

**- REQUEST FOR PROPOSALS -  
ENGINEERING DESIGN SERVICES**

**Cedar Valley Road Crossing Improvements:  
Brush Creek 175 Road & White Creek 191 Road**

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**RESPONSE DEADLINE: MAY 22<sup>nd</sup> 2020, 5:00 PM**



**YAKAMA NATION**

**Yakama Nation Fisheries - Klickitat Field Office  
P.O. Box 215, Klickitat, WA 98628  
Phone: 509-281-1935 | E-mail: [agrimm@ykfp.org](mailto:agrimm@ykfp.org)**

**Anticipated Timeline**

Proposal Submission Deadline:	May 22, 2020 – 5:00pm
Tentative Award Selection:	May 27, 2020
Project Initiation (estimate):	June 15, 2020
Survey	June/July 2020
Alternatives Analysis/Conceptual Design	September 2020
HIP III Design Revisions, 15% and 30% designs	December 2020
60% Designs completed	March 31, 2021

**Please send questions in writing so responses can be shared with other interested parties.**

# REQUEST for PROPOSALS for ENGINEERING DESIGN

## I - PROJECT OVERVIEW

The **YAKAMA NATION (YN)**, is soliciting a Request for Proposals for Engineering Design Services

for two road crossings in the White Creek Watershed, within the Closed Area of the Yakima Nation Reservation in south central Washington State. The crossings are located on the 175 Road over Brush Creek and on the 191 Road over White Creek. Crossings will be designed to provide year round passage for aquatic species and longitudinal movement of flood flows, wood and sediment. The goal is to obtain designs at the 60% level by March 2021.

Brush Creek is a tributary to White Creek, and both watersheds are located within the Closed Area of the Yakama Reservation, approximately 20 miles east of Mount Adams. White Creek flows into the Klickitat River at river mile 40. The White Creek sub-basin provides critical spawning and rearing habitat for ESA-listed Middle Columbia River steelhead and is a focal area for salmonid restoration efforts. Recent fisheries studies indicate that White Creek accounts for an average of 13 percent of the annual observed spawning in the Klickitat River Basin, although percentages as high as 31 percent have been noted (Yakama Nation Fisheries Program).

Ongoing efforts to improve aquatic habitat conditions for ESA listed *O. mykiss* have focused on improving passage at major road crossings, restoring incised meadows and disconnected sections of headwater streams, and replenishing in-channel wood throughout the White Creek watershed.

Basic hydrology information derived from Stream Stats (USGS) is shown in Table 1.

**Table 1: Basic Data on both crossings from Stream Stats (USGS)**

Brush Creek 175 Road Crossing					White Creek 191 Road Crossing				
Peak Flood (Yr)	Flow (CFS)	Std Err	MinCFS	MaxCFS	Peak Flood (Yr)	Flow (CFS)	Std Err	MinCFS	MaxCFS
2	731	53	284	1880	2	343	53	881	134
5	1300	51	519	3250	5	609	51	1520	243
10	1770	51	708	4410	10	827	51	2060	332
25	2430	52	946	6220	25	1130	52	2900	442
50	2970	53	1130	7800	50	1380	53	3630	526
100	3540	54	1310	9550	100	1650	54	4440	613
200	4130	56	1490	11400	200	1920	56	5290	696
500	5030	58	1740	14500	500	2330	58	6720	811

Location: (46.11000000, -121.02166667)  
 Drainage Area: 38.5 sq miles  
 Mean Annual Precipitation: 30 inches  
 Basin Mean Slope: 9.06 %

Location: (46.14194444, -121.07750000)  
 Drainage Area: 16.8 sq miles  
 Mean Annual Precipitation: 33.7 inches  
 Basin Mean Slope: 12.3 %

Klickitat Watershed Enhancement Project (KWEP) staff located in Klickitat, WA will oversee this RFP and support the design effort. KWEP works to restore, enhance and protect watershed function within the Klickitat subbasin. Work emphasizes restoration and protection of Endangered Species Act (ESA) listed anadromous fish. Restoration activities focus on improving stream processes by resolving watershed constraints and improving habitat conditions and water quality factors in support of species recovery. These two road crossings are the last major known impediments to fish passage in the White Creek watershed. The roads are utilized for Tribal member access to the Closed Area for hunting, fishing, gathering and other activities. In addition, roads provide access for timber harvest and crossings shall be designed for heavy equipment access and log transport. Additional details on road standards will be provided.

The crossings are each located approximately 1 hour from either Glenwood, WA or White Swan, WA. It takes approximately 30 minutes to drive between sites.

