

EVERETT CITY COUNCIL AGENDA ITEM COVER SHEET

**PROJECT TITLE:**

Amendment No. 1 to the Professional Services Agreement with HDR Engineering, Inc. to Provide Engineering and Construction Management Services for the Water Pollution Control Facility Diversion Structure Zero – Modifications Project

\_\_\_\_\_ Briefing  
 \_\_\_\_\_ Proposed Action  
 \_\_\_\_\_ Consent  
 \_\_\_\_\_ Action  
 \_\_\_\_\_ First Reading  
 \_\_\_\_\_ Second Reading  
 \_\_\_\_\_ Third Reading  
 \_\_\_\_\_ Public Hearing

COUNCIL BILL # \_\_\_\_\_  
 Originating Department Public Works  
 Contact Person Souheil Nasr  
 Phone Number (425) 257-7210  
 FOR AGENDA OF January 27, 2016

Initialed by:  
 Department Head \_\_\_\_\_  
 CAA db  
 Council President [Signature]

<u>Location</u>	<u>Preceding Action</u>	<u>Attachments</u>	<u>Department(s) Approval</u>
Water Pollution Control Facilities (on Smith Island)	Professional Services Agreement, September 2, 2015	Amendment No. 1	Public Works

Amount Budgeted	\$7,800,000	
Expenditure Required	\$821,038	Account Number(s): UP-3625
Budget Remaining	\$6,802,330	
Additional Required	-0-	

**DETAILED SUMMARY STATEMENT:**

This is the second phase of a two phase project for engineering design and construction services for the Water Pollution Control Facility on Smith Island. Phase 1 (pre-design) was authorized by Council on September 2, 2015. This Phase 2 (design and construction assistance) carries forward the preferred alternative from Phase 1 through construction. This project is listed in the Combined Sewer Overflow Agreed Order to be on line by December 31, 2017.

Previously authorized expenditures for the project include \$176,632 for pre-design services. Total expenditures requested to date, including this request for final design and construction assistance, are \$997,670.

**RECOMMENDATION (Exact action requested of Council):**

Authorize Mayor to sign Amendment No. 1 to the Professional Services Agreement with HDR Engineering, Inc. to Provide Engineering and Construction Management Services for the WPCF Diversion Structure Zero project in an amount not to exceed \$821,038.

AMENDMENT NO. 1

TO

AGREEMENT FOR ENGINEERING SERVICES

WPCF DIVERSION STRUCTURE ZERO MODIFICATIONS PROJECT

WHEREAS:

HDR Engineering, Inc. (HDR) entered into an Agreement on September 2, 2015 to perform engineering design and construction services for the WPCF Diversion Structure Zero Modifications Project for the City of Everett ("City");

The City desires to amend this Agreement by adding to the scope of services in order to perform the final engineering design and construction services and HDR is willing to amend the agreement.

NOW, THEREFORE, HDR and the City do hereby agree:

The Agreement and the terms and conditions therein shall remain unchanged other than those conditions and exhibits listed below;

Section 4: Modify Paragraph D, which describes the maximum total compensation, by increasing the total maximum compensation by \$821,038. Delete the existing sentence and replacing with the following sentence:

"Total compensation, including all services and expenses, shall not exceed a maximum of nine hundred ninety seven thousand six hundred seventy dollars (\$997,670)."

Amend the previous Exhibit A; Scope of Services, and Exhibit B; Project Hours, Expenses and Fee Estimate, by adding the following items:

Exhibit A1; Scope of Services, and  
Exhibit B1; Project hours, Expenses and Fee Estimate

IN WITNESS WHEREOF, the parties hereto have executed this Amendment as of the day and year written below:

