Dear Contractor:  

November 5, 2020

The Yakama Nation’s Upper Columbia Habitat Restoration Project is requesting new bids for construction of a Salmon Habitat Enhancement Project to be implemented along the mainstem of Nason Creek in July of 2021. The project will involve all work elements and specifications found in the Project Plans attached to this bid packet.

Please note that the Nason Confluence Project was initially scheduled to be implemented in 2020, and a competitive bid process for this same scope of work was completed in June 2020, including a well-attended virtual pre-bid meeting with the design engineer. Unfortunately, due to the COVID-19 pandemic, the 2020 project timeline was canceled and no contract was formally awarded during the earlier bid process. However, because we recently conducted a pre-bid meeting with the design engineer for this project, and there are currently no changes to the project scope of work from the 2020 implementation plans, we are proceeding with a new bid process for this project with no new pre-bid meeting being provided. The project implementation dates have now been changed to fit the in-water work window in the summer of 2021, and the notes from the April 22, 2020 pre-bid virtual meeting are provided with this bid packet to assist potential bidders.

If you are interested in an award for this contract please complete and submit by the close of business on Wednesday, December 2, 2020, a signed copy of the attached Nason Confluence Project Bid Sheet, along with the required supporting documentation. Please specify in writing on the bid sheet that prices will be valid for at least 180 days. All competitive bid materials must be delivered by the United States Postal Service via certified mail to:

Yakama Nation Fisheries  
Attn: Jackie Olney  
RE: Nason Confluence 2021 Construction Bid  
PO Box 151  
Toppenish, WA 98948

We recommend getting completed bids in the mail by November 24, 2020, to ensure delivery on time. We also recommend that you email Jason Breidert (brej@yakamafish-nsn.gov) a digital copy of your final bid documents as well as a copy of your certified mail certificate for proof of submission.
Major portions of the project will be conducted between **July 1st to July 31st, 2021**, to coincide with the permitted in-water work windows negotiated with NOAA, USFWS, and WDFW for this project. The full project will occur when ESA-listed juvenile and adult salmon and steelhead may be present in or near the project area so turbidity control via cofferdam systems will be of the utmost importance. The winning contractor will understand the magnitude of this project and be equipped to perform all necessary elements for a project of this type within a critical habitat stream. The winning contractor will have extensive experience in the following: building cofferdams, de-watering construction areas following NMFS fish screening protocols, constructing log jams, excavating engineered channels, and minimizing disturbance around regulated waterbodies, wetlands, and critical areas.

All contractors submitting bids for this project shall provide and/or demonstrate, at a minimum, the following:

- **A list of experienced equipment operators that will be on-site during project construction.**
  
  Please provide details of their work on in-stream habitat enhancement structures within the past several years.

- **A detailed construction timeline of how you propose to get all project tasks completed within the stated project timeline.**

- **Experience and preferably examples of the ability to create de-watered work areas through the use of coffering techniques.** A cofferdam and surface water diversion plan should be submitted with the bid documents.

- **A list of key pieces of heavy equipment that will be used in construction of the project.**

Please note:

- Davis Bacon Wages apply to this contract. The winning contractor will adhere to the Davis Bacon rules and comply and submit all necessary paperwork to the Yakama Nation.

- The Yakama Nation is exempt from state taxes on this project. Please see the attached Treaty Fishery Exempt Cover Letter and Treaty Fishery Exempt Certificate. The winning contractor will receive signed copies for their records.


- This project will occur on National Forest public lands that are accessible to the public, however parking near the project area may be no private lands that require landowner consent for access.

- Awarded contractor must provide “san-i-can” service.
The attached template Construction Services Agreement provides an overview of the scope of work likely to be incorporated into the awarded contract. Please make note of specific provisions provided in this Construction Services Agreement, including the detailed Exhibits, that may be in addition to the specifications and directions found in the Project Planset.

**The following categories will be used to evaluate the competitiveness of bids received:**

- Demonstrated experience with this type of work – 15%
- Demonstrated quality of work – 15%
- Cost – 15%
- Schedule – 10%
- Company integrity/references – 10%
- Demonstrated experience with permitting agencies in the Upper Columbia Region – 10%
- Adequacy/quality of staff and equipment proposed – 15%
- Completeness of Proposal (Based on RFP Submission Requirements) – 10%

Also, please note that this project is pending on permitting and final landowner permission. The Yakama Nation reserves the right to accept or reject any and all of the proposals received as a result of this request, or to cancel in part or entirely this request if it is in the best interest of the Yakama Nation to do so. This request does not commit the Yakama Nation to pay any costs incurred in the preparation of a proposal.

It is also important to note that current and on-going COVID-19 pandemic related shut downs and travel restrictions have the potential to affect all 2021 Yakama Nation habitat enhancement projects. Yakama Nation Fisheries is attempting to bid and award habitat construction contracts for the 2021 field season assuming that such work be able to be conducted without violating any pandemic related rules and regulations; however there is risk that COVID-19 related restrictions will preclude 2021 projects from occurring despite the results of this bid process.

For questions regarding this project please feel free to contact me at the mobile number listed below.

Sincerely,

Jason Breidert  
Yakama Nation Fisheries Habitat Biologist II  
1885 S. Wenatchee Ave.  
Wenatchee, WA. 98801  
Mobile: 509-860-5351  
Desk: 509-423-7613  
Fax: 509-423-7616  
brej@yakamafish-nsn.gov
April 22, 2020 (12:00-1:00 PM) Pre-Bid Meeting Notes

- Work Window Clarification – July 1-31
- USFS Land, but do not trespass on Headwaters property
- Nason Creek and Plain DOE water flow gauges for reference
- Access routes, limits of disturbance, and staging areas will be clearly marked
- Pile top need to appear broken
- Pull-out tests require on up to 10% of piles and bring a tensiometer
- Log to log connections use threaded rod
- See plans for all specifications
- Temporary access road needs to be decommissioned to prevent motor vehicle access after construction
- Revegetation Contractor will drop off seed for use in FESLs during construction
- Revegetation Contractor will drop off planting materials during construction
- Contractor will be responsible for laying down weed free, seed free straw.

- The Engineer’s 2020 Construction Plans mistakenly reference the 2018 Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction applicable to the construction specifications. This correct applicable version of the WSDOT Standard Specifications for this project is the 2014 version provided on the Yakama Nation Fisheries RFP webpage.
**BID PROPOSAL for Nason Confluence Habitat Project** Please refer to the engineer’s stamped project plan set, the supplemental specifications, and associated documents in the request for bid packet to produce your competitive bid.

### General Construction Bid Items

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Extended Price</th>
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<td>325</td>
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**TOTAL** (do not include tax)

Note: Construction of this project is tax exempt through the Treaty Fishery Tax Exemption Certificate.

### Certification

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Date Prepared</th>
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<table>
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<tr>
<th>Printed Name and Title</th>
<th>Signature</th>
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By signing and submitting this form you are agreeing to honor the completed competitive bid for a period of up to 180 days from the date this form was prepared.
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<tr>
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<tr>
<td>15</td>
<td>Example: 160 Series Excavator</td>
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CONSTRUCTION SERVICES AGREEMENT

BETWEEN:

THE CONFEDERATED TRIBES AND BANDS OF THE YAKAMA NATION
on behalf of its program or department
P.O. Box 151 / 401 Fort Road
Toppenish, WA 98948
General Phone: (509) 865-5121
Program Phone:
(HEREAFTER “YAKAMA NATION”)

AND

[CONTRACTOR NAME]
Address Line 1
Address Line 1
Phone:
(HEREAFTER “CONTRACTOR”)

This Construction Services Agreement (“Agreement”) is executed by and between Contractor and Yakama Nation, a federally recognized sovereign Nation pursuant to the Treaty with the Yakamas of 1855 (12 Stat. 951). Contractor and Yakama Nation may be collectively referred to herein as the “Parties,” and each may be referred to as a “Party.”

1. TERM

The effective term of this Agreement shall be from _____ through _____, absent a valid termination action in accordance with the express terms of this Agreement.

2. PERFORMANCE

Contractor agrees to perform the services set forth in the attached scope of work, Exhibit “A” (collectively, the “Services”), which is incorporated by reference in this Agreement.

3. COMPENSATION

A. *Maximum Compensation*. The total compensation amount approved by Yakama Nation for this Agreement is limited to, and shall not exceed _____ ($____); which amount shall include any and all compensation for the Services as described herein and set forth in detail in the budget attached as Exhibit “B”. If Exhibit “B” describes separate and specific maximum compensation amounts for services and expenses, then at the end of the term of this Agreement, any remaining balance in the amount allocated for expenses may be used by Yakama Nation, at
its sole discretion, to cover fees for authorized services, so long as the total compensation amount set forth above is not exceeded.

B. **Invoicing, Progress Reports and Payment of Compensation.** Yakama Nation shall compensate Contractor according to the billing rate(s) and/or fee schedule(s) set forth in Exhibit “C” in an amount not to exceed that stated above. Contractor shall submit monthly invoices and appropriate supporting documentation to Yakama Nation, including a progress report that provides a brief summary of daily activities associated with services performed and completed by Contractor. Unless the Parties agree in writing to different terms, invoice periods shall begin on the first day of each month and end on the last day of each month. Invoices shall be submitted by Contractor to Yakama Nation’s designated staff contact within fifteen (15) days after the end of the month in which the services were provided and/or expenses were incurred. Contractor waives the right to receive full payment on invoices submitted more than sixty (60) days following the end of the proper invoice period. If a question or concern arises regarding an item on an invoice, Yakama Nation shall notify Contractor of the question or concern. Within five (5) business days following such notification, Contractor shall take action to sufficiently explain or correct the item, or Contractor shall be deemed to have waived their right to demand payment for the item.

C. **Availability of Funds.** Notwithstanding any other provisions of this Agreement, Contractor understands and agrees that compensation for services and expenses under the terms of this Agreement shall be contingent upon the availability of funds (a) placed to the credit of Yakama Nation in the Treasury of the United States, (b) appropriated by Congress, or (c) from local funds maintained in the name of Yakama Nation.

D. **Federal & Grant Funds.** Contractor understands and agrees that agreements and contracts funded by federal funds or other grant funds may be subject to certain legal requirements. These may include, but are not limited to, those requirements set forth in the United States Office of Budget Management’s Uniform Guidance, 2 C.F.R. Part 200, and/or the terms of an applicable source grant. Contractor agrees to comply with and utilize funds in accordance with all applicable laws, regulations, and guidelines, and with any applicable grant or contract terms, and further understands and agrees that the use of such funds may be subject to audit by the grantor agency. Contractor shall reimburse Yakama Nation for any costs of Contractor that are disallowed by a grantor.

4. **PROPERTY DEVELOPED BY CONTRACTOR**

Contractor agrees that it will retain no interest in the information, data, proposals, papers, copyrights, patents, or any other material or property developed, discovered, invented, and/or accumulated by Contractor in connection with the performance of this Agreement. Subject to applicable law, Contractor shall turn over such information, data, proposals, papers, copyrights, patents, discoveries, inventions, and other material or property to Yakama Nation upon the expiration or termination of this Agreement or upon request.

