SNOQUALMIE VALLEY WATERSHED IMPROVEMENT DISTRICT

SMALL PUBLIC WORKS PROJECT DOCUMENTS FOR
Duvall Drainage Maintenance 2020

OWNER
Snoqualmie Valley Watershed Improvement District
P.O. Box 1148
Carnation, WA 98014

BOARD OF COMMISSIONERS
INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 NOTICE

A. Notice is hereby given that Snoqualmie Valley Watershed Improvement District ("District" or "Owner") will receive bids for the Duvall Drainage Maintenance 2020 ("Project").

B. The Project generally consists of but is not limited to: Two Sites that consist of dredging a combined total of 5,860 linear feet of agricultural drainage way.

Description of Work

The project consists of, but is not limited to providing all materials, labor, and equipment, except as specifically identified in Exhibit A “Summary of Work” and Exhibit B “Technical Specifications”:

A. All bidding contractors are highly advised to attend the pre-bid meeting to discuss this project in detail with the King County ADAP engineer and project manager.

B. All defishing, water quality monitoring for fish safety, and planting along ditches will be the responsibility of King County ADAP.

C. A one-hour pre-construction meeting is required prior to mobilization of any heavy equipment.

D. It is the contractor’s responsibility to monitor excavation elevations and ensure that maintenance dredging does not exceed historical-channel extents.

E. Native vegetation should be protected to the extent practicable.

F. It is the contractor’s responsibility to provide erosion control measures as necessary.

G. It is the contractor’s responsibility to reseed disturbed areas where heavy equipment has damaged pastures or any farmland in accessing ditches.

H. Spoils will be spread by landowners.

I. No utilities have been located on site. It is the contractor’s responsibility of the to locate any and all utilities prior to starting work.

J. All work shall be performed in accordance King County’s agreement for best-management practices for maintenance of agricultural waterways (BMPs), the Washington Department of Fish and Wildlife (WDFW) Hydraulic Project Approval (HPA), and the King Conservation District Farm Plan. BMPs can be found here: https://www.kingcounty.gov/services/environment/water-and-land/stormwater/agricultural-drainage-assistance/waterway-maintenance-bmp-manual.aspx

K. In-Channel work will occur within the time frame allowed by the HPA with an end date by September 30, 2020 (State HPA permitting may dictate an earlier date).
Site 1: Agricultural ditches identified as ‘Channels 1-5’ in the attached site plans for ‘DeVries Ag Waterway Maintenance’ at 19309 W. Snoqualmie Valley Rd NE Duvall, WA 98019 as determined below:

- Total dredged volume of spoils is expected to be about 1,000 cubic yards

A. Task 1: Dredge approximately 748 linear feet of a moderate-modified ag ditch identified as ‘Channel 1’ in attached site plans.
   a. A moderate-modified ag ditch is defined by King County ADAP as an agricultural ditch that has been dredged previously and may contain a moderate amount of aquatic animal species species. Fish presence is expected to be low based on previous fish presence studies and poor environmental conditions for fish to thrive in Channel 1. See plans for detailed technical notes.

B. Task 2: Dredge approximately 2,425 linear feet of a low-modified ag ditch identified as ‘Channel 2 & 5’ in attached site plans.
   a. A low-modified ag ditch is defined by King County ADAP as an agricultural ditch that has been dredged previously and may contain a low amount of aquatic animal species. However, this ditch has been historically dry by early summer and is expected to be dry again by July 2020. Defishing is expected to be minimal effort in channels 2 & 5.

C. Task 3: Dredge approximately 2,187 linear feet of an artificial ag ditch identified as ‘Channel 3 & 4’ in attached site plans.
   a. An artificial ditch is defined by King County ADAP as an ag ditch that is man-made and does not contain aquatic animal species. These ditches will be dry and there will be no defishing required.

D. Task 4: Remove and replace two culverts at 3+66 and 5+61 in Channel 5 per attached site plans.
   a. Two new 30’ long culverts to be installed are corrugated metal arched pipe with dimensions of 142"x91" at 15’ long per piece.
   b. All materials, including lifting lugs, will be delivered to site prior to construction. Four pieces of 15’ long pipe will be delivered to site. Contractor will need equipment to place culverts.
   c. Installation plans will follow engineer plans to place culverts at historical channel bottom. See technical specifications for placement of culverts.
   d. Install headwall slope protection rock. Place light loose rip rap to a distance of 1 culvert diameter along the sides and top of the culvert inlet and outlet.

Site 2: Agricultural ditches identified in the attached ‘Erickson-Brown & Thao Ag Waterway Maintenance Plan’ at 11707 262nd Ave NE Duvall, WA. For 2020, maintenance will occur on ‘Pickering’ parcel #2526069008 from points 12+00 to 18+00. This is approximately 500 linear feet.

- Total dredged volume of spoils is expected to be about 300 cubic yards

A. Task 5: Dredge approximately 500 linear feet from a high-modified ag ditch.
   a. A high-modified ag ditch is defined by King County ADAP as an agricultural ditch that has been dredged previously and may contain a high amount of aquatic animal species. However, fish presence is expected to be low based on the drainage maintenance project completed in 2019 in the southern part of this same ditch.
1.02 **PRE-BID SITE MEETING**
There will be one pre-bid site meeting at this site. This is scheduled for June 17th at 12pm as stated in Exhibit A, Summary of Work.

1.03 **BID SUBMITTAL DEADLINE**
A. Bid Submittal Deadline is: June 25th, 2020 at 5pm
B. The bids will be received at the offices of Snoqualmie Valley Watershed Improvement District, P.O. Box 1148 Carnation, WA 98014. The Original Bid Documents shall be delivered to the District’s office by the Bid Submittal Deadline in one of the following methods:
   a. An electronic copy of the bid documents, saved in the PDF file format, can be emailed to liz@svwid.com.
   b. A copy of the bid documents can be delivered by courier or US Mail; attention of Liz Stockton c/o SVWID PO Box 1148 Carnation, WA 98014.
C. If a copy of the Bid Documents has been submitted by fax or email, the apparent low Bidder shall submit the original bid documents within two (2) days of the Bid Submittal Deadline.
D. Bids will be made available for public review one (1) hour after the Bid Submittal Deadline.
E. It is solely the responsibility of the Bidder to see that their Bid is received in proper time. Any Proposal received after the scheduled deadline for receipt of Bids regardless of cause will be returned to the Bidder.
F. The District reserves the right to waive minor irregularities in the Bid or delivery of the Bid.

1.04 **BID SUBMITTAL REQUIREMENTS**
A. As part of the formal bid, the Bidder shall complete and submit the following:
   1) Small Public Works Bid Proposal
   2) Mandatory Bidder Responsibility Checklist
   3) List of Completed Projects
   4) Supplemental Bidder Certification
B. All proposals shall contain the following information:
   1) Proper name of the Bidder
   2) Bidder’s License Number
   3) Bidder’s UBI Number.
   4) Bidder’s Business licenses for the City in which the work will be completed (if applicable).
   5) Bidder’s address, phone number, and fax number to which all communication regarding the Bid is to be directed.
   6) All names must be typed or printed below the signature.

1.05 **PROJECT DOCUMENTS**
A. The Project Documents consist of the following:
   1) Instructions to Bidders
   2) Small Public Works Bid Proposal
   3) Mandatory Bidder Responsibility Checklist
4) Supplemental Bidder Certifications
5) Mandatory Subcontractor Responsibility Checklist
6) Small Public Works Contract
   a. Exhibit A – Summary of Work
   b. Exhibit B – Technical Specifications
7) 2012 Standard Specifications for Road, Bridge and Municipal Construction
8) Special Provisions and District Standard Details
9) General Engineering Specifications
10) Other Plans and Specifications (as referenced)

1.06 **PERTINENT TIME CONSTRAINTS**
Time constraints are stated in Exhibit A, Summary of Work, and in the Small Public Works Contract.