*City of Everett, Washington*

*HDR Engineering, Inc.*

By: \_\_\_\_\_  
Ray Stephanson, Mayor

By: Karen Doherty  
Karen Doherty, Vice President

Date: \_\_\_\_\_

Date: 1/11/16

Attest: \_\_\_\_\_  
Sharon Marks, City Clerk

APPROVED AS TO FORM:  
\_\_\_\_\_  
James D. Iles, City Attorney

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**EXHIBIT A1**

**City of Everett**

**Water Pollution Control Facility (WPCF)**

**Diversion Structure Zero  
Final Design**

**Scope of Services**

**January 8, 2016**



**500 108th Avenue NE  
Suite 1200  
Bellevue, WA 98004-5549  
(425) 450-6200**



**500 108th Avenue NE  
Suite 1200  
Bellevue, WA 98004-5549  
(425) 450-6200**

# Table of Contents

<b>Background .....</b>	<b>1</b>
<b>Scope of Services .....</b>	<b>1</b>
<b>Task 100 – Project Management.....</b>	<b>1</b>
Objectives .....	1
HDR Services .....	2
Client Responsibilities .....	2
Assumptions .....	2
Deliverables .....	2
<b>Task 200 – Surveying .....</b>	<b>3</b>
Objectives .....	3
HDR Services .....	3
Surveyor Services.....	3
Client Responsibilities .....	3
Assumptions .....	4
Deliverables .....	4
<b>Task 300 – Geotechnical Investigations and Design Report .....</b>	<b>4</b>
Objective.....	4
HDR Services .....	4
Geotechnical Engineer Services .....	5
Client Responsibilities .....	5
Assumptions .....	5
Deliverables .....	5
<b>Task 400 – Permit Acquisition and Environmental Services.....</b>	<b>5</b>
Objectives .....	5
HDR Services .....	5
Client Responsibilities .....	5
Assumptions .....	6
Deliverables .....	6
<b>Task 500 – Final Design Services.....</b>	<b>6</b>
Objective.....	6
HDR Services .....	6
Client Responsibilities .....	7
Assumptions .....	7
Deliverables .....	8
<b>Task 600 – Bidding Assistance .....</b>	<b>8</b>
Objective.....	8
HDR Services .....	8
Client Responsibilities .....	8
Assumptions .....	8

---

Deliverables .....	9
<b>Task 700 – Assistance During Construction .....</b>	<b>9</b>
Objective.....	9
HDR Services .....	9
Client Responsibilities .....	9
Assumptions .....	9
Deliverables .....	9
<b>Task 800 – Additional Services .....</b>	<b>10</b>
Objective.....	10
HDR Services .....	10
Client Responsibilities.....	10
Assumptions .....	10
Deliverables .....	10
<b>Schedule .....</b>	<b>10</b>
<b>Fee .....</b>	<b>10</b>
<b>Attachment A.....</b>	<b>12</b>
<b>Survey Boundary.....</b>	<b>12</b>

