

**KING CONSERVATION DISTRICT  
BOARD OF SUPERVISORS MEETING**

**January 10, 2022**

**5:00 PM to 7:00 PM – via Teleconference Only**

**Zoom Link:** <https://zoom.us/j/95893176590>

**Call In Number: (253) 215-8782**

**Meeting ID: 95893176590**

Meeting Agenda

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Call to Order

- |   |                          |
|---|--------------------------|
| <b>1. Preliminary Matters</b>             | <b>5:00 PM – 5:10 PM</b> |
| a) Introductions                          |                          |
| b) Additions or Corrections to the Agenda |                          |
| c) Adoption of the Board Agenda           |                          |

- |                          |                          |
|--------------------------|--------------------------|
| <b>2. Consent Agenda</b> | <b>5:10 PM – 5:15 PM</b> |
|--------------------------|--------------------------|

Items listed below will be enacted by one motion. If separate discussion is desired on an item, that may be removed from the Consent Agenda and placed on the Regular Agenda at the request of a Board Supervisor.

- a) Board Minutes
  - 1. 12/13/2021 KCD BOS Meeting
  - 2. 12/14/21 KCD Advisory Committee
  
- b) Member Jurisdiction Grant Applications
  - 1. AI 22-001: City of Sea Tac-2022 Urban Forest Restoration – Saavedra

- |                          |                          |
|--------------------------|--------------------------|
| <b>3. Public Comment</b> | <b>5:15 PM – 5:20 PM</b> |
|--------------------------|--------------------------|

- |  |                          |
|--|--------------------------|
| <b>4. Reports</b>                                  | <b>5:20 PM – 5:35 PM</b> |
| a) Executive Director - Mendez-Perez               |                          |
| b) Board of Supervisors                            |                          |
| c) Washington Federation of State Employees (WFSE) |                          |

- |                                    |                          |
|------------------------------------|--------------------------|
| <b>5. Election Update - Dostal</b> | <b>5:35 PM – 5:40 PM</b> |
|------------------------------------|--------------------------|

- |   |                          |
|---|--------------------------|
| <b>6. Finance</b>                                 | <b>5:40 PM – 5:50 PM</b> |
| a) AI 22-002: Comprehensive Fiscal Policy – Lewis |                          |

- |   |                          |
|---|--------------------------|
| <b>7. Presentations</b>                             | <b>5:50 PM – 6:00 PM</b> |
| a) WSU Extension Forestry Education – Kevin Zobrist |                          |

- |   |                          |
|---|--------------------------|
| <b>8. Unfinished Business</b>   | <b>6:00 PM – 6:15 PM</b> |
| a) LIP Applications   |                          |
| 1. AI 21-078: Chris Hahn-Forest Management – Redmond                          |                          |
| 2. AI 21-079: Joh Jornlin & Christine Page – Riparian Forest Buffer – Redmond |                          |
| 3. AI 21-080: Gary Remlinger – Stream Crossing - Redmond                      |                          |



# Consent Agenda



# KING CONSERVATION DISTRICT

## Board of Supervisors Meeting Minutes

December 13th, 2021

1 **Supervisors Present:** Kirstin Haugen – Chair, Chris Porter – Vice Chair, Bill Knutsen –  
2 Supervisor, Brittney Bush Bollay – Supervisor, Burr Mosby – Supervisor

3 **Guests Present:** Jean Fike – WSCC, Michael Wilsey – WFSE, James Dannen –  
4 WFSE, Simon Farretta – King County Council, Alan Chapman – WACD, Erin  
5 Ericson – SVWID

6 **Staff Present:** Lorna Miss, Jessica Saavedra, Elizabeth Clark, Kathryn Lewis, Rosa Méndez-  
7 Perez, Mary Embleton, Laura Redmond, Carrie King, Mark Dostal, Erin Reed, Jamie Ward,  
8 Liz Stockton, Debbie Meisinger

### 9 **Preliminary Matters:**

10 Chair Haugen called the meeting to order at 5:00 PM. All attendees introduced themselves.

11 Chair Haugen asked for any additions or corrections to the agenda.

12 **Mosby moved; Bush Bollay seconded, passed unanimously a motion to approve the**  
13 **agenda (4-aves, 0-nays).**

### 14 **Consent Agenda:**

15 **Bush Bollay moved; Mosby seconded, passed unanimously a motion to approve the**  
16 **consent agenda (4-aves, 0-nays).**

17 **Public Comment:** There was no public comment.

### 18 **Reports:**

19  
20 Executive Director Méndez-Perez provided a monthly report to the Board.

21 Jessica Saavedra, shop steward, provided a monthly report for WFSE.

### 22 **Finance:**

23 Lewis presented the proposed 2022 budget, in alignment with the Interlocal Agreement with  
24 King County.

25 **Knutsen moved; Porter seconded, passed unanimously a motion to approve AI 21-081:**  
26 **2022 Budget (5-aves, 0-nays).**

27 Erin Reed presented the KCD financial update and AI 21-083:Check Register.



**Bush Bollay moved; Porter seconded, passed unanimously a motion to approve AI 21-083: Check Register (5-aves, 0-nays).**

**Unfinished Business:**

Rosa Méndez-Perez presented AI 21-084: 2022 – 2026 Long Range Plan for consideration.

**Bush Bollay moved; Porter seconded, passed unanimously a motion to approve AI 21-084: 2022-2026 Long Range Plan (4-aves, 1-nay).**

The board discussed conservation district election reform.

**Mosby moved; Knutsen seconded, an amendment to strike section 2 “King Conservation District opposes land ownership and farm operator requirements for election to the Board of Supervisors” on AI 21-0072: Resolution #21-007: Conservation District Election Reform. Amendment failed (2-aves, 3-nays).**

**Bush Bollay moved; Porter seconded, a motion to approve AI 21-072: Resolution #21-007: Conservation District Election Reform. Motion passed (3-aves, 2-nays).**

Méndez-Perez presented the updated Cost Share Policy.

**Bush Bollay moved; Porter seconded, passed unanimously a motion to approve AI 21-077: Resolution #21-009: Cost Share Policy (5-aves, 0-nays).**

Mark Dostal presented the 2020 KCD Annual Report.

**Knutsen moved; Mosby seconded, passed unanimously a motion to approve AI 21-082: 2020 KCD Annual Report (5-aves, 0-nays).**

**New Business:**

Laura Redmond presented Landowner Incentive Program Applications – AI 21-078: Chris Hahn-Forest Health Management, AI 21-079: Joe Jornlin & Christine Page – Riparian Forest Buffer, and AI 21-080: Gary Remlinger – Stream Crossing. The Board will consider the applications at the January meeting.

There was no more business before the Board.

**Porter moved; Bush Bollay seconded, passed unanimously a motion to adjourn the meeting at 6:52 PM (5-aves, 0-nays).**



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62 \_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

63

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**Summary of Motions**

65 **Mosby moved; Bush Bollay seconded, passed unanimously a motion to approve the**  
66 **agenda (4-aves, 0-nays).**

67 **Bush Bollay moved; Mosby seconded, passed unanimously a motion to approve the**  
68 **consent agenda (4-aves, 0-nays).**

69 **Knutsen moved; Porter seconded, passed unanimously a motion to approve AI 21-081:**  
70 **2022 Budget (5-aves, 0-nays).**

71 **Bush Bollay moved; Porter seconded, passed unanimously a motion to approve AI 21-**  
72 **083: Check Register (5-aves, 0-nays).**

73 **Bush Bollay moved; Porter seconded, passed unanimously a motion to approve AI 21-**  
74 **084: 2022-2026 Long Range Plan (4-aves, 1-nay).**

75 **Mosby moved; Knutsen seconded, an amendment to strike section 2 “King**  
76 **Conservation District opposes land ownership and farm operator requirements for**  
77 **election to the Board of Supervisors” on AI 21-0072: Resolution #21-007: Conservation**  
78 **District Election Reform. Amendment failed (2-aves, 3-nays).**