5. **PUBLICATION OF INFORMATION**
The dissemination or publication of documents, information material or other property developed or generated by Contractor during the course of this Agreement shall require the written approval of Yakama Nation.

6. RECORDS

A. Access. Subject to applicable law, Yakama Nation will provide Contractor with reasonable access to its personnel, facilities, and records necessary to the performance of this Agreement.

B. Maintenance & Retention of Records; Financial Management for Accounting and Audits. Contractor shall maintain and retain auditable records during the term of this Agreement and for a period of at least three (3) years following the expiration or termination of this Agreement. Contractor shall maintain its records to comply with the Audit Act of 1984, P.L. 98-502 (31 U.S.C. § 7501 et. seq., as amended) and the Office of Management and Budget’s Uniform Guidance requirements set forth at, 2 C.F.R. part 200, Subpart F, as amended. Contractor shall adhere to a systematic accounting method that assures timely and appropriate resolution of audit findings and recommendations in compliance with the Uniform Guidance. Subject to applicable law, Contractor agrees that Yakama Nation, the grantor agency (if applicable), the Comptroller General of the United States, or any of their duly authorized representatives, shall have timely access to Contractor’s records which are pertinent to the subject matter of this Agreement and the performance of obligations contained herein, for the purpose of conducting an audit and/or examination, and/or creating excerpts and/or transcriptions.

7. INDEPENDENT CONTRACTORS

Contractor shall employ, at its own expense, all personnel and equipment reasonably necessary to perform the Services called for by this Agreement. Such personnel shall not be considered Yakama Nation employees. Contractor shall be responsible to ensure that all personnel engaged in performing Services are fully qualified to undertake the work in accordance with applicable tribal, federal, state, and local laws. Contractor shall at all times in performance of this Agreement operate as, and have the status of, an independent contractor, and will not be an agent or employee of Yakama Nation; nor will Contractor or its personnel be entitled to any employee benefits provided by Yakama Nation. The Parties are not engaged in a joint venture or partnership. Neither party can represent or bind the other. Unless otherwise expressly agreed, Contractor shall be solely responsible to secure and pay for any necessary or appropriate permits, fees, licenses, inspections, or other prerequisites necessary for proper performance of the Services called for by this Agreement.

8. SUBCONTRACTING

A. Contractor shall not be permitted to hire a subcontractor to perform the Services called for by this Agreement without express prior written consent. Any unauthorized attempt by Contractor to subcontract for such Services shall be null and void, and Contractor shall be responsible for all expenses, fees, and costs associated with any such unauthorized subcontract.
B. An award of this Agreement based on a bid or proposal naming specific subcontractors and identifying the portions of the work to be performed by the subcontractors shall constitute prior written consent to the hiring of the named subcontractor(s). Subcontractor selection and subcontractor employment shall be subject to applicable TERO and Indian Preference requirements described above. Contractor shall be responsible to ensure their subcontractors are in compliance with Yakama Nation TERO and Indian Preference requirements.

9. ASSIGNMENT OF INTEREST

Contractor shall not assign its interest in this Agreement, or any part thereof, including its right to receive payment for services performed, to another party. Any attempt by Contractor to assign any obligations, rights, or fees under this Agreement will be null and void, and Contractor shall be responsible for all expenses, fees, and or costs associated with any unauthorized assignment.

10. INDEMNIFICATION

Contractor shall, at its sole expense, hold harmless, indemnify, and defend Yakama Nation and its officers, agents, employees, and assigns against any and all losses, costs, damages, expenses or other liabilities whatsoever, including reasonable attorney’s fees and expenses, that arise out of or are connected with, directly or indirectly, Contractor’s actions or omissions, or Contractor’s agents’ acts or omissions related to this Agreement, including, but not limited to, accidents or injuries to persons or property.

11. SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK

A. Contractor acknowledges that it has taken steps reasonably necessary to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to:

   (1) Conditions bearing upon transportation, disposal, handling, and storage of materials;
   (2) The availability of labor, water, electric power, and roads;
   (3) Uncertainties of weather, river stages, tides, or similar physical conditions at the site;
   (4) The conformation and conditions of the ground; and
   (5) The character of equipment and facilities needed preliminary to and during work performance.

Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done by Yakama Nation and information available to the public from local government agencies, as well as from the drawings and specifications made a part of this Agreement. Any failure of Contractor to take the actions described and acknowledged in this paragraph will not relieve Contractor from responsibility for properly estimating the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to Yakama Nation.
B. Yakama Nation assumes no responsibility for any conclusions or interpretations made by Contractor based on the information made available by Yakama Nation. Nor does Yakama Nation assume responsibility for any understanding reached or representation made concerning conditions that can affect the work by any of its officers or agents before the execution of this Agreement, unless that understanding or representation is expressly stated in this Agreement.

12. PHYSICAL DATA

Data and information furnished or referred to below or in the attached exhibits is for Contractor’s information. Yakama Nation shall not be responsible for any interpretation of or conclusion drawn from the data or information made available to Contractor. Further, Yakama Nation specifically does not warrant construction methodology that may be included in such documents.

(a) The indications of physical conditions on any drawings or specifications that have been provided are the result of general inspection of the site. [if applicable, insert a description of investigational methods used, such as surveys, auger borings, core borings, test pits, probing, test tunnels, etc.].

(b) [Write “n/a” or insert other pertinent information].

13. SCHEDULE FOR CONSTRUCTION

A. Construction Schedule. Unless the construction schedule is specifically addressed elsewhere in this Agreement, Contractor shall, within five (5) days after the work commences on the Agreement or another period of time determined by Yakama Nation, prepare and submit to Yakama Nation three (3) copies of a practicable schedule showing the order in which Contractor proposes to perform the work, and the dates on which Contractor contemplates starting and completing the several salient features of the work (including acquiring materials, plant, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion each week during the Agreement period. If Contractor fails to submit a schedule within the time prescribed, Yakama Nation may withhold approval of progress payments until Contractor submits the required schedule. Should Contractor fall behind its schedule, a revised schedule shall be forwarded with the next Contractor’s request for progress payment. Additional schedules shall be furnished to Yakama Nation as soon as practicable if so requested.

B. Rate of Progress. With any and each partial payment request, Contractor shall submit a copy of the last submitted schedule annotated to indicate actual progress made to date. If at any time, in the opinion of Yakama Nation, Contractor has fallen behind the schedule to an extent which would jeopardize timely completion, Contractor shall take the steps necessary to improve its progress, including those that may be required, to enable timely completion without additional cost to Yakama Nation. Such steps may include, but are not limited to, increasing the number of shifts, the amount of overtime, days of work per week, and/or the amount of construction plant being utilized. Contractor shall submit any supplementary schedules Yakama Nation deems
necessary to demonstrate how the rate of progress necessary for timely completion will be regained.

C. **Breach.** Failure of Contractor to comply with the requirements of this section shall be considered a material breach and grounds for a determination by Yakama Nation that Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the Agreement. Upon making this determination, Yakama Nation may terminate Contractor’s right to proceed with the work, or any separable part of it, in accordance with the default terms of this Agreement.

14. **DIFFERING SITE CONDITIONS**

Contractor shall promptly, and before the conditions are disturbed, give a written notice to Yakama Nation of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this Agreement, or (2) unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent to the type of work provided for in the Agreement. Unless specifically identified in the Agreement, discoveries of archaeological or historical remains such as graves, fossils, skeletal materials and artifacts protected by the Archaeological Resources Protection Act (36 CFR 1214) are considered type 2 conditions.

15. **LAYOUT OF WORK**

Contractor shall lay out its work from Yakama Nation established base lines and bench marks indicated on the drawings or any other manner furnished by Yakama Nation. Contractor shall be responsible for all measurements in connection with the layout. Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. Contractor shall be responsible for the execution of the work to the lines and grades that may be established or indicated by Yakama Nation. Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by Yakama Nation until authorized to remove them. If such marks are destroyed by Contractor or through its negligence before their removal is authorized, Yakama Nation may replace them and deduct the expense of the replacement from any amounts due or to become due to Contractor.

16. **SPECIFICATIONS, DRAWINGS AND MATERIAL SUBMITTALS**

A. Omissions from any drawings and specifications that have been provided, or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve Contractor from performing such omitted or misdescribed details of the work. Work shall be performed as if fully and correctly set forth and described in the drawings and specifications.

B. Contractor shall check all drawings furnished by Yakama Nation prior to starting work and shall promptly notify Yakama Nation of any discrepancies. Figures marked on drawings shall in general be followed in preference to scale measurements. Large-scale drawings shall in general govern small-scale drawings. Contractor shall compare all drawings and verify the
figures before laying out the work, and will be responsible for any errors which might have been avoided thereby.

17. MATERIAL & WORKMANSHIP

A. Materials. All equipment, material, and articles incorporated into the work covered by this Agreement shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this Agreement. Use of recycled materials for the manufacture of such products is encouraged. Equipment, material, or articles specified by trade name, make, or catalog number, shall be provided. Equivalent items are not acceptable unless specifically authorized in the specification.

B. Professional Work. All work under this Agreement shall be performed in a professional, thorough, skillful, and safe manner, and shall be consistent with relevant professional standards. Yakama Nation may require, in writing, that Contractor remove from the work any employee Yakama Nation deems incompetent, unsafe, or otherwise objectionable.

C. Legally Compliant Work. In performing its obligations under this Agreement, Contractor shall comply with all applicable tribal, federal, state and local laws, regulations, guidelines and policies in performance of services under this Agreement. Such laws may include, but are not limited to, the Davis Bacon Act and related federal labor law requirements associated with federally funded construction projects. Contractor represents that it has reviewed, and is familiar with, all laws relevant to the performance of services under this Agreement.

18. SUPERINTENDENCE BY THE CONTRACTOR

At all times during performance of this Agreement, and until the work is completed and accepted, Contractor shall directly superintend the work or assign and have on the worksite a competent superintendent who is satisfactory to Yakama Nation and has authority to act for Contractor.

19. PERMITS AND RESPONSIBILITIES

Unless otherwise provided in this Agreement, Contractor shall, without additional expense to Yakama Nation, be responsible for obtaining any and all necessary licenses and permits, and for complying with any tribal, federal, state, and municipal laws, codes, and regulations applicable to the performance of the work. Contractor shall also be responsible for all damages to persons or property that occur as a result of Contractor’s fault or negligence, and shall take proper safety and health precautions to protect the work, the workers, the public, and the property of Yakama Nation and others. Contractor shall also be responsible for all materials delivered and work performed until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under this Agreement.

20. OTHER CONTRACTS
Yakama Nation may undertake or award other contracts for additional work, or may utilize in-house construction forces, at or near the site of the work. Contractor shall fully cooperate with such other contractors and Yakama Nation employees, and carefully adapt scheduling and performance of the work under this Agreement to accommodate simultaneous performance, heeding any direction that may be provided by Yakama Nation. Contractor shall not commit or permit any act which will interfere with the performance of work by any other contractors or by Yakama Nation employees.