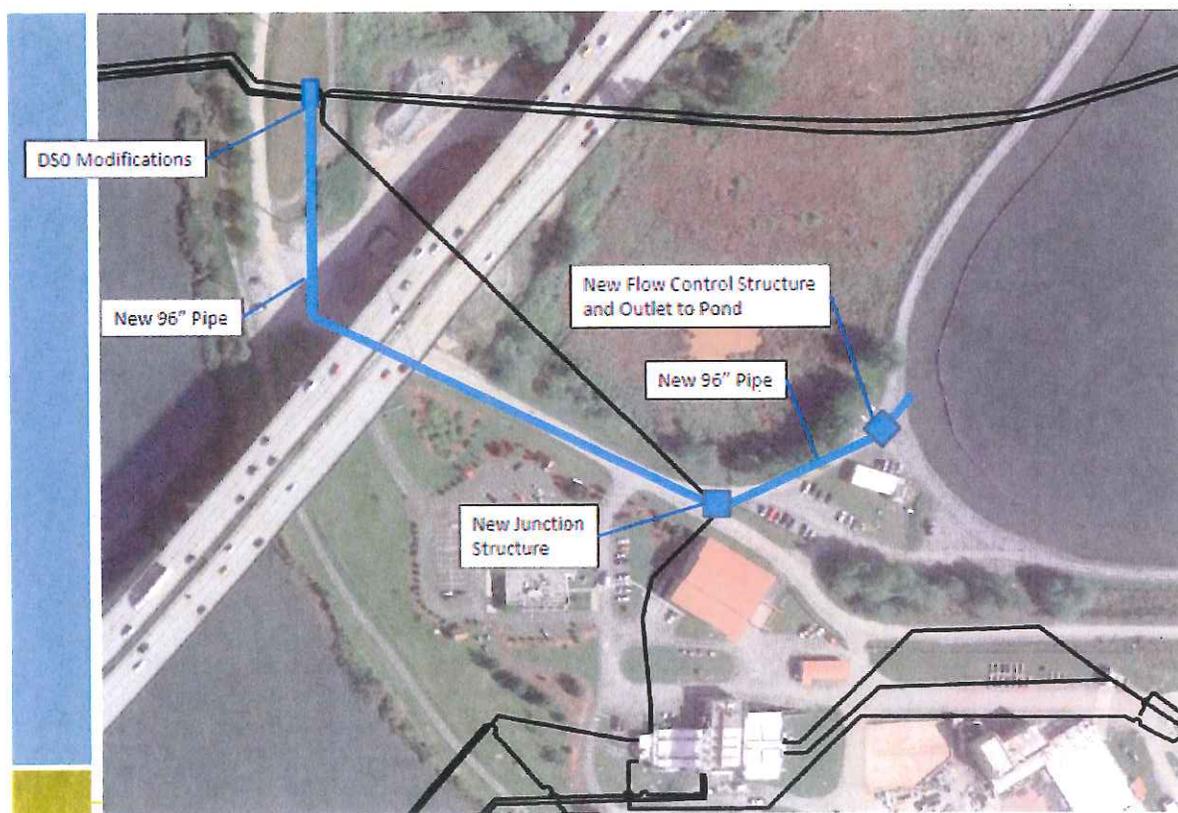
# EXHIBIT A

## SCOPE OF SERVICES

### Background

The City of Everett, Washington (City) has selected HDR to provide engineering analysis, design, and permitting assistance for modifying Diversion Structure Zero (DS0) at the Water Pollution Control Facility (WPCF).

HDR completed the Predesign Report for the DS0 Improvements in December 2015. This report identified approximately 1,200 feet of new 96-inch diameter gravity combined sewer main from the existing Diversion Structure to the Oxidation Pond. This improvement also includes three new structures: DS0 Modifications, Junction Structure, and Flow Control Structure. An outlet connection to the Oxidation Pond is also included.



### Scope of Services

#### Task 100 – Project Management

##### Objectives

Monitor, control, and adjust scope, schedule, and budget as well as provide monthly status reporting, accounting, and invoicing.

---

## **HDR Services**

1. Create the Project Management Plan (Project Guide) outlining the project scope, team organization, schedule, and communications information.
2. Coordinate and manage the project team.
3. Subcontract with and manage project subconsultants.
4. Prepare monthly status reports describing the following:
  - a) Services completed during the month
  - b) Services planned for the next month
  - c) Needs for additional information
  - d) Scope/schedule/budget issues
  - e) Schedule update and financial status summary
  - f) Provide an estimated cash flow (billing) forecast
5. Prepare monthly invoices formatted in accordance with contract terms.
6. Project Manager will attend monthly project management meetings with the client Project Manager to review project scope, schedule, and budget issues.

## **Client Responsibilities**

1. Attend project management meetings.
2. Timely processing and payment of invoices.
3. Review and process contract change requests and amendments, if needed.

## **Assumptions**

1. The design phase of this project duration will be 8 months.
2. One project management meeting will be held via phone per month (total of 8) with 1 hour of project manager time will be required for each meeting preparation, attendance, follow-up, and notes.
3. Invoices will be HDR standard invoice format.
4. Expense backup will be provided with monthly invoices.

## **Deliverables**

1. Scope of services, schedule (Gantt chart in MS Project), and budget (e-mailed PDF file).
2. Project Management Plan (Project Guide) (e-mailed PDF file).
3. Subconsultant subcontracts (PDF file).
4. Monthly reports and invoices (one copy with invoice, e-mailed PDF file)
5. Monthly project schedule and budget updates (included in monthly project report, emailed PDF file).
6. Project management meeting agenda and notes (e-mailed PDF files).

## Task 200 – Surveying

### Objectives

This project will provide surveying and base mapping services for an area at the City of Everett's Water Pollution Control Facility in the vicinity of DS0 and the path of a proposed pipe from this structure to the oxidation pond. We will utilize previously established horizontal and vertical control adjacent to the site for this work. The vertical datum will be NAVD 88 and based on existing benchmarks.

### HDR Services

1. Manage subconsultant
2. Provide information to subconsultant as requested.
3. Conduct site visit and photographically document existing site conditions.
4. Review survey.