79 **Bush Bollay moved; Porter seconded, a motion to approve AI 21-072: Resolution #21-**  
80 **007: Conservation District Election Reform. Motion passed (3-aves, 2-nays).**

81 **Bush Bollay moved; Porter seconded, passed unanimously a motion to approve AI 21-**  
82 **077: Resolution #21-009: Cost Share Policy (5-aves, 0-nays).**

83 **Knutsen moved; Mosby seconded, passed unanimously a motion to approve AI 21-082:**  
84 **2020 KCD Annual Report (5-aves, 0-nays).**

85 **Porter moved; Bush Bollay seconded, passed unanimously a motion to adjourn the**  
86 **meeting at 6:52 PM (5-aves, 0-nays).**



# KING CONSERVATION DISTRICT

## Advisory Committee Meeting Minutes

December 14<sup>th</sup>, 2021

**Committee Members Present:** Councilmember Kelli Curtis – City of Kirkland, Councilmember Victoria Hunt – City of Issaquah, Councilmember Vanessa Kritzer – City of Redmond, Kirstin Haugen – KCD Supervisor, Councilmember Amy McHenry – City of Duvall, Jake Tracy – King County Council, Jeff Boyce – Rural Forest Commission, Sharon Lerman – City of Seattle, Michael Lufkin – King County, Councilmember Mark Phillips – City of Lake Forest Park, Heather Trim, Councilmember Brenda Fincher – City of Kent

**Other Attendees Present:** Mark Dostal – KCD Staff, Rosa Méndez-Perez – KCD Executive Director, Lorna Miss – KCD Staff, Erin Reed – Your Part-time Controller, Kathryn Lewis – KCD Staff, Jessica Saavedra – KCD Staff, Rachel Konrady – City of Kirkland, Peter Holte – City of Redmond, Kazia Mermel – Sound Cities Association

### **Preliminary Matters:**

The meeting was called to order at 10:03 AM. All attendees introduced themselves.

Farewell given to Councilmember Mark Phillips – City of Lake Forest Park and Councilmember Amy McHenry – City of Duvall for their last meeting serving on the Advisory Committee.

### **Public Comment:**

There was no public comment.

### **Executive Director Report:**

Rosa Méndez-Perez provided her Executive Director Report update. The report discussed actions taken to improve KCD's operations including engaging a payroll processing service, standardizing financial reporting, and development of the 2022 Budget approved by the Board of Supervisors on 12/13/2021. The report concluded with actions to look forward to in 2022 including development of a strategic plan with stakeholder engagement, continued board of supervisors' development, and diversity and equity training.

### **Financial Update:**

Kathryn Lewis presented work that is being done by the finance team to reform budget and finance reporting at the District. Work includes a more collaborative budgeting process, with system improvements to increase transparency and timeliness of budget information to management and important stakeholder groups. Ms. Lewis proposed returning to the Advisory Committee in spring 2022 to give an update on progress toward these goals.

Erin Reed presented the KCD financial statements, talking about the fact that KCD has gone through a series of significant transitions in 2021. These changes place KCD on the path to better transparency and accountability with funders and staff. Transactional recording is complete



Page 2 of 2  
King Conservation District  
Advisory Committee Meeting  
December 14th, 2021

through October 31, 2021. The financials are presented on a Cash Basis BARS method. Next steps will be to complete November and then year-end financial statements. We will also be focused on supporting the implementation of the new QuickBooks and Payroll Systems.

**2022 Meeting Schedule:**

The 2022 KCD Advisory Committee meeting schedule was discussed. There was consensus to keep meetings every other month.

Members requested more discussion on program work at future meetings.

**Staff Presentations:**

Jessica Saavedra gave a presentation on the City of Seattle Community Grant Program.

**Annual Report Design/Transmittal Update:**

Dostal reviewed and approved the final 2020 KCD Annual Report and its transmittal to King County. Dostal noted that not all suggested changes were in the 2020 Annual Report, but that KCD would be working to incorporate additional Advisory Committee feedback into the 2021 Annual Report. The 2021 Annual Report will be worked on in the 1<sup>st</sup> quarter of 2022 and KCD staff will again invite the Advisory Committee to provide input and feedback.

The meeting adjourned at 11:32 AM.

Authorized Signature

Date



**King Conservation District Board of Supervisors Meeting****Agenda Action Briefing/Report****Meeting Date: January 10<sup>th</sup>, 2022****SUBJECT: AI 22 -001**

- Motion to approve the Member Jurisdiction grant application from the City of SeaTac for the 2022 Urban Forest Restoration project

**FISCAL IMPACT**

- The applicant is requesting \$29,600.00 from 2020-2022 KCD-SeaTac Member Jurisdiction Funds

**POLICY CONSIDERATION**

This proposal addresses the following natural resource improvement actions

- Direct Improvement of Natural Resources - Yes
- Education and Outreach - Yes
- Pilot and Demonstration Projects - No
- Capacity Building - Yes

**PRINCIPAL PARTNERS**

- Forterra

**BACKGROUND**

This proposal was reviewed at the November 29<sup>th</sup>, 2021, grant subcommittee meeting on. The request is for more funds than was available to award in 2021 and was pushed to the January 10<sup>th</sup>, 2022, board meeting, when 2022 funds can be awarded. This is an urban forestry project that proposes to partner with Forterra, SeaTac Parks, Community Programs & Services Department is seeking funding to sustain urban forest restoration efforts within parks for the 2022 calendar year.

**EFFECTIVE DATE:**

- If approved, this Motion becomes effective on the date of approval.
- The grant project proposes to start on 01/03/2022 and end on 12/31/2022

**OPTIONS**

- Vote in favor or not in favor of approving the consent agenda.
- Request that this item be removed from the consent agenda for discussion.

**RECOMMENDATION**

The grant subcommittee recommends approval of this grant application.

**MOTION**

Motion to approve the Member Jurisdiction grant application for \$29,600.00 from 2020-2022 KCD-SeaTac Member Jurisdiction funds for the *City of SeaTac 2022 Urban Forest Restoration project*



## 2022 Urban Forest Restoration

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### *Member Jurisdiction Grant Program*

#### ***SeaTac***

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4800 S. 188th Street  
SeaTac, WA 98188

O: 206-973-4681

#### ***Mr Michael Fitzpatrick***

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4800 S. 188th ST  
SeaTac, WA 98188

[mfitzpatrick@seatacwa.gov](mailto:mfitzpatrick@seatacwa.gov)

O: 206-973-4671

M: 206-571-1795



# Application Form

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## *Summary Information*

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### **Project Title\***

2022 Urban Forest Restoration

### **Project Description - Short\***

Provide a short, concise description of the project no more than two or three sentences.

Partnering with Fonterra, SeaTac Parks, Community Programs & Services Department is seeking funding to sustain urban forest restoration efforts within parks for the 2022 calendar year.

### **Principal Partners (if any)**

Fonterra

### **Amount of KCD Funding Requested\***

You will need to upload a detailed budget document before you submit your application. Please make sure the amount requested and total project cost amounts you list here match the amounts in the uploaded budget document.

\$29,600.00

### **Total Project Cost\***

\$44,600.00

### **Total Matching Funds (optional)**

\$15,000.00

### **Project Start Date\***

01/03/2022

### **Project End Date\***

12/31/2022



## Close Date

### Project Location\*

Address, Parcel #, OR L&L Points, for site specific projects only.

If more than two locations, state “multiple” and explain.

North SeaTac Park- Des Moines Memorial Drive between S. 128th & S. 136th St.

Angle Lake Nature Trail- Parcel# 0422049009

### Jurisdiction

If the applicant is not a city or jurisdiction, please type in the city or jurisdiction this project is located in.