21. USE AND POSSESSION PRIOR TO COMPLETION

Yakama Nation shall have the right to take possession of or use any completed or partially completed part of the work call for by this Agreement. Before taking possession of or using any work, Yakama Nation shall furnish Contractor a list of items of work remaining to be performed or corrected on those portions of the work that Yakama Nation intends to take possession of or use. However, failure of Yakama Nation to list any item of work shall not relieve Contractor of responsibility for complying with the terms of this Agreement. Yakama Nation’s possession or use shall not be deemed an acceptance of any work under this Agreement.

22. CLEANING UP

A. Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. Before completing the work, Contractor shall remove from the work and premises any rubbish, tools, scaffolding, equipment, and materials that are not the property of the owner of the underlying real property. Upon completing the work, Contractor shall leave the work area in a clean, neat, and orderly condition satisfactory to Yakama Nation.

B. Unless specifically set forth in the Agreement, Contractor shall not burn any material on site, on the right-of-way or on the access roads to the sites. All material and debris shall be hauled to an appropriate disposal site.

23. ROAD MAINTENANCE

Contractor shall maintain all roads used by it, and upon completion of the job shall leave them in as good a condition as when first used. A road-grading machine (not a bulldozer) shall be used for maintenance and final grading. In no event shall Contractor interfere with the property owner’s use of roads existing prior to Contractor’s entry.

24. STOP WORK ORDER

A. Yakama Nation may order Contractor to suspend all or any part of the work call for by this Agreement for the period of time that Yakama Nation determines appropriate for the convenience of Yakama Nation.

B. Contractor shall immediately comply with Yakama Nation’s order and take all reasonable steps to minimize the incurring of costs allocable to the work covered by the order.
25. PROTECTION OF EXISTING VEGETATION, STRUCTURES, AND IMPROVEMENTS

A. Contractor shall preserve and protect all structures, equipment, utilities, other improvements, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this Agreement. Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during performance of this Agreement, or by the careless operation of equipment, or by workers, Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by Yakama Nation’s representative.

B. If Contractor fails or refuses to repair the damage promptly, Yakama Nation may have the necessary work performed and charge the cost to Contractor.

26. INSURANCE

A. The following minimum kinds and amounts of insurance are applicable in the performance of the work under this Agreement. Contractor shall (subject to applicable law) maintain such insurance, naming Yakama Nation as an additional insured:

   (1) Workers’ compensation and employer’s liability. Contractor is required to comply with applicable Federal and State workers compensation and occupational disease statutes. Employer’s liability coverage of at least $100,000 shall be required.

   (2) General liability. Contractor shall provide general liability insurance of at least $1,000,000 per occurrence. Any policy aggregate limits which apply, shall be modified to apply to each location and project. The policy shall name Yakama Nation, its officials, officers, employees and agents, as insureds with respect to Contractor's performance of services.

   (3) Automobile liability. Contractor shall provide automobile liability insurance covering the operation of all automobiles used in the performance of this Agreement. Policies shall provide limits of at least $1,000,000 per accident and include coverage for all owned, non-owned and hired automobiles. Contractor’s policy shall be primary to any insurance of Yakama Nation.

   (4) Environmental impairment liability. Contractor shall provide environmental impairment liability insurance of at least $1,000,000 per occurrence. Such insurance will include coverage for the clean up, removal, storage, disposal, transportation and/or use of pollutants. The insurance policy shall name Yakama Nation, its officials, officers,
employees and agents as insured. Contractor’s policy shall be primary to any insurance of Yakama Nation.

B. Contractor may, with the approval of Yakama Nation, maintain a self-insurance program; provided that, with respect to workers’ compensation, Contractor is qualified pursuant to statutory authority.

C. Before commencing work under this Agreement, Contractor shall provide to Yakama Nation certificates of insurance from the insurance company stating the insurance required has been obtained and is in force. The certificate(s) shall identify Contractor and the contract(s) for which coverage is provided, and shall contain a statement that the insurer will give notice of cancellation or any material change to Yakama Nation at least thirty (30) days before the effective date. In addition, Contractor shall provide certificates as the policies are renewed throughout the period of this Agreement. If Contractor’s insurance does not cover the subcontractors involved in the work, Contractor shall provide certificates stating that the required insurance has been obtained by the subcontractors.

27. INSPECTION - SERVICES AND CONSTRUCTION

A. Yakama Nation may inspect the work called for by this Agreement at any time and place. Where possible and practicable, Yakama Nation will perform inspections in a manner that will not unduly delay the work.

B. If any of the services do not conform with the requirements of this Agreement, or with applicable laws, regulations or governmental policies, Yakama Nation may require the Contractor to perform the services again in conformity at no cost to Yakama Nation. When the defects in services cannot be corrected by re-performance, Yakama Nation may deduct from the Agreement payments an amount which reflects the reduced value of the services performed.

C. Neither inspection, lack of inspection, acceptance, nor payment shall relieve the Contractor of any of its obligations under this Agreement. Contractor’s duty to re-perform non-conforming work is intended to survive the expiration of this Agreement’s term, and shall apply even where non-conformance is discovered following its expiration.

D. If Contractor does not promptly replace or correct rejected work, Yakama Nation may (without limiting any other legal or equitable remedies available to it) (1) by contract or otherwise, replace or correct the work and charge the cost to Contractor, and may (2) terminate this Agreement for default.

E. Unless otherwise specified in the Agreement, acceptance by Yakama Nation will be in writing and shall be made as promptly as practicable after completion and inspection of all work called by this Agreement or that portion of the work Yakama Nation determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, non-compliance with applicable law, or Yakama Nation’s rights under any warranty or guarantee.
28. **WARRANTY - CONSTRUCTION**

A. In addition to any other warranties in this Agreement, Contractor warrants, except as provided in paragraph (H)(1) of this clause, that work performed by it and/or its subcontractors under this Agreement conforms to applicable law and to the contract requirements, and is free of any defect in equipment, material, or design furnished, or workmanship performed by Contractor or any subcontractor or supplier at any tier.

B. This warranty shall continue for a period of three (3) years from the date of final acceptance of the work. If Yakama Nation takes possession of any part of the work before final acceptance, this warranty shall continue for a period of three (3) years from the date Yakama Nation takes possession.

C. Contractor shall remedy at Contractor’s expense any failure to conform, or any defect. In addition, Contractor shall remedy at Contractor’s expense any damage to Yakama Nation-owned or controlled real or personal property, when that damage is the result of:

   - (1) Contractor’s failure to conform to applicable law or contract requirements; or
   - (2) Any defect of equipment, material, workmanship, or design furnished by Contractor.

D. Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. Contractor’s warranty with respect to work repaired or replaced will run for three (3) years from the date of repair or replacement.

E. Yakama Nation shall notify Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage.

F. If Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, Yakama Nation shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at Contractor’s expense.

G. With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this Agreement, Contractor shall:

   - (1) Obtain all warranties that would be given in normal commercial practice;
   - (2) Require all warranties to be executed, in writing, for the benefit of Yakama Nation, if directed by Yakama Nation; and
   - (3) Enforce all warranties for the benefit of Yakama Nation, if directed by Yakama Nation.
H. Unless a defect is caused by the negligence of Contractor or subcontractor or supplier at any tier, Contractor shall not be liable for the repair of any defects of material or design furnished by Yakama Nation nor for the repair of any damage that results from any defect in Yakama Nation-furnished material or design.

(1) This warranty shall not limit Yakama Nation’s rights under the Inspection and Acceptance clause of this Agreement with respect to latent defects, gross mistakes, or fraud.

29. TAXES

The compensation for Services performed under this Agreement shall include all applicable Tribal, Federal, State, and local taxes and duties. Depending on the location and nature of the Services provided, when applicable, Yakama Nation shall provide Contractor a single use Tax Exemption Certificate.

30. TERMINATION

A. Notice. Yakama Nation may terminate all or any part of this Agreement, at any time, with or without cause, upon written notice to Contractor. Upon receipt or the termination notice, Contractor shall promptly stop work on the terminated portion of the Agreement. Contractor obligations shall be consistent with those set forth above in the Stop Work Order clause of this Agreement.

B. Breach. In the event of termination for breach or violation of the terms and provisions of this Agreement, Yakama Nation, to the extent permitted by applicable law, shall be entitled to enforce its rights under this Agreement, and recover its court costs and reasonable attorney’s fees, as determined by the court. The foregoing shall not in any way limit or restrict any right or remedy at law or equity which would otherwise be available to Yakama Nation, including, but not limited to, the right to contract with other qualified persons to complete the performance of services identified in or called for by this Agreement.

C. Termination By Tribal Council Executive Committee. Notwithstanding anything herein to the contrary, Contractor understands and agrees that the Yakama Nation Tribal Council Executive Committee may immediately terminate this Agreement by written notice.

D. Effect of Complete Termination. Upon the complete termination of this Agreement, the liability of the Parties for the further performance of this Agreement shall cease, but the Parties shall not be relieved of the duty to perform their obligations up to the date of termination.

E. Effect of Partial Termination. The compensation amount shall be revised as a result of a partial termination under this section. On fixed-price contracts the revised amount shall not exceed the pre-termination contract price plus reasonable termination expenses. On cost-reimbursement contracts the revised amount shall not exceed the total of allowable and allocable costs of performance prior to termination plus termination expenses plus an adjustment of the fee on the terminated portion of the Agreement. No payment will be made for anticipated profits on
the terminated portion, or consequential damages, of this Agreement. Contractor shall submit a settlement proposal within thirty (30) days of the notice of termination.

31. FORC MAJEURE

This Agreement is subject to force majeure, and is contingent on strikes, accidents, acts of God, weather conditions, fire regulations, the actions of any government, including funding and/or budgetary decisions, and other circumstances which are beyond the control of the parties. If the terms and conditions of this Agreement are unable to be performed as a result of any cause of force majeure, then this Agreement shall be void, without penalty to any party for such non-performance.

32. NOTICE

Notice to Contractor shall consist of a letter, delivered postage prepaid, addressed to:

[Contractor’s Legal Agent’s Name]
[Contractor Name]
[Address No. 1]
[Address No. 2]

Notice to Yakama Nation shall consist of a letter, delivered postage prepaid, addressed to:

Delano Saluskin, Chairman
Yakama Tribal Council
PO Box 151 / 401 Fort Road
Toppenish, WA 98948

With courtesy copies to Yakama Nation’s Designated Representative detailed below, and the Lead Attorney of Yakama Nation’s Office of Legal Counsel at P.O. Box 150, Toppenish, WA 98948.

Either party may from time to time change its designated address for notice, or designated contact(s) for notice, by giving the other party reasonable notice of such change.

33. SUPERVISION OF CONTRACTOR/DESIGNATED REPRESENTATIVE

Contractor shall act under the supervision of the following Designated Representative of Yakama Nation in performing services under this Agreement:

<table>
<thead>
<tr>
<th>Name:</th>
<th>[First] [Last], [Job Title]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>Phone:</td>
<td></td>
</tr>
<tr>
<td>Email:</td>
<td></td>
</tr>
</tbody>
</table>
The Designated Representative is designated for project management purposes only, and does not have authority to authorize any changes, modifications or addendums to this Agreement, nor does the Designated Representative have signing authority on behalf of Yakama Nation. Yakama Nation shall provide Contractor reasonable notice if there is a change in the Designated Representative.