### Surveyor Services

1. Perteet, Inc. will provide surveying services.
2. Project management.
  - a) Develop work plan, scheduling and crew coordination.
  - b) Prepare monthly invoices listing tasks accomplished, percentages of work complete, and remaining work.
3. Recover project control and set additional control as needed to perform work.
4. Topographic survey at a level of detail needed for a one foot contour interval basemap: existing ground, roads, bridge columns, buildings, landscape features, utilities both above and below ground, and other significant natural and manmade features.
5. Topographic survey of a small part of the southwesterly corner of the oxidation pond, recirculation channel, and concrete wall dividing them. Include notches in the concrete wall. See Attachment A.
6. Topographic survey of the top of existing 54" pipe in the vicinity of the right angle structure, to be done at the time of potholing.
7. Develop an AutoCAD base map and digital terrain model at an agreed upon horizontal scale, using current City of Everett drafting and layering standards

### Client Responsibilities

1. Provide surveyor access to the project area and structures within the existing conveyance system.
2. Provide a boat and operator for work within the oxidation pond and recirculation channel. Perteet will coordinate with personnel at the WPCF for this task. A one week notice will be required for this work.

## Assumptions

1. Elevations will be referenced to the NAVD88 vertical datum using elevations of benchmarks in the vicinity of the WPCF. Horizontal coordinates will be referenced to the NAD83(1991) Washington North Zone State Plane coordinate system
2. Pertect will not enter any confined structures in order to determine invert elevations. Measurements will be undertaken from the surface, to the extent such measurements can be made
3. Applied Professional Services, Inc. will be used for marking underground utilities within the project limits, to the extent that they can be located by their equipment; some non-conductible underground lines cannot be located and thus cannot be surveyed. Subsurface Utility Engineering evaluation will be Quality B Level defined as the application of appropriate surface geophysical methods to determine the existence and horizontal position of the utilities within the project limits. This activity is called "designating". The information obtained in this manner is surveyed to project control. It addresses problems caused by inaccurate utility records, abandoned or unrecorded facilities, and lost references.
4. Applied Professional Services, Inc. will be used to pothole in approximately six places on the top of the existing 54" pipe. Four of the potholes will be in the immediate vicinity of the 54" pipe right angle structure, located next to the gate to the Industrial Pretreatment area of the WPCF. Two other pothole locations will be determined at a later date, depending on the needs of HDR. Any additional potholes beyond these extents may be considered an Additional Service.
5. One additional day of fieldwork and associated drafting time is included in this Scope for other survey needs that may arise during the course of design by HDR
6. The boundary of the survey is indicated in the figure in Attachment A. The approximate area to be surveyed is 3 acres.

## Deliverables

1. AutoCAD version 2014 basemap drawing.
2. Digital Terrain Model file

## Task 300 – Geotechnical Investigations and Design Report

### Objective

Conduct geotechnical investigations and provide design recommendations for the design of DS0, pipelines and structures.

### HDR Services

1. Manage subconsultant
2. Provide information to subconsultant as requested.
3. Review geotechnical design report and assist the structural design team in applying the recommendations of the report during final design.

## **Geotechnical Engineer Services**

1. HWA GeoSciences, Inc. will provide geotechnical services.
2. Drill 4 borings along the proposed alignment to characterize the geotechnical conditions along the project alignment.
3. Conduct analysis to develop recommendations for the design of the pipeline and structures.
4. Provide recommended minimum distance to bridge piers for trench section.
5. Prepare a geotechnical design report summarizing the conditions encountered and the final design recommendations including dewatering recommendations and buoyancy control.

## **Client Responsibilities**

1. Provide the geotechnical engineer access to the site to conduct boring and evaluate the site conditions.
2. Client to approve geotechnical bore locations.

## **Assumptions**

1. 3 borings will be to a depth of 40 feet and one boring to a depth of 80 feet.
2. Geotechnical engineer will provide recommended bore locations with input on the alignment and structure locations provided by HDR.
3. Geotechnical borings.

## **Deliverables**

1. Draft and final geotechnical report in electronic (PDF) format.
2. Five paper copies of the final report.

## **Task 400 – Permit Acquisition and Environmental Services**

### **Objectives**

City staff indicated the City would prepare the permit applications for DS0 with support from HDR. Based on the selected alignment in the Predesign Phase, it was determined that wetlands would not be impacted. Consequently, no wetland delineation will be prepared.

### **HDR Services**

1. Provide assistance on an as needed basis. HDR will not perform these services unless authorized in writing by the Client.

### **Client Responsibilities**

1. Responsible for all permitting acquisition and environmental services necessary to construct the project.
2. Notify HDR of any design modifications required to acquire the necessary permits to construct the project. Design modifications may be considered Additional Services.

3. Provide written authorization of scope, anticipated deliverables, and schedule for any permitting acquisition and/or environmental services requested to be performed by HDR

### **Assumptions**

1. An allowance has been established for these services as requested. HDR will not perform these services unless authorized in writing by the Client.