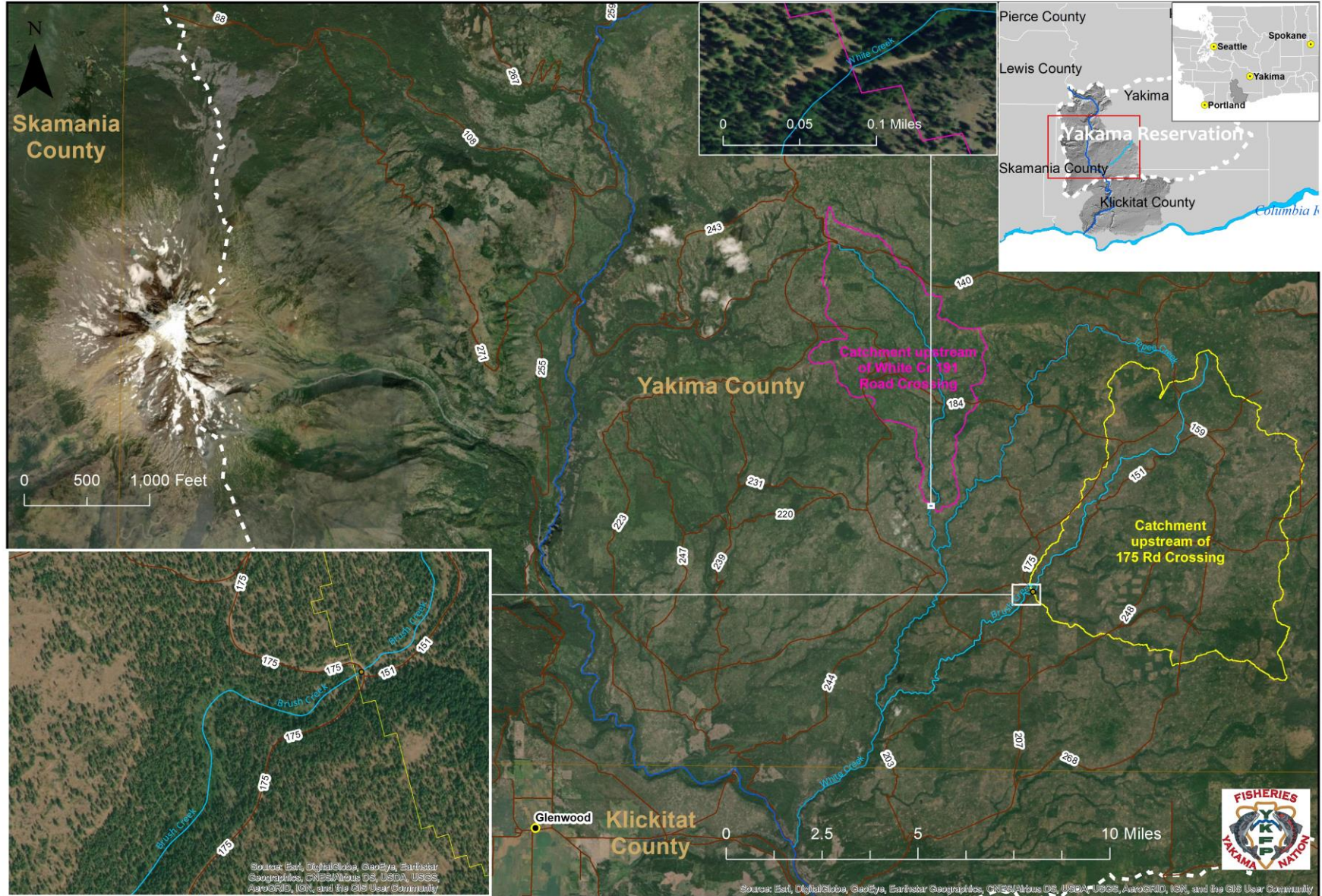


Figure 1: Vicinity map of Cedar Valley Road Crossing Projects, located east of Mt Adams in south central Washington State.



Figure 2. Brush Creek 175 Road Crossing Culverts limit fish migration, trap sediments, and restrict the passage of wood and sediment (downstream on left, different angle of downstream end of culverts on right).



Figure 3. Brush Creek 175 Road Crossing Culverts (upstream on left, conditions upstream of culvert on right).