34. COMPLIANCE PROVISIONS

A. Discrimination. Contractor shall not discriminate against any employee or applicant for employment because of handicap, race, age, religion, or sex. Contractor will take affirmative steps to ensure that applicants are employed, and that employees are treated fairly during employment, without regard to their handicap, race, age, religion, or sex.

B. Indian Preference. Notwithstanding the above, Contractor shall, for all work performed on or near the Yakama Reservation pursuant to this Agreement, and consistent with Section 703(i) of the 1964 Civil Rights Act, give preference in employment (including any authorized subcontracts) to equally qualified Indians regardless of their handicap, age, religion or sex. To the extent feasible and consistent with the efficient performance of this Agreement, Contractor shall provide employment and training opportunities to Indians that are not fully qualified to perform under this Agreement, regardless of their handicap, age, religion or sex. Further, Contractor shall comply with any and all applicable Indian preference laws and requirements established by Yakama Nation, including those set forth in the Yakama Nation Tribal Employment Rights Ordinance (“TERO”), as amended (Yakama Revised Law & Order Codes, Title 71).

35. JURISDICTION & VENUE

The validity, interpretation, and performance of this Agreement, and any and all written instruments, agreements, specifications and other writings of whatever nature which relate to or are part of this Agreement, shall be governed by and construed in accordance with the laws of Yakama Nation. Both Parties understand and agree that this Agreement establishes a consensual business relationship between the Parties for purposes of Yakama Tribal Court jurisdiction. Venue of any court action filed to enforce or interpret the provisions of this Agreement shall be exclusively in Yakama Nation Tribal Court(s). In the event of litigation to enforce the provisions of this Agreement, the prevailing party shall be entitled to reasonable legal fees and expenses in addition to any other relief allowed.

36. DISPUTE RESOLUTION

A. Meet and Confer Meeting. In the event that a dispute arises between the Parties over the performance, interpretation, or enforcement of this Agreement, the Parties in the first instance shall attempt in good faith to resolve the dispute informally by mutual Agreement in a face-to-face meet and confer meeting. All offers, promises, conduct and statements, whether oral or written, made in the course of the meet and confer meeting by any of the Parties, their agents, employees, experts and attorneys shall be considered confidential, privileged and inadmissible for any purpose, including impeachment, in any other proceeding involving the Parties, provided
that evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or non-discoverable as a result of its use in the meet and confer meeting.

B. **By Tribal Council Chairman.** If the Parties are unable to resolve the dispute during the meet and confer meeting, the aggrieved party shall submit the matter, in writing, to the Chairman of the Yakama Nation Tribal Council. A copy of the aggrieved party's submission shall be served upon the other party in accordance with the notice provisions of this Agreement. The Chairman shall promptly convene a meeting of the Parties, which shall be held in Toppenish, Washington, to resolve the matter. The decision of the Chairman shall be final and binding upon both Parties. Provided, however, that nothing shall operate to limit or prohibit Yakama Nation from otherwise enforcing its rights under this Agreement. In the event that the Chairman has a conflict of interest that would prevent her/him from hearing the dispute, s/he may, at her/his sole discretion, either decline to hear the dispute, or appoint an alternate Tribal Leader or Elder to serve in his/her place.

C. Nothing in this section shall operate to prohibit Yakama Nation from enforcing its rights under this Agreement in a court of appropriate jurisdiction. Yakama Nation may at its own election seek recovery of monetary damages from Contractor’s breach of any terms in this Agreement.

37. **GENERAL TERMS**

A. **Headings.** Headings are provided for convenience and do not affect the meaning of the provisions to which they are affixed.

B. **Severability.** If any term of this Agreement is to any extent illegal, otherwise invalid, or incapable of being enforced, such term shall be excluded to the extent of such invalidity or unenforceability; all other terms hereof shall remain in full force and effect; and, to the extent permitted and possible, the invalid or unenforceable term shall be deemed replaced by a term that is valid and enforceable and that comes closest to expressing the intention of such invalid or unenforceable term.

C. **Changes to the Agreement.** No change, amendment, modification, or addendum to this Agreement shall be valid unless it is in writing and executed by authorized representatives of both Parties.

D. **Additional Services.** Except as otherwise provided in this Agreement, no payment for additional services shall be made unless such services and the price therefore have been requested and authorized in advance in writing by Yakama Nation.

E. **Survival.** The requirements of Section 4 (Property Developed by Contractor), Section 6 (Maintenance & Retention of Records; Financial Management for Accounting & Audits), Section 10 (Indemnification), Section 28 (Warranty-Construction) and Section 36 (Dispute Resolution) of this Agreement shall survive termination of this Agreement.
F. **No General Waiver.** Any waiver or failure of the Parties to enforce or insist upon any term in this Agreement does not constitute a general waiver or relinquishment of that term.

G. **No Construction Against Drafter.** Each party has participated in negotiating and drafting this Agreement. If any ambiguity or question of intent or interpretation arises, this Agreement is to be construed as if the Parties had drafted it jointly, as opposed to being construed against one party because it was responsible for drafting one or more provisions.

H. **Execution.** This Agreement may be executed in counterparts, electronically, or by facsimile.

38. **ENTIRE AGREEMENT**

This Agreement incorporates all the agreements, covenants and understandings between the Parties. No agreement or understanding, verbal or otherwise, of the Parties regarding their responsibilities under this Agreement shall be valid or enforceable unless embodied in this Agreement.

The following Exhibits are incorporated by reference into this Agreement:
- Exhibit “A” – Project Overview and Scope of Work
- Exhibit “B” – Budget
- Exhibit “C” – Payment
- Exhibit “D” – Project Planset
- Exhibit “E” – Intergovernmental Master Agreement 56662 ("IG-MA 56662"). The full text of IG-MA 55562 can be reviewed at:

39. **SOVEREIGN IMMUNITY**

Notwithstanding any other terms or provisions of this Agreement, Contractor understands and agrees that Yakama Nation, by entering into this Agreement, does **not** waive its sovereign
immunity from suit, nor does it waive, alter, or otherwise diminish its rights, privileges, remedies or services guaranteed by the Treaty with the Yakamas of 1855 (12 Stat. 951).

40. SPECIAL PROVISIONS

In addition to the forgoing terms and conditions, the following requirements are agreed to and shall apply to this Agreement:

A. Compensation under this contract is dependent upon the availability of funds to the Yakama Nation under Intergovernmental Master Agreement 56662 ("IG-MA 56662") between the Bonneville Power Administration and the Yakama Nation.

B. In addition to compliance with the other terms of this contract, Consultant shall comply with any and all requirements set forth in the IG-MA 56662 applicable to subcontractors. If Consultant is authorized under this Agreement to hire any subcontractors, Consultant shall ensure that their contracts also include requirements for compliance with the terms of the IG-MA 56662 applicable to subcontractors.

IN WITNESS WHEREOF, we set our hands and seals:

[Signature page(s) to follow.]
CONFEDERATED TRIBES & BANDS OF THE YAKAMA NATION:

By: ___________________________ Date: ___________________________
Name: Delano Saluskin (or authorized designee)
Title: Yakama Nation Tribal Council Chairman

CONTRACTOR NAME:
EIN #

By: ___________________________ Date: ___________________________
Name: ___________________________
Title: ___________________________
EXHIBIT A

Project Overview and Statement/Scope of Work

1. **Background:**

Yakama Nation Fisheries (Owner) is conducting a salmon habitat restoration project along Nason Creek known as the Nason Confluence Habitat Project. This project is funded through the Columbia River Fish Accords, which provides dedicated funding from Bonneville Power Administration to Yakama Nation Fisheries for the purposes of protecting and improving salmon habitat in the natal tributaries of the Upper Columbia Basin. This project has been developed under the 2007 Salmon Recovery Plan framework, in coordination with the Wenatchee Subbasin Watershed Action Team and the Upper Columbia Salmon Recovery Board Regional Technical Team.

The project has been developed by professional engineers. A stamped Engineer’s Construction Plan Set has been produced to describe the work being performed under this contract. Taken together, multiple accompanying Exhibits to this Exhibit A provide the full Scope of Work to be executed per the terms of this contract.

The attached **Exhibit B** provides the contract Line Item Budget which is referenced to the work tasks described in this Scope of Work, and **Exhibit C** provides a payment schedule and requirements. **Exhibit D** provides the Engineer’s Construction Plan Set and special provisions by which the work tasks are based.

2. **Location**

Coordinates:
Latitude: 47.808243 / Longitude: -120.716305

Section 28, Township 27N, Range 17E

3. **Project Tasks:**

All tasks will be completed as per **Exhibit D**. Major project elements include but are not limited to the following:

- 001 TESC, SPCC Plan and Implementation
- 002 Mobilization
- 003 Traffic Control
- 004 Clearing and Grubbing
<table>
<thead>
<tr>
<th>Task Code</th>
<th>Task Description</th>
</tr>
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<tbody>
<tr>
<td>005</td>
<td>Cofferdam and Diversion</td>
</tr>
<tr>
<td>006</td>
<td>Pumping</td>
</tr>
<tr>
<td>007</td>
<td>Side channel excavation and offsite disposal</td>
</tr>
<tr>
<td>008</td>
<td>LWM - installation (include: excavation and backfill)</td>
</tr>
<tr>
<td>009</td>
<td>Fabric encapsulated soil lift (FESL)</td>
</tr>
<tr>
<td>010</td>
<td>Seed and Mulch</td>
</tr>
<tr>
<td>011</td>
<td>Parking lot gravel surfacing (4 inch loose thickness)</td>
</tr>
</tbody>
</table>

4. **Project Schedule and Key Deliverables:**

This project will occur adjacent to private lands containing inhabited residences. Construction noise disturbances outside of normal work hours will not be allowed. Work producing construction noise should only be conducted between 6:30 am and 6:30 pm.

Environmental permits for this project require some work be performed during the normal in-water work window for Nason Creek to avoid adverse impacts to spawning salmonids and fertilized redds. Environmental permits will dictate the implementation timeline for portions of the project that could affect aquatic habitats. The typical in-water work window for this portion of Nason Creek is July 1 to July 31.

5. **Contractor Obligations:**

The Contractor shall furnish all supervision, labor, equipment and tools necessary to complete the project as described in Exhibit D.

6. **Consistent Satisfactory Progress**

Consistent satisfactory progress in this project will be required. Satisfactory progress will be measured by both the quality and quantity of work. If for any reason no work is performed, the Contractor may be given a notice of contract cancellation. Consistent satisfactory progress will also be determined by the Contractor’s demonstrated ability to perform all work tasks described in Exhibit D. If it appears that the Contractor is unable to complete the project tasks within the permitting work window, the Contractor may be given a notice of contract cancellation. The Yakama Nation’s designated representative will monitor progress closely.