### **Deliverables**

1. Deliverables will be defined upon written authorization by the Client.

## **Task 500 – Final Design Services**

### **Objective**

Provide final design of the Diversion Structure 0 improvements including engineering drawings, opinion of probable cost, and specifications.

### **HDR Services**

1. Perform a hydraulic system analysis to evaluate flow management scenarios. This analysis will include the following.
  - a) Evaluate and recommend pipe materials and size to be included in the design and specifications.
  - b) Evaluate the discharge of flows from Diversion Structure 0 into the recirculation channel and determine the impact on the recirculation wall and the pond hydraulics.
  - c) Evaluate the hydraulics of the proposed design using excel spreadsheet calculations and coordinate with operations staff proposed standard operating procedures for base and wet weather flow conditions.
2. Develop project criteria and constraints to limit the impact of the pipeline and structure construction on the plant operations.
3. Prepare a Final Design Report summarizing final design features and criteria.
4. Develop 50% review, 90% review, and Final Construction Drawings, opinion of probable cost, and specifications which will include the following design elements.
  - a) Provide engineering design for approximately 1,200 feet of 96-inch gravity sanitary sewer main as identified in the Diversion Structure 0 Predesign Report.
  - b) Provide structural design for the Diversion Structure 0 Modifications, Junction Structure, Flow Control Structure and the Discharge Headwall at the Outlet Pond.
  - c) Provide electrical design for motor actuated gates.
  - d) Provide instrumentation and control design for system monitoring and control.
  - e) Assess construction risk and develop contractor qualification requirements at 50% design phase. Validate construction risk assessment and adjust qualification requirements at 90% design phase.
  - f) Evaluate the City and State requirements for establishing qualified and responsible contractors and determine if pre-qualification of bidders should be considered in accordance section 1-02.1 of the WSDOT Standard Specifications.

5. Coordination efforts with City staff or others
  - a) Coordinate with treatment plant and City engineering staff to develop a final pipeline alignment to minimize impact on treatment plant operations.
  - b) Attend 4 design review meetings with City engineering staff prior to the 50% review submittal.
6. Conduct constructability review workshop
  - a) Identify site constraints and construction sequencing
  - b) Develop traffic control and detour plan during construction.
  - c) Identify construction limits to avoid impacting sensitive site features including the bridge piers, wetlands, existing structures, and public access to adjacent parks.

### **Client Responsibilities**

1. Client will review and provide comments at the 50% submittal review meeting.
2. Client will review and provide comments at the 90% submittal review meeting.
3. Provide information on the plant SCADA system and the requested method of integrating the new system features into the existing system.

### **Assumptions**

1. Develop specifications using City standard WSDOT/APWA based specification format. Technical specifications for items not adequately addressed by these specifications will be developed in Construction Specification Institute (CSI) format and attached by appendix to the contract specifications.
2. HDR to provide 50% plans, opinion of probable cost (AACEi Class 1), and specifications.
3. HDR to provide 50% design plans. The 50% design plans will include plan and profile drawings of the pipeline, pipeline design details, plan and sections of each of the structures and preliminary structural details.
4. HDR to provide 90% plans, opinion of probable cost (AACEi Class 1), and specifications.
5. HDR to provide construction plans and specifications to be issued for bid which will be signed and sealed by a professional engineer registered in the state of Washington.
6. Anticipated Design Drawings include:
  - Cover Sheet with Vicinity Map and Project Approvals
  - Drawing Index and Sheet Layout Map
  - Legend and Abbreviations
  - Survey Control Plan
  - Hydraulic Profile and Design Criteria
  - Temporary Erosion and Sedimentation Control Plan
  - 4 Plan and Profile Drawings, 1 inch = 20 feet horizontal scale
  - 2 Civil design detail sheets
  - 30 Structural design drawings including structural notes, standard details, plans and sections of structures, and structure specific details.
  - Electrical site plan
  - 3 Electrical design detail drawings

- Up to 4 additional design drawings.
7. Total anticipated design drawings: Up to 50.
  8. Constructability review workshop will be 4 hours. A representative from WSDOT will participate in a constructability review meeting.

### **Deliverables**

1. Final design report
2. 50% design review submittal in PDF format. City to print as needed.
3. 90% design review submittal in PDF format. City to print as needed.
4. 100% final design drawings and contract specifications. (15 half size plan sets, 2 full size plan sets, 2 sets of specifications, and PDFs)

## **Task 600 – Bidding Assistance**

### **Objective**

Assist the City when the project is issued for bid.