1.07 **SUBCONTRACTOR LISTING**
Each Bidder shall provide a list of all Subcontractors proposed to perform or render service for a portion of the Work, including (1) the Subcontractor’s name and business address, and (2) the portion of the Work to be performed by each proposed Subcontractor. Only one Subcontractor shall be listed for each portion of the Work so defined by the Bidder. The proposed Subcontractors must be licensed according to the state and jurisdiction where the work is located. The apparent low bidder shall complete and submit the Mandatory Subcontractor Responsibility Checklist within two business days of the Bid Submittal Deadline.

1.08 **AWARD**
If award is made, the Owner will award the Small Public Works Contract at the prices named in the Bid to the lowest responsive, responsible Bidder complying with Instructions to Bidders. The Owner reserves the right to reject any or all Bids, and to waive any irregularities or informalities of any Bid. The competency and responsibility of Bidders as evidenced by the information accompanying the Proposals, which will be subject to verification, will be considered in making the award.
An award, if award is made, will be made within the time stated in the Exhibit A, Summary of Work, of the Small Public Works Contract and no Bidder may withdraw their Bid within such time period.

**PART 2 – BIDDER RESPONSIBILITY CRITERIA**

2.01 **MANDATORY BIDDER RESPONSIBILITY CRITERIA**
A. It is the intent of Owner to award a contract to the lowest responsible bidder. Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder shall be required by the Owner to submit documentation demonstrating compliance with the criteria. The Owner reserves the right to request such documentation from other bidders. The bidder must:
   1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
   2. Have a current Washington Unified Business Identifier (UBI) number;
   3. If applicable:
      a. Have Industrial Insurance (workers' compensation) coverage for the bidder’s employees working in Washington, as required in Title 51 RCW;
b. Have a Washington Employment Security Department number, as required in Title 50 RCW;
c. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;

4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).

2.02

A. The Bidder shall complete the Mandatory Bidder Responsibility Checklist in the Project Documents and submit it to the Owner at the time of Bid.

2.03 COMPLETION OF SIMILAR PROJECTS

A. The Bidder shall have successfully completed projects of a similar size and scope as required by the contract documents for this project. In evaluating whether the projects were “successfully completed,” the Owner may check owner references for the previous projects and may evaluate the owner’s assessment of the Bidder performance.

B. The Bidder shall submit a list of project of similar size and scope to this project completed within the last five (5) years. For the purposes of meeting this criterion, the Owner has determined that “similar size and scope to this project” means project that have the following characteristics:

1. Dredging or grading work.

C. Provide, at a minimum, the following information:

1. Project Name
2. Owner’s name and contact information for the owner’s representative
3. Date of Award
4. Awarded contract amount
2.04 SUPPLEMENTAL BIDDER RESPONSIBILITY CRITERIA

A. In addition to the mandatory bidder responsibility criteria, and Completion of Similar Projects, referenced above, the Bidder must also meet the following relevant supplemental bidder responsibility criteria applicable to the Project. When requested, the Bidder shall provide the Owner with documentation as evidence that they meet the supplemental bidder responsibility criteria, and such documentation must be submitted to the Owner within two business days after its request. The Owner reserves the right to request such documentation from other bidders.

B. The Bidder shall complete the Supplemental Bidder Certifications in the Project Documents and submit it to the Owner at the time of Bid.

C. Business Status
The Bidder shall not be "inactive" or "not in good standing" with the Washington State Secretary of State's Office, the Department of Revenue or the Department of Labor & Industries.

D. Subcontractor Responsibility Bidder's standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure to validate the responsibility of each of its subcontractors. The Bidder’s subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also "responsible" subcontractors as defined by RCW 39.06.020.

E. Claims Against Retainage and Bonds
The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects during the previous five years that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances acceptable to the Owner.

F. Termination for Cause
The Bidder shall not have had any public works contract terminated for cause by a government agency during the five-year period immediately preceding the bid submittal deadline for this project, unless there are extenuating circumstances acceptable to the Owner.

G. Liquidated Damages
The Bidder shall not have been assessed liquidated damages related to the performance of a public works contract by a government agency during the five year period immediately preceding the bid submittal deadline for this project, unless there are extenuating circumstances acceptable to the Owner.

H. Litigation
The Bidder shall not have been a party as a plaintiff or defendant in any lawsuits in Washington State superior or district court in the Puget Sound region (defined as King, Kitsap, Pierce, Snohomish and Thurston Counties) or federal district court for Western Washington in the last five years involving performance or payment issues relating to a public works contract which were resolved adversely to the Bidder through judgment or settlement, unless there are extenuating circumstances acceptable to the Owner.

I. Delinquent State Taxes
The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plan approved by the Department of Revenue.
J. Federal Debarment
   The Bidder shall not currently be debarred or suspended by the Federal government.

K. Public Bidding Crimes
   The Bidder shall not have been convicted of a crime involving bidding on a public works contract within five years from the bid submittal deadline.

2.05 PROCEDURE TO REQUEST MODIFICATION OF SUPPLEMENTAL BIDDER RESPONSIBILITY CRITERIA
   A. During the bidding period, but not later than five (5) business days before the bid submittal deadline, a potential bidder may request that the Owner modify the supplemental bidder responsibility criteria. The Owner shall evaluate any such requests, and if a decision is made by the Owner in its sole discretion to modify the criteria, such modification shall be communicated to all bidders and plan holders via the issuance of an addendum to the bidding documents. If the Owner determines not to modify the supplemental criteria, the Owner shall notify the requesting bidder of its decision in writing.

2.06 APPEAL OF DETERMINATION THAT BIDDER DOES NOT MEET RESPONSIBILITY CRITERIA
   A. If the Owner determines that a bidder does not meet the bidder responsibility criteria set forth in this section and is therefore not a responsible bidder, the Owner shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees with this determination, it may appeal the determination within twenty-four (24) hours of receipt of the Owner’s determination by presenting additional information in writing to the Owner. The Owner shall consider the additional information before issuing its final determination in writing. If the final determination affirms that the bidder is not responsible, the Owner will not execute a contract with any other bidder until two (2) business days after the bidder determined to be not responsible has received written notice of the final determination. For the purposes of this subsection, the date of the Owner’s transmission of the Owner’s determination(s) by facsimile or electronic mail to the bidder at the facsimile number or e-mail address provided by the bidder in its bid shall constitute the date of receipt by the bidder of the written notices provided for herein.

PART 3 – INSURANCE AND BONDS

3.01 INSURANCE
   The Contractor shall obtain and keep in force during the term of the Contract public liability and property damage insurance in the amounts and coverages as required in the Small Public Works Contract.

3.02 PERFORMANCE AND PAYMENT BONDS
   The Successful Bidder will be required to furnish and pay for Performance and Payment bonds as required in the Small Public Works Contract for the faithful performance and payment of all its obligations under this Contract.

PART 4 – MISCELLANEOUS PROVISIONS

4.01 PREVAILING WAGES
   A. The Successful Bidder shall pay prevailing wages as required and shall comply with chapter 39.12 RCW and chapter 49.28 RCW or as those statutes may be amended. Notice of intent to pay prevailing wages and prevailing wage rates for the project must be posted for the benefit of workers.