7. **Fish Removal**

In-water construction activities will require fish removal of all isolated in-water work sites. Fish removal will be conducted in a timely manner by the Owner’s Designated Representatives and the time taken to implement proper fish removal protocols will be considered incidental to the contractor’s work tasks.
8. **Fire Suppression**

The contractor will be familiar with and prepared for the requirements associated with IFPL Levels II & III and the restrictions associated with those. The contractor may seek to acquire IFPL shut down exemptions to allow work to continue on schedule.

9. **Road Signage**

The Contractor will observe all road signage regulations regardless of the project location and as per Exhibit D if applicable.

10. **Utilities Location**

The Contractor will locate all utilities prior to any excavation.

11. **Communication with Landowners**

The Contractor expressly agrees that Contractor and his staff will not communicate with the Landowner in any manner, whether it be in regard to the project or otherwise, without express permission from, or the presence of the Designated Representative.

12. **Exclusivity**

During the term of this Agreement, including time taken for mobilization and demobilization of construction equipment, Contractor shall not conduct any work on the property designated in this Agreement unless so directed by the Designated Representative. Contractor shall require in all contracts with subcontractors that subcontractors not conduct any work on the property designated in this Agreement unless so directed by the Designated Representative. Any additional work conducted on the property designated in this Agreement by Contractor without the express consent of the Designated Representative shall constitute a material breach of this Agreement, thereby relieving the Yakama Nation from all payment obligations to the Contractor.

13. **Applicable Documents:**

[Attach the budget for the work to be performed. The total compensation amount shown in this budget must be consistent with the total compensation amount listed in Section 3 of the Agreement.]

[If there are separate subtotal amounts allocated for services and expenses, make sure to note these, along with any applicable hourly rate expectations, or item/activity cost expectations.]
EXHIBIT C

Payment

1. Payment Schedule

☒  Progress: The Contractor shall submit a separate bill for each major project task element after the work has been completed, reviewed and accepted by Yakama Nation’s Designated Representative. The Contractor is encouraged to invoice monthly when payment is necessary.

☒  Percentage: The Contractor shall invoice monthly and will be allowed to submit a bill for percentage of work completed after the work has been reviewed and accepted by Yakama Nation’s Designated Representative.

☐  Actual Work Completed: The Contractor shall invoice monthly and will be allowed to submit a bill for actual work completed.

☐  Alternative Schedule: The Contractor shall invoice and be allowed to submit a bill as follows: [alternate payment plan description, e.g., 30% deposit with balance due after work has been reviewed and accepted by Yakama Nation’s Designated Representative]

Invoices must include appropriate supporting documentation, which may include, but is not limited to, detailed expense receipts, Davis Bacon compliance, and a brief summary of activities associated with the Work performed by Contractor.

2. Tax Exempt Certificate

Due to the location and nature of the Services being provided by Contractor:

☐  The Contractor has not been given a Tax Exemption Certificate

☒  The Contractor has been given a single use Tax Exemption Certificate. Due to the nature of this Agreement, as set forth below, the Contractor should be allowed to use the tax-exempt certificate that is included with this document.

The Contractor shall be exempt from paying state taxes for work performed on salmon habitat restoration projects which the Yakama Nation directs and undertakes as co-manager of fisheries resources pursuant to the Treaty with the Yakama of 1855 (12 Stat.951).
WDFW IN-WATER WORK PERIODS

WORK SHALL OCCUR DURING THE PERMITTED IN-WATER WORK PERIOD STATED IN THE HYDRAULIC PROJECT APPROVAL.

EXISTING DATA


HYDRAULIC MODELING BY INTER-FLOVE USING USACE REA-CMP (5.03 SEPTEMBER 2016).

GIS DATA INCLUDING: AERIAL PHOTOGRAPHY, LAND-OWNERSHIP AND TRANSPORTATION ROUTES PROVIDED BY VARIOUS AGENCIES.

SOILS

BEVERLY VERY GRAVELY LOMMY FINE SAND, LEAVENWORTH FINE SANDY LOAM, AND ALLUVIUM.

FOUR SOIL PITS WERE DUG AND DOCUMENTED IN A MEMORANDUM (INTER-FLOVE, OCTOBER 2018) WHICH IS AVAILABLE FROM YAKAMA NATION.

UTILITIES

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING UTILITIES LOCATED Prior TO CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL CALL (800-424-5555) FOR UTILITY LOCATE PRIOR TO CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE AFFECTED UTILITY SERVICE TO REPORT ANY DAMAGED OR DESTROYED UTILITIES.

THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND LABOR TO AID THE AFFECTED UTILITY SERVICE IN REPAIRING DAMAGED OR DESTROYED UTILITIES AT NO ADDITIONAL COST.

CONSTRUCTION STAKING

OWNERS REPRESENTATIVE WILL PROVIDE STAKES OF PROJECT LIMITS, GRADE STAKES, AND ELEVATION CONTROL POINTS. SOME FIELD ADJUSTMENTS TO THE LIMITS AND GRADES ARE TO BE EXPECTED.

CONTRACTOR SHALL MEET WITH THE OWNER AND OWNERS REPRESENTATIVE TO DEFINE MARK LIMITS OF DISTURBANCE PRIOR TO MOBILIZATION OF EQUIPMENT OR MATERIALS ONTO THE SITE.

THE CONTRACTOR SHALL REPLACE DAMAGED OR DESTROYED CONSTRUCTION STAKES AT NO ADDITIONAL COST.

CONSTRUCTION MATERIALS

OWNERS PROVIDE LOGS, LOGS WITH ROOT WADS AND VERTICAL LOGS WILL BE LOCATED AT THE WINTON MILL.

LOCATION, ALIGNMENT, AND ELEVATION OF LOGS AND LOGS WITH ROOT WADS ARE SUBJECT TO ADJUSTMENT BASED ON FIELD CONDITIONS AND MATERIAL SIZE.

ANY EXCESS CONSTRUCTION MATERIALS SHALL BE NEARLY STORED AT AN APPROVED STAGING LOCATION. UPON COMPLETION OF THE PROJECT ANY EXCESS MATERIALS, WITH THE EXCEPTION OF ANY LARGE WOOD MATERIAL (LOAM), WILL BECOME THE PROPERTY OF THE CONTRACTOR AND HAZARD OFFSETS IN A TIMELY MANNER AND LEGALLY DISPOSED OF.

UPON PROJECT COMPLETION, THE CONTRACTOR WILL BE RESPONSIBLE FOR Hauling ANY EXCESS LOGS OFFSITE TO THE YAKAMA NATION'S APPROVED LOGS TERM WOOD STASHING AREA.

CONSTRUCTION ACCESS/TRAFFIC CONTROL

CONTRACTOR SHALL SUBMIT AN ACCESS, STAGING, AND STOCKPILE PLAN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO MOBILIZATION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING ANY REQUIRED TRAFFIC CONTROL OR ACCESS PERMITS.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ANY REQUIRED TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO, SIGNAGE AND FLAGGERS.

ALL SAPLINGS AND TREES TO BE PLANTATION OR REMOVED SHALL BE CLEARLY MARKED AND APPROVED BY THE OWNER AND OWNERS REPRESENTATIVE.

ALL EQUIPMENT, MATERIALS AND PERSONNEL SHALL REMAIN WITHIN THE LIMITS OF DISTURBANCE.

THE CONTRACTOR SHALL KEEP THE WORK AREAS IN A NEAT AND SIGHTLY CONDITION FREE OF DEBRIS AND LITTER FOR THE DURATION OF THE PROJECT.

CONTRACTOR SHALL IMPLEMENT MEASURES TO CONTROL AND MINIMIZE WIND BLOWN DUST FROM THE SITE AND ACCESS ROUTES.

AT PROJECT COMPLETION, ROADS AND ACCESS ROUTES SHALL BE CLOSED AND RESURFACED PRIOR TO PROJECT COMPLETION PERIOD. CONSTRUCTION TRAFFIC SPECIFICATIONS. CONSTRUCTION SHALL BE INCIDENTAL TO MOBILIZATION/DEMOBILIZATION.

ALL DISTURBED AREAS INCLUDING, BUT NOT LIMITED TO, ROADS, DRIVEWAYS, TEMPORARY ACCESS ROUTES, STAGING AREAS AND STRUCTURE LOCATIONS NEED TO BE RESTORED TO PRE-PROJECT CONDITION OR BETTER. THIS WILL INCLUDE, BUT IS NOT LIMITED TO ANY GROWING/BUILDING OF DISTURBED AREAS AS WELL AS REMOVAL OF ANY TRASH AND DEBRIS. THE CONTRACTOR'S REPRESENTATIVE WILL CONDUCT A FINAL WALK THROUGH WITH THE CONTRACTOR PRIOR TO DEMOBILIZATION.

A SEPARATE INDEPENDENT CONTRACTOR WILL HANDLE ALL RESTORATION EFFORTS POST PROJECT COMPLETION.

THE CONTRACTOR SHALL SUBMIT THE PLAN TO THE OWNER'S REPRESENTATIVE NOT LATER THAN THE DATE OF THE PRE-CONSTRUCTION CONFERENCE. NO-ON-SITE CONSTRUCTION ACTIVITIES MAY COMMENCE UNTIL THE CONTRACTOR'S AGENT ACCEPTS AN ESC PLAN FOR THE PROJECT.

EROSION CONTROL

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE, AT OWN EXPENSE, FOR PROVIDING AND MAINTAINING ALL NECESSARY EROSION CONTROL FACILITIES TO COMPLY WITH APPLICABLE EROSION CONTROL REGULATIONS AND TO MAINTAIN CLEAN ACCESS ROUTES FOR DURATION OF PROJECT.

DUST CONTROL

CONTRACTOR SHALL CONTROL AIRBORNE DUST BY MULCH, SLOWER VEHICLE SPEEDS, AND/OR WATERING, FOR THE DURATION OF THE PROJECT.

EROSION/SEDIMENTATION CONTROL PLAN

THE EROSION AND SEDIMENTATION CONTROL PLAN FOR THE WORK PERIODS PROVIDED IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES TO COMPLY WITH APPLICABLE REGULATIONS.

THE CONTRACTOR'S ESC RECORD


1. WHEN MAJOR GRADING ACTIVITIES OCCUR.
2. WHEN THERE IS A CHANGE IN THE DURATION OR MORE THAN 0.5 INCHES/24 HOUR.
3. WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON SITE, OR ON A PORTION OF THE SITE.
4. WHEN SEDIMENTATION MEASURES ARE IMPLETED ON THE SITE.

EROSION CONTROL MEASURES MAY BE AVAILABLE TO THE CONTRACTOR. THE CONTRACTOR'S ESC RECORDS ARE REQUIRED TO BE MAINTAINED ON SITE BY THE CONTRACTOR. THE CONTRACTOR'S ESC RECORDS ARE REQUIRED TO BE MAINTAINED ON SITE BY THE CONTRACTOR. THE CONTRACTOR'S ESC RECORDS ARE REQUIRED TO BE MAINTAINED ON SITE BY THE CONTRACTOR.