**Figure 4: White Creek 191 Road Crossing: upstream (left), downstream (right)**



**Figure 5: White Creek 191 Road Crossing: Close-up photos of downstream side of double culvert.**

## II - OBJECTIVE

The objective is to obtain designs to improve fish passage and longitudinal movement of sediment and wood at these two crossing locations. The selected firm will demonstrate experience designing road crossings that meet Washington Department of Fish and Wildlife Design Guidelines (<https://wdfw.wa.gov/sites/default/files/publications/01501/wdfw01501.pdf>), familiarity with Bonneville Power Administration's HIP Design submittals, and examples of practical solutions to infrastructure (forest roads) in remote locations.

Proposal should include the consulting engineering firm's:

- Consultant Team Structure
- Team/Personnel Qualifications and Experience
- Project Approach
- Past Performances/References
- Fee Schedule – Project Cost Estimate and Personnel Hourly Rates

## III – SCOPE OF WORK

The cost estimate should reflect the following design components:

- A. Site Reconnaissance
  - a. Topographic Survey
  - b. Geomorphic Assessment
  - c. Base Mapping
  - d. WDFW Barrier Evaluation
- B. Hydrology & Hydraulics
  - a. Hydrology
  - b. Hec-RAS Modeling
- C. Draft Preliminary Design
  - a. Alternatives Analysis
  - b. Draft Preliminary Design Drawings
  - c. Draft Preliminary Design Report
  - d. Draft Cost Estimate
- D. 30% Design
  - a. Assistance with response to initial HIP III Feedback
  - b. Revised Design Drawings and Design Reports
- E. 60% Design
  - a. Revised Design Drawings and Design Reports
  - b. Revised Cost estimate

Yakama Nation will provide:

- Permits for access to Closed Area
- Personnel to support topographic survey
- Project Management and Coordination
- Aerial photography
- LiDAR data to supplement topographic survey



## IV – TIMING AND DURATION

We expect to award this contract in May 2020 and receive final deliverables by March 31, 2021. Qualified Contractor Proposals shall be received via email no later than 5:00 P.M. Pacific Daylight Time on May 22<sup>nd</sup>, 2020. Bids may be emailed to: Adrienne Grimm at agrimm@ykfp.org.

### Anticipated Timeline:

Qualifications Submission Deadline:	May 22, 2020 – 5:00pm
Tentative Award Selection:	May 28, 2020
Project Initiation (estimate):	June 15, 2020
Survey	June/July 2020
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HIP III Design Revisions, 15% and 30% designs	December 2020
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## V – MINIMUM QUALIFICATIONS

### PROPOSAL SUBMITTAL CONTENT

To be considered responsive to this RFP, the Proposal shall include all items identified in Section II by the deadline specified in Section IV.

### PROPOSAL COVER AND COVER LETTER

Clearly label the Proposal cover and the subject line in the cover letter with “PROPOSAL for Cedar Valley Road Crossing Improvements.” The cover letter shall be limited to one page and shall identify the consultant name and contact person, their title, mailing address, email address, phone number, and the name of the proposed project manager.

### CONSULTANT TEAM STRUCTURE

Provide the team structure, identifying any sub-consultants, including names of lead persons with titles and general project responsibilities, and the physical location of each lead person.

### TEAM/PERSONNEL QUALIFICATIONS AND EXPERIENCE

The Proposal will be evaluated for the team and individual team member’s qualifications, general background, and experience in relation to the stated Scope of Work.

### PROJECT APPROACH

The Proposal will be evaluated based on the approach and proposed solutions for designing the culvert replacements.

## **PAST PERFORMANCES/REFERENCES**

References may be used to verify the accuracy of information provided in the Proposal. Provide three recent references who can be contacted concerning your firm's/team's RFP. In listing the references, include the name of the client, telephone number, e-mail address, contact person, and the specific work your firm did for the client. Also provide three recent references who may be contacted concerning the performance of your firm's/team's proposed project manager(s). The Yakama Nation reserves the right to contact references other than those submitted by the respondent.

## **FEE SCHEDULE**

The Proposal will be evaluated on the costs associated with the design work. Please include:

- A. Hourly rate by position classification and estimated hours per task
- B. Charges for equipment, printing, or other costs
- C. Direct expenses (if applicable)

## **VI - SELECTION PROCESS & EVALUATION CRITERIA**

Each contractor shall provide references and/or other information related to their proposal that demonstrates their past performance. The owner (Yakama Nation) shall evaluate the qualifications of bidders. The owner shall have the sole discretion and responsibility for choosing the responsive and responsible contractor.

Bids will be evaluated based on the following criteria:

- A. Fee Schedule
- B. Relevant Firm Experience
- C. Project Approach
- D. Qualification of assigned staff
- E. References

## **VII – APPENDICIES**

Appendix A: Yakama Nation Consultation Services Sub Contract

This document will be required of the successful contractor, please review prior to submitting your proposal.