   B. Pursuant to RCW 89.16.040 and RCW 39.04.010, certain land rehabilitation projects may be considered to be the work of “reclamation districts” and are not
subject to the prevailing wage requirements. If all or any portion of the Project is exempt from the requirement to pay prevailing wages under chapter 39.12, the Owner will issue an appropriate notice to bidders so that bids may be prepared accordingly. Unless notice is given by the Owner, bidders should assume that the prevailing wage requirements of chapter 39.12 RCW will apply.

C. The rules and regulations of the Department of Labor and Industries and the schedule of prevailing wage rates for the locality or localities where this Contract will be performed as determined by the Industrial Statistician of the Department of Labor and Industries, are by this reference made a part of this Contract as though fully set forth herein.

D. A copy of the Prevailing Wage Rates can be obtained in the following formats:
   i. An electronic version of the Prevailing Wage Rates for Journey and Apprentice levels can be obtained from the following Department of Labor and Industries web site:
      www.lni.wa.gov/TradesLicensing/PrevWage/WageRates/default.asp • The County for which the work is to be completed shall be: King County
      • The Effective Date for rate shall be: July 1st, 2020
   ii. A copy of the Prevailing Wage Rates for this project can also be reviewed and obtained at the District’s Headquarters at the address listed above.
   iii. A copy of the Prevailing Wage Rates can be sent by US Mail upon request.

4.02 SAFETY AND PROTECTION
   A. The Successful Bidder shall be responsible for all the safety of the Project site, including but not limited to trench safety systems and traffic control.
   B. Where the Project work includes excavation, the Bid shall include a separate lump sum cost for providing, installing and maintaining trench safety systems as required by chapters 49.17 and 39.04 RCW.

4.03 ACCESS TO FACILITIES, PREMISES AND RECORDS
   Representatives of the Owner shall have access to the work whenever it is in preparation or progress, and proper facilities shall be provided by the Contractor for such access and inspection. Representatives shall have access to any books, documents, papers, and records of the Contractor, which are pertinent to the project for the purpose of making audit, examination, excerpts, and transcriptions thereof.

END OF SECTION
SMALL PUBLIC WORKS BID PROPOSAL

PROJECT NAME: Duvall Drainage Maintenance 2020

SUBMITTAL DEADLINE: June 25th, 2020 at 5pm

ATTENTION: Liz Stockton

PART 1 - GENERAL

1.01 Bids should be delivered to the District Office in accordance with the Instruction to Bidders and the Summary of Work.

District Offices:
Snoqualmie Valley Watershed Improvement District Attn: Liz Stockton
P.O. Box 1148
Carnation, WA 98014
Phone: (206)384-0129
Email: liz@svwid.com

Copies of Bids in a PDF file format can be emailed to the email address listed above.

1.02 PROPOSAL

The undersigned Bidder hereby certifies that the Bidder has examined the location and construction details of work, is familiar with the local conditions at the place where the work is to be done, and has read and thoroughly understands the Project Documents governing the work and the method by which payment will be made for said work and hereby propose to undertake and complete the work in accordance with said Project Documents and that the Bidder will take in full payment therefor the sums set forth in the following Bid Schedule.

1.03 BID CONDITIONS

It is expressly understood and agreed that the following Bid Schedule amounts are the basis for establishing the low bidder for award of the Contract and that the GRAND TOTAL is a lump sum bid. Bid prices shall be exclusive of any sales tax, which will be separately compensated based upon actual contract payments.

1.04 BIDDER INFORMATION

Proper Name of Bidder: ___________________________________________

Mailing Address:

Contractor’s License No.: ___________ UBI No: ________________

City of [***] Business License No.: ____________________________

Phone Number: ______________ Fax Number: __________________

Email Address: __________________________________________

SCHEDULE OF UNIT PRICES

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**BASE BID Subtotal**

**W.S.S.T (8.6%)**

**BASE BID TOTAL (Subtotal with Sales Tax)**

1.05 **BID SUMMARY**

Amount Bid
Washington State Sales Tax @ [8.6]%
GRAND TOTAL in figures, including tax
GRAND TOTAL in words, including tax

By: __________________________

Signature

Printed

Title
Mandatory Bidder Responsibility Checklist

The following checklist will be used by Owners in documenting that a Bidder meets the mandatory bidder responsibility criteria. Bidders shall print a copy of the applicable documentation from the appropriate website to include with this checklist. This form and associated documentation shall be submitted as part of the Bidder’s Bid.

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<tr>
<td>Duvall Drainage Maintenance 2020</td>
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| Bidder’s Business Name: |

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<td>Elevator: If required, Elevator Contractor’s License?</td>
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<td>Is Bidder on Infraction List?</td>
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<tbody>
<tr>
<td>Is the Bidder listed on the “Contractors Not Allowed to Bid” list of the Department of Labor and Industries?</td>
</tr>
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</table>

| Name and Address of Registered Agent, General Partner or Managing Member |

SUPPLEMENTAL BIDDER CERTIFICATIONS

As part of the Supplemental Bidder Responsibility Criteria documentation, the Bidder shall complete all of the following Certifications by checking the appropriate boxes and signing the bottom portion of the form. If the Bidder has been involved in any of the described activities, then on a separate sheet, provide a written explanation as discussed below.

Termination for Cause Certification / Explanation
Instructions to Bidders: check the appropriate box

☐ The undersigned certifies that the Bidder has not had any public works contracts terminated for cause by a government agency during the five (5) year period immediately preceding the bid submittal deadline for this Project.

☐ Alternatively, the undersigned confirms that the Bidder has had any public works contracts terminated for cause by a government agency during the five (5) year period immediately preceding the bid submittal deadline for this Project.

If the Bidder has had any public works contracts terminated for cause as discussed above, provide a written explanation for all contracts terminated for cause by identifying the Project contract which was terminated, the government agency which terminated the contract, the date of the termination, and a description of the circumstances surrounding the termination.

Liquidated Damages Certification / Explanation
Instructions to Bidders: check the appropriate box

☐ The undersigned certifies that the Bidder has not been assessed liquidated damages related to the performance of a public works contract by a government agency during the five (5) year period immediately preceding the bid submittal deadline for this Project.

☐ Alternatively, the undersigned confirms that the Bidder has been assessed liquidated damages related to the performance of a public works contract by a government agency during the five (5) year period immediately preceding the bid submittal deadline for this Project.

If the Bidder has been assessed liquidated damages as discussed above, provide a written explanation for all liquidated damages paid by identifying the Project, the government agency
which assessed the liquidated damages, the amount of the liquidated damages, the date the liquidated damages were paid, and a description of the circumstances surrounding the assessment.

**Litigation Certification / Explanation**

Instructions to Bidders: **check the appropriate box**

- □ The undersigned certifies that the Bidder has not been a party as a plaintiff or defendant in any lawsuits, in Washington State superior or district court in the Puget Sound region (defined as King, Kitsap, Pierce, Snohomish and Thurston Counties) or federal district court for Western Washington, during the five (5) year period immediately preceding the bid submittal deadline for this Project, involving performance or payment issues relating to a public works contract, which were resolved adversely to the Bidder through judgment or settlement.

- □ Alternatively, the undersigned confirms that the Bidder has been a party as a plaintiff or defendant in a lawsuit, in Washington State superior or district court in the Puget Sound region (defined above) or federal district court for Western Washington during the five (5) year period immediately preceding the bid submittal deadline for this Project, involving performance or payment issues relating to a public works contract, which were resolved adversely to the Bidder through judgment or settlement.