YAKAMA NATION FISHERIES
NASON CONFLUENCE
HABITAT ENHANCEMENT DESIGN Plan

305 Northaven Avenue, Suite 101
Hood River, OR 97031
541.386.9090
www.inter-fluve.com

GENERAL NOTES
STABILIZE SOILS AND PROTECT SLOPES

FROM MAY 1 THROUGH SEPTEMBER 30, ALL EXPOSED SOILS SHALL BE PROTECTED FROM EROSION BY MULCHING, HYDROSEED COVERING, OR OTHER APPROVED MEASURES WITHIN 3 DAYS OF GRADING. FROM OCTOBER 1 THROUGH APRIL 30, ALL EXPOSED SOILS MUST BE PROTECTED WITHIN 2 DAYS OF GRADING. SOILS SHALL BE STABILIZED BEFORE A WORK SHUTDOWN, HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SAMETEMPARY BARRIERS. ALL DISTURBED AREAS NOT INDICATED IN THE CONTRACT DOCUMENTS FOR OTHER PERMANENT STABILIZATION MEASURES AS SOON AS PRACTICAL.

DESIGN, CONSTRUCT, AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. REDUCE SLOPE WASHOUTS OR DISTURBED SLOPES BY PROVIDING TEMPORARY BARRIERS. STORMWATER FROM OFF-SITE SHOULD BE HANDLED SEPARATELY FROM STORMWATER GENERATED ON SITE.

AFTER FINAL SITE STABILIZATION

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE OR INCORPORATED INTO FINISHED GRADE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

RIVER DIVERSION

DIVERSION MAY BYPASS THE RIVER AROUND SMALLER WORK AREAS AT CONTRACTOR'S DISCRETION.

DEWATERING OF IN-CHANNEL WORK AREAS SHALL OCCUR CONCURRENTLY WITH FISH ESCAPE. CONTRACTOR SHALL COORDINATE WITH THE YAKAMA NATION FISHERIES FOR FISH ESCAPE.

FISH RESCUE

ALL FISH RESCUE EFFORTS SHALL BE PERFORMED BY A YAKAMA NATION FISHERIES/AQUATIC BIOLOGIST EXPERIENCED WITH THE COLLECTION AND HANDLING OF SALMONIDS FROM CONSTRUCTION SITES.

LIVE TREES

ALL TREES REMOVED WITHIN CLEARING LIMITS SHALL BE REMOVED WHOLE WITH ROOTBALL AND UTILIZED IN THE PROJECT CONSTRUCTION AS DIRECTED BY CONTRACTOR'S REPRESENTATIVE.

CONSTRUCTION DewaterING

IF ADDITIONAL PUMPING IS REQUIRED TO Dewater DURING CONSTRUCTION, PUMPED DISCHARGE SHALL RELEASE SEDIMENT-LADEN WATER AT AN UPLAND DISCHARGE LOCATION IN A MANNER THAT DOES NOT CAUSE EROSION, CONTAMINATION, OR INCREASE TURBIDITY OF SURFACE WATERS.

OWNERS REPRESENTATIVE SHALL APPROVE DewaterING LOCATION PRIOR TO IMPLEMENTATION.

CONTRACTOR SHALL PERFORM CONSTRUCTION DewaterING IN SUCH A MANNER AS TO AVOID THE RELEASE OF TURBID OR SEDIMENT-LADEN WATER IN ORDER TO PREVENT CONTAMINATION OR INCREASE TURBIDITY OF SURFACE WATERS. SEDIMENT-LADEN WATER MAY BE PUMPED TO AN UPLAND DISCHARGE LOCATION AND ALLOWED TO SHEET THROUGH EXISTING VEGETATION BEFORE INFILTRATING INTO THE GROUND. IF THIS METHOD IS NOT SUFFICIENT TO PREVENT RETURN OF TURBID WATER TO SURFACE WATERS, A 'DIRT-BAG' OR SEDIMENT RETENTION STRUCTURE MAY BE REQUIRED AS NEEDED TO COMPLY WITH LAWS AND PERMIT REQUIREMENTS AT NO ADDITIONAL COST.

CONTRACTOR WILL PROVIDE ANY PUMPS, HOSES AND FITTINGS NEEDED TO PERFORM THE DewaterING. THE PUMP EQUIPMENT SELECTED BY THE CONTRACTOR SHALL BE SUFFICIENT TO Dewater THE SITE SOLELY.

CONTRACTOR SHALL PROVIDE VISUQUEL OR GEOTEXTILE LINER, PLYWOOD, OR METAL PLATING AS NECESSARY TO Dewater PUMP DISCHARGE TO PREVENT EROSION.

WETLANDS AND WATERS OF THE US

THE WETLAND BOUNDARIES AND ORDINARY HIGH WATER (OHW) LINES DISPLAYED IN THIS DESIGN PACKAGE WERE DETERMINED BY INTER-FLOOD STAFF. THESE LINES ARE BASED UPON ANALYSIS, MODELLING, AND BEST PROFESSIONAL JUDGMENT. WETLAND DELINEATION COMPLETED BY INTER-FLOOD (DECEMBER 2021) IS AVAILABLE FROM YAKAMA NATION.


ABBREVIATIONS

<table>
<thead>
<tr>
<th>APPROX.</th>
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<tr>
<td>BMP</td>
<td>BEST MANAGEMENT PRACTICE</td>
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<tr>
<td>CY</td>
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<tr>
<td>DEGREE</td>
<td>DEGREE</td>
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<tr>
<td>DBH</td>
<td>DIAMETER AT BREAST HEIGHT</td>
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<tr>
<td>ESC</td>
<td>EROSION AND SEDIMENT CONTROL</td>
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<tr>
<td>FES</td>
<td>FABRIC ENCAPSULATED SOIL</td>
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<tr>
<td>FT</td>
<td>FOOT</td>
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<tr>
<td>GPM</td>
<td>GALLONS PER MINUTE</td>
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<td>LMM</td>
<td>LARGE WOODY MATERIAL</td>
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<tr>
<td>WSDOT</td>
<td>WASHINGTON STATE DEPARTMENT OF TRANSPORTATION</td>
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<td>YARD</td>
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SUMMARY OF QUANTITIES

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<th>DESCRIPTION</th>
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<tr>
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<tr>
<td>EROSION inf.</td>
<td>7 CY</td>
</tr>
<tr>
<td>TOTAL</td>
<td>104 CY</td>
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<tr>
<td>LARGE WOOD</td>
<td>43 EA</td>
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<tr>
<td>LOGS W/ROOTWDS: 18&quot; DBH X 40' LONG</td>
<td>21 EA</td>
</tr>
<tr>
<td>VERTICAL LOOS: 12'-15&quot; DBH X 20' LONG</td>
<td>33 EA</td>
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NOTE: EXCAVATION AND FILL VOLUMES ARE IN PLACE MEASURE. EXPANSION OF EXCAVATED MATERIAL AND COMPACTION OF PLACED MATERIAL IS NOT INCLUDED.

YAKAMA NATION FISHERIES
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HABITAT ENHANCEMENT FINAL DESIGN

GENERAL NOTES, QUANTITIES, AND ABBREVIATIONS

SHEET 3 OF 16
NOTES:
1) POTENTIAL TEMPORARY ACCESS ROUTE IS PENDING FURTHER NEGOTIATION.
2) AT PROJECT COMPLETION RESTORE SITE TO PRE-PRE-PROJECT CONDITIONS.
3) DECOMPACT SOILS, SPREAD SLASH, SEED AND MULCH.

NOTES, CONTINUED:
1) AT PROJECT COMPLETION, CONTRACTOR SHALL TOP DRESS PARKING LOT (AREA ~26,350 SQUARE FEET). BY:
   - GRADING SMOOTH EXISTING HUMPS AND POTHOLES
   - SMOOTHING EXISTING SURFACE
   - PLACE 4 INCH THICKNESS HDST1 STD SPECIFICATION 9-03.3(3) CRUSHED SURFACING LAYER TO COURSE
   - GRADE FLAT, TRANSITION LOSS TO EXISTING GROUND.
   - WET TO OPTIMUM MOISTURE CONTENT AND ROLLER COMPACT TO 95% STANDARD PROCTOR.

PLAN

YAKAMA NATION FISHERIES
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PROPOSED CONDITIONS
OVERVIEW, ACCESS AND STAGING

5 OF 16
SILT FENCES:

1. The silt fence shall be purchased in a continuous roll cut to the length of the barrier to avoid use of joints. When joints are necessary, overlap and interlock two posts with attached fabric as required to meet applicable regulations. Alternatively, silt fence fabric may be spliced together at a single support post, with a minimum 6-inch overlap, and both ends securely fastened to the post.

2. The silt fence shall be installed along the downstream perimeter of construction areas as required to meet regulations and permit requirements. The fence posts shall be spaced a maximum of 6 feet apart and driven securely into the ground a minimum of 18 inches.

3. The silt fence shall have a minimum vertical burial of 6 inches. All excavated material from silt fence installation shall be back-filled and compacted along the entire disturbed area.

4. Standard or heavy duty silt fence shall have manufactured stitched loops for 2 inches x 2 inches post installation.

5. Silt fences shall be removed when they have served their useful purpose, but not before the upland area has been permanently protected and stabilized, or as directed by owner’s representative.

BULK BAG NOTES:

1. Bulk bag cofferdam shall be constructed of several units of bulk bags filled with WOPW approved 3” minus washed gravel and arbluted side by side to create a row that isolates the construction site.

2. If water depth exceeds 85% of the bulk bag height, an additional top row of bulk bags shall be installed, supported by two bottom rows of bulk bags. Bulk bag cofferdam shall be sealed by covering the cofferdam with plastic sheeting held in place by standard sandbags placed in rows on top of cofferdam, and at toe of cofferdam.

3. The plastic sheeting shall be draped along the channel bottom on both sides of the cofferdam with outward edge of sheeting a minimum of 4 feet from toe of cofferdam. The draped portion of plastic sheeting shall be pinned to the channel bed by a minimum of two rows of standard sandbags.

4. Toeing in the outward edge of plastic sheeting may be necessary to prevent return of turbid water to the waterway.

5. If possible, the cofferdam shall be extended onto a gravel bar and out of the water. If the end must be terminated at the riverbank, the cofferdam shall be tightly sealed to the ground by plastic sheeting and standard sandbags. Multiple layers of sheeting and sandbags may be required to form a watertight seal.

6. Bulk bags shall be cube-shaped polypropylene woven fabric bags with fully open top, flat bottom, four loops, minimum 2-ton weight capacity, minimum S:S safety factor.

7. Plastic sheeting shall be minimum 6-mil thickness, roll length shall cover the entire cofferdam without seams. Minimum 12 ft wide roll shall be used for single layer bulk bag cofferdam. Minimum 16 ft wide roll shall be used for 2 layer stacked bulk bag cofferdam.

8. Bulk bag cofferdam shall be completely removed after construction is completed and turbidity has been removed. Bags, sheeting and gravel shall be hauled offsite.

9. Alternate cofferdam materials and configurations may be allowed but shall not be implemented without review and approval by the owner’s representative. Contractor shall provide shop drawings and/or venire cut sheets for substitutions.
VERTICAL LOGS

All vertical logs shall be installed using vibratory pile driving equipment. Installation by excavation or hammering shall not be allowed.