### **HDR Services**

1. Assist City with early contractor outreach prior to bid opening and pre-qualification requirements.
2. Assist City with the preparation of the bid package.
3. Attend a pre-bid conference.
4. Respond to bidder questions as requested by Client
5. Prepare addendums to address issues identified during the bidding process. Reissue design drawings if necessary.
6. Evaluate bids for accuracy and contractors qualifications and provide a letter of recommendation of award of contract.
7. Incorporate addendum items into a conformed set construction drawings and specifications to be issued to the contractor for contract execution and for construction purposes.

### **Client Responsibilities**

1. City will be the primary contact for the contractors during the bidding process.
2. City will conduct bid hosting and advertising.
3. City will submit bidder questions to HDR.
4. City will send out responses to contractors.

### **Assumptions**

1. The bidding period will be four weeks.
2. Three addendums have been assumed for budgetary purposes.

---

**Deliverables**

1. Up to three (3) Addendums (PDF).
2. Bid Tabulation (PDF)
3. Letter of Recommendation of Award (PDF)
4. Conformed Construction Drawings and Specifications (5 half size sets, 2 full size sets, and PDF)
5. 4 sets of Contract Documents for contract execution with contractor.

**Task 700 – Assistance During Construction****Objective**

Provide assistance during construction.

**HDR Services**

1. Attend preconstruction meeting.
2. Review project submittals.
3. Provide necessary interpretations and clarifications of contract documents and respond to requests for information (RFIs).
4. Attend up to 20 construction meetings.
5. Visit the project during construction to observe the work for conformity with the design documents and design intent.

**Client Responsibilities**

1. Manage the construction project including inspections, reviewing pay applications, etc.

**Assumptions**

1. Construction is anticipated to last 9 months.
2. 25 submittals will be reviewed including resubmittals (6 hours each).
3. 20 RFIs will be addressed (4 hours per each).
4. 5 change orders will be addressed (8 hours each).
5. 20 field visits during construction coinciding with scheduled construction meetings (6 hours each including travel time).

**Deliverables**

1. Provide electronic responses by email to submittal reviews and RFIs.
2. Field notes of observations during site visits.

## Task 800 – Additional Services

### Objective

1. Provide additional as-yet-defined services as requested by the City.

### HDR Services

1. It is difficult to accurately anticipate all the issues that may arise during the development of the project. This task establishes a contingency fund for unidentified and unanticipated work.
2. This task is specifically designed to allow payment to HDR under this contract for changes in the scope of work which the City determines to be necessary. The funds included in this task cannot be utilized without written approval from the City.