If the Bidder has been involved in litigation as discussed above, provide a written explanation for all lawsuits in which the Bidder has been involved in the preceding five (5) years, identifying the parties, court, case number, status of case, and judgment and penalties, if appropriate.

**Public Bidding Crimes Certification / Explanation**

Instructions to Bidders: **check the appropriate box**

- □ The undersigned certifies that the Bidder has not been convicted of a crime involving bidding on a public works contract.

- □ Alternatively, the undersigned confirms that the Bidder has been convicted of a crime involving bidding on a public works contract.

If the Bidder has been convicted of a public bidding crime as discussed above, provide a written explanation of the conviction(s) in which the Bidder was involved, identifying the parties, court, case number, status of case, and judgment and penalties, if appropriate.

________________________________________ (Date)  __________________________________________ (Proper Name of Bidder)

________________________________________ (Signature)  __________________________________________ (Printed Name)

________________________________________ (Title)
# Mandatory Subcontractor Responsibility Checklist

The following checklist may be used by Owners, Contractors and Subcontractors in documenting that a subcontractor of any tier meets the subcontractor responsibility criteria. Bidders shall print a copy of documentation from the appropriate website to include with this checklist. This form and associated documentation shall be submitted as part of the Supplemental Bidder Responsibility Criteria.

## General Information

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Duvall Drainage Maintenance 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Number:</td>
<td>01_2020</td>
</tr>
</tbody>
</table>

| Subcontractor’s Business Name: | Subcontract Execution Date: |

## Subcontractor Registration – https://fortress.wa.gov/lni/bbip/

<table>
<thead>
<tr>
<th>License Number:</th>
<th>Status:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Active: Yes □ No □</td>
</tr>
</tbody>
</table>

| Effective Date (must be effective on or before Subcontract Bid Submittal Deadline): | Expiration Date: |

## Current UBI Number – http://dor.wa.gov/content/doingbusiness/registermybusiness/brd/ |

<table>
<thead>
<tr>
<th>UBI Number:</th>
<th>Account Closed:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Open □ Closed □</td>
</tr>
</tbody>
</table>

## Industrial Insurance Coverage – Attach a copy of the Employer Liability Certificate that is available at: https://fortress.wa.gov/lni/crpsi/MainMenu.aspx

<table>
<thead>
<tr>
<th>Account Number:</th>
<th>Account Current:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes □ No □</td>
</tr>
</tbody>
</table>

## Employment Security Department Number –

| Employment Security Department Number: |

## State Excise Tax Registration Number – http://dor.wa.gov/content/doingbusiness/registermybusiness/brd/ |

<table>
<thead>
<tr>
<th>Tax Registration Number:</th>
<th>Account Closed:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Open □ Closed □</td>
</tr>
</tbody>
</table>

## Contractor Licenses – https://fortress.wa.gov/lni/bbip/ |

| Electrical: If required, Electrical Contractor’s License? | Elevator: If required, Elevator Contractor’s License? |


| Is Subcontractor on Infraction List? | Yes □ No □ |


| Is the Subcontractor listed on the “Contractors Not Allowed to Bid” list of the Department of Labor and Industries? | Yes □ No □ |

## Name and Address of Registered Agent, General Partner or Managing Member
<table>
<thead>
<tr>
<th>For District Use During Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Has Bidder provided the following documentation or information •</td>
</tr>
<tr>
<td>Employer Liability Certificate? Yes ☐ No ☐</td>
</tr>
<tr>
<td>Employment Security Department on account number? Yes ☐ No ☐</td>
</tr>
<tr>
<td>Electrical Contractor’s License Number? Yes ☐ No ☐</td>
</tr>
<tr>
<td>Elevator Contractor’s License? Yes ☐ No ☐</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Checked by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Employee:</td>
</tr>
</tbody>
</table>

| Name and Title: | Address: |
EXHIBIT A

SUMMARY OF WORK 1.01

PROJECT LOCATION

This project is located on private land at the following locations:

Site 1: 19309 W. Snoqualmie Valley Rd NE
       Duvall, WA 98019

Site 2: 262nd Ave NE
       Duvall, WA 98019

1.02 PRE-BID MEETING

An onsite pre-bid meeting will be offered as these projects are located on private land. There will be one pre-bid site meeting at this site on June 17th, 2020. Additional pre-bid meetings will not be given.

Project site viewing access will only be allowed during the pre-bid meeting. Access is not granted for pre-bid inspection to any contractor, by the Landowner, except during the pre-bid meeting.

1.03 TIMING

Bids must be received by the date and time specified in the Bid Proposal. Once received, bids and responsibility criteria will be compiled for review by staff and presented at special meeting the District Board of Supervisors by June 25th, 2020 at 7pm. The District Board of Supervisors will award the contract for the project to the lowest responsible bidder provided that, whenever there is a reason to believe that the lowest acceptable bid is not the best price obtainable, all bids may be rejected and the Board of Supervisors may call for new bids.

All work must be completed by the dates listed in section 1.04 Description of the Work.

1.04 DESCRIPTION OF THE WORK

Description of Work

The project consists of, but is not limited to providing all materials, labor, and equipment, except as specifically identified in Exhibit A “Summary of Work” and Exhibit B “Technical Specifications”:

A. All bidding contractors are highly advised to attend the pre-bid meeting to discuss this project in detail with the King County ADAP engineer and project manager.

B. All defishing, water quality monitoring for fish safety, and planting along ditches will be the responsibility of King County ADAP.

C. A one-hour pre-construction meeting is required prior to mobilization of any heavy equipment.

D. It is the contractor’s responsibility to monitor excavation elevations and ensure that maintenance dredging does not exceed historical-channel extents.
E. Native vegetation should be protected to the extent practicable.

F. It is the contractor’s responsibility to provide erosion control measures as necessary.

G. It is the contractor’s responsibility to reseed disturbed areas where heavy equipment has damaged pastures or any farmland in accessing ditches.

H. Spoils will be spread by landowners.

I. No utilities have been located on site. It is the contractor’s responsibility of the to locate any and all utilities prior to starting work.

J. All work shall be performed in accordance King County’s agreement for best-management practices for maintenance of agricultural waterways (BMPs), the Washington Department of Fish and Wildlife (WDFW) Hydraulic Project Approval (HPA), and the King Conservation District Farm Plan. BMPs can be found here: https://www.kingcounty.gov/services/environment/water-and-land/stormwater/agricultural-drainage-assistance/waterway-maintenance-bmp-manual.aspx

K. In-Channel work will occur within the time frame allowed by the HPA with an end date by September 30, 2020 (State HPA permitting may dictate an earlier date).

Site 1: Agricultural ditches identified as ‘Channels 1-5’ in the attached site plans for ‘DeVries Ag Waterway Maintenance’ at 19309 W. Snoqualmie Valley Rd NE Duvall, WA 98019 as determined below:
- Total dredged volume of spoils is expected to be about 1,000 cubic yards

A. Task 1: Dredge approximately 748 linear feet of a moderate-modified ag ditch identified as ‘Channel 1’ in attached site plans.
   a. A moderate-modified ag ditch is defined by King County ADAP as an agricultural ditch that has been dredged previously and may contain a moderate amount of aquatic animal species. Fish presence is expected to be low based on previous fish presence studies and poor environmental conditions for aquatic animal species to thrive in Channel 1. See attached plans for detailed technical notes.

