 Bid and Award Services		8	16	4	4		
Hour Estimate:	51	148	337	368	488	60	200
Fully Burdened Billing Rate Range:*	\$170 to \$270	\$170 to \$270	\$140 to \$190	\$110 to \$180	\$70 to \$190	\$140 to \$220	\$80 to \$160
Estimated Fully Burdened Billing Rate:*	\$260	\$240	\$150	\$125	\$135	\$205	\$145
Fully Burdened Labor Cost:	\$13,260	\$35,520	\$50,550	\$46,000	\$65,880	\$12,300	\$29,000

Total Fully Burdened Labor Cost:	\$ 252,510
Direct Non-Salary Cost:	
Mileage & Expenses (Mileage @ current IRS rate)	\$ 3,980
Subconsultant:	
Locate Company	\$ 25,000
Shell Engineering & Consulting, LLC	\$ 49,100
Subconsultant Overhead (10%)	\$ 7,410
Management Reserve:	\$ 10,000
TOTAL ESTIMATED COST:	\$ 348,000

* Actual labor cost will be based on each employee's actual rate. Estimated rates are for determining total estimated cost only. Fully burdened billing rates include direct salary cost, overhead, and profit.