### Client Responsibilities

1. When identified, authorize additional services in via email and/or in writing.

### Assumptions

1. Approximately ten percent of the budget is established for additional services.

### Deliverables

1. To be determined.

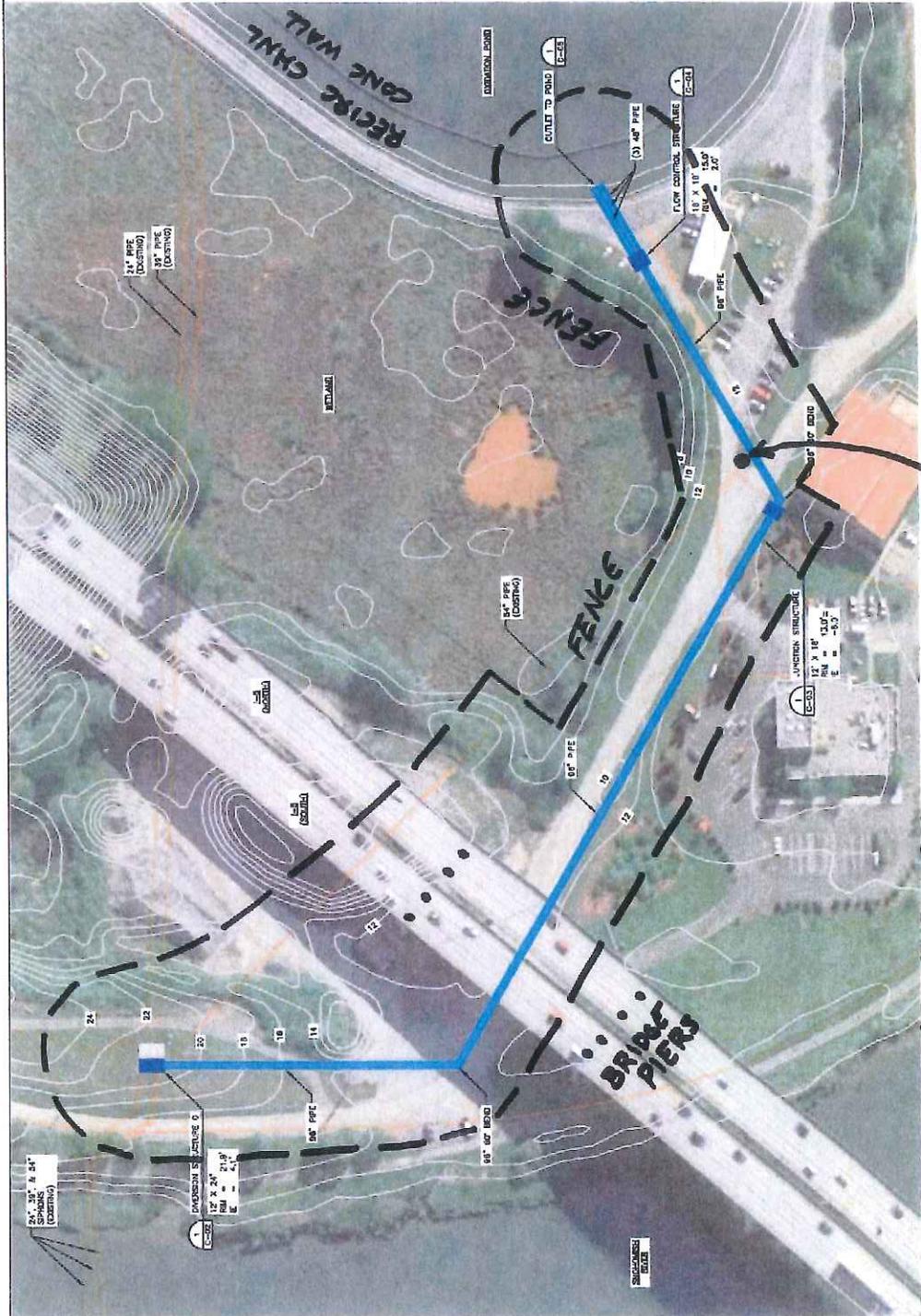
### Schedule

- |                              |                   |
|------------------------------|-------------------|
| 1. Project Notice to Proceed | February 1, 2016  |
| 2. Design Report             | March 18, 2016    |
| 3. 50% Design Submittal      | April 29, 2016    |
| 4. 50% Design Review Meeting | May 13, 2016      |
| 5. 90% Design Submittal      | July 22, 2016     |
| 6. 90% Design Review Meeting | August 3, 2016    |
| 7. 100% Design Submittal     | September 9, 2016 |

### Fee

1. See the attached.

**Attachment A**  
**Survey Boundary**



**TOPOGRAPHIC SURVEY AREA**

**LEGEND**

- EXISTING CONTOURS
- EXISTING STREET LINES

**PLAN**

Scale: 1" = 50' (SCALE IN FEET)

DATE: November 2015  
 FIGURE: G-02

City of Everett Public Works Department  
 Everett Diversion Structure  
 Site Plan