B. Task 2: Dredge approximately 2,425 linear feet of a low-modified ag ditch identified as ‘Channel 2 & 5’ in attached site plans.
   a. A low-modified ag ditch is defined by King County ADAP as an agricultural ditch that has been dredged previously and may contain a low amount of aquatic animal species. However, this ditch has been historically dry by early summer and is expected to be dry again by July 2020. Defishing is expected to be minimal in channels 2 & 5.

C. Task 3: Dredge approximately 2,187 linear feet of an artificial ag ditch identified as ‘Channel 3 & 4’ in attached site plans.
   a. An artificial ditch is defined by King County ADAP as an ag ditch that is man-made and does not contain aquatic animal species. These ditches will be dry and there will be no defishing required.
D. Task 4: Remove and replace two culverts at 3+66 and 5+61 in Channel 5 per attached site plans.
   a. Two new culverts to be installed are corrugated metal arched pipe with dimensions of 142”x91” at 15’ long per piece.
   b. All materials, including lifting lugs, will be delivered to site prior to construction. Four pieces of 15’ long pipe will be delivered to site. Contractor will need equipment to place culverts.
   c. Installation plans will follow engineer plans to place culverts at historical channel bottom. See technical specifications for placement of culverts.
   d. Install headwall slope protection rock. Place light loose rip rap to a distance of 1 culvert diameter along the sides and top of the culvert inlet and outlet.

Site 2: Agricultural ditches identified in the attached "Erickson-Brown & Thao Ag Waterway Maintenance Plan." For 2020, maintenance will occur on ‘Pickering’ parcel from 12+00 to 18+00. This is approximately 500 linear feet.
   • Total dredged volume of spoils is expected to be about 300 cubic yards

A. Task 5: Dredge approximately 500 linear feet from a high-modified ag ditch.
   a. A high-modified ag ditch is defined by King County ADAP as an agricultural ditch that has been dredged previously and may contain a high amount of aquatic animal species. Fish presence is expected to be low based on drainage maintenance project completed in 2019 in the southern part of this same ditch.
EXHIBIT B TECHNICAL SPECIFICATIONS

Site 1
Notes:

1. Total proposed maintenance length is approximately as follows:

<table>
<thead>
<tr>
<th>Waterway Classification</th>
<th>Length</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate Modified</td>
<td>748</td>
<td></td>
</tr>
<tr>
<td>Low Modified</td>
<td>1,180</td>
<td></td>
</tr>
<tr>
<td>Low Modified (DRY)</td>
<td>1,245</td>
<td>No expected water – no fish relocation</td>
</tr>
<tr>
<td>Low Artificial (DRY)</td>
<td>2,178</td>
<td>No expected water – no fish relocation</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,351</td>
<td>Portion of Total that is DRY: 3,423 ft</td>
</tr>
</tbody>
</table>

Total proposed culvert replacements are approximately as follows:

<table>
<thead>
<tr>
<th>Waterway Classification</th>
<th>No. Culverts</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Modified</td>
<td>2</td>
<td>Replace with Fish-Passable Culverts</td>
</tr>
</tbody>
</table>

Actual length may be more or less than total listed, and will be based on assessments made onsite at the time of excavation. The landowner is under no obligation to perform the work shown in this plan in part or whole.

2. Estimated dredge volume: approximately 1,050 cubic yards (yd³)

3. All work shall be performed in accordance with King County’s agreement for best management practices for maintenance of agricultural waterways (BMPs), the Washington Department of Fish and Wildlife (WDFW) Hydraulic Project Approval (HPA), and the King Conservation District (KCD) farm plan.

4. In-channel work will occur within the time frame allowed by the HPA.

5. Spoils may be spread on farm fields to a depth no greater than 6 inches or removed from the site and disposed of in a legal manner.

6. Fish relocation may be performed by King County, at the direction of the KC ADAP representative and with coordination by the maintenance contractor or landowner. Staffing shortages, health restrictions and other conditions may extend the timeline the county can reasonably provide resources.

7. A 1-hour pre-construction meeting, including the landowner or landowner’s representative, the maintenance contractor and a King County ADAP employee, is required prior to the start of any maintenance activities.

8. It is the contractor’s responsibility to monitor excavation and ensure that maintenance dredging does not exceed historical-channel extents.

9. Native vegetation should be protected to the extent practicable.

10. The landowner is responsible for protecting the installed planting from livestock grazing and all farm activities.

11. No utilities have been located. It is the responsibility of the excavator contractor (or landowner, if no contractor is used) to locate utilities.
Site History: King County ADAP has no known history of previous maintenance activity at this project site. A 2015 ADAP project performed maintenance of multiple waterways on the property immediately south.

Fish Relocation: Fish relocation will occur at the following locations, listed in order of preference: upstream, adjacent tributary, nearby stream, river, downstream. Primary expected release sites, which will be considered first, have been identified on the plan map and described below. Olympic Mudminnow will only be relocated upstream or downstream of the project site. Resilient fish species, such as Stickleback and Sculpin, may be captured and released in conditions that would not be deemed acceptable for capture/release of salmonids, with consultation and oversight by the ADAP fish relocation lead fish scientist.

### FISH RELEASE SITES

<table>
<thead>
<tr>
<th>Site Description</th>
<th>Access through adjoining landowner.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upstream of Project Reach</td>
<td></td>
</tr>
<tr>
<td>Pearson Eddy Channel</td>
<td></td>
</tr>
<tr>
<td>Snoqualmie River</td>
<td></td>
</tr>
<tr>
<td>Downstream of Project</td>
<td></td>
</tr>
</tbody>
</table>

### Expected Hydrology

<table>
<thead>
<tr>
<th>Segment</th>
<th>Length (ft)</th>
<th>DRY?</th>
<th>Hydrology</th>
<th>Mapped Classification</th>
<th>Expected Fish Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 1</td>
<td>748</td>
<td></td>
<td>Minor flow est &lt; 1 cfs in summer. Drainage from valley wall</td>
<td>Moderate Modified</td>
<td>Flow is very low in summer but is not expected to stop flowing except under very dry conditions. Pre-project measurements from 8/29/19-9/12/19 recorded an average water temperature of approximately 15 degrees celsius and Dissolved oxygen of 5 mg/L (max of 8 mg/L). These conditions indicate presence of fish should be anticipated.</td>
</tr>
<tr>
<td>Channel 2</td>
<td>1245</td>
<td>DRY</td>
<td>DRY. Water source is base of valley wall drainage.</td>
<td>Low Modified</td>
<td>No expected fish use. This waterway has been observed to be dry multiple times over multiple years. A portion of this channel was observed to be dry during a May, 2016 survey.</td>
</tr>
<tr>
<td>Channel 3</td>
<td>1197</td>
<td>DRY</td>
<td>DRY. This channel drains surface water from floods and surface run-off</td>
<td>Low Artificial</td>
<td>No expected fish use. This waterway has been observed to be dry.</td>
</tr>
<tr>
<td>Channel 4</td>
<td>987</td>
<td>DRY</td>
<td>DRY. This channel drains surface water from floods and surface run-off</td>
<td>Low Artificial</td>
<td>No expected fish use. This waterway has been observed to be dry.</td>
</tr>
<tr>
<td>Channel 5</td>
<td>1180</td>
<td></td>
<td>Extremely low flow in summer. Sometimes no flow, but with ponding. This channel transports water that originates from the valley wall.</td>
<td>Low Modified</td>
<td>Flow can vary between extremely low, and ponding only. The upstream 2015 ADAP project encountered a no-flow condition in the same channel, but encountered Olympic Mudminnow stranded in small remaining ponding. Pre-project measurements from 8/29/19-9/12/19 observed a very small, but constant flow in the channel. These measurements recorded an average water temperature of 16 degrees celsius, and an average Dissolved Oxygen concentration of less than 0.5 mg/L. The low DO concentration makes it unlikely salmonids will be found, unless they remain onsite due to standing in ponded areas. Due to the presence of Olympic Mudminnow found upstream in 2015 under extremely inhospitable conditions, it is expected that stranded, and very hardy fish, could be found in this channel.</td>
</tr>
</tbody>
</table>

### Notes

- King County
- Department of Natural Resources and Parks
- Stormwater Services Section
- Streamside Services Section
- Christine True, Director
- 19309 W SNOQUALMIE VALLEY RD NE
- DUVAUL, WA 98019
- 5/11/2020
- Underline utility locations are approved
Know what's below. Call before you dig.

