

This Section 401 Water Quality Certification (WQC) Request form identifies information needed in order to review and process a Section 401 WQC Request. Please see Department of Ecology's (Ecology) <u>webpage</u> for more information about the Section 401 WQC Request process.

Submit this Section 401 WQC Request form along with a <u>Joint Aquatic Resources Permit Application</u> (JARPA) and supporting information¹ to <u>ecyrefedpermits@ecy.wa.gov</u> and copy the federal permitting agency.

A. Federal Permit or License Reference Number, if known:____

Department of Ecology (Ecology) Aquatics ID Number, if known:____

Project Name: Manastash Rd Creek Bank Stabilization

County:Kittitas

- B. Project Proponent Name: Kelee Hodges
- C. Documentation showing that the Pre-Filing Meeting Request was submitted at least 30 days prior to submitting this Section 401 WQC Request. Attach either of the following:

E-mail acknowledgement of receipt from Ecology
 Copy of previously submitted Pre-Filing Meeting Request Form

D. A completed, signed, and dated JARPA should be submitted with this form.

Did you attach a JARPA? 🗹 Yes 🛛 No

E. The following is a list of documents needed for Ecology's WQC review, along with a brief explanation. Depending on the project, additional information may be requested.

Please let us know what information you are submitting with this WQC request form.

Required for all projects:

- 1. State Environmental Policy Act (SEPA) determination and/or checklist:
 - □ Final SEPA determination attached
 - SEPA determination pending
 - Exempt from SEPA (see <u>SEPA Guidance</u>)
 - SEPA is not required (e.g., federal agency projects)

To request an ADA accommodation, contact Ecology by phone at (360) 407-6076 or email at <u>ecyrefedpermits@ecy.wa.gov</u>, or visit <u>https://ecology.wa.gov/accessibility</u>. For Relay Service or TTY call 711 or 877-833-6341.

Si necesita este formulario en espa ol, por favor, llámenos a (360) 407-6076 o envíenos un correo electrónico a: <u>ecyrefedpermits@ecy.wa.gov</u>

¹ To submit documents over 25MB, e-mail <u>ecyrefedpermits@ecy.wa.gov</u> to request a secure link.

- 2. Project drawings attached:
 - ☑ Vicinity map
 - Plan view
 - Cross-section(s)
 - Plan set
 - □ Other:_____
- 3. Best management practices and construction methodology, provided in the attached:
 - JARPA
 - U Water Quality Monitoring and Protection Plan (WQMPP)
 - Project drawings, sheets:
 - Mitigation Plan pages:
 - Other document(s):_____

Notes:

- This is needed for in-water work (below ordinary high water mark), including wetlands.
- Describe best management practices to be implemented to protect water quality.
- Describe construction sequencing and methodology.
- 4. Water quality monitoring, provided in the attached:
 - □ Water Quality Monitoring Plan (WQMP).
 - □ Water Quality Monitoring and Protection Plan (WQMPP is similar to WQMP, but includes best management practices).

Other (please identify location, such as JARPA, Part 8): JARPA Part 8

Notes:

- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- A plan is needed when conducting work in a waterbody (e.g., creek, ditch, river, lake, pond, marine, estuarine).
- Include water quality parameters such as turbidity, oil sheen, pH (e.g., poured in-place concrete, concrete demolition), etc.
- See <u>State Water Quality Standards for Surface Waters</u> (Chapter 173-201A-200 or -210 WAC)
- If needed, templates are available.

Required depending on the project type:

5. Erosion and sediment control for upland work (above ordinary high water mark) that addresses stormwater during construction and long-term:

This information is included in the attached:

- JARPA
- Project drawings, sheets: 4-5
- Stormwater Pollution Prevention Plan, pages:
- Mitigation Plan, pages: _____
- Other document(s):______
- 6. Wetland report, including the attached:
 - U Wetland delineation report
 - Delineation data sheets
 - U Wetland rating forms

Notes:

- Needed when there is a discharge (dewatering, excavation or fill) to wetlands.
- Report needs to include both a wetland delineation and rating.
- Include delineation data sheets and rating forms.
- For more information see <u>wetland delineation resources</u> and <u>hiring a qualified wetland</u> professional.
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- 7. Mitigation, avoidance and minimization
 - Wetland <u>avoidance and minimization checklist</u>
 - Other aquatic resource avoidance and minimization demonstration
 - Mitigation Plan
 - Other:_____

Notes:

- Wetland avoidance and minimization webpage.
- 8. Mitigation plan, provided in the attached:
 - Riparian Planting and Monitoring Plan (Needed when riparian vegetation is removed or modified)
 - U Wetland or stream/other aquatic resource Mitigation Plan
 - U Wetland Mitigation Bank Use Plan (use when proposing mitigation bank use)
 - In-Lieu Fee (ILF) Use Plan (use when proposing ILF mitigation)
 - Project drawings, sheets: <u>4-5, 10, 13-15</u>
 - Other:_____

Notes:

- Needed to offset impacts to wetland, stream, marine, or other aquatic habitat.
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- For more information, see wetland compensatory mitigation.
- 9. Dredging
 - Dredging Plan attached
 - Suitability Determination attached

Notes:

- Needed when sediments will be dredged for maintenance, navigation, or other purposes.
- Covers in-water disposal and sediment anti-degradation.
- Dredging Plan should include dredge footprint and depth, dredge type, best management. practices, disposal plan, off-loading plan for upland disposal, etc.
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- For informationon suitability determinations, see <u>Dredged Material Management Office</u>.
- 10. Dewatering

Dewatering Plan attached

Notes:

Needed for complex in-water work or management of excavated/dredged material.

- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- May also be required for some excavation projects.

F. Required Certification Statements:

The project proponent hereby certifies that all information contained herein is true, accurate, and complete, to the best of my knowledge and belief.

Initial

The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Signature: Kelert	oderes	_Date:_	2	3	2023
Print Name: Kelee	Hodges	_	1	I	

	WASHINGTON STATE
Jo	int Aquatic Resources Permit

Application (JARPA) Form^{1,2} [help] USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.



	AGENCY USE ONLY
)ate rece	ived: 2/3/2023 edoc
R	ec' Section 401 Request From
gency re	eference #:
fax Parce	el #(s):

Part 1–Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]

Manastash Road Creek Bank Stabilization and Sno-Park Improvement

Part 2–Applicant

The person and/or organization responsible for the project. [help]

2a. Name (Last, First, N	liddle)		
Josh Fredrickson			
2b. Organization (If ap	plicable)		
Kittitas County Public	Works		······································
2c. Mailing Address (Street or PO Box)		
411 N. Ruby St., Suite	91		
2d. City, State, Zip			
Ellensburg, WA 9892	6		
2e. Phone (1)	2f. Phone (2)	2g. Fax	2h. E-mail
509-962-7523		509-962-7663	josh.fredrickson@co.kittitas.wa.us

¹Additional forms may be required for the following permits:

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.

[•] If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.

Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county
government to make sure they accept the JARPA.

²To access an online JARPA form with [help] screens, go to http://www.epermitting.wa.gov/site/alias resourcecenter/jarpa jarpa form/9984/jarpa form.aspx.

