



## EXHIBIT 'A'

### SCOPE OF WORK FOR BOULDER CREEK WATER INTAKE MAINTENANCE IMPROVEMENTS AMENDMENT NO. 1 PERMITTING, DESIGN AND CONSTRUCTION PHASE SERVICES

*January 24, 2024*

#### **Project Description**

The City of Camas (City) desires to amend its contract with Shell Engineering and Consulting LLC (Shell) to provide additional consulting services for the Boulder Creek Water Intake.

The streambed surrounding the water intake behind the concrete dam has accumulated gravel and the bank along the maintenance access road has been eroded by stream flows. Under the initial contract for this project Shell provided a technical memorandum that included concept-level repair alternatives for maintaining the intake structure and repairing the maintenance access road to the intake. In addition, Shell provided preliminary consultations with regulatory/permitting agencies, including the U.S. Army Corps of Engineers (ACOE) and the Washington State Department of Wildlife (WDFW). Shell was unable to obtain preliminary consultations with Clark County Community Development (County) and the Washington State Department of Ecology (DOE).

The City now desires to proceed with permitting, design and construction phase services.

#### **Project Assumptions:**

1. This project will include excavation of up to 50 cubic yards of accumulated gravel from the streambed behind the dam and placement of up to 50 cubic yards of rock revetment and road fill for streambank restoration and repair of the maintenance access road.
2. The City will renew their Hydraulic Project Approval (HPA) for the Boulder Creek Intake with WDFW. The renewed HPA will allow excavation of up to 50 cubic yards of accumulated gravel from behind the dam.
3. Removal of sediment, repair of the eroded maintenance road and construction of a rock revetment for bank stabilization will be considered utility maintenance by applicable regulatory agencies.
4. Bio-engineering design is not included.
5. This project will be bid as a small works project.
6. Construction will occur during the in-water work window (the month of August) of 2024.

7. Biological studies have not been prepared. The in-stream work areas will need to be surveyed to determine if either freshwater mussels or lamprey are present. If found to be present, they will need to be removed prior to construction.
8. Preparation of a SEPA checklist will be required.
9. All permit fees, including a Clark County Pre-Application meeting and SEPA Checklist fee, will be paid by the City.
10. The DOE and ACOE may require a wetland delineation.
11. The ACOE will authorize work under a Nationwide Permit.

### **Scope of Work**

The scope of work for this project includes the following:

- Project management, scope of work development, invoicing, and management of subconsultants.
- Meetings with the City to review plans and discuss project objectives.
- A pre-application conference with the County, including preparation of an application, responding to County requests for additional information, and attendance at a virtual pre-application conference meeting.
- A Pre-Filing Meeting with the DOE (required for DOE Water Quality Certification).
- Preparation of a SEPA checklist.
- Preparation of a JARPA permit application.
- Preparation of an ACOE Pre Construction Notification.
- A wetland delineation, if required by the DOE and/or ACOE.
- Coordination with regulatory agencies including the County, ACOE, DOE, and WDFW.
- A site topographic survey to supplement existing surveys, map the area of the eroded bank and existing streambed around the water intake, and tie into control points from the Jacobs topographic survey.
- Resolution of survey datum differences between the existing topographic surveys.
- Design of maintenance access road repairs and rock revetment to stabilize the bank.
- Development of plans, specifications and estimated construction cost.
- One site visit for final design review.
- An aquatic survey to determine if freshwater mussels or lamprey are present at the site.
- Fish and/or freshwater mussel salvage prior to construction if found to be present.
- Site visits during bidding (if needed) and construction.

### **Scope of Work Assumptions:**

1. Construction contract administration and construction inspection are not included.
2. A Cultural Resources Survey was prepared in 2016 for the Camas Pipeline Project and the Area of Potential Effects included this project site. An Archaeological Predetermination will not be required for this project.
3. City review of plans, specifications and estimate will occur at 90% and Final stages of project development.
4. Front end construction contract documents will be provided by the City.