Moderate Modified (Planned for Maintenance by this Project)
Low Modified (Planned for Maintenance by this Project)
Low Artificial (Planned for Maintenance by this Project)
Other Ag. Waterway (Not Planned for Maintenance by this Project)
Fish Barrier Culvert Proposed for Replacement
T/DO Sample Site (approx.)
Turbidity Sample Site (approx.)
Turbidity Sample Site Offset to Distance (approx.)
Fish Relocation Release Site (approx.)
Parcel Boundary (From King Cy GIS)

Previous ADAP project (Lindemulder ADAP) completed in 2015 on adjacent property

Christie True, Director
Stormwater Services Section
Water and Land Resources Division
Department of Natural Resources and Parks

Call before you dig.

Know what's below.
Notes:

1. Future maintenance of the Big Ditch (not part of this project) will maintain the channel bottom approximately as shown from -1+00 to 0+00. When that occurs, blend the channel bottom along this tributary from approximately 0+00 to 14+00 to match grades.

2. Culvert replacement along this tributary is not part of this plan. However, if the landowner decides to pursue culvert replacement on this tributary, crossing design requirements and the potential for a plan revision and permit updates can be discussed with the ADAP project manager.
Know what's below. Call before you dig.

Notes:

1. A portion of Channel 5 and its proposed maintenance is shown between -1+00 to 0+00 on this profile. Blend the channel bottom along Channel 2 from approximately 0+00 to 1+00 to match grades.

2. Culvert replacement along this tributary is not part of this plan. However, if the landowner decides to pursue culvert replacement on this tributary, crossing design requirements and the potential for a plan revision and permit updates can be discussed with the ADAP project manager.
Channel 3 Profile

Dredge and Vegetation Removal

- Big Ditch
  Not Part of Project

Channel 4 Profile

Dredge and Vegetation Removal

Know what's below.
Call before you dig.
Notes:

1. Supplemental design information is provided by the Snoqualmie Valley Watershed Improvement District (WID) for the stream simulation design documentation.
2. Material and installation specifications to be provided by others for the two pipe-arch installations. Coordinate with the Snoqualmie Valley Watershed Improvement District for these materials.
3. Structural plans and installation instructions to be provided by others.
4. Future maintenance of the Big Ditch (not part of this project) will maintain the channel bottom approximately as shown from -1+00 to 0+50. When that occurs, blend the channel bottom along this incline from approximately 0+00 to 1+50 to match grades.

Legend:
- Existing Channel Bottom
- Existing Farm Road
- Existing Culvert
- Water Surface (May 2016)
- Sediment Depth (At Probe Resistance)
- Proposed Ditch Extent & % slope
- Big Ditch Future Ditch Extent (Note 1)
Notes:

1. Material and installation specifications to be provided by others for the pipe-arch installations. Coordinate with the Snoqualmie Valley Watershed Improvement District for these materials.

2. The existing culverts are perched because they were not installed at the historic channel bottom. The indicated dredge depth in the maintenance plan references the bottom of the surveyed sediment at resistance as the historic channel bottom.
Design Notes:
Supplemental design report and accompanying correspondence to be provided by the Snoqualmie Valley Watershed Improvement District.

* Items listed with an asterisk to the left may be further defined by the manufacturers design and installation specifications.

Materials and installation requirements will meet the manufacturers specifications, even if they are in addition to what is called for in this plan.

D = 128 inches (Pipe-Arch Span)
84 inches (Pipe-Arch Rise)

G = 10" * Min. Gauge Thickness

%S = 0.08 % (Stream Slope)

Din = 1.97 ft (Backfill at Inlet)
Dout = 1.95 ft (Backfill at Outlet)

W = 16 ft (Road Width)

H = 2.26 ft (Min. Height of Cover)

He = 0.0* ft (Depth to Finished Grade)

Hw = 29.35 ft (100 yr Flood Elev.)

A1 = 50* ft (Approach Length Left)
A2 = 50* ft (Approach Length Right)

DL = * (Design Load)

EL = 3.5 ft (Elevation at Culvert Invert)

Culvert 1 at 1+80

Culvert 2 at 3+75

Material & Installation Notes:
1. Culvert shall have a minimum inside diameter as listed for the material type under Culvert Parameters. The pipe material may be corrugated steel (with galvanized or aluminized coating) (CMP), corrugated aluminum (CMP), or lined corrugated high density polyethylene (LCPE) meeting AASHTO M-36, AASHTO M-196, AASHTO M-294, ASTM A-760, and ASTM B-745 as applicable. Culverts shall have annular ends for use with split couplers.

2. Couplers (with expanded rubber gaskets if installing metal pipe) shall be used, unless other, higher quality coupling techniques, as recommended by the manufacturer are used.

3. Crushed Surfacing Base Course will be used for bedding and backfill rock within 2 feet of the pipe along all sides. Native backfill, select borrow, or pit run rock may alternatively be used for the remainder of the fill. Materials containing more than 5% clay shall not be used for bedding and backfill unless adequate compaction can be demonstrated. Materials containing more than 5% organic material shall not be used for bedding and backfill.

4. All bedding and backfill will be compacted with at least 3 passes using powered vibratory compaction equipment, in layers not to exceed six inches compacted depth. If material does not compact well with this level of effort, modify compaction techniques and/or material until adequate compaction can be demonstrated. Adequate compaction shall be to the relative density specified by the manufacturer for backfill compaction, or if not stated, 95% relative density.

5. Installation of culverts shall be in accordance with the manufacturer’s recommendations and specifications.

Design Notes:
Supplemental design report and accompanying correspondence to be provided by the Snoqualmie Valley Watershed Improvement District.

* Items listed with an asterisk to the left may be further defined by the manufacturers design and installation specifications.