RIGGING

Rigging for vertical log testing shall conform to the tension scale manufacturer's recommendations.

Chokers, cables and shackles shall have minimum working load ratings of 12 tons. Fittings shall be sized accordingly.

TESTING

Testing of vertical logs shall be performed in the presence of the engineer.

Proof tests shall be made at up to four embedment depths for each vertical log. Depths shall be determined in the field. As a guideline test embedment depths may include 6', 8', 10', and 12'.

Each vertical log test shall have upward load gradually increased and as closely aligned to axis of log as possible. Record the log diameter, embedment depth and maximum force required to move the log vertically approximately 1 inch. Then drive the vertical log to a new depth to be determined by the engineer. Apply new load and record maximum force that causes the log to move vertically 1 inch. Repeat for third and fourth test.

Excavator conducting pull out loading shall be positioned no closer than embedment depth of vertical log if possible. If closer positioning is required, excavator shall be no closer than that required to generate desired load. Loadings with distance from vertical log noted in the test record. Limit compressive loading of the tracks on the ground by driving the excavator onto the load area and distributing the weight over a larger area.

Pull out resistance readings shall be compared against excavator max lift offset table.

10% of production vertical logs shall be proof tested. If results vary more than 10%, then it should be anticipated that up to 25% of the production vertical logs shall be proof tested.

BOLTS CONNECTION NOTES:

1. Bolts shall be minimum 3/8" diameter threaded rod, Grade A325 steel. Washers shall be square plate, 3/8" x 4" x 4". Nuts shall be heavy hex. All hardware shall be plain finish.

2. Drill 1/2" hole through logs.

3. Insert threaded rod.

4. Install plate washers and nuts, secure nuts by chiseling threads.

5. Remove sharp edges.

TYPICAL LOG-LOG CONNECTIONS

NOT TO SCALE

VERTICAL LOG PULLOUT TEST

NOT TO SCALE

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TYPICAL LWM DETAILS

11 OF 16
SUGGESTED CONSTRUCTION SEQUENCE FOR FABRIC WRAPPED LIFTS (END VIEW)

NOT TO SCALE

GENERAL INSTRUCTIONS FOR CONSTRUCTING FABRIC WRAPPED LIFTS

1. LIFTS WILL BE CONSTRUCTED TO ENCAPSULATE BACKFILL AND ARE ANTICIPATED TO BE ALONG THE FULL LENGTH OF THE BACKFILL IN THE MIDDLE RIVER SEDIMENT CHANNEL (SIDE CHANNEL 2) INLET 3AM.


4. PLACE COBBLE / GRAVEL / TOPSOIL FILL OVER THE FABRIC ON THE BANK SIDE OF THE FORMS TO A COMPACTED DEPTH OF 12 INCHES.

5. OWNER PROVIDED RIPARIAN SEED SHALL BE PLACED ON SOIL AND BENEATH FABRIC ON ALL EXPOSED SURFACES.

6. FOLD THE LOOSE ENDS OF THE TWO FABRIC LAYERS BACK OVER THE COMPACTED FILL MATERIAL, AND STRETCH TIGHTLY TO REMOVE WRINKLES (FIG. E). SECURE WITH WOODEN STAKES.

7. PLACE 3" OF TOPSOIL ON LIFT, REPEAT 2-5 TO FULL BANK HEIGHT.

8. ON THE TOP LIFT, ECLAVATE A KEY TRENCH 1.5 FEET WIDE AND 0.5 FEET DEEP ALONG THE EDGE OF THE OUTER FABRIC LAYER, PARALLEL TO THE FORMS. SECURE FABRIC IN THE KEY TRENCH WITH WOODEN STAKES.

9. BACKFILL & COMPACT THE KEY TRENCH WITH TOPSOIL AND CONTINUE TO APPLY TOPSOIL TO SMOOTHLY MERGE WITH EXISTING CONTOURS.
SECTION: FES CONSTRUCTED LIFT

FABRIC ENCAPSULATED SOIL (FES) CONSTRUCTED LIFT

NOTE: INSTALL TWO TIERS OF FES LIFTS ON Apex JAM.

ISOMETRIC: FES CONSTRUCTED LIFT

FABRIC ENCAPSULATED SOIL (FES) CONSTRUCTED LIFT

FABRIC EDGE

Not to Scale

FABRIC OVERLAP

Not to Scale

FABRIC LAYERING

Not to Scale

WOODEN STAKE CONSTRUCTION

Not to Scale

STREAMBANK CONSTRUCTION FABRIC

Not to Scale

SECTION: FES CONSTRUCTED LIFT

FABRIC ENCAPSULATED SOIL (FES) CONSTRUCTED LIFT

Not to Scale

YAKAMA NATION FISHERIES
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FABRIC-ENCAPSULATED
SOIL LIFT DETAILS

Sheet 13 of 16
GENERAL NOTES ON FABRICATION OF FORMS FOR FABRIC WRAPPED SOIL CONSTRUCTION

1. FABRICATE FORMS BY WELDING 1 INCH TUBULAR STEEL TOGETHER TO CREATE A 3' X 6' FOOT RECTANGULAR FRAMEWORK.

2. WELD LENGTHS OF 1/4 IN. STEEL STRAP AT 90 DEGREES TO THE FRAME EVERY 2 FEET.

3. ATTACH A PIECE OF 3/4 IN. PLYWOOD TO THE FRAME USING 1/4 INCH DIAMETER CARRIAGE BOLTS OR EQUIVALENT.

4. REMOVAL AND TRANSPORT OF THE FORMS IS FACILITATED IF HEAVY DUTY HANDLES ARE ATTACHED TO THE FRAME AS SHOWN.
DIVISION 2 - EARTHWORK
CLEARING AND GRUBBING

This item consists of clearing and grubbing for construction as shown on the plans including all areas required for temporary access routes and in accordance with Section 2-05 of the Standard Specifications, and as amended by these special provisions.

1. Areas for clearing and grubbing shall be the limit necessary and within the limits of disturbance shown on the plans. These areas will be flagged in the field by the owner prior to clearing and grubbing work. Clearing and grubbing shall not occur outside of the designated limits.

2. Clearing to river banks and riparian vegetation shall be minimized and shall only include those areas marked by the owner.

3. Included in this item are the removal and salvage of trees, varying in size. Salvaged trees shall be re-used as necessary material. Trees to be salvaged will be identified in the field by the owner's representative.

4. Shrubs removed during clearing and grubbing shall be used as slash during installation of LWM.

5. Vegetation protection and restoration per Section 1-07.16(2) shall be incidental to clearing and grubbing.

Measurements:
Removal and salvage of trees and shrubs shall be considered incidental to clearing and grubbing bid item. Measurement and compensation for the installation of salvaged trees shall be described under "LWM" and paid under that item. No additional compensation will be allowed.

"Clearing and Grubbing," including the above amendments to the item will be measured by lump sum.

B-31.4 Payment
Payment will be made in accordance with Section 1-09.9 for the following bid items: "Clearing and Grubbing" per lump sum.

COFFERDAM

This section is added.

B-31.5 Measurement
Measurement will be based on the item from the bid list installed and the work for that portion completed.

"Cofferdam" will be measured by lump sum.

B-31.5 Payment
Payment will be made in accordance with Section 1-09.9 for the following bid items: "Cofferdam" per lump sum.

PUMPING

This section is added.

B-32.1 Description
The work consists of furnishing, operating, maintaining, and removing pumps, and installation of control of water BMPs.

B-32.2 Materials
B-32.2.1 Minimum one Godwin Grifline 3" pump. Pumps shall run continuously as needed to prevent turbidity from entering the river. Pumps shall be soundproofed. Electric pumps with generators and quiet packs are a preferred and approved method. 300 feet of 3 inch discharge hose per pump.

B-32.2.2 One or more 2-inch (or larger) trash pumps, with at least 200 feet of discharge hose.

B-32.2.3 Environmental protection measures such as straw bales, perforated pipe for discharge flow distributors, gravel bags, silt fences, or other means of controlling water and turbidity. No turbidity shall be allowed to enter the river or surface waters.

B-32.3 Construction Requirements
B-32.3.1 Pumps
Groundwater and surface waters are expected to be encountered during excavations. Pumping shall prevent groundwater that has mixed with construction water from entering the river and downstream construction areas.

1. To help prevent turbidity from leaking through the cofferdams at the downstream end of the project, the contractor shall provide and operate pump(s), up to 3" in size, in lower the water surface within the isolated area and discharge to an infiltration area.

2. Construction water shall be pumped away from works areas and be infiltrated into the ground and without entering the waterway.

B-32.3.2 Environmental Protection Measures
If infiltration becomes an ineffective means to control turbidity, additional and alternative methods, such as pumping into stilling basins or filtration geotextile fabric shall be required at the contractor's expense.

B-32.4 Measurement
Measurement will be based on the item from the bid list installed and the work for that portion completed.

"Pumping" will be measured by lump sum.
LWM
This section is added.

B-3.3.1 Description
All references to large woody material (LWM), logs, logs with root wads, vertical logs; excavation; backfill; imported gravel/cobble with fines or topsoil; salvaged trees; or slash within the plans and these special provisions shall be considered work associated with this item. This item consists of installing LWM and includes movement from stockpiles to installation areas, excavation and backfill to partially bury LWM and installation of vertical logs as shown on the plans.

B-3.3.2 Materials
B 3-3.2.1 Logs
Logs shall be supplied by the owner and stockpiled at Winton Mill and consist of bare logs, logs with root wads, and vertical logs. Quantities of owner supplied logs are shown on sheet 3 quantities estimate.

B 3-3.2.2 Salvaged Trees
Trees flagged by the owner for clearing from the access route will be cleared from various species 60 in. DBH or greater.

B 3-3.2.3 Slash
Slash will be brush and small trees up to 6 in. DBH cleaned from the access route and excavation areas.

B-3.3 Construction Requirements
B 3-3.3.1 Locations of logs, logs with root wads and vertical logs shall generally be as indicated on the plans. However, final location will depend upon the site, shape and quantity of material delivered or salvaged. Installation of LWM shall be understood to require a ‘fit in the field’ approach as directed by the owner’s representative.

B 3-3.3.2 (L) UWM shall be stabilized as shown in the plans and directed by the owner’s representative.

B 3-3.3.3 Vertical logs shall be placed in approximate numbers indicated on the plans at specific locations in the field as directed by the owner’s representative. Vertical logs shall be installed using vibrators, pile drivers, equipment. Pre-approved equipment includes 1) HAM-MacVic sonic side grip Model 2PB 2) Grizzly MPG-13; or 3) approved equal. Installation by hammer pile driver, vibratory pile driver or excavation shall not be allowed. Vertical logs shall require embankment depth as indicated on the plans. Vertical logs shall be set as indicated on the plans. Vertical logs shall have broken tops, and diversity in angles and heights above ground to provide a natural appearance.

B 3-3.3.4 Slash shall be incorporated into LWM structures or spread onto the constructed surfaces.