5. Water intake structure maintenance will be limited to removal of gravel from behind the dam.
6. Evaluation of the dam is not included.
7. A maximum of 24 hours for regulatory agency coordination is included.
8. A maximum of 2 site visits during construction is included.
9. A maximum of 1 day of fish salvage is included.

**Deliverables:**

- Application material for a Clark County Pre-Application Conference, DOE Pre-Filing application, ACOE Pre Construction Notification, JARPA application and SEPA checklist.
- Updated site survey and ACAD base map.
- Plans, specifications and estimates at 90% and final stages of development (cost estimate at final only).
- Wetland delineation report (if needed).
- Memo summarizing results of the aquatic survey.

**Anticipated Schedule:**

- Notice to proceed: February 15, 2024
- 90% PS&E: March 31, 2024
- Final PS&E: April 30, 2024
- Project Bidding: May 2024
- Project Construction: August 2024



# SHELL

Engineering & Consulting LLC

**EXHIBIT 'B'**

**Fee Estimate**

City of Camas  
 Boulder Creek Water Intake Maintenance Improvements  
 Permitting, Design and Construction Phase Services  
 Jan-24

Task	Description	Shell				Subconsultants			Total Cost
		Hours	Labor Cost	Expenses		ELS	Rivero	KCD	
<b>1</b>	<b>PROJECT MANAGEMENT</b>								
	PM, Scope Development, Invoicing	12	\$ 2,220		\$ 2,220				\$2,220
	Client meetings	8	\$ 1,480		\$ 1,480				\$1,480
<b>2</b>	<b>PERMITTING</b>								
	Clark County Pre-App	8	\$ 1,480	\$ 55	\$ 1,535				\$1,535
	WQ Certification Pre-Filing Meeting	4	\$ 740		\$ 740				\$740
	JARPA Application	4	\$ 740		\$ 740				\$740
	SEPA checklist	8	\$ 1,480		\$ 1,480				\$1,480
	ACOE Pre Construction Notification	4	\$ 740		\$ 740				\$740
	Agency/Permit Coordination	28	\$ 5,180		\$ 5,180	\$2,750			\$7,930
	Wetland Delineation (if required)					\$10,450			\$10,450
	Aquatic Surveys					\$8,360			\$8,360
<b>3</b>	<b>SURVEY AND MAPPING</b>								
	Topographic Survey and Base Map							\$4,180	\$4,180
<b>4</b>	<b>ENGINEERING DESIGN</b>								
	Site visit	4	\$ 740	\$ 75	\$ 815				\$815
	Plans								
	Existing Conditions	2	\$ 370		\$ 370		\$1,650		\$2,020
	Site Improvements, Restoration, Erosion Control	20	\$ 3,700		\$ 3,700		\$3,300		\$7,000
	Details	16	\$ 2,960		\$ 2,960		\$3,300		\$6,260
	Small Works Contract Documents, Special Provisions	6	\$ 1,110		\$ 1,110				\$1,110
	Estimate	3	\$ 555		\$ 555				\$555
<b>5</b>	<b>BID PHASE SERVICES</b>								
	Bidder Questions, Pre-Bid Meeting, Addenda	8	\$ 1,480		\$ 1,480		\$330		\$1,810
<b>6</b>	<b>CONSTRUCTION PHASE</b>								
	Site Visits	12	\$ 2,220	\$ 150	\$ 2,370				\$2,370
	Fish Salvage					\$6,050			\$6,050
	As-Builts	4	\$ 740		\$ 740		\$660		\$1,400
	<b>TOTAL</b>	<b>151</b>	<b>\$ 27,935</b>	<b>\$ 280</b>	<b>\$ 28,215</b>	<b>\$27,610</b>	<b>\$8,580</b>	<b>\$4,180</b>	<b>\$69,245</b>

Houly rate \$185  
 Subconsultant costs include a 10% markup  
 Mileage will be billed at federal rate