Materials and installation requirements will meet the manufacturers specifications, even if they are in addition to what is called for in this plan.
The proposed planting will install plants at a 1:1 ratio with the amount that would otherwise be required under the default planting requirements of the ADAP bmp's. The default plan would require channels 1, 2 and 5 be planted 2 rows on each bank, plants spaced 3 feet on-center. Channel 3 and 4 do not require planting. This equates to a total of 4,230 plants. The proposed planting areas will be approximately as follows to satisfy the planting requirements for maintenance along channels 1, 2 and 5:

<table>
<thead>
<tr>
<th>ID</th>
<th>Rows</th>
<th>No. of Plants</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8-10</td>
<td>1,964</td>
<td>Both banks within fence line.</td>
</tr>
<tr>
<td>2</td>
<td>6-9</td>
<td>786</td>
<td>W bank only.</td>
</tr>
<tr>
<td>3</td>
<td>16</td>
<td>1,480</td>
<td>Leave 2 feet between middle rows. Plant both banks 3/4 rows.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total = 4,230</td>
</tr>
</tbody>
</table>

This planting plan prioritizes installing a much larger planting zone around channel 1. It has the most consistent perennial flow of channels 1-5 during the low-flow summer months. It is the most likely channel to have conditions to support resident fish during the dry-summer monsoon. With an approximate 30 ft planting zone will greatly enhance the cover and food sources for summer fish populations as well as reduce the solar radiation that would otherwise raise the water temperature. Dissolved oxygen monitoring from 8/29/19 -9/11/19 documented dissolved oxygen averaging approximately 5 mg/L in channel 1, with a maximum of 8 mg/L, whereas channel 5 was documented as having dissolved oxygen averaging approximately 7.25 mg/L with a maximum of 0.5 mg/L. Channel 5 does not have a consistent flow of water in the summer months, leading to variable conditions that are inhospitable to fish life. Planting area 3 will provide off-channel shelter options for fish that would otherwise be confined to a straightened, higher velocity drainage channel during high-flow drainage conditions. The water source for Channel 2 is attributed to toe-of-slope drainage. This channel is usually dry during low-flow conditions, but if any seasonal ponding exists, it's going to occur along the base of the slope. Any water flowing downstream from there has been observed to drain sub-surface, resulting in a dry ditch downstream. The channel profile shows this very condition during the May 2016 survey. It would be in the upper reaches where food sources, shade and protective cover from this planting would have the most benefit to any resident fish that will try to survive through the summer in a wetter year, when ponding has a chance to occur or during summer, when the upper reach is cut-off, but a subsequent rainstorm provides the flow necessary to let the resident fish move out. Both planting areas along channel 1 and 2 are located to provide maximum run-off interception along steep slopes from upland agricultural operations. Run-off in these areas is more prone to causing erosion along steep banks, and the expanded width of planting will provide more stabilization to prevent erosion and encourage infiltration.
Know what's below.
Call before you dig.

Christie True, Director
Stormwater Services Section
Water and Land Resources Division
Department of Natural Resources and Parks
King County

5/26/2020 4:44:44 PM

PROJECT SUMMARY

<table>
<thead>
<tr>
<th>CHANNEL CLASSIFICATION/PROJECT ELEMENT</th>
<th>DREDGE LENGTH (FT)</th>
<th>CHANNEL CONDITIONS (DRY/WET)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Moderate</td>
<td>2,060</td>
<td>Wet</td>
<td>Work completed in Summer 2019</td>
</tr>
<tr>
<td>Culvert at 144+95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bridge (47+63) &amp; Culvert Removal (47+62)</td>
<td></td>
<td>Wet</td>
<td>Planned for completion within timeframe of HPA</td>
</tr>
<tr>
<td>High-Moderate</td>
<td>1,800</td>
<td>Wet</td>
<td>Work planned for 2020</td>
</tr>
<tr>
<td>High-Moderate</td>
<td>500</td>
<td>Wet</td>
<td>Work planned for 2020</td>
</tr>
<tr>
<td>Low Artificial</td>
<td>2,550</td>
<td>Dry</td>
<td>Perform work in dry conditions: Work planned for 2020</td>
</tr>
<tr>
<td>Culvert at 4+08</td>
<td></td>
<td>Dry</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. Estimated dredge volume of work completed in 2019: approximately 750 cubic yards (yd³). Estimated dredge volume of work planned for 2020: Approximately 800 cubic yards along the High Modified work zone proposed for completion in 2020.
2. All work shall be performed in accordance with King County’s “Best Management Practices for Maintenance of Agricultural Waterways” (BMPs), the Washington Department of Fish and Wildlife (WDFW) Hydraulic Project Approval (HPA) stipulations, and the King Conservation District (KCD) farm plan.
3. In-channel work is recommended to occur during dry- or low-flow conditions. If flowing water is present during construction it will be bypassed around construction as described in the BMPs.
4. Spills may be spread on site to a depth no greater than 6 inches or removed from the site and disposed of in a legal manner.
5. De-fishing will be performed by King County, at the direction of the ADAP representative and with timely coordination by the maintenance contractor. Accordingly, the contractor shall notify the King County ADAP representative at least two weeks prior to the project start date.
6. A pre-construction meeting, including the landowner or landowner’s representative, the maintenance contractor, a KCD employee, and a King County ADAP employee, is required prior to the start of any maintenance activities.
7. It is the contractor’s responsibility to monitor excavation and ensure that maintenance dredging does not exceed historical-channel extents.
8. Native vegetation should be protected to the extent practicable.
9. No utilities have been located. It is the responsibility of the contractors to locate utilities. 
Know what's below.
Call before you dig.

Christie True, Director
Stormwater Services Section
Water and Land Resources Division
Department of Natural Resources and Parks
King County

ERICKSON-BROWN (2526069011)
INSTALL NEW CROSSING ON LOW ARTIFICIAL CHANNEL (SEE SHEETS 7 & 9)
ARTIFICIAL CHANNEL
INSTALL BRIDGE (SEE SHEETS 5 & 8)
HT-2
48+00
46+00
44+00
42+00
40+00
38+00
36+00
34+00
32+00
30+00
28+00
26+00
24+00
22+00
20+00
18+00
16+00
14+00
12+00
10+00
8+00
6+00
4+00
2+00
0+00

REPLACE CROSSING ON LOW ARTIFICIAL CHANNEL (SEE SHEETS 7 & 9)
CROSSING AT NE 124TH ST

THAI (2526069018)
SEE ENLARGEMENT BOTTOM LEFT

PICKERING (2526069008)
PUT IN GLACIER (2526069003)

KING COUNTY WLRD (2526069005)

KING COUNTY PARK (2526069032)

LARSON (2526069082)

REESTABLISH CHANNEL ACROSS CROSSING
EXCAVATE ~55 CUBIC YARDS (SEE SHEET 4)

120′ long
PARCEL BOUNDARY (APPROX)
CENTERLINE OF CHANNEL
CHANNEL TO BE DREDGED
ARTIFICIAL CHANNEL TO BE DREDGED
CHANNEL CROSS SECTION
FLOW DIRECTION

Legend 

12:30 PM

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Stormwater Services Section
Christie True, Director

11707 282ND AVE NE
DUVALL, WASHINGTON

Sheet 1 of 10
Drawn by: Brian Decker, PE
Drawn for: Brandi Duncan, PE
Drawn by: Brian Decker, PE
Drawn for: Brandi Duncan, PE
Approved by: Brian Decker, PE
Approved by: Brian Decker, PE
U.S. DEPARTMENT OF THE INTERIOR
DEPARTMENT OF TREASURY
FEDERAL ENVIRONMENTAL CONSTRUCTION AID
FEDERAL ENVIRONMENTAL CONSTRUCTION AID

5/26/2020

5/26/2020 4:47:40 PM
Call before you dig.

Christie True, Director
Stormwater Services Section
Water and Land Resources Division
Department of Natural Resources and Parks
King County

5/26/2020 4:47:50 PM
Know what's below.
Call before you dig.
Know what's below.
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Christie True, Director
Stormwater Services Section
Water and Land Resources Division
Department of Natural Resources and Parks
King County
Know what's below.
Call before you dig.
1) This plan must be accompanied by a structural plan prior to installation, which is not provided by King County Agricultural Drainage Assistance Program (ADAP). The structural plan may adjust these dimensions as necessary to meet design criteria, except that the bridge bottom may not be lowered, the length shortened, nor the bridged widened without receiving a revised Hydraulic Project Approval. The following requirements apply.