Part 3–Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b of this application.) [help]

3a. Name (Last, Fin	st, Middle)			
3b. Organization ((If applicable)			
3c. Mailing Addres	SS (Street or PO Box)			
3d. City, State, Zi	p			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h . E-mail	

Part 4–Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. Consider both **upland and aguatic** ownership because the upland owners may not own the adjacent aquatic land. [help]

- □ Same as applicant. (Skip to Part 5.)
- Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)
- □ There are multiple upland property owners. Complete the section below and fill out <u>JARPA Attachment A</u> for each additional property owner.
- Your project is on Department of Natural Resources (DNR)-managed aquatic lands. If you don't know, contact the DNR at (360) 902-1100 to determine aquatic land ownership. If yes, complete <u>JARPA Attachment E</u> to apply for the Aquatic Use Authorization.

4a. Name (Last, First, I	/liddle)			
4b. Organization (If a	pplicable)			
4c. Mailing Address	(Street or PO Box)			
4d. City, State, Zip				
4e. Phone (1)	4f. Phone (2)	4g. Fax	4h. E-mail	

Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [help]

□ There are multiple project locations (e.g. linear projects). Complete the section below and use <u>JARPA</u> <u>Attachment B</u> for each additional project location.

5a. Indicate the type of c	wnership	of the property.	(Check all that apply) [help]	
 □ Private □ Federal ⊠ Publicly owned (state, or □ Tribal 	county, city,	special districts like s	schools, ports, etc.)	
Department of Natura	Resource	es (DNR) – mana	aged aquatic lands (Comple	te <u>JARPA Attachment E</u>)
5b. Street Address (Cann	ot be a PO	Box If there is no ad	dress, provide other location infor	mation in 5p) [help]
Milepost 10.65 to 11.01	Vanastasł	n Rd		
5c. City, State, Zip (If the	project is no	t in a city or town, pr	ovide the name of the nearest city	or town.) [help]
Ellensburg, WA 98926				
5d. County [help]				
Kittitas				
5e. Provide the section, t	township,	and range for the	e project location [help]	·····
1/4 Section		Section	Township	Range
SE / SW	13 / 14		17 N	16 E
5f. Provide the latitude at Example 47 03922 N	nd longitue	de of the project 39142 W long. (Use	location [help] decimal degrees - NAD 83)	
46.961047 N / 120.79387	75 W			
 5g. List the tax parcel nu The local county asse 	mber(s) fo	or the project loca can provide this info	ation. <u>[help]</u> prmation	
There is no tax parcel nu	mber for t	he project locatio	n. Adjacent properties are li	sted in Section 5h.
5h. Contact information f	or all adjo	ining property ow	vners. (If you need more space,	use JARPA Attachment C) [help]
Name			Mailing Address	Tax Parcel # (if known)
Schmidt Ranches LLC		300 Mission Vi	ew Dr	564033
		Ellensburg, WA	98926	
Terry Clark & Donna Bec	ker	17741 Manasta	ash Rd.	754933
		Ellensburg, WA	98926	
Washington State Depart	ment of	PO Box 47014		449136
Daniel & Sharon, Janassa	20	280 Mitcholl Bo	0004 	
	21		4. 98926	854933
·				

5i. List all wetlands on or adjacent to the project location [help]

There are no wetlands present within the project footprint.

5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [help]

South Fork Manastash Creek is the only water body on or adjacent to the project location.

5k. Is any part of the project area within a 100-year floodplain? [help]

🛛 Yes 🗆 No 🗆 Don't know

51. Briefly describe the vegetation and habitat conditions on the property [help]

Riparian habitat within the Project footprint consists of an eroded streambank with an intact riparian zone upstream and downstream of the washout. Riparian areas and buffers in the immediate project area are somewhat altered from previous land uses and consist of willow (*Salix* spp.), cottonwood (*Populus balsamifera*), dogwood (*Cornus sericea*) and alder (*Alnus incana*). Adjacent upland habitat is primarily disturbed areas associated with rural residences and Douglas-fir (*Pseudotsuga menziesii*) and Ponderosa pine (*Pinus ponderosa*) associated ecotypes.

5m. Describe how the property is currently used [help]

The property is currently used for public travel and right-of-way associated with Manastash Road which provides access to nearby residences and recreationalists accessing the Okanogan-Wenatchee National Forest. The streambed adjacent to the road is on unoccupied private land.

5n. Describe how the adjacent properties are currently used. [help]

The adjacent properties are residential and/or recreational in nature.

50. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [help]

Existing structure include a paved roadway surface providing residential and recreational access. Currently the two lane road is restricted to one lane due to bank erosion and undercutting causing unsafe conditions.

5p. Provide driving directions from the closest highway to the project location, and attach a map. [help]

From I-90 Exit109, drive north on Canyon Rd 0.5 miles, turn left onto E Umptanum Rd., in 1.7 miles turn right on to Manastash Rd, drive 10.65 miles to end of the County Road.

Part 6-Project Description

6a. Briefly summarize the or	verall project. You can provid	le more detail in 6b. [help]	
The project will repair the er linear feet) and install guard	oded streambank and assoc rail.	iated roadway embankment	(approximately 350
6b. Describe the purpose of	the project and why you was	nt or need to perform it. [hel	0]
This section of Manastash R project is to restore the road the roadway to stabilize the	Road is restricted to a single l way to a safe and functional bank and provide long term j	ane due to stream bank ero two-way road. A revetment protection of the roadway.	sion. The purpose of the will be constructed below
Due to the deteriorated cond immediate repair of the bank Manastash Road is the only US Forest Service property. project will stop active bank added complexity.	lition of the road shoulder, w and roadway is necessary f access for several isolated r The repairs will provide safe erosion, and provide channe	idth-restriction closure, and for continued access and us ural residences and a priorit and continued access for re I roughness and enhanced	active bank erosion, the e of Manastash Road. y arterial for access to esidents. In addition, the habitat benefits due to the
6c. Indicate the project cate	gory (Check all that apply) [help]		
	esidential 🛛 Instituti	onal 🛛 🖾 Transportati	on Recreational
🛛 Maintenance 🛛 🖂 E	nvironmental Enhancement		
6d. Indicate the major element	ents of your project. (Check all	that apply) [help]	
□ Aquaculture	Culvert	Float	Retaining Wall
Bank Stabilization	🗆 Dam / Weir	□ Floating Home	(upland)
Boat House	🗆 Dike / Levee / Jetty	Geotechnical Survey	🖾 Road
Boat Launch	□ Ditch	Land Clearing	Scientific Measurement Device
🗆 Boat Lift	Dock / Pier	🗆 Marina / Moorage	□ Stairs
Bridge	Dredging	🗆 Mining	Stormwater facility
Bulkhead	Fence	Outfall Structure	Swimming Pool
□ Buoy	Ferry Terminal	🗆 Piling/Dolphin	🗆 Utility Line
Channel Modification	🗆 Fishway	🗆 Raft	
□ Other:			

6e. Describe how you plan to construct each project element checked in 6d Include specific construction methods and equipment to be used. [help]

- Identify where each element will occur in relation to the nearest waterbody
- Indicate which activities are within the 100-year floodplain.

Project Timeline and Sequencing

The Project will likely begin in summer 2023 and will take up to 20 weeks to complete. Work below the OHWM of South Fork Manastash Creek will require approximately 8 weeks to complete and will occur within the approved Washington Department of Fish and Wildlife (WDFW) in-water work window of July 16 through September 30. However, to maximize flexibility and avoid additional construction seasons, the County is requesting a one-month extension on the work window, through October 31, 2023. The in-water work window is proposed from July 16 through October 31. This work window was approved and used for the Manastash Bridge Replacement project in 2017, approximately 0.4 mile downstream from the Project location.

Project sequencing will likely be mobilization; staging and traffic management; temporary erosion and sediment control and best management practice (BMP) installation; isolation and dewatering; revetment construction; embankment construction; planting; roadway reconstruction and paving; guardrail and signage; and demobilization.

Equipment

Equipment to be used will include but is not limited to excavators, mini-excavators, dozer, graders, dump trucks, front loaders, backhoe, generators, pumps (for groundwater management), pavement scarifier (to remove existing roadway), and paver.

Site Preparation and Vegetation Removal

Site preparation work will include delineating the Project area with high-visibility fencing, placing BMPs for sediment and erosion control, and relocating utilities if necessary (**Appendix A, Sheet 4**).

Approximately 6,700 square feet of hillside between the road and the creek are within the clearing limits for the Project. The majority of this area is actively eroding bank and consists of bare soil and rock with minimal riparian habitat (e.g., small shrubs) adjacent to the creek; however, the removal of some small shrubs under 6 in dbh is anticipated for equipment access within the dry stream bed (Appendix B, Photographs 1 and 2) Mature trees within this area are all adjacent to the roadway on the upper bank (rooted approximately 15 feet above the creek), however, they do provide some shade and were therefore considered riparian habitat (Appendix B. Photographs 3 and 5). Vegetation removal between the road and the creek includes the removal of approximately 11 ponderosa pine (Pinus ponderosa) and 3 Douglas-fir (Pseudotsuga menziesii) that range in size from 10-inch to 30-inch diameter at breast height (dbh). If possible, the larger trees will be avoided. Where applicable, trees larger than 12 inch dbh that cannot be avoided will be removed with root wad intact, stored onsite, and incorporated into the revetment. Vegetation under 6-inch dbh that will be removed to stabilize the bank, will include redosier dogwood, (Cornus sericea), mock orange (Philadelphus lewisii), willow (Salix sp.), Nootka rose (Rosa nutkanai), alder (Alnus spp.), snowberry (Symphoricarpos albus), and ocean spray (Holodiscus discolor). Where possible, the contractor will clear vegetation to ground level but will not grub to allow natural regeneration in areas where temporary impacts may occur. While this habitat provides some riparian function (e.g., shade from 14 trees), the majority of this area is bare soil and rock where the bank has already sloughed off or consists of small shrubs and herbaceous vegetation that provide little if any riparian function.

Access, Staging, and Traffic Control

A traffic control plan will be utilized to manage traffic during construction. This may include one-lane, two-way traffic control zone with flaggers. (Appendix A, Sheet 11)

Equipment and material staging will occur within the Project area on the existing roadway, isolated from traffic, and potentially within a widened driveway area near the Project if the landowner allows. Existing County roads will be used to transport of equipment and materials to the Project site. The contractor is responsible for obtaining permits and clearances for the use of any alternate staging areas.

Work Area Isolation and Rewatering

Before bank stabilization occurs below the OHWM of South Fork Manastash Creek, the work areas will be isolated from flowing water using temporary stream isolation. The Project will occur during low-flow conditions. At lower flows, the isolation area is relatively shallow, typically 6 to 12 inches deep. The construction area below the OHWM will be isolated from the flows of South Fork Manastash Creek to minimize the effects of turbidity and allow construction in isolation. The isolation structures will be placed after the area to be isolated has been seined and blocked with nets to remove any fish that may be present.

Only the area around the bank stabilization will be isolated (Appendix A, Sheet 5). At no time will isolation span the width of South Fork Manastash Creek. Natural flow will be directed away from the isolation area using either sandbags, super sacks, or water bladders. The final isolation methodology will be determined by the contractor. The diversion barrier system may require the use of pumps (4" to 6" gas powered 'trash' pump) to manage hyporheic flows behind the barrier to maintain a dry work area. The dry work area will be accessed from the stream bank as prescribed in the construction contract.

For the purpose of permitting when calculating temporary fill volumes, it is assumed the isolation structures will consist of temporary fill such as sandbags or super sack(s). The amount of temporary fill below the OHWM required for the isolation is approximately 145 cubic yards. The duration of use will be during the approved in-water work window and may take up to 8 weeks.

The isolation structures will be placed starting at the upstream bank tie-in location and will be constructed in a horseshoe shape to isolate the work area before tying into the bank downstream of the bank stabilization area. The isolation structure may be placed using a thumbed excavator or similar equipment. Plastic sheeting will likely be used in coordination with the isolation structure to more efficiently isolate flows.

As the isolation structure is constructed, qualified biologists will be on-site to monitor flows as they recede and remove any fish that become stranded behind the diversion following Washington State Department of Transportation (WSDOT) Fish Exclusion Protocol and Standards. All fish captured or handled during dewatering activities will be reported. If needed, to dewater holding pools behind the isolation structure, small pumps will have filtered intakes meeting NMFS screening criteria. Once the structure is in place and the isolated area is completely enclosed, block nets will be removed, and there will be no restriction to up or down stream movement of fish.

The isolated area of South Fork Manastash Creek will be the minimum size necessary for the construction of the revetment and barbs. The total isolated footprint below the OHWM will be approximately 8,465 square feet (**Appendix A, Sheet 5**). When construction of the revetment and barbs is complete, the isolation structures ill be removed slowly starting at the downstream end to reintroduce water to the work area and minimize downstream turbidity.

Revetment and Barb Construction

The Project is located along a section of the South Fork Manastash Creek with a wide floodplain and several braided channels that are activated during high flows. The Project is located at the upper end of this floodplain where the creek forms a cutbank that is eroding the material below Manastash Road. Equipment access will occur from the dry stream bed (Attachment A, Sheet 5). The revetment and barbs will be constructed where the roadway and approach driveway continue to actively erode, so repairing the embankment will halt on-going erosion, improve water quality, and improve and maintain habitat. The upstream end of the revetment will taper with fill limits above the OHWM for protection between barbs.

The revetment will extend partially into the existing channel bed and the final height will be built above the 100-year water surface elevation. The revetment will extend the length of the erosion area (approximately 280 linear feet) and will "kick-out" slightly on the upstream end to deflect flows away from the bank. The revetment will extend from below to well above the OHWM, providing bank protection and energy dissipation. The revetment and barbs will require approximately 180 cubic yards of fill below the OHWM to provide 280 linear feet of bank protection (**Appendix A, Sheets13-15**).

The revetment will be constructed using a combination of large rock and wood, with logs both keyed into the revetment and secured in place at the toe of the revetment. Working from the isolated work area or existing roadway, large logs with root wad will be placed throughout the repair area (**Appendix A, Sheets 6 and 15**), perpendicular to the bank. These logs will be placed with the root wads extending into the channel, angled

slightly upstream. If necessary, these logs will be locked into place using earth anchors or cabled to large rock.

Large rock armoring will be placed on top of and around these logs to create an undulating rock toe. End dumping of fill material for roadway embankment will only occur in areas isolated by the rock toe or above the OHVM. Rock will be a mix of sizes to ensure proper protection of the roadway, with the largest rock placed at the toe of the revetment. Final hydraulic design will determine the amount, size, and placement of rock armoring. The final quantity of logs with root wads to be incorporated will be determined later in the design phase.

Up to five rock barbs will be placed within the revetment (**Appendix A, Sheet 13**). These barbs will be of varying lengths based on required deflection of flows, with the longest barb extending approximately 5.6 feet from the bank. The footprint of the barbs will be approximately 120 sf per barb. The barbs will be placed upstream from the revetment and will require approximately 40 cy of fill below the OHWM. Approximately 180 cubic yards of fill will be required below the OHWM for the construction of the revetment and barbs.

Roadway Embankment

When the revetment is completed to an elevation above the 100 year-flood elevation, the roadway embankment will be constructed using suitable fill material at a minimum 2H:1V slope (**Appendix A, Sheet 13**). Embankment material will be placed with equipment operating from the roadway above the creek.

Planting and Site Restoration

Native riparian vegetation will be incorporated within the rock revetment, in suitable areas at the toe of the revetment, on the impacted banks, and withing the barbs where possible. Willow cuttings will provide the best likelihood for success, with dogwood, cottonwood, and alder planted in areas above the revetment that have saturation during the growing season. Plants will be harvested from a local source or purchased from a native plant nursery. Disturbed roadside, the temporary detour footprint, and new non-riparian embankment areas that are not rock will be seeded with a native roadside and erosion control mix and stabilized with mulch cover prior to Project completion.

Roadway Reconstruction and Demobilization

The existing roadway will be widened and repaved (**Appendix A**, **Sheet 6**). The roadway approaches will be reconstructed with fill, paved, striped, guardrail installed, and signage placed as the last order of work before completion. BMP placement will prevent any discharge during paving activities.

The existing impervious surface in the project area prior to the washout was approximately 17,255square feet. Post-project, total impervious surface will be approximately 17,255 square feet There is no net increase in square footage of new impervious surface from widening the road and creating a turnaround. All stormwater associated with this impervious surface will be collected and treated through infiltration in roadside ditches south of the roadway. To minimize fill within the creek, a ditch will not be installed north of the roadway. Instead, the roadway will be reconstructed to existing condition with no increase in runoff towards the creek compared to pre-washout conditions.

6f. What are the anticipated start and end dates for project construction? (Month/Year) [help]

If the project will be constructed in phases or stages, use <u>JARPA Attachment D</u> to list the start and end dates of each phase or stage

Start Date: July 2023

End Date: October 2023

See JARPA Attachment D

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [help]

\$1,541,100

6h. Will any portion of the project receive federal funding? [help]

• If yes, list each agency providing funds

🛛 Yes 🛛 No 🗆 Don't know

Federal Highway Administration - Federal Lands Access Program

Part 7–Wetlands: Impacts and Mitigation

Check here if there are wetlands or wetland buffers on or adjacent to the project area. (If there are none, skip to Part 8.) [help]

	nnliachla	
_		
7b. Will the	project ir	npact wetlands? [help]
🗆 Yes	🗆 No	Don't know
C Will the	project ir	nnact wetland buffers? thein
	⊔ NO	
'd. Has a w	etland de	elineation report been prepared? [help]
If Yes	, submit the	e report, including data sheets, with the JARPA package
□ Yes	🗆 No	
e. Have the	wetlanc	is been rated using the Western Washington or Eastern Washington Wetland Rating
System?	' [<u>heip]</u>	
 if Yes, 	submit the	e wetland rating forms and figures with the JARPA package
	🗆 No	Don't know
	prepare	a mitigation plan to compensate for any adverse impacts to wetlands? [help]
	SUDITIE INE	2 pier with the JARTA package and answer /g
 If Yes If No. (or Not app	
If Yes If No, o	or Not app	
 If Yes If No, o Yes 	or Not app	
 If Yes If No, o Yes 	or Not app □ No	
 If Yes If No, o Yes 	or Not app	

7g.	Summarize what the mitigation plan is meant to accomplis	ish, and describe how a watershed approach was
_	used to design the plan. [heip]	

7h. Use the table below to list the type and rating of each wetland impacted, the extent and duration of the impact, and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [help]

Activity (fill, drain, excavate, flood, etc.)	Wetland Name ¹	Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)
¹ If no official name for the v such as a wetland delinea ² Ecology wetland category with the JARPA package. ³ Indicate the days, months ⁴ Creation (C), Re-establish	wetland exists, create a ation report. based on current West or years the wetland w ment/Rehabilitation (R)	i unique name (such a tem Washington or Ea rill be measurably imp), Enhancement (E), F	astern Washington acted by the activi Preservation (P), M	ne name should be Wetland Rating S ty. Enter "permane litigation Bank/In-lit	stem. Provide the v nt" if applicable. eu fee (B)	wetland rating forms
Page number(s) for	similar information	on in the mitigat	ion plan, if av	ailable:		·
7i. For all filling acti cubic yards that	vities identified in will be used, and	7h, describe th how and where	e source and t will be pla	l nature of the ced into the w	fill material, th retland [help]	e amount în
7j. For all excavatin cubic yards you	ng activities identi will remove, and	ified in 7h, desc where the mate	ribe the excan erial will be di	vation method sposed [<u>help]</u>	, type and am	ount of material in

Part 8-Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [help]

Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [help]

□ Not applicable

Timing of the project will be coordinated with WDFW to minimize impacts to the aquatic environment (provided emergency conditions do not arise prior to the anticipated start date). Work will occur in the dry after the project area is isolated. The stream will be diverted to provide continual flow and access for aquatic species. Water quality will be maintained at all times within the Washington State Department of Ecology guidelines in Washington Administrative Code (WAC) 173-201A. Minimization measures (MM) that will be required in the contract and will further minimize or prevent impacts are listed below:

MM 1 - Bank stabilization and channel work below the OHWM will only occur in isolation from active flows.

MM 2 - All work below the OHWM will conducted during the identified in-water work window.

MM 3 - All equipment will be inspected for leaks prior to each workday.

MM 4 – All equipment that works below the OHWM will contain vegetable oil or other biodegradable alternative to hydraulic fluid.

MM 5 – Equipment staging and fueling will occur more than 50 feet from the OHWM of the South Fork Manastash Creek.

MM 6 – Worksite isolation and fish exclusion will be conducted by qualified biologists in accordance with the 2016 Washington State Department of Transportation Fish Exclusion Protocols and Standards.

MM 7 – If small pumps are used to dewater holding pools or hyporheic flows, they will be screened to NMFS criteria. Once fish are removed from the area behind the isolation area, pumps will not require screening.

MM 8 – During removal of containment measures, water will be reintroduced to the isolation area slowly, starting at the downstream end, to minimize turbidity and allow natural equilibration to occur.

MM 9 – BMPs such as wattles or silt fence will be used to prevent the discharge of any material into flowing water.

MM 10 - Vegetation removal required for access that is not part of the permanent

impact limits will be cut, but not grubbed, to allow natural regeneration.

MM 11 - Isolation and BMPs will be sufficient to contain turbidity within State water quality standards. No untreated dewatering water, latent pH water, or concrete materials will be discharged to flowing water or remain in the stream channel prior to re-introduction of the stream.

MM 12 – The contractor will be required to develop and follow a Temporary Erosion and Sediment Control Plan, Spill Prevention, Control, and Containment Plan, and Water Quality Monitoring Plan. These plans will ensure protection of the aquatic resource during construction.

8b. Will your project impact a waterbody or the area around a waterbody? [help]

🛛 Yes 🛛 No

• IT NO, OF NOT APPL	capie, explain below	wwny a mitigati	on plan should ho		
	Don't know				
The design of the banl Integrated Streambanl vegetation has been u considered self-mitigat	c stabilization pro c Protection Guid sed on similar pr ing project elem	bject utilizes I lelines. In ad ojects in the ents by the S	bioengineered dition, the inco area, and whe services and W	principles that are consis rporation of LWD and pla n integrated as part of th DFW.	stent with WDFW anting of riparian le design are
8d. Summarize what t used to design the	he mitigation pla	n is meant to	accomplish. D	Describe how a watershe	d approach was
If you already com	pleted 7g you do no	t need to restate	e your answer here		For the second second
lost to erosion will imp decrease energy, slow	rove functional ri	parian habita and increase	at long term, an the habitat val	id in-stream flow deflecti ue in this reach.	on structures will
8e. Summarize impac	t(s) to each wate	rbody in the	table below [h	nelp]	
8e. Summarize impac Activity (clear, dredge, fill, pile drive, etc.)	t(s) to each wate Waterbody name ¹	rbody in the Impact Iocation ²	table below. [h Duration of impact ³	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. of linear ft.) of waterbody directly affecte
8e. Summarize impac Activity (clear, dredge, fill, pile drive, etc.) Fill (Isolation structure)	t(s) to each wate Waterbody name ¹ South Fork Manastash Creek	Below OHWM	table below [Duration of impact ³	Amount of material (cubic yards) to be placed in or removed from waterbody Appx. 145 cy	Area (sq. ft. o linear ft.) of waterbody directly affecte
Be. Summarize impac Activity (clear, dredge, fill, pile drive, etc.) Fill (Isolation structure) Fill (rock and streambed material)	t(s) to each wate Waterbody name ¹ South Fork Manastash Creek South Fork Manastash Creek	Below OHWM Below	table below [r Duration of impact ³ Temporary Permanent	Amount of material (cubic yards) to be placed in or removed from waterbody Appx. 145 cy 255 cy	Area (sq. ft. o linear ft.) of waterbody directly affecte 750 sf 280 linear feet
8e. Summarize impac Activity (clear, dredge, fill, pile drive, etc.) Fill (Isolation structure) Fill (rock and streambed material)	t(s) to each wate Waterbody name ¹ South Fork Manastash Creek South Fork Manastash Creek South Fork Manastash Creek	Below OHWM Below OHWM Below	table below [Duration of impact ³ Temporary Permanent Temporary	Amount of material (cubic yards) to be placed in or removed from waterbody Appx. 145 cy 255 cy N/A	Area (sq. ft. o linear ft.) of waterbody directly affecte 750 sf 280 linear feet 6,000 sf
 Be. Summarize impact Activity (clear, dredge, fill, pile drive, etc.) Fill (Isolation structure) Fill (rock and streambed material) Dewatered area Excavation (streambed material) 	t(s) to each wate Waterbody name ¹ South Fork Manastash Creek South Fork Manastash Creek South Fork Manastash Creek South Fork Manastash Creek	Provide in the Impact Iocation ² Below OHVVM Below OHVVM Below OHVVM Below OHVVM	table below [Duration of impact ³ Temporary Permanent Temporary Permanent	Amount of material (cubic yards) to be placed in or removed from waterbody Appx. 145 cy 255 cy N/A 7 cy	Area (sq. ft. o linear ft.) of waterbody directly affecte 750 sf 280 linear feet 6,000 sf 10 sf

8f. For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [help]

Temporary Fill

If super sacks are used for the isolation structure, approximately 145 cubic yards will be considered temporary fill below the OWHM.

Permanent Fill

Over excavation below the OHWM is required for the revetment along approximately 280 ft of South Fork Manastash Creek. This will result in a total of approximately 7 cubic yards of excavation below the OHWM of the creek. The revetment will require approximately 255 cubic yards of fill be placed below the OHWM of the creek. The revetment will extend into creek on average approximately 15 feet beyond the existing toe of the slope. Material will include class 2 riprap and logs with root wad intact. This is a net difference of 255 cubic yards of permanent fill material below the OHWM of the creek.

8g. For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [heip]

Permanent Excavation

Slight excavation below the OHWM is required to key in the large rock toe and habitat logs along approximately 280 ft of South Fork Manastash Creek. Any excavated material will remain onsite below the OHWM and placed within the revetment. This will not result in a permanent impact below the OHWM. The revetment will require approximately 255 cubic yards of fill be placed below the current OHWM of the creek to rebuild the previously-existing stream bank.

Part 9-Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

Agency Name	Contact Name	Phone	Most Recent Date of Contact
WDFW	Scott Downes	(509) 457-9307	
NMFS	Sean Gross		
USFWS	Cindy Raekes	(509) 665-3508	
WSDOT	Phil Nugent	(509) 577-1781	1/ 2/2 023
FHWA	Gary Martindale	(360) 534-9344	5/31/2022
DAHP	Sydney Hanson	(360) 280-7563	11/18/2021

	0			Dert 7 er De	t Q of this IAE	PDA on the Machington
Departmen	the wetlan t of Ecolog	ds or waterbodi y's 303(d) List?	es identified in [help]	Рап / ог Ра	In 8 of this JAN	kPA on the washington
• If Yes, lis	t the parame	ter(s) below				
If you dor <u>Shoreline</u>	rt know, use s/Water-qua	Washington Depar ity/Water-improven	tment of Ecology nent/Assessment	s Water Quality of-state-waters	Assessment tool: -303d	s at: https://ecology.wa.gov/Water
🛛 Yes 🗆] No					
This section of Creek is on the addition, sectio Category 5 wat	South For 303(d) im ns of the n ers for ten	k Manastash Cr paired water qu nain stem of Ma perature, disso	eek is not 303 ality list for wa nastash Creek lved oxygen, a	d listed for a ter temperat are listed a ind bacteria.	ny parameter. ⁻ ure above and s Clean Water :	The South Fork Manastash below the Project area. In Act Section 303(d)
9c. What U.S.	Geologica	Survey Hydrol	ogical Unit Cod	de (HUC) is t	he project in?	[heip]
Go to <u>http</u>	.//cfpub_epa	gov/surf/locate/indi	ex.ctm to help ide	ntify the HUC		
17030001- Upp	ber Yakıma					
d. What Wate	er Resourc	e Inventory Area	a Number (WF	RIA #) is the	project in? [help	0]
 Of the second second	er Resourc os.//ecology v ma	e Inventory Area	a Number (WF elines/Water-supp	RIA #) is the hy/Water-availa	project in? [help bility/Watershed-le	o] ook-up to find the WRIA #
9d. What Wate • Go to http 39- Upper Yaki	er Resourc <u>os.//ecology v</u> ima water cons	e Inventory Area	a Number (WF elines/Water-supp omply with the	RIA #) is the ply/Water-availately/Water-availat	project in? [help bility/Watershed-k shington water	ook-up to find the WRIA # quality standards for
 Go to http://www.statego.com/stat	water cons	e Inventory Area va.gov/Water-Shor truction work co	a Number (WF elines/Water-supr omply with the elines/Water-gual	RIA #) is the oly/Water-availa State of Wa:	project in? [help bility/Watershed-le shington water Surface-water-qua	o] ook-up to find the WRIA # quality standards for ality-standards/Criteria for the
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9d. What Wate • Go to http: 39- Upper Yaki 9e. Will the in-turbidity? • Go to http: standard: ⊠ Yes □ 9f. If the project environmer	er Resourc <u>os.//ecology v</u> ima water cons [help] os.//ecology v s] No t is within ht designal	e Inventory Area va.gov/Water-Shore truction work co va.gov/Water-Shore Not applicable the jurisdiction of ion? [help]	a Number (WF elines/Water-supr omply with the elines/Water-gual	RIA #) is the http://water-availa State of Was ity/Freshwater/ e Manageme	ent Act, what is	e] ook-up to find the WRIA #.
 Go to http://www.standards/action/	er Resourc <u>bs.//ecology v</u> ima water cons [help] <u>bs.//ecology v</u> s] No ct is within ht designat ht designat ht know, con information, (Shoreline-lar)	e Inventory Area va.gov/Water-Shore truction work co va.gov/Water-Shore Not applicable the jurisdiction of ion? [help] tact the local plann go to https.//ecolo	a Number (WF elines/Water-supp omply with the elines/Water-gual of the Shorelin ing department gy.wa.gov/Water-	RIA #) is the http://water-availa State of Was ity/Freshwater/ e Manageme Shorelines/Sho	ent Act, what is	e] ook-up to find the WRIA #. quality standards for ality-standards/Criteria for the the local shoreline a the local shoreline
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 Go to 	http://www.dnr.wa.gov/forest-practices-water-typing for the Forest Practices Water Typing System
⊠ Shor	eline 🗆 Fish 🗆 Non-Fish Perennial 🗆 Non-Fish Seasonal
h. Will this manua	s project be designed to meet the Washington Department of Ecology's most current stormwater [? [help]
• IT NO	, provide the name of the manual your project is designed to meet.
i. Does the If Yes	e project site have known contaminated sediment? [help] s, please describe below
□ Yes	⊠ No
j. If you kn he project	ow what the property was used for in the past, describe below [help] site has been maintained County right-of-way since 1940.
k. Has a c	ultural resource (archaeological) survey been performed on the project area? [help] a, attach it to your JARPA package
⊠ Yes	□ No -The assessment is in review with DAHP as a FHWA action.
⊠ Yes	□ No -The assessment is in review with DAHP as a FHWA action.
⊠ Yes	□ No -The assessment is in review with DAHP as a FHWA action.
⊠ Yes	□ No -The assessment is in review with DAHP as a FHWA action.
⊠ Yes	□ No -The assessment is in review with DAHP as a FHWA action.
⊠ Yes	□ No -The assessment is in review with DAHP as a FHWA action.

91. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [help]

Common Name	Listing Status	Determination	
	U.S. Fish and Wildlife S	Service	
Canada lynx	Threatened	No effect	
Yellow-billed cuckoo	Threatened	No effect	
Bull trout - Columbia River DPS	Threatened	May affect, not likely to adversely affect	
Bull trout - Critical Habitat	Designated	No effect	
Na	ational Marine Fisherie	s Service	
Steelhead – Middle Columbia River (MCR) Summer-run DPS	Threatened	Likely to adversely affect	
Steelhead – Critical Habitat	Designated	No effect	

The USFWS consultation has been completed. USFWS concurs with determination. NMFS consultation has been completed.

9m. Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. [help]

The project is within an area with regular concentration areas for elk and mule deer. Additionally, rainbow trout and westslope cutthroat have occurrence/migration areas within the project area. However, the project will not affect any priority habitat or species.

Part 10-SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at http://apps.oria.wa.gov/opas/.
- Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.
- For a list of addresses to send your JARPA to, click on agency addresses for completed JARPA.

 10a. Compliance with the State Environmental Policy Act (SEPA) (Check all that apply.) [help]

 • For more information about SEPA, go to https://ecology.wa.gov/regulations-permits/SEPA-environmental-review.

 □ A copy of the SEPA determination or letter of exemption is included with this application.

 □ A SEPA determination is pending with _______ (lead agency). The expected decision date is _______

 □ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [help]

☑ This project is exempt (choose type of exemption below).
Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt? WAC 197-11-800(3)
Other:
□ SEPA is pre-empted by federal law.
10b. Indicate the permits you are applying for. (Check all that apply.) [help]
LOCAL GOVERNMENT
Local Government Shoreline permits:
🗆 Substantial Development 🛛 Conditional Use 🖓 Variance
Shoreline Exemption Type (explain): $\frac{WAC 197 \cdot 11 \cdot 800(3)}{WAC 173 \cdot 17 \cdot 040(2)(b)}$
Other City/County permits:
☑ Floodplain Development Permit □ Critical Areas Ordinance
STATE GOVERNMENT
Washington Department of Fish and Wildlife:
☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption – <u>Attach Exemption Form</u>
Washington Department of Natural Resources:
Aquatic Use Authorization Complete <u>JARPA Attachment E</u> and submit a check for \$25 payable to the Washington Department of Natural Resources. <u>Do not send cash.</u>
Washington Department of Ecology:
Section 401 Water Quality Certification
Authorization to impact waters of the state, including wetlands (Check this box if the proposed impacts are to waters not subject to the federal Clean Water Act)
FEDERAL AND TRIBAL GOVERNMENT
United States Department of the Army (U.S. Army Corps of Engineers):
Section 404 (discharges into waters of the U.S.) Section 10 (work in navigable waters)
United States Coast Guard: For projects or bridges over waters of the United States, contact the U.S. Coast Guard at:
Bridge Permit: D13-SMB-D13-BRIDGES@uscg.mil
Private Aids to Navigation (or other non-bridge permits): D13-SMB-D13-PATON@uscg.mil
United States Environmental Protection Agency:
□ Section 401 Water Quality Certification (discharges into waters of the U.S.) on tribal lands where tribes do not have treatment as a state (TAS)
Tribal Permits: (Check with the tribe to see if there are other tribal permits, e.g., Tribal Environmental Protection Act, Shoreline Permits, Hydraulic Project Permits, or other in addition to CWA Section 401 WQC)
Section 401 Water Quality Certification (discharges into waters of the U.S.) where the tribe has treatment as a state (TAS).

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Part 11–Authorizing Signatures

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [help]

11a. Applicant Signature (required) [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

Joshun Fredrickson	Mh. E	01/Feb/2023
Applicant Printed Name	Applicant Signature	Date

11b. Authorized Agent Signature [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

Authorized Agent Printed Name

Authorized Agent Signature

Date

11c. Property Owner Signature (if not applicant) [help]

Not required if project is on existing rights-of-way or easements (provide copy of easement with JARPA).

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Property Owner Printed Name

Property Owner Signature

Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 09/2018

Kittitas County Washington Manastash Road Creek Bank Stabilization and Snow Park Improvement PT SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.



County Officials Brett Wachsmith Laura Osiadacz Cory Wright County Commissioners

Mark Cook, P.E. Public Works Director Josh Fredrickson, P.E. County Engineer

Sheet Index

Page Number	Description	Sheet
1	General Notes	GE-01
2	Existing Conditions	EX-01
3	Project Overview	PO-01
4	TESC	TE-01
5	Stream Bypass	BP-01
6	Plan and Profile	PP-01
7	Guardrail Plan	GR-01
8	Cross Sections	XS-01
9	Striping and Sign Details	SP-01
10	Planting Schedule	PS-01
11	Traffic Control	TC-01
12	After Hours Traffic Control	TC-02
13	Details	DT-01
14	Details	DT-02
15	Details	DT-03



The basis for control of work shall be as follows:

- A. It is the responsibility of the contractor to have an approved set of plans and any necessary permits on the job site wherever work is being accomplished.
- B. The county shall have the authority to enforce these plans and specifications, as well as all other referenced or pertinent specifications. The County Engineer will appoint designees, project engineers, assistants, and inspectors as necessary to inspect the work, and they will exercise such authority as the County Engineer may delegate.
- C. It is the responsibility of the contractor to notify the county in advance of beginning work on any project. A pre-construction meeting and/or field review shall be required before the commencement of work.
- D. Failure to comply with the provisions of these plans and specifications may result in stop work orders, removal of work accomplished, or other penalties as established by law.
- E. Provisions of Section 1-05 (Control of Work) of the WSDOT Standard Specifications, current edition, shall apply, with the term "Engineer" therein construed to be the County Engineer.
- F. Unless otherwise approved or directed, all construction work shall be done in accordance with the most current edition of WSDOT Standard Specifications.

Construction Notes

Construction sites shall be maintained for access, accessibility, and safety at all times. Site maintenance activities shall include, but are not limited to the following:

- A. On existing roads, two-way traffic and all existing lanes of traffic shall be maintained at all times unless detour and/or traffic control plans have been approved in advance by the County Engineer. See KCC 12.09.05 for construction traffic control requirements.
- B. Roads shall be kept free of dirt and debris.
- C. Pedestrian and bicycle facilities shall be kept free of obstructions, and in compliance with ADA guidelines.
- D. Drainage facilities shall be maintained to ensure proper function, and stormwater, erosion, and sedimentation control devices shall be maintained and fully functional at all times. See KCC 12.06.040 for stormwater requirements.

Abbreviations

WSDOT	=	Washington State Department of Transportation
КСС	=	Kittitas County Code
HMA	=	Hot Mix Asphalt
ADA	=	Americans with Disabilities Act
	=	Foot/Feet
	=	Inch/Inches

			Summary of Quantities	
Bid Item Number	Quantity	Unit	Description	Reference
				Std. 1-09.7
2	0.55		CLEARING AND GRUBBING	Std. 2-01.1; Special 2-01.1
3	I	L3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	Std. 2-02; Special 2-02.3
			GRADING	
4	200	C.Y.	COMMON BORROW INCL. HAUL	Std. 2-03.5
5	1225	C.Y.	ROADWAY EXCAVATION INCL. HAUL	Std. 2-03.5; Special 8-19
			DRAINAGE	
6	140	TON		Std. 8-15.5
7	1	L.S.	TEMPORARY STREAM DIVERSON	Std. 8-31.5
8	1675	C.Y.	ROCK FOR EROSION AND SCOUR PROTECTION CLASS B	Special 8-19
9	250	C.Y.	ROCK FOR EROSION AND SCOUR PROTECTION CLASS C	Special 8-19
10	7	EACH	LARGE WOODY STRUCTURE A	Special 8-26
11	6	EACH	LARGE WOODY STRUCTURE B	Special 8-26
			SURFACING	
12	4/5	TON	CRUSHED SURFACING BASE COURSE	Std. 4-04.5
13	70	ION		Std. 8-15.5
			HOT MIX ASPHALT	
14	260	TON	HMA CL. 1/2 IN. PG 64-28	Special 5-04.5
			EROSION CONTROL	
15	1	DAY	ESC LEAD	Std. 8-01.5(2)
16	1	EST	EROSION AND WATER POLLUTION PREVENTION	Std. 8-01.5(1)
17	0.55	ACRE	SEEDING AND MULCHING	Std. 8-02.5
18	1400	L.F.	HIGH VISIBILITY SILT FENCE	Std. 8-01.5(2)
			TRAFFIC	
19	425	L.F.	PAINT LINE	Std. 8-22.5
20	1	L.S.	TRAFFIC CONTROL	Std. 1-10.5(1)
21	175	L.F.	BEAM GUARDRAIL TYPE 31 - XX FT LONG POST	Std. 8-11.5
22	1	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	Std. 8-11.5
23	1	EACH	BEAM GUARDRAIL ANCHOR TYPE 10	Std. 8-11.5
24		L.S.	ROADWAY SURVEYING	Special 1-05.4
25	1	EST.		Std. 2-01.5
26	1	L.S.		Sta. 2-11.5
21	1	E91.		Special 1-04.4(1)
۷۵		L.J.	SFUU FLAN	Sta. 1-07.15(1)

Manastash Rd			
Manastas	sh (Creek	
Bank Stab	oiliz	zation	
1/26/	202	23	
Designed By:		C. Curt	is
Entered By:		C. Curt	is
County Engineer:		J. Fredr	ickson
P.W. Director:		M. Cool	k
Revision		Date	Ву
Knor C	w w Cal	/hat's belo I before yo	DW. ou dig.
PROPERTY AND A STATE	RED.	RICKSON. HAM	
KITTITAS		THE COLUMBER	
FILAP-19		THE COLUMBER NTY d No. (001)	
FILAP-19 C.R.P. 273-		THE COLUMBLY NTY d No. (001) o.	
Federal FLAP-19 C.R.P. 273- General		THE COLUMBER NTY d No. (001) o.	





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Construction Notes

- D. Existing mailbox to be moved temporarily moved during project.
- E. Existing infrastructure to be preserved and protected throughout project.
- F. Existing Log Jam in creek.
- G. Existing Over Head Utility Poles to be protected and preserved throughout project.
- H. End of County Road (end of pavement).
- Existing Signs to be protected and preserved throughout project
- J. Existing Jersey Barrier to be removed.

Manastash Washout

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.

A. Start of Project: Sta. (M)12+00 = N593751.03 E1566934.00 (See PP-01 for profile details) B. End of Project: Sta. (M)17+00 = N593484.52 E1567356.58 (See PP-01 for profile details) C. Existing Driveway: Access to driveways shall be maintained throughout the project.

				Manast	ash Rd
				Manastas	sh Creek
				Bank Stab	bilization
Line Tat	ole: (M) Line			1/26/	2023
Direction • 47'06"E 3 52'31"E	Start Point (593868,1566772) (593810,1566854)	End Point (593810,1566854) (593742,1566947)		Designed By:	C. Curtis
2 26 03 E	(593742,1566947) (593703,1566996)	(593703,1566996) (593683,1567028)		Entered By:	C. Curtis
3' 58' 23 E 3' 04' 08"E 3' 55' 15"E	(593664,1567028) (593664,1567058) (593649,1567082)	(593649,1567082) (593636,1567105)		County Engineer:	J. Fredrickson
3°12'12"E 3°37'11"E 9°11'23"E	(593636,1567105) (593619,1567132) (593607,1567152)	(593619,1567132) (593607,1567152) (593546,1567254)		P.W. Director:	M. Cook
05' 04"E 0' 09' 08"E	(593546,1567254) (593483,1567359)	(593483,1567359) (593436,1567438)			
8°49'04"E 9°48'23"E 9°14'51"E	(593436,1567438) (593384,1567524) (593370,1567547)	(593384,1567524) (593370,1567547) (593336,1567605)			
9 17 10 E	(593336,1567605)	(593305,1567657)			
				Revision	Date By
			·		
0 L14	L15 (M)	20+00 -L10	6	Know Know Know Know Know	w what's below. Call before you dig.
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	1 inch = 40 ft			Federal	Aid No.
				C.R.P.	. No.
				Existing Co	onditions
				EX-01	02 /15

Line # Length



0

General Notes

- 1. All stationing is based on centerline of roadways unless otherwise noted.
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Construction Notes

A. Stream Diversion Structure



Rock Revetment (Sta. (M)12+75 to Sta. (M)14+00) Rock Revetment Transition Area, blend to match existing HMA replacement (Sta. (M)12+75 to Sta. (M)17+00)

Manastash Washout

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.









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- 5. Refer to the 2019 Department of Ecology Stormwater Management Manual for Eastern Washington.

- 6. All sedimentation and erosion control facilities must be in operation prior to any construction activities to ensure that sediment laden water does not enter the natural drainage system. The implementation, maintenance, replacement and additions to the erosion and sedimentation control systems shall be the responsibility of the contractor.
- 7. The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet anticipated site conditions. As construction progresses, additional facilities may be needed to ensure complete siltation control. It is the contractor's responsibility to address any conditions that may be created by construction activities or changing weather conditions, and to provide additional facilities as may be needed to protect sensitive areas or storm drainage systems.
- 8. The High Visibility Silt fence will delineate the clearing limits for this project.

Manastash Washout

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.



Construction Notes

- A. High visability silt fence per WSDOT standard plan I-30.17-01.
- B. Additional BMPs to be deployed as necessary

Т	ESC L	ine Table
Line #	Length	Direction
L1	342.33	N59°53'56.82"W
L2	40.83	N55°15'44.55"W
L3	11.95	N38°23'12.54"W
L4	40.39	N39°06'49.69"W
L5	33.02	N45°25'38.05"W
L6	46.77	S53° 56' 11.89"E
L7	6.39	N36°05'36.94"E
L8	14.66	N21°06'20.51"W
L9	85.65	N46°34'49.12"W
L10	96.65	N7°22'18.84"E
L11	54.18	S50°56'42.02"E
L12	98.15	S23°12'12.36"E
L13	34.02	S50°52'51.95"E
L14	94.77	S58° 13' 10.00"E
L15	36.98	S75°17'16.43"E
L16	58.10	S33° 59' 18.30"E
L17	20.25	S36°00'20.71"W
L18	11.47	S0° 43' 38.54"E
L19	101.02	S58° 56' 50.10"E
L20	12.82	N30°48'25.21"E
L21	135.07	S59°05'03.65"E
L22	12.83	S30°54'56.35"W
L23	19.91	S58°58′52.45"E



	GRAP	HIC	SCAL	Ð
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	1 inc	h = 40	D ft.	





		Line Tak
Line #	Length	Direction
L1	100.56	S54°47'06"E
L2	115.17	S53° 52' 31"E
L3	62.74	S52°26'03"E
L4	37.29	S56°24'29"E
L5	35.76	S58°58'23"E
L6	28.64	S58°04'08"E
L7	26.42	S58°55'15"E
L8	31.73	S58°12'12"E
L9	23.12	S58° 37' 11"E
L10	119.08	S59°11'23"E
L11	122.56	S59°05'04"E
L12	91.56	S59°09'08"E
L13	100.28	S58°49'04"E
L14	27.26	S59°48'23"E
L15	67.64	S59°14'51"E
L16	60.18	S59°17'10"E





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Manastash Washout

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.

Construction Notes

- A. Start Beam Guardrail Type 31 Sta. (M) 12+90. End Beam Guardrail Type 31 Sta (M) 14+65.
 Total length of GR 172.5ft (C-20.10-08). Station and offset to face of rail. Type 10 Anchor (C-23.60-04) Β.
- Beam Guardrail Type 31 Non-Flared Terminal (C-22.45-06) C.

	Manast	ash Rd	
	Manastas	h Creek	
	Bank Stab	ilization	
	1/26/	2023	
	Designed By:	C. Curtis	
	Entered By:	C. Curtis	
	County Engineer:	J. Fredricksor	
	P.W. Director:	M. Cook	
(M)15+00 C			
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	GR-01	07 /15	















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Construction Notes

- A. Match exisisting striping from Sta. (M) 12+78 to Sta. (M)16+00
- All other signs to be protected and preserved throughout project.

Manastash Washout

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.

B. Existing 'End of County Road' sign to be reinstalled at same location (Sta. (M)13+15 Offset: 19.7'R).







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Construction Notes

- A. Planting per schedule on this page. Additional Details in Special Provision #####
- B. Live poles shall be placed on the south bank of Manastash Creek from the toe of the slope to soil. Additional Details in Special Provsion #####

Manastash Washout

PT. SE $\frac{1}{4}$ SEC 14. & SW $\frac{1}{4}$ SEC 15 T17N R16E, W.M.

the ordinary high water mark. Seeding and mulching shall be placed on all areas of disturbed





LEGEND

 \bowtie

FLAGGING STATION TEMPORARY SIGN LOCATION \bigcirc CHANNELIZING DEVICES PROTECTIVE VEHICLE





ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

NOTES

- 1. ALL SIGNS ARE BLACK ON ORANGE.
- SHOULDER IS RECOMMENDED.
- FOR ADDITIONAL DETAILS.



2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS

3. SIGN W20-4 IS OPTIONAL ON 35 MPH ROADS.

4. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS

5. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.









Manastash Rd

C. Rock for erosion and scour protection minimum 3.5' deep.

13 /15







- ROCK BARB



SECTION B-B

	1		
	Manastash Rd		
	Manastash Creek		
	Bank Stabilization		
	1/26/2023		
)	Designed By:	C. Curtis	
	Entered By:	C. Curtis	
	County Engineer:	J. Fredrickson	
	P.W. Director:	M. Cook	
DR			
•			
	Revision	Date By	
	Know what's below. Call before you dig.		
	OPTION A		
	DT-03	15 / 15	

-ROCK FOR EROSION AND SCOUR PROTECTION CLASS C

¹/₂ INCH STEEL CHAIN (TYP.)

LOG WITH ROOTWAD (TYPE B LWM; SEE DT-02 FOR DETAILS)

-EYE BOLT EPOXIED INTO BOULDER (TYP.) Appendix B-Photos





KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS

Mark Cook, Director

February 3, 2023

Attention: Federal Permit Unit

Washington State Department of Ecology

Subject: Kittitas County Public Works; Manastash Road Bank Stabilization Project

JARPA Application Package

Kittitas County Public Works needs to repair an actively eroding bank on South Fork Manastash Creek that has caused on-going loss of the traveled surface of Manastash Road. The original roadway embankment at has been impacted by stream erosion. The design utilizes bio-engineered principles that are consistent with Washington Department of Fish and Wildlife (WDFW) Integrated Streambank Protection Guidelines, including flow deflection structures combined with a rock revetment with several pieces of large woody debris (LWD). The final repair will reconstruct the road embankment, provide longterm protection of the roadway, increase channel roughness and habitat complexity, and arrest further upand downstream erosion. The revetment and bank area will be planted with native riparian vegetation to replace lost riparian function and long-term roadway protection.

Enclosed please find a Joint Aquatic Resources Permit Application (JARPA) package for the subject project, complete with drawings, site photographs, and a Section 106 cultural resources assessment. I have also submitted a copy of the JARPA package to the US Army Corps of Engineers Seattle District, Regulatory Branch as the project meets the conditions of USACE Nationwide Permit 13, bank stabilization, and will not exceed state water quality standards.

I have submitted the JARPA to WDFW via their APPS web portal. I have spoken with Scott Downes (WDFW Area Habitat Biologist) regarding this project.

Please let me know of any questions or additional information. If you have questions, you can reach me by phone at 509-962-7051 or email me at <u>kelee.hodges.pw@co.kittitas.wa.us</u>.

Sincerely,

Kelee Hodges Environmental/Transportation Planner Kittitas County Public Works

Encl: Manastash Rd JARPA package;

Cc w/encl: Josh Fredrickson, Kittitas County Engineer