B 3-3.3.5 Measurement: "LWM" will be measured by lump sum.
Measurement shall include all items required to place and install logs including but not limited to: 1) excavation and off-site disposal of native material unsustainable for backfill; 2) salvage or import of gravel and cobble mix with approximately 50% of fines or topsoil for burial of logs and 3) installation of LWM, logs with rootwads, vibratory driven vertical logs, vertical log testing and vertical log top treatments.

B 3-3.5 Payment
Payment will be made for the bid item "LWM" per lump sum.

The unit contract prices for “LWM” shall be full compensation for all costs incurred for equipment, materials and labor for installing and securing LWM as outlined in the plan.

Fabric Encased Soil (FES) Lifts
This section is added.

B-3.4.1 Description
All references to fabric encased soil (FES) lifts, FES lifts, FES pillars or FES shall include placement of biodegradable fabric encased soil lifts along the stream bank face within the back fill area for access to jack ram construction. FES lifts are a combination of excavations, backfill and wooden stakes arranged as shown on the plans. The contractor shall provide all labor, materials, and equipment necessary for the construction and installation of FES lifts as shown on the plans.

B-3.4.2 Materials
B 3-4.1 (1) Core Fabric
Core fabrics shall consist of 100% biodegradable materials. Nylon or synthetic fiber material in any of the core fabrics is not acceptable. Only those core fabrics specified will be accepted unless otherwise reviewed and approved by the owner.

B-3.4.3 Construction Requirements
FES Lifts shall be constructed as shown on the design plans and specified below.

1. FES Lifts shall be placed along the river bank to contain backfill over the apex jam.
2. Place forms along the bank in locations to achieve the lines and grades shown on the plans.
3. Roll woven core fabric along the streambank and place fabric against the substrate and vertical (form) face with embedding lengths as shown on the plans.
4. Roll non-woven core fabric along the streambank and place on top of the woven core fabric to achieve the embedment length shown on the plans.
5. Remove all wrinkles in core fabric and ensure that fabrics rest tightly against the substrate and form the face with the proper embedment lengths. Allow excess core fabric to drape over the form toward the stream channel.
6. Apply seed mix provided by the owner to that portion of non-woven core fabric that is placed against the vertical face of the form.
7. Place the aggregate soil and compact to 85% standard proctor. Soil lift shall be a maximum 1.0 foot thick.
8. Apply seed mix provided by the owner as shown on the plans to the soil lift.
9. Pull core fabrics that are draped over the form back over seeded soil. Pull core fabric tight and stake according to the specifications and plans.
10. Remove forms. Note, forms can be removed by hand, or prior with a bar if necessary. Contractor shall not use equipment to remove forms.
11. Repeat 2-10, above, to achieve the lines and grades shown on the plans.

Finished FES lifts shall have no loose core fabrics. Areas with loose core fabric shall be stabilized with draped woven stakes to hold core fabrics firmly to underlying soil. If core fabric soils are required around channel edges, the box shall be in the direction of flow and core fabric shall be staked at the edges.

B 3-4.4 Measurement
Measurement for FES Lifts shall be lump sum. All equipment, labor and materials required to complete FES lifts shall be incidental to “FES Lifts.”

B 3-4.5 Payment
Payment shall be lump sum for “FES Lifts.”
1. Introduction

Inter-Fluve and Wildlands completed soil pits and groundwater pump tests at the Nason Confluence site on April 12, 2018. Field investigations were completed to inform design for channel stability, groundwater levels and LWM installation. A stream flow of 479-cfs was recorded at noon at the Washington Department of Ecology gage on Nason Creek near the mouth (https://fortress.wa.gov/ecy/eap/flows/station.asp?sta=45J070#block2). A flow of 2,890-cfs was recorded at noon at the USGS gage on the Wenatchee River near Plain (USGS 12457000 Wenatchee River at Plain, WA).

Two test pits (Pits 1 and 2) were dug by Wildlands with a rubber tracked Takeuchi TB260 excavator to depths of 4-4.5 feet below ground (BG) on the river right floodplain. A pump test was completed at Pit 1. Two additional test pits (Pits 3 and 4) were dug by hand to depths of 2-3.5 feet BG by Wildlands on the river left floodplain. Four inch diameter PVC piezometers were installed in all pits. A surface water station was installed on river left in a 2inch black ADS pipe. A hobo to record atmospheric pressures was installed nearby at the Yakama Nation Natapoc property to also serve the hobo data loggers deployed at the YN Chiwawa Fan project.

Locations and elevations of the pits/piezometers, surface water recording station and an instantaneous water surface elevation opposite the surface water station were surveyed by Inter-Fluve with RTK and tied to prior project survey datum. Pit locations are shown on the Figure in the Appendix.

The following sections describe and document work completed and the results.

2. Soil pits and pump tests

2.1. PIT 1

Located near the upstream end of the proposed side channel along the river right floodplain, Soil Pit 1 was excavated to 4 ft BG. As shown on the soil profile graphic in the Appendix, soils from 0 to 1 ft BG is sand with gravel and some roots; 1 to 4 ft BG is small and medium cobble with some gravel and sand with some cobble to 6 inches. The sides of the pit readily caved in preventing excavating
any deeper. Water was encountered at about 1.6 ft BG. The soil profile graphic includes photos of the pit and alluvial material.

A pump test was conducted using a 2 inch trash pump. A level rod was used as a temporary staff gage to record the water level during pumping. Pump outlet discharge location was selected in the field to prevent turbid water entering surface waters or returning into the pit during pumping. One pump-drawdown trial was performed with pump discharge rate measured by length of time required to fill a 32 gallon trash can. At the time of the pump test, static water level was at a reading on the level rod of 1.75 ft. With the pump operated at an idle, water drawdown stabilized at a stage of 1.0 ft or a drawdown of 0.75 ft – at this level the pump began drawing air and could drawdown no further. Time to fill a 32 gallon trash can was recorded in a range of 19 to 45 seconds over five trials for an average discharge rate. Calculated average flow rate ranged from 41 to 102 gallons per minute (GPM) with an average of 54 GPM (equal to 0.12 cfs). Following pump down, the pit was allowed to recover, rising 0.75 ft in 5 minutes 55 seconds. Only one pump trial was completed as the pump quickly drew down the available water to the pump intake. The pool that formed at the bottom of the pit was approximately 8 ft by 10 ft in size.

2.2. PIT 2
Located near the downstream end of the proposed side channel along the river right floodplain, Soil Pit 2 was excavated to 4.5 ft BG. As shown on the soil profile graphic in the Appendix, soils from 0 to 1.5 ft BG is sandy gravel; 1.5 to 4.5 ft BG is small cobble with gravel and a few stones to about 3 inches. Water was encountered at about 0.75 ft BG. The soil profile graphic includes photos of the pit and alluvial material.

Ground water was encountered at a shallow depth and exacerbated calving of the small gravel sized substrate. Given the intent of this proposed channel will have through flow, a pump test was not conducted.

2.3. PIT 3
Pit 3 is located near the upper third of the left floodplain. Access did not allow entry of the excavator thus Pit 3 was excavated by hand to 2 ft BG. As shown on the soil profile graphic in the Appendix, soils from 0 to 1 ft BG is silty sand; 1 to 2 ft BG is cobble gravel and sand. Water was encountered at the ground surface. The soil profile graphic includes photos of the pit and alluvial material.

No pump test was conducted on Pit 3 due to lack of access for the pump, small size of the pit and insufficient water to pump with a 2 inch pump.

2.4. PIT 4
Pit 4 is located near the lower third of the left floodplain. Access did not allow entry of the excavator thus Pit 3 was excavated by hand to 3.6 ft BG. As shown on the soil profile graphic in the Appendix,
all soils were semi cohesive sandy silt with roots. Water was encountered at about 2.5 ft BG. The soil profile graphic includes photos of the pit.

No pump test was conducted on Pit 4 due to lack of access for the pump, small size of the pit and insufficient water to pump with a 2 inch pump.

3. Water level logger data
Hobo water level loggers were placed on April 12, 2018 in perforated PVC pipe piezometers in each of the four soil pits, one surface water station on site and an atmospheric logger at the nearby YN Natapoc property. Data recorded by the hobo data were downloaded on August 10th and September 20th and loggers redeployed both times to continue to collect data. Following is a summary of water level data and corresponding stream flow discharge. Note that water level fell below the data loggers in Pits 3 and 4 around the second or third week of July. The surface water station shows the influence of Wenatchee River flows and water levels on Nason Creek surface water elevations. Nason Creek may have a relatively low flow, yet indicate a higher water surface elevation caused by backwater from the Wenatchee River.

Data logger recorded water surface elevations.

WSEL = water surface elevation, CFS = cubic feet per second.
Nason Creek and Wenatchee River flows.

Surface water elevation correlated by date to Nason Creek and Wenatchee River flows.
Comparison of logger recorded water surface elevations to finished grade elevation along proposed channels in the 2015 concepts, some depth of water can be expected in the back water and side channels. Some groundwater gain along the side channel is expected.
Appendix-1

- Soils Pit Locations and Profiles
501 Portway Avenue, Suite 101
Hood River, OR 97031
541.386.9003
www.interfluve.com

SOIL PIT/PIEZOMETER AND SURFACE WATER DATA LOGGER LOCATIONS
<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>DEPTH, FT</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>EG ELEV = 1875.16-ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5'</td>
<td></td>
<td>SAND WITH GRAVEL AND ROOTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SM-MED COBBLE WITH SOME GRAVEL &amp; SAND. FEW STONES UP TO 6 INCHES. PIT SIDES READILY CAVE IN.</td>
<td>2'</td>
<td>WATER AT 1.6' DEPTH</td>
</tr>
<tr>
<td>10'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15'</td>
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# Nason Confluence - Pit 2

<table>
<thead>
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<tr>
<td>0</td>
<td>0</td>
<td>Sandy Gravel</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>EG ELEV = 1872.38-ft</td>
<td>Water at 0.75' Depth</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Small cobble with gravel. Few stones up to 3 inches. Pit sides readily cave in.</td>
<td>1.5'</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>4.5'</td>
</tr>
<tr>
<td>15</td>
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**Pit**

**Excavated Material**
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<th>DEPTH, FT</th>
<th>NOTES</th>
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</thead>
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<td>EG ELEV = 1874.60-ft</td>
<td>1'</td>
<td>WATER AT 0' DEPTH</td>
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<td></td>
<td></td>
<td>FINES</td>
<td>2'</td>
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<tr>
<td></td>
<td></td>
<td>COBBLE, GRAVEL AND SAND.</td>
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</tbody>
</table>

PIT WAS HAND DUG. DEPTH WAS LIMITED BY CAVING SIDES.

PIT

EXCAVATED MATERIAL
<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
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<tbody>
<tr>
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<td>DESCRIPTION</td>
</tr>
<tr>
<td></td>
<td>EG ELEV = 1876.39-ft</td>
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<tr>
<td>5'</td>
<td>SANDY SILT WITH ROOTS. SEMI-COHESIVE</td>
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<td></td>
<td>WATER AT 2.5' DEPTH</td>
</tr>
<tr>
<td>10'</td>
<td>PIT WAS HAND DUG</td>
</tr>
<tr>
<td>15'</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

**DEPTH**

**3.6'**