2) The 100-year water elevation for the Snoqualmie River at this location is approximately 55 ft. Accordingly, the 100-year water surface is above the bottom cord of the bridge.

**Structural Plans:**

A1. A structural bridge & footing design with material and construction specifications, including load calculations, must be provided by a registered professional civil engineer, currently licensed in the State of Washington.

A2. The specified bridge shall be commercially available from pre-constructed or modular bridge manufacturers, and a list of known, local manufacturers will be included which are capable of providing the designed bridge.

A3. Consult with the landowner to understand the maximum loading requirements over the life time of the bridge. Use a design load of at least HS20-44 or HL93 unless the landowner requests less. Bridge and footings must be designed for the specified loading, or greater, in accordance with the AASHTO Standard Specifications for Highway Bridges. Loading for a fire truck will also be considered. If third party requirements dictate using AASHTO LRFD Bridge Design specifications, bridge and footings must be designed for HL93 loading or greater.

A4. Sub-surface soil description is not provided by ADAP.

A5. In addition to the other required items listed, a complete structural plan will include, but is not limited to, the following elements:

i. Plan, profile and section of bridge, footings and connections.

ii. Bridge, foundation and bearing capacity design criteria and calculations.

iii. Material Specifications

iv. Construction Specifications

v. Supplier options list

Notes:

1) This plan must be accompanied by a structural plan prior to installation, which is not provided by King County Agricultural Drainage Assistance Program (ADAP). The structural plan may adjust these dimensions as necessary to meet design criteria, except that the bridge bottom may not be lowered, the length shortened, nor the bridged widened without receiving a revised Hydraulic Project Approval. The following requirements apply.

2) The 100-year water elevation for the Snoqualmie River at this location is approximately 55 ft. Accordingly, the 100-year water surface is above the bottom cord of the bridge.
**Design Notes:**

This culvert was designed using the no-slope design methodology for fish passage as described in the 2013 WDFW Water Crossing Design Guidelines.

- Channels have been artificially widened by repeated maintenance of agricultural drainage. Typical bankfull width indicators were not found to be reliable at this site. The channel width used herein was established using the regression equation based on watershed characteristics as described in appendix C of the design guidelines.

- Existing Bank Width = 17 ft (unsuitable given basin size)
- Contributing Watershed = 50 Acres
- Mean Annual Rainfall = 46 inches
- Regression Bankfull Channel Width = 3.1 ft
- Selected Culvert Diameter (Full Round) = 48 Inch

**Material & Installation Notes:**

1. Culvert shall have a minimum inside diameter as listed. The pipe material may be corrugated steel, with galvanized or aluminized coating, corrugated aluminum or corrugated double wall high density polyurethane (HDPE) meeting AASHTO M-36, AASHTO M-196, AASHTO M-294, ASTM A-760, and ASTM B-745 as applicable. Culverts shall have annular ends for use with split couplers.

2. Split couplers (with gaskets if installing steel pipe) shall be used, unless other, higher quality coupling techniques, as recommended by the manufacturer are used.

3. Minus Crushed rock will be used for bedding and backfill rock within 2 feet of the pipe along all sides. Native backfill, select borrow, or pit run rock may alternatively be used for the remainder of the fill. Materials containing more than 5% clay shall not be used for bedding and backfill unless adequate compaction can be demonstrated. Materials containing more than 5% organic material shall not be used for bedding and backfill.

4. All bedding and backfill will be compacted with at least 3 passes using powered vibratory compaction equipment, in layers not to exceed six inches compacted depth. If material does not compact well with this level of effort, modify compaction techniques and/or material until adequate compaction can be demonstrated. Adequate compaction shall be to the relative density specified by the manufacturer for backfill compaction, or if not stated, 95% relative density.

5. Installation of culverts shall be in accordance with the manufacturer's recommendations and specifications.

**Design Notes:**

This culvert was designed using the no-slope design methodology for fish passage as described in the 2013 WDFW Water Crossing Design Guidelines.

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- Selected Culvert Diameter (Full Round) = 48 Inch

**Culvert Plan**

- D = 4 ft (Culvert Diameter)
- L = 31 ft (Culvert Length)
- %S = 0.0% (Stream Slope)
- Din = 1.6 ft (Backfill at Inlet)
- Dout = 1.5 ft (Backfill at Outlet)
- W = 15 ft (Road Width)
- H = 2 ft (Min Cover Depth)
- A1 = 65 ft (Approach Length Left)
- A2 = 45 ft (Approach Length Right)
- DL = TISSG-44 or HL93 (Design Load)
- EL = 36.9 ft (Elevation at Culvert Invert)
- E = 1356226.59 (Easting at Southern Invert)
- N = 2725358.22 (Northing at Southern Invert)

**Culvert 2 at 14+95**

- D = 4 ft (Culvert Diameter)
- L = 31 ft (Culvert Length)
- %S = 0.0% (Stream Slope)
- Din = 1.6 ft (Backfill at Inlet)
- Dout = 1.5 ft (Backfill at Outlet)
- W = 15 ft (Road Width)
- H = 2 ft (Min Cover Depth)
- A1 = 65 ft (Approach Length Left)
- A2 = 45 ft (Approach Length Right)
- DL = TISSG-44 or HL93 (Design Load)
- EL = 36.9 ft (Elevation at Culvert Invert)
- E = 1356226.59 (Easting at Southern Invert)
- N = 2725358.22 (Northing at Southern Invert)

**Material & Installation Notes:**

1. Culvert shall have a minimum inside diameter as listed. The pipe material may be corrugated steel, with galvanized or aluminized coating, corrugated aluminum or corrugated double wall high density polyurethane (HDPE) meeting AASHTO M-36, AASHTO M-196, AASHTO M-294, ASTM A-760, and ASTM B-745 as applicable. Culverts shall have annular ends for use with split couplers.

2. Split couplers (with gaskets if installing steel pipe) shall be used, unless other, higher quality coupling techniques, as recommended by the manufacturer are used.

3. Minus Crushed rock will be used for bedding and backfill rock within 2 feet of the pipe along all sides. Native backfill, select borrow, or pit run rock may alternatively be used for the remainder of the fill. Materials containing more than 5% clay shall not be used for bedding and backfill unless adequate compaction can be demonstrated. Materials containing more than 5% organic material shall not be used for bedding and backfill.

4. All bedding and backfill will be compacted with at least 3 passes using powered vibratory compaction equipment, in layers not to exceed six inches compacted depth. If material does not compact well with this level of effort, modify compaction techniques and/or material until adequate compaction can be demonstrated. Adequate compaction shall be to the relative density specified by the manufacturer for backfill compaction, or if not stated, 95% relative density.

5. Installation of culverts shall be in accordance with the manufacturer's recommendations and specifications.

**Know what’s below.**

**Call before you dig.**
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Not to Scale

Legend:
- Parcel Boundary (Approx.)
- Centerline of Channel
- Channel to be dredged
- Artificial Channel to be dredged
- Channel Cross-Section
- Flow Direction
- Proposed Planting Area

Note: A hedgerow type planting will be planted at the top of both banks in accordance with the ADAP channel classification at the time of construction. Some placement adjustments may be made at time of installation. Areas that are already vegetated with native vegetation will not be re-planted, but identified for the field crews, and worked around. If additional maintenance of existing native vegetation is needed, this project will include it in the maintenance of the new plantings installed. Due to the heavy presence of beaver, plant selection will be towards those species that beaver prefer less. The areas indicated for planting on this plan represent the planting that would occur if all portions of the project are completed. If only a portion of the project is completed, then only the planting that is required for that portion will be installed.