### Is your project on public or private land?\*

Public

### State Legislative District #\*

Click here to find it on the web. If your project resides in more than one district, type in the primary district or type in zero.

33

### King County District #\*

Click here to find it on the web. If your project resides in more than one district, type in the primary district or type in zero.

5

## *Narratives, Budget, & Attachments*

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### Project Description - Detailed\*

Provide a description of the project that summarizes what you will do, how you will do it, and why you will do it. Describe target audience, outcomes, objectives and general timelines.

Grant funding will be used to continue urban forest restoration activities in North SeaTac Park and Angle Lake Nature Trail. Partnering with Forterra, five key tasks are outlined below to continue implementing in 2022.

Task One: Forest Steward Training, Support and Retention



The Forest Steward program serves as the framework for community-based volunteer engagement. Forest Stewards are recruited, trained and then assume responsibility to care for a specific site, and when possible, lead other volunteers. Comprehensive support and growth of the Forest Stewards helps ensure the long-term success of the Green SeaTac Partnership.

#### Task Two: Volunteer and Forest Steward Recruitment

Outreach, recruitment, and promotion of the Green SeaTac Partnership allows the program to maintain a presence in the community and increase the visibility and brand. A community-based forest restoration program that is dependent on volunteers must have consistent outreach in many forms to access potential partners.

#### Task Three: Volunteer Event Support including Green SeaTac Day

The Green SeaTac Partnership includes volunteer events hosted by various partner organizations and Forest Stewards, and individual work done by Forest Stewards. While volunteer event support from Forterra will not be needed for all events, it is important to have capacity to accommodate schools, interested groups, support Forest Stewards and participate in special events (i.e. Arbor Day, Earth Day, MLK Day, Day of Caring, etc.).

#### Task Four: Program Tracking and Reporting

As a young program it is critical for the Green SeaTac Partnership to demonstrate success. Forterra will track and report the forest restoration and volunteer engagement progress and capture the work of all the different partner entities involved.

#### Task Five: Administration and Resources

It is important for the Partnership to plan and measure the progress toward meeting both the annual and 20-year plan goals and apply adaptive management to restoration strategies and volunteer recruitment as needed.

## Project Activities and Measurable Results\*

List specific project activities to be completed with KCD grant funds and the associated outcomes or measurable results, and timeline.

During the 2022 calendar year, the following deliverables associated with each task will be provided.

#### Task One Deliverables

- Coordinate and implement Forest Steward Orientations as needed to train at least 5 new forest stewards, including correspondences with potential stewards, presentations and match them with a project that meets their interest and goals of the Partnership.
- Serve as the main contact for current and new Forest Stewards:
  - ☐ Respond to questions and troubleshoot problems
  - ☐ Collect and track upcoming Forest Steward events and tool/materials requests
  - ☐ Coordinate and communicate Forest Steward activities and needs with City staff



- Coordinate one training open to Forest Stewards and the public, topic TBD (native plant ID, plant stock and planting techniques, ethnobotany, live-staking, restoration and gardening for wildlife, etc.)
- Organize at least one site visit per year for each park with a Forest Steward in coordination with City of SeaTac, take notes and follow up on action items
- Organize an annual appreciation event/offering to thank Forest Stewards for their service (i.e. tour, BBQ, prize, gift, etc.)

#### Task Two Deliverables

- Help to recruit volunteers city-wide either through 8 sponsored social media posts or tabling at least two local events (i.e. Arbor Day)
- Connect with at least 2 priority community groups, schools, or leaders to discuss their potential participation and opportunities to become a Green SeaTac Forest Steward
- Coordinate with King Conservation District, Partner in Employment and other community partners that may be involved in stewardship activities on City of SeaTac property
- Provide content and event information to City of SeaTac/Green SeaTac Partnership webpage
- Utilize Forterra website, Green Cities blog, and Forterra's social and traditional media channels for promotion, and advertise volunteer opportunities with local outlets (e.g. United Way, Volunteer Match, SeaTac newspapers, blogs and other community forums)
- Serve as the main contact (via e-mail and phone) for Green SeaTac Partnership public inquiries. Update and manage volunteer and supporters e-mail list
- Send e-newsletter with upcoming events and happenings to e-mail distribution list every other month
- Provide content to City of SeaTac publications as requested by the City for presentations, local newspapers, etc.
- In coordination with the City, create videos and print guides as needed to engage residents

#### Task Three Deliverables

- Either develop and staff five work parties, or support at least 100 hours of steward-led individual/small group volunteer hours.
- Host and coordinate Green SeaTac Day forest planting event including recruitment, registration and participation, materials and volunteer management with partner organizations

#### Task Four Deliverables

- Maintain Green SeaTac CEDAR database (includes hosting fees) and train Forest Stewards and work crews to create events, log supply needs, and collect and enter all work log and sign in sheet information into the database
- Maintain a list of Forest Stewards with contact information, status, park, and orientation year
- Submit end of year report with program statistics

#### Task Five Deliverables

- Create a one-page annual report with final outcomes of prior year for the public
- Meet each month with City of SeaTac staff to coordinate on deliverables and strategic planning for the Green SeaTac Partnership
- Administrate contract to stay on task and within budget. Submit monthly invoices and progress reports
- Coordinate an annual planning meeting with all Green SeaTac partners

#### Additional Deliverables (at no cost to City of SeaTac)

- Access to Green Cities Network maintained by Forterra, including email group with news and announcements relevant to Green Cities, upcoming trainings, webinars, conferences, grants, and new research
- Opportunities to participate in Green Cities Network quarterly focus groups and annual summit
- Green Cities outreach and publicity such as a regional press release highlighting work of all Green City Days and Green Cities materials or presentations at regional events
- Coordination on possible funding opportunities for Green SeaTac Partnership via grants and donations



## Project Budget and Expenses\*

Fill out and upload separate Application Budget Form also available on the KCD Member Jurisdiction Grant Program website. Budget must be detailed with footnotes, appropriate and reasonable, *meeting state auditor/GAAP guidelines. Please do not use forms from previous applications. Please only upload the form linked above. Thank you!*

KCD\_GrantBudgetForm.xlsx

## Member Jurisdiction Authorization Letter

If you are a nonprofit organization seeking Member Jurisdiction funding, you must upload written authorization from the Member Jurisdiction to apply for funding. This can be in the form of a letter or scanned copy of an email.

## Additional Attachments

Upload any photos or maps of your project here. Only one file will be accepted. Please combine multiple files into one if possible.

## Natural Resource Improvement Actions- Criteria Checklist

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**You must select at least one natural resource improvement action, otherwise your application is not eligible.**

However, please only select "yes" below the action that your project **directly** addresses.

### Direct Improvement of Natural Resource Conditions\*

To improve landscape and natural resource conditions as a result of direct action that enhances water quality, protects and conserves soils, implements ecosystem restoration and preservation projects (*examples include supporting private property owners with land stewardship, water quality, aquatic and wildlife habitat resources, removal of invasive weeds, stewardship on public land*)

**Does your project directly address this issue?**

Yes

### Education and Outreach\*

To raise awareness, deepen knowledge, and change behaviors of residents, landowners, and other land managers and organizations to practice exemplary stewardship of natural resources (*examples include education about stormwater management; the value of farmland, local farms and food systems, shorelines, salmon habitat, forests and other ecosystems*)

**Does your project directly address this issue?**



Yes

### Pilot and Demonstration Projects\*

To test and/or improve concepts and/or approaches in natural resource management that can be replicated by others *(examples include low impact development or green infrastructure demonstration projects, development of new best management practices, distribution of local farm products, urban agriculture (e.g. farmers markets and backyard food production to promote or support social economic independence and healthy living); technological innovation for natural resource conservation)*

Does your project directly address this issue?

No

### Capacity Building\*

To enhance the ability of organizations, agencies, residential landowners and other land owners and managers to have knowledge, skills, tools, support systems and technical resources to implement exemplary best management practices and deliver natural resource management actions on the ground *(examples include urban agriculture development, assistance to and inclusion of private property owners, preservation, restoration, and/or expansion of urban and/or rural agricultural lands, rural and urban forest lands, riparian restoration and stewardship on private and public lands)*

Does your project directly address this issue?

Yes

### Project Type\*

Forestry, Urban

## KCD Acknowledgement and Signature

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By signing below, the applicant agrees to acknowledge King Conservation District funding by placing the KCD-provided logo on signs, materials, and documents produced as part of the above proposal. In addition, the applicant will notify KCD of public events and activities funded by the KCD.

\*

I have read the above paragraph about acknowledging KCD and I will use the provided logo.

### Authorized Applicant Electronic Signature\*

Please enter your full name to sign and agree to the above.



Michael T. Fitzpatrick

**Title**

Parks Projects & Operations Manager

**Date\***

11/18/2021



## File Attachment Summary

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### *Applicant File Uploads*

- KCD\_GrantBudgetForm.xlsx





## Member Jurisdiction Grant Program

### Grant Application Project Budget Form

*Promoting sustainable uses of natural resources  
through responsible stewardship*

Project Name	SeaTac Urban Forest Restorations		
Applicant	City of SeaTac- Parks, Community Programs & Services Department		
Contact	Michael Fitzpatrick		
Mailing Address	4800 S. 188th ST. SeaTac, WA 98188		
E-mail	<a href="mailto:mfitzpatrick@seatacwa.gov">mfitzpatrick@seatacwa.gov</a>	Project Start Date:	1/1/2022
Phone	(206)973-4671	Project End Date:	12/31/2022

**Please provide detailed budget information below. Itemize categories such as supplies, contracted services with footnotes and detailed descriptions below**

Budget Item	KCD Funds	Other Funds	Other Funds	Total
		<i>(identify source and status of matching funds here ex. Rose Foundation - Pending)</i>	<i>(identify source and status of matching funds here ex. DON Small and Simple - Secured)</i>	
Salaries & Benefits	\$26,920	\$13,680		\$40,600
Travel/ Meals/ Mileage for Forterra Staff	\$737	\$363		\$1,100
Field Supplies (plants, tools, snacks for work parties)	\$938	\$462		\$1,400
Website Hosting Fees/Services (Cedar Database)	\$1,005	\$495		\$1,500
<b>TOTAL</b>	<b>\$29,600</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$44,600</b>

Total Project Cost	<b>\$44,600</b>
Total Match	<b>\$15,000</b>
Amount of KCD Funding Requested	<b>\$29,600</b>
Match Percentage	<b>34%</b>

*Footnotes:*



# Finance



**King Conservation District Board of Supervisors Meeting**  
**Agenda Action Briefing/Report**  
**Meeting Date: January 10, 2022**

**SUBJECT: AI 22-002**

- Review Proposed Draft Purchasing Policy

**FISCAL IMPACT**

- This item has no direct fiscal impact.

**POLICY CONSIDERATION**

- It is prudent and good government practice for a Conservation District to have Board-approved purchasing policy, to ensure good stewardship of tax dollars when spending decisions are being made by District staff.

**STAKEHOLDER INTERESTS**

- This policy will ensure that purchasing decisions are being conducted and recorded in a manner that shows accountability to King Conservation District stakeholders and promulgate fair and open competition in administration of goods and service purchases.

**BACKGROUND**

- Although King Conservation District records include a host of 'standard operating procedures' for financial management, the State Auditor's Office pointed out in the 2019 audit (conducted Spring, 2021) that the District lacked a Board-approved purchasing policy.
- District staff have developed a proposed draft for review which generally follows Municipal Research & Service Center Guidelines for Conservation Districts, but which is adapted to the particular needs of the District.
- This proposed draft policy will join with the previously approved Small Works Roster policy and other financial policies to be developed to become a Board-approved Comprehensive Fiscal Policies document to guide all district financial practices.

**EFFECTIVE DATE:**

- This item becomes effective when adopted by the Board of Supervisors through resolution.

**OPTIONS**

- Board members review the proposed draft policy and suggest revisions/improvements as necessary

**RECOMMENDATION**

- Staff recommends that the Board review the proposed draft policy

**MOTION**

- Not an action item for this agenda



# KING CONSERVATION DISTRICT COMPREHENSIVE FISCAL POLICY

DRAFT



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## **FIN-1: PROCUREMENT POLICIES AND PROCEDURES<sup>1</sup>**

### **Section 1. General Terms, Ethics and Best Practices**

#### **1.1 Conflict of Interest**

All persons involved in District purchasing are required to follow the rules regarding conflicts of interests as set forth in Chapter 42.23 RCW as now or hereafter amended and, in addition thereto, are expressly prohibited from accepting, directly or indirectly, from any person, company, firm or contractor to which any procurement or contract is or might be awarded, any rebate, gift, money or anything of value whatsoever, except where given for the use and benefit of the District.

#### **1.2 Review of Need for Procurement**

Where appropriate, District staff and authorized representatives will analyze lease and purchase alternatives to determine which will be the most economical and practical procurement.

#### **1.3 Protection of Natural Resources**

To the extent practicable and economically feasible, District staff and authorized representatives will prefer products and services that conserve natural resources, protect the environment, and are energy efficient.

#### **1.4 Small, Minority and Women-Owned Businesses**

The District will make efforts to utilize small businesses, minority-owned businesses, and women-owned business enterprises, whenever possible.

#### **1.5 Documentation**

The District will maintain purchasing records for at least six years after close of contract, unless a longer term is stipulated by a funding agency.

#### **1.6 Licensure**

The District shall not enter into or execute a contract with a contractor who is not registered or licensed as required by the laws of the state of Washington.

#### **1.7 Best Practices**

- a. In developing specifications for bids or proposals, the District will take all reasonable effort to ensure that a variety of vendors shall be capable of fulfilling the stated requirements and the notice is clear and accurate.
- b. The District will undertake reasonable effort to provide a clear and accurate description of the technical requirement for the material, product or service to be procured. If the bid is for a product, and a specific brand is mentioned, the District will also include the term "or equal" afterwards.

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<sup>1</sup> FIN-1: Procurement Policies and Procedures Jan2021 Draft



## 1.8 Other Guidance (MRSC)

In general the District follows guidance published by the Municipal Research and Services Center of Washington (MRSC) entitled "Purchasing, Bidding and Contracting for Washington State Conservation Districts." Where this policy conflicts with MRSC guidance, this policy shall take precedence.

## Section 2. Purchasing Authority

The District Executive Director has the authority to approve any purchases of goods and services included in the Board-approved budget up to \$15,000. All purchases over \$15,000, and all contracts for Member Jurisdiction or Regional Food grants require specific Board approval.

### 2.1 Delegation of Purchasing Authority

The Executive Director may delegate their purchasing authority stated above to any District staff member Program Manager level or above. Such delegation may be general, or specific to a particular purchase or contract, and must be formally stated in writing and kept as a matter of record in all purchasing records required and detailed in this policy.

## Section 3. Definitions

**"Architectural and Engineering Services"** means services performed by any person, other than as an employee of the District, which are within the scope of services regulated by Chapters 18.08 (Architects), 18.43 (Engineers and Land Surveyors) or 18.96 (Landscape Architects) RCW.

**"Micro-Purchases"** as defined by 2 CFR § 200.320 means a technique for making purchases under a cost threshold without the requirement for competitive bids or price quotations, if the price is considered reasonable. The District uses such procedures in order to expedite the completion of its lowest-dollar small purchase transactions and minimize the associated administrative burden and cost.

**"Non Public Works"** means all work, construction, alternation, repair or improvements which are outside of the definition of RCW 39.04.010, including projects which would be Public Works except the funding is from sources other than the state or any municipality of the state.

**"Personal Services"** means professional or technical expertise provided by a consultant to accomplish a specific study, project, task, or other work statement which may not reasonably be required in connection with a public works project. Architectural and Engineering Services can not be considered Personal Services.

**"Professional Services"** means services requiring special or advanced knowledge and training, usually advanced education and involving mental or intellectual rather than physical or manual labor or skill and the consistent exercise of judgment and discretion in a specific field or endeavor.

**"Public Works"** means all work, construction, alteration, repair or improvement other than ordinary maintenance, executed at the cost of the state or of any municipality, or which is by law a lien or charge on any property therein, and as further defined by RCW 39.04.010.

**"Purchased Services"** means services provided by a vendor to accomplish routine, continuing, and necessary functions. "Purchased services" includes, but is not limited to: services for equipment



maintenance and repair; operation of a physical plant; security; computer hardware and software maintenance; data entry; key punch services; and computer time-sharing, contract programming, and analysis.

**“Responsive”** means a bidder, vendor, or offeror who has submitted a bid or proposal which conforms in all material respects to the invitation for bids, quotes or request for proposal.

**“Services”** means any labor, time or effort performed by an independent contractor. This term shall not include employment agreements.

**“Simplified Acquisition Threshold”** as defined by 2 CFR § 200.88 means the dollar amount below which a non-Federal entity may purchase property or services using small purchase methods. The Simplified Acquisition Threshold is set by the Federal Acquisition Regulation (FAR) at 48 CFR Subpart 2.1 (Definitions) and in accordance with 41 U.S.C. 1908. As of the publication of this part, the simplified acquisition threshold is \$250,000, but this threshold is periodically adjusted for inflation. As directed in Office of Management and Budget (OMB) Memorandum M-18-18 dated June 20, 2018 (Memorandum M-18-18), EPA has adopted a policy which provides that the 2 CFR 200.67 Micro-Purchase Threshold for procurements by EPA financial assistance recipients and their subrecipients is \$10,000 and the 2 CFR 200.88 Simplified Acquisition Threshold is \$250,000. <https://www.epa.gov/grants/rain-2018-g04>

**“Sole Source”** means any good or service where there is only one vendor capable of providing an item or service, making it impossible or impracticable to obtain competitive bids. Sole source contracting or purchasing must be accompanied by a memorandum explaining the research that was done to consider a good or service “Sole Source.”

#### Section 4. Purchase of Equipment, Materials and Supplies

The purchase of equipment, materials and supplies shall follow this section.

##### 4.1 Federal or State Funds.

When procurement involves the expenditure of state or federal funds or grants, purchasing shall be conducted in accordance with any applicable federal or state laws or regulations

##### 4.2 Breaking Down or Splitting Purchases

The breaking down, or splitting, of any purchase or contracts into units or phases for the purpose of avoiding the maximum dollar spending thresholds is prohibited.

##### 4.3 Emergency Procurements

Notwithstanding any other provisions of this chapter, the Director or designated agent may make or authorize others to make emergency procurements of materials, supplies, equipment, or services without complying with the requirements of this section when there exists a threat to public health, welfare, or safety or threat to proper performance of essential functions; provided, that such emergency procurements shall be made with such competition as is practicable under the circumstances. A written determination of the basis for the emergency and for the selection of the particular contractor shall be included in the contract file. As soon as practicable, a record of each emergency procurement shall be made



and shall set forth the contractor's name, the amount and type of the contract, and listing of the item(s) procured under the contract, which shall be reported to the Board of Supervisors at the next subsequent meeting.

**4.4 Aggregation of Costs for Purchases of Materials, Supplies, or Materials**

Purchase limitations apply to the cost of individual items or the sum of the same items purchased at the same time to fulfill a specific business need, which are not part of a public works project as defined by RCW 39.04.010 and this policy. Cost is inclusive of sales tax, delivery charges and any related miscellaneous charges.

**4.5 Purchases under \$3,500**

Purchases of Goods and Equipment under \$3,500 qualify as Micro-Purchases and do not require formal competitive quotes. District staff may make Micro-Purchases for items up to \$3,500 included in the Board approved budget with the approval of their Program Manager.

**4.6 Purchases From \$3,500 up to \$15,000**

- a. A District representative will make an effort to contact at least three vendors. The number of vendors contacted may be reduced if the item being sought is only available from a smaller number of vendors. When fewer than three quotes are requested or if there are fewer than three replies, an explanation shall be placed in the procurement file.
- b. Whenever possible, quotes will be solicited on a lump sum or fixed unit price basis.
- c. At the time quotes are solicited, the District representative shall not inform a vendor of any other vendor's quote.
- d. A written record shall be made by the District representative of each vendor's quote on the materials, supplies, or equipment, and of any conditions imposed on the quote by such vendor.
- e. All of the quotes shall be collected and presented at the same time to the appropriate designee as appropriate for consideration, determination of the lowest responsible vendor and award of purchase. Purchases need not be awarded to lowest cost proposer if factors related to quality, experience, or support for local providers warrants selection of a higher quote. Sole source providers will be documented with rationale in writing.
- f. Whenever there is a reason to believe that the lowest acceptable quote is not the best price obtainable, all quotes may be rejected and the District may obtain new quotes or enter into direct negotiations to achieve the best possible price. In this case, the department shall document, in writing, the basis upon which the determination was made for the award.
- g. The Executive Director or their designee may approve purchases from \$3,500 up to \$15,000 for items included in the Board approved budget.



#### 4.7 Purchases Greater Than \$15,000

- a. Unless otherwise specifically approved by the Board of Supervisors, all contracts related to the purchase of materials, equipment, or supplies, shall be in accordance with the spending authority delineated elsewhere in the District's Financial Policies.
- b. Invitation for Bids. An invitation for bids shall be issued which shall include the specifications and the contractual terms and conditions applicable to the procurement.
- c. Public Notice. Public notice of the invitation for bids shall be published at least once in the Seattle Daily Journal of Commerce, not less than 13 calendar days prior to the date set forth therein for the opening of bids, unless for good cause shown, the District Board authorizes a different period of time. The public notice shall state the date and time of bid opening. Bids not received by the date and time stated for bid opening will not be accepted or considered.
- d. Bid Opening. Bids shall be opened publicly and recorded at the time and place designated in the invitation for bids.
- e. Withdrawal of Bids. Cancellation of Awards. Bids may be modified or the bid may be withdrawn by written or telegraphic notice received in the office designated in the invitation for bids prior to the time set for opening. After bid opening, withdrawal of bids shall be permitted only to the extent that the bidder can show by clear and convincing evidence presented in a sworn affidavit or declaration submitted no later than 5:00 p.m. on the first business day after bid opening, that a clerical mistake was made and not a mistake in judgment, and the bid price actually intended. All decisions to permit the withdrawal of bids after bid opening, or to cancel awards or contracts based on bid mistakes, shall be made by the Director.
- f. Award. The Board of Supervisors shall award purchases for amounts greater than \$15,000. The award of bid shall be made to the lowest responsible bidder whose bid meets the specifications and evaluation criteria set forth in the invitation for bids. The District may reject all bids at its discretion.
- g. Lowest Responsible Vendor. The following factors, in addition to price, may be taken into account by the District in determining the lowest responsible vendor; these criteria shall also apply in selecting products or services either offered with, or associated indirectly with, District programs or facilities:
  - i. Any preferences provided by law to local products and vendors;
  - ii. The ability, capacity, and skill of the vendor to perform the contract;
  - iii. The character, integrity, reputation, judgment, experience, and efficiency of the vendor;
  - iv. Whether the vendor can perform the contract within the time specified;
  - v. The quality of performance of previous contracts or services;
  - vi. The previous and existing compliance by the vendor with laws relating to the contract;

**Commented [MKL1]:** What about plant materials for the Native Plant Sale?



vii. Such other information as may be secured having a bearing on the decision to award the contract.

g. Purchases of items above \$15,000 must be approved by the Board of Supervisors.

## **Section 5. Purchase of Personal Services**

The purchase of personal services shall follow this section. For services purchased other than public works or architectural or engineering services, the following policies will apply..

### **5.1 Purchases of Personal Services Less than \$15,000**

Purchases of Personal Services up to \$15,000 require minimal competition or selection from a recognized roster.

- a. Seeking competition is always recommended, though not required for purchase of personal services up to \$15,000.
- b. Telephone calls can be made to firms or individuals describing the services desired and requesting price, schedule and qualifications to perform.
- c. Personal Services Contract is entered into upon selection of the subcontractor. The Executive Director or their designee may execute personal services contracts up to \$15,000 included in the Board approved budget.

### **5.2 Purchases of Personal Services More Than \$15,000**

Purchases of Personal Services more than \$15,000 require a Request for Proposal and evaluation of the proposals according to this procedure.

- a. Prepare formal solicitation document (Request for Proposals or Request for Qualifications/Quotations), include all requirements in order for proposers to understand what the District needs and how the District will evaluate responses.
- b. Publish RFP/RFQ solicitation notice on District website and distribute to a minimum of 6 local firms/individuals by fax or email.
- c. Develop ranking criteria and record scoring by evaluators.
- d. Maintain record of all RFP/RFQ potential bidders and ensure that all information and clarifications are distributed to all RFP/RFQ package holders. Note date and time of all submittals received in this record.
- e. Rank submittals and record scoring by evaluators. Conduct interviews if necessary, and select top finalist(s). Negotiate contract with top firm. Notify unsuccessful firms in writing.
- f. Conduct debriefing conference with any unsuccessful proposer if requested.
- g. Personal Services Contract is entered into upon selection of the subcontractor. Personal Services contracts over \$15,000 in value must be brought to the Board for Board of Supervisor approval.



## **Section 6. Architectural and Engineering Services**

When seeking to contract for Architectural and/or Engineering services (A&E), the District will prepare a Request for Qualifications and distribute it according to the expected spending thresholds listed below. The Request for Qualifications will include all requirements for proposers to understand what the District needs and the criteria which will be evaluated to rank responses.

### **6.1 A&E Contracts Expected to be Less than \$15,000**

Architectural and Engineering Services contracts which are expected to be less than \$15,000 in value require minimal competition or selection from a recognized roster.

- a. Distribute RFQ to at least 3 relevant consulting firms on the MRSC Consultant Roster.
- b. Negotiate a contract with the firm deemed most highly qualified.
- c. The Executive Director or their designee may execute architectural and engineering services contracts up to \$15,000 included in the Board approved budget.

### **6.2 A&E Contracts Expected to be Over \$15,000**

Architectural and Engineering Services contracts which are expected to be more than \$10,000 in value require the District will issue a Request for Proposal and evaluate the proposals according to this procedure.

- a. Prepare formal solicitation document (Request for Qualifications), include all requirements in order for proposers to understand what the District needs and how the District will evaluate responses.
- b. Publish RFP/RFQ solicitation notice on District website and distribute to a minimum of 6 local firms/individuals on the MRSC Consultant Roster by fax or email.
- c. Develop ranking criteria and record scoring by evaluators.
- d. Maintain record of all RFP/RFQ potential bidders and ensure that all information and clarifications are distributed to all RFP/RFQ package holders. Note date and time of all submittals received in this record.
- e. Rank submittals and record scoring by evaluators. Conduct interviews if necessary, and select top finalist(s). Negotiate contract with top firm. Notify unsuccessful firms in writing.
- f. Conduct debriefing conference with any unsuccessful proposer if requested.

## **Section 7. Public Works Contracts**

If the District undertakes any Construction Services project which qualifies as Public Works, it shall comply with Chapter 39.04 RCW and 36.32.250 RCW. If the District undertakes a Public Works project, it may work with a partner jurisdiction to facilitate compliance with Chapter 39.04 RCW.



#### **7.1 Public Works Contracts under \$300,000**

The District will follow the procedures detailed in FIN-2: Small Works Roster Process.

#### **7.2 Public Works Contracts \$300,000 and above**

Any Public Works contracts \$300,000 and above follow the Public Works contracting process. The Board approved Small Works process may be found in FIN-3.

### **Section 8. Bonding for Construction Services**

If KCD undertakes any construction contracts, it shall require the necessary bonds in the amount and with the conditions imposed by law (RCW 39.08.010 for Public Works or 2 CFR 200.325 for Non Public Works).

#### **8.1 Public Works of \$150,000 or less and Non Public Works under the Simplified Threshold (currently \$250,000)**

The District may dispense with the requirement of any bonding, as permitted by state law. In cases where a contractor's bond is not required, ten percent (10%) of the contract amount will be retained for a period of thirty (30) days after date of final acceptance (providing all necessary releases from the tax commission and the Department of Labor and Industries have been received).

#### **8.2 Public Works over \$150,000**

A contractor's bond shall be required. When required, the contractor's bond shall be a good and sufficient bond, with two or more sureties or with a surety company duly and currently licensed to engage in the surety bonding business in the State of Washington. Such bond shall conform to RCW 39.08.010. The contractor's bond is to be approved and filed with the original contract document within ten (10) days after notice of award. The contractor's bond shall be payable to the King Conservation District. The conditions of the contractor's bond shall include:

- a. The faithful performance of the contract; and
- b. The faithful payment of all laborers, mechanics, subcontractors, and material providers, and persons who supply such laborers, mechanics, subcontractors, and material providers with provisions and supplies for carrying on such work.

#### **8.3 Non Public Works over the Simplified Acquisition Threshold (currently \$250,000), KCD shall require the following:**

- a. A bid guarantee from each bidder equivalent to five percent of the bid price. The "bid guarantee" must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.
- b. A performance bond on the part of the contractor for 100 percent of the contract price. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.



- c. A payment bond on the part of the contractor for 100 percent of the contract price.  
A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

#### **8.4 Notice Required to Create Lien Against Retainage.**

Every person performing labor or furnishing supplies toward the completion of a contract for work shall have a lien upon the retainage reserved; provided, such notice of the lien of such claimant has been given in the manner and within the time provided in RCW 39.08.030 through 39.08.065 as now existing and in accordance with any amendments that may be made.

#### **8.5 Special Notice Required for Suppliers to Bind Retainage.**

Every laborer, mechanic, subcontractor, material provider and person who supplies such persons with provisions and supplies for carrying on contract work for the KCD shall have a right of action against the contractor's bond; provided, that within forty five (45) days from and after the completion of the contract with an acceptance of the work by the KCD Executive Director, the lien claimant, or person claiming to be entitled to a lien, presents to and files with the county a notice of claim of lien in compliance with the requirements of RCW 39.08.030.



# Unfinished Business



**Agenda Action Briefing/Report AI 21-078****SUBJECT:**

Review for approval KCD Landowner Incentive Program cost-share application from Chris Hahn for Forest Health Management, in the amount of \$10,500.00.

**FISCAL IMPACT**

The current balance of cost-share funding for KCD LIP 2021 is summarized in the following table:

2021 LIP Cost-share Available	<b>\$93,260.80</b>
Current Request	<b>\$10,500.00</b>
Balance Remaining	<b>\$82,760.80</b>

**POLICY CONSIDERATION**

This proposed cost-share contract has been vetted through a staff approval committee and meets NRCS standards for the applicable best management practice (BMP). The application has been advanced for due pass by the Board of Supervisors.

**STAKEHOLDER INTERESTS**

- District cooperators working with District farm management, forestry and aquatic area enhancement programs
- King CD Board members and staff
- NRCS

**BACKGROUND**

Applebox Farm is a 20-acre property east of Carnation, WA in the Snoqualmie River watershed. The farm contains 13.1 acres of forest to be managed as open space. The property's forest contains three distinct stands of trees, a description of each stand and the 20-year framework for forest management activities the landowners intend to implement can be found in the property's King County approved Forest Stewardship Plan.

Resource concerns present that will be treated as part of this forest health management project include excessive plant pest pressure from invasive, non-native, and noxious weed plants and the undesirable plant productivity and health of forest stand areas due to overstocking of trees and suppression of desirable trees by non-native or undesirable trees.

This project will include the treatment of approximately 11 acres of forest across three forest stands. The forest management activities will include the treatment of invasive plant species, the non-commercial thinning of a forest stand that's approximately 15 years old and the non-commercial thinning of an overstocked 0.4-acre area within a forest stand. This cost-share project will not include any tree or shrub plantings.

The end goals of this forest health management project are to improve the resilience of forest stands, improve the vigor of native conifer and deciduous trees within treated forest stands, and reduce the plant pest pressure in forest stands caused by invasive, noxious weed, and non-native plant species.

**EFFECTIVE DATE**

The cost-share award will become effective upon approval by the Board of Supervisors and the LIP contract will become effective upon signature by a Board representative.



**King Conservation District Board of Supervisors Meeting 12/13/2021**

**Agenda Action Briefing/Report AI 21-**

**RECOMMENDATION**

Staff seeks Board approval of Landowner Incentive Program cost-share application from Chris Hahn, for Forest Health Management, in the amount of \$10,500.00.

**MOTION**

\_\_\_\_\_ Moved, \_\_\_\_\_ Seconded; *Passed a motion to Approve KCD Landowner Incentive Program cost-share application from Chris Hahn, for Forest Health Management, in the amount of \$10,500.00.*



# KING CONSERVATION DISTRICT (KCD) LANDOWNER INCENTIVE PROGRAM APPLICATION

## Section 1. Applicant (If applicant is not the landowner, then landowner must also sign the agreement)

Applicant Name:		Farm/Business Name:	
Mailing Address:		Project Address:	
Phone (home):		Phone (work/mobile):	
Email Address:		KCD Staff:	
Parcel #(s):	<input type="checkbox"/> Incorporated <input type="checkbox"/> Unincorporated	Total Farm/Land Acreage:	<input type="checkbox"/> T.A. <input type="checkbox"/> Farm Plan <input type="checkbox"/> Forest Plan
Is email an acceptable primary form of communication?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Would you like to be added to our newsletter list?	<input type="checkbox"/> Yes <input type="checkbox"/> No

## Section 2. Project Information

<b>Best Management Practice (BMP):</b>
<b>Project Completion Date</b> ( <i>month and year</i> ):
<b>Current Site Conditions</b> ( <i>Provide a brief summary of resource management problem addressed by BMP: also note if streams, wetlands, and steep slopes are near or within the project area</i> ):
<b>Project Details</b> ( <i>Provide a brief summary of the project. Include acres treated, length of fence, dimensions of compost bin, types and numbers of plants, etc.</i> ):
<b>Maintenance Plan</b> ( <i>Summarize your plan to maintain the practice. Include frequency and scope of inspections, repairs anticipated, etc.</i> ):



<b>Permits</b> <i>(List all permits required to complete this project):</i>  
<b>Photos:</b> Before photos must be submitted with this application.

Section 3. Cost-share Programs

<p>A. Have you previously applied for cost-share through the KCD Landowner Incentive Program (LIP)?</p> <p>If yes, please list contract number and BMP below:</p>	<p>Yes</p>	<p>No</p>
<p>B. Are you applying for (or received) funding (cost-share or grants) through other agencies or programs?</p> <p>Please describe below:</p> <p>1. <b>King County Cost-share</b></p> <p>Please list practices and date installed below:</p>	<p>Yes</p>	<p>No</p>
<p>2. <b>NRCS EQIP (Natural Resources Conservation Service’s Environmental Quality Incentive Program)</b></p> <p>Please list practices and date installed below:</p>		
<p>3. <b>Other</b></p> <p>Please list agency and describe project:</p>		

Other Cost-Share History/Notes:

Section 4. Budget (attached as Exhibit A)

The cost-share application budget is the applicant’s statement for how the KCD cost-share funds will be spent. Use the attached Excel document to detail the budget for the project. Reimbursement values are restricted by unit maximums as well as practice maximums. KCD will be unable to provide a budget that exceeds either maximum. The cost differential for practices installed at a higher standard or cost shall be the responsibility of the applicant. In cases where a budget for a cost-share award needs to be updated, submit a budget revision request for approval. In the absence of an approved budget revision, the cost differential shall be the responsibility of the applicant. Furthermore, receiving financial assistance for an approved Best Management Practices will be subject to inspection by KCD planners. Approval for reimbursement will be based on the satisfactory completion of the project to the minimum specifications detailed in this application.

Partial reimbursements are available on a limited basis and must be requested in advance. They will only be considered when the installation of a project can be phased to achieve the standard described in the attached job sheet when reimbursement is requested.

- Select this box if you intend to request partial reimbursement as the project is installed.



## Section 5. Education and Outreach

KCD encourages public education through demonstration projects. Demonstration projects are used to educate other landowners about innovative ways to address natural resource concerns. A demonstration project may be showcased in a guided tour, or featured in presentations or written fact sheets.

- Will you consider becoming a demonstration project? Yes No

## Section 6. Maintenance and Monitoring Expectations

The applicant is responsible to maintain the Best Management Practice (BMP) to standard as detailed in the attached Job Sheet for the lifetime of the BMP.

- A. I understand the lifetime of the BMP is \_\_\_\_ years.
- B. I understand KCD will work with me to verify proper maintenance of the installed BMP, which will include a combination of site visits with KCD staff and/or annual photo documentation submitted by me for the lifetime listed in Section 7A.
- C. I understand I am obligated to maintain and monitor the BMP **for the lifetime listed in Section 6A.**

## Section 7. Application and Agreement

I request financial assistance (cost-share) under the KCD LIP to install the Best Management Practice (BMP) described in this application and detailed in the attached *Job Sheet and Map*. This practice is needed to solve the natural resource problems described in Section 2 of this application. This Agreement expires if the project is not completed by the specified completion date in Section 2 or in an approved timeline revision request. \_\_\_\_\_ (Initial Here)

I agree to ensure that all applicable local, state, and federal permits are obtained for installation of the BMP for which funds are requested. Furthermore, I understand that KCD must receive a copy of any applicable permit to process my cost-share reimbursement. \_\_\_\_\_ (Initial Here)

I agree to work cooperatively with KCD to ensure the funded BMP is maintained consistent with the design life identified in the attached Job Sheet and in Section 6 of this application. \_\_\_\_\_ (Initial Here)

I agree to indemnify, defend, and hold harmless KCD, its elected or appointed officials, employees and agents, from all claims, alleged liability, damages, losses to or death of person or damage to property allegedly resulting from the negligent or intentional acts of the applicant or any of its employees, agents, contractors or subcontractors in connection with this Agreement. \_\_\_\_\_ (Initial Here)

I represent that the information provided in Section 3 of this application is a full disclosure of all other natural resource financial cost-share relationships in which I have or am participating. Furthermore, I agree to disclose if I am applying for or receive funding (cost-share or grants) for the BMP described in this application through other agencies or programs and to provide KCD with written documentation detailing this funding support. This may include copies of reimbursement checks or letters showing value of provided contribution. I understand that I must provide proof of reimbursement for alternate funding prior to receiving reimbursement through the KCD LIP. I acknowledge that KCD LIP funds cannot be used in combination with other funding sources to exceed 100% of project costs. I agree to allow communication between KCD and any other agency regarding the details of the project as well as funding details. \_\_\_\_\_ (Initial Here)

I understand that LIP cost-share reimbursement is contingent upon installing the BMP to the minimum standard provided by KCD, and that KCD will verify standard compliance. Furthermore, I understand that changes to the installation details (attached *Job Sheet and Map*) must be approved through a *Scope of Work Revision Process*. Unapproved changes will not be eligible for reimbursement. \_\_\_\_\_ (Initial Here)



I understand that there may be federal tax liability associated with a LIP cost-share reimbursement, and that KCD will issue a 1099-G for reimbursements made through the LIP. Furthermore, I understand that KCD cannot provide advice with respect to the tax liability associated with LIP cost-share reimbursements and that I have been advised to consult with my own tax professional.

\_\_\_\_\_ (Initial Here)

I understand that I am applying for public funding and am responsible for notifying a buyer upon sale or loss of the property of the installed BMP. If I sell or lose control of the property covered by this Agreement and the new owner or transferee does not assume responsibility for maintaining the installed BMP as required by this Agreement, I may be required to refund all or a portion of the cost-share received through this Agreement. In the event of litigation arising from or related to this Agreement, attorney's fees and costs incurred by the prevailing party shall be paid by the non-prevailing party. \_\_\_\_\_ (Initial Here)

I give permission to KCD to photograph my property to document the site conditions and/or the implementation and maintenance of the funded practice. In the event that I or any of my family members or dependents choose to be photographed in a setting that reflects the assistance provided by KCD, I give KCD permission to publish such photographs in KCD promotional literature, advertising, social media, and other public displays. The photographs will be the property of KCD and may be used by KCD at any time, in the manner described above, without my additional consent. \_\_\_\_\_ (Initial Here)

I understand that this Agreement is subject to disclosure under the Public Records Act, Chapter 42.56 RCW. \_\_\_\_\_ (Initial Here)

I understand that I will no longer be eligible for KCD cost-share funds if one or more of the following occurs: \_\_\_\_\_ (Initial Here)

- a. The KCD funded BMP fails within its design life due to circumstances within my control (e.g., neglect, failure to maintain the BMP, destruction of the BMP before expiration of the design life, or other actions which cause the KCD funded BMP to become non-viable). *Note: Landowners are not responsible for BMP failure caused by circumstances beyond their control (e.g. fire, flood, storm damage, etc.).*
- b. I relinquish or lose ownership of equipment purchased with KCD cost-share.
- c. The KCD funded BMP is not being used for the intended purpose (e.g. cross fencing purchased with KCD funding, but no animals on property).
- d. I cancel 2 cost-share contracts awarded through the KCD Landowner Incentive Program.
- e. I deny KCD staff access to my property to verify BMP installation and maintenance.

I understand KCD will provide a sign free of charge after completion of a project, and I agree that: \_\_\_\_\_ (Initial Here)

- a. I will select a visible location on my property for display of the sign and will install it.
- b. I will maintain the sign and keep it free of visual barriers for at least five years after installation.
- c. I am not responsible for damage to the sign that is beyond my control (e.g. auto accident, storm damage, vandalism, etc.)

Signature of applicant

Date

Signature of Landowner (if applicant is Lessee)

Date

FOR KCD OFFICE USE

Approved for Award (KCD LIP Coordinator)

Date

Approved for Funding (KCD Management)

Date

LIP ID:

The budget amount relating to this Application and shown in the attached Budget Sheet was calculated by KCD staff based on an evaluation of the current market conditions of the project implementation and management activities outlined in the Scope of Work in the attached Job Sheet. A bid for the work will be obtained by the cooperator from a contractor to perform the Scope of Work outlined in the Job Sheet. The cooperator will then submit this bid to KCD and the original budget estimate may be adjusted to meet the bid consistent with KCD's current cost-share rates and policies. KCD reserves the right to review and approve bids that exceed the budget estimates contained in the Budget Sheet. If the bid includes modifications to the Scope of Work outlined in the Job Sheet, these changes may have to go through a Scope of Work revision approval process prior to the cost-share Budget Sheet being approved for adjustment based on the amount of the bid submitted to KCD. \_\_\_\_\_ (Initial Here)





# Landowner Incentive Program

## Applicant Budget

Cooperator: Chris Hahn

Budget Items	Units	Cost
Thinning Work	1.00	\$4,500.00
Initial Invasive/Non-native Species Control	1.00	\$3,500.00
3 years of contractor maintenance	1.00	\$6,000.00
Machinery Rental (not personally owned equipment)		\$0.00
	<b>Subtotal</b>	<b>\$14,000.00</b>

In-Kind Labor/Machinery	# hours	Cost
Manual labor		\$ -
Person with power equipment (i.e. chainsaw)		\$ -
Small Tractor (up to 40 hp)		\$ -
Medium Tractor (40-70 hp)		\$ -
Large Tractor (71 or above hp)		\$ -
Excavator (up to 100 hp)		\$ -
Excavator (over 100 hp)		\$ -
D-4 Cat or equivalent		\$ -
D-6 Cat or equivalent		\$ -
D-7 Cat or equivalent		\$ -
Backhoe		\$ -
Truck (under 2 tons)		\$ -
Truck (2 tons or over)		\$ -
Bobcat		\$ -
4-wheeler or side-by-side		\$ -
<b>Subtotal</b>	<b>0.00</b>	<b>\$ -</b>

Project Totals		
<b>Total Cost</b> (Budget Items + In Kind Labor/Machinery)		<b>\$ 14,000.00</b>
Units		
Cost/Unit		#DIV/0!

Conservation Practice	select BMP (x)	Cost Share Am
Animal Trails & Walkways		
Aquatic Area Buffer		
Aquatic Area Buffer (WCC)		
Buffer Fencing		
Building Relocation for Aquatic Area/Buffer		
Bulkhead Removal (Freshwater, Marine)		
Cover Crops		
Cross Fencing		
Forest Health Management	x	\$ 10,500.00
Heavy Use Area Protection		
Pasture & Hay Planting		
Roof Runoff Management		
Stream Crossing		
Subsurface Drain		
Upland Wildlife Habitat Management		
Waste Storage Facility		
Watering Facility		

**Amount eligible for reimbursement**  
(based on 2015 rates)

**\$10,500.00**



BMPs	Units	cost/unit	%	reimbursement rate	
Animal Trails & Walkways	sq ft	\$ 0.75	0.5	\$ 0.38	Ac.
Aquatic Area Buffer	project	\$ 30,000.00	0.9	\$ 27,000.00	AUE
Buffer Fencing	ft	\$ 12.00	0.75	\$ 9.00	Ft.
Building Relocation for Aquatic Area/Buffer	project	\$ 50,000.00	0.5	\$ 25,000.00	Sq. Ft.
Bulkhead Removal (Freshwater, Marine)	project	\$ 40,000.00	0.75	\$ 30,000.00	Project
Cover Crops	acre	\$ 150.00	0.9	\$ 135.00	acre
Cross Fencing	ft	\$ 6.00	0.5	\$ 3.00	
Forest Health Management	project	\$ 30,000.00	0.75	\$ 22,500.00	
Heavy Use Area Protection	AUE	\$ 1,400.00	0.5	\$ 700.00	
Pasture & Hay Planting	acre	\$ 325.00	0.5	\$ 162.50	
Roof Runoff Management	ft	\$ 7.00	0.5	\$ 3.50	
Stream Crossing	ft	\$ 1,100.00	0.75	\$ 825.00	
Subsurface Drain	ft	\$ 20.00	0.5	\$ 10.00	
Upland Wildlife Habitat Management	project	\$ 20,000.00	0.75	\$ 15,000.00	
Waste Storage Facility	AUE	\$ 1,000.00	0.75	\$ 750.00	
Watering Facility	project	\$ 50,000.00	0.5	\$ 25,000.00	





# JOB SHEET

## Forest Stand Improvement

(Forest Health Management)

Landowner: Chris Hahn and Teagan Moore	Lifetime of Practice: 15 years
--	--------------------------------

**\*This Job sheet must be attached to your completed application**

Purpose (check all that apply