**HDR**

**54" RIGHT ANGLE STRUCTURE - 2 POTHOLES EACH SIDE**

CITY OF EVERETT - EXHIBIT B1										Date:	11-Jan-15
DIVERSION STRUCTURE ZERO - FINAL DESIGN (PROJECT HOURS, EXPENSES AND FEE ESTIMATE)											
Labor Category	Direct Salary Hourly Rates, (\$4.00)	HOURS FOR EACH TASK (Whole Hours Only)								Total Hours	Cost
		Task 1 Project Mgmt	Task 2 Surveying	Task 3 Geotech	Task 4 Permit	Task 5 Final Design	Task 6 Bidding Assist	Task 7 Construct Assist	Task 8 Additional Services		
1 Project Principal - Hadler, Edith	\$ 101.21	8				0				8	\$ 810
2 Project Manager - Bergstrom, Eric	\$ 89.59	150	2	2	2	40	4	16		216	\$ 19,351
3 Water/Wastewater Engineer - Habermeyer, E	\$ 41.87		24	8	8	320	120	250		710	\$ 29,725
4 Staff Engineer - Mendez, Beth	\$ 33.01					80				80	\$ 2,661
5 Water/Wastewater Engineer - Applegate, D	\$ 69.75		12	16		240	40	60		368	\$ 25,304
6 Sr. Structural Eng - Hixson, Mark	\$ 71.65			24		360	12	16		412	\$ 29,520
7 Structural Eng - Prindle, Doug	\$ 43.05			8		960	24			992	\$ 27,244
8 Sr. Permitting - Lindner, Bonnie	\$ 61.31				16					16	\$ 983
9 Enviro Scientist - Danfield, Lisa	\$ 42.11				40					40	\$ 1,685
10 Senior CAD - Carpenter, John	\$ 41.58					360	80			440	\$ 17,049
11 CAD - Jones, Hilton	\$ 38.30					420				420	\$ 10,629
12 Electrical Engineer - Kimmeyer, Lance	\$ 61.22					80				80	\$ 4,088
13 Elect Engineer - Bolmond, Bob	\$ 69.43					40				40	\$ 2,777
14 Bridge Engineer - Lism, Joyce	\$ 71.47					40				40	\$ 2,869
15 I & C - Barry, Peter	\$ 40.81					120				120	\$ 4,897
16 Project Assistant - Blak, Dominic	\$ 26.88	40	8			240	80	80		408	\$ 10,957
17 Project Controller - Springer, Amy	\$ 35.01	60	4							64	\$ 2,241
18 I&C Electrical - Ken McGowan	\$ 71.75					8				8	\$ 574
19 I&C Constructability - Hald, Tom	\$ 115.39					54				54	\$ 7,395
20 I&C Enviro - Witter, Mike	\$ 67.19				2					2	\$ 134
21 I&C - Spencer, Jerry	\$ 75.95					32				32	\$ 2,463
22 I&C - McPherson	\$ 80.62					32				32	\$ 2,580
23 I&C - Pfaltzmaier, John	\$ 110.85					30				30	\$ 3,367
<b>Total Task Hours</b>		258	50	58	68	3066	320	400	0	4,222	
Subtotal Direct Salary Cost (DSC), \$		17,424	2,364	3,679	3,322	147,596	14,133	15,785	0		\$ 207,662
Overhead on DSC (indirect cost) @ 5.18%	185.000%	32,234	4,373	6,804	6,146	273,715	26,145	34,752	0		\$ 384,774
<b>Total Labor Cost, \$</b>		49,658	6,737	10,482	9,468	421,311	40,279	50,537	0		\$ 691,898
<b>Expenses, \$</b>											<b>Expenses</b>
1 \$1 Miscellaneous											\$ -
2 \$2 Travel (Message)								1,000			\$ 1,000
3 \$2 Outside Travel (air, hotel, car, per diem)											\$ -
4 \$5 Internal Copying											\$ -
5 Expense, Admin (Outside \$ only at 5%)			0								\$ -
6 Expense											\$ -
7 Additional Service Allowance									80,000		\$ 80,000
8 Per Labor Hr. Tech. Charge \$ 3.70		555	185	215	252	11,344	1,164	1,467	0		\$ 15,622
<b>Total Expenses, \$</b>		555	185	215	252	11,344	1,164	2,467	80,000		\$ 89,899
<b>TOTAL LABOR AND EXPENSES</b>		50,213	6,922	10,697	9,720	432,655	41,443	53,004	80,000		\$ 681,468
<b>Subcontractor Expenses, \$</b>											<b>Sub Expenses</b>
1 Permit			23,000								\$23,000
2 HMA				46,900							\$46,900
3 Subcontractor											\$0
4 Subcontractor											\$0
<b>TOTAL SUBCONSULTANTS</b>		0	23,000	46,900	0	0	0	0	0		\$69,900
Subcontractor Admin Mark-up, %	5.00%	0	1,150	2,345	0	0	0	0	0		\$3,495
<b>Subtotal Cost by Task</b>		50,213	31,072	59,345	9,720	432,655	41,443	53,004	80,000		\$ 691,868
Fee/Profit (as % of Total DSC & Overhead)	10.00%	4,565	574	1,048	947	42,168	4,028	5,354	0		\$ 59,165
<b>TOTAL ESTIMATED COST AND FEE, \$</b>		54,778	31,746	60,393	10,667	474,823	45,471	58,358	80,000		\$ 751,033
<b>Overall Project Multiplier</b>											1.14
<b>Fee/Profit as a % of DSC Only</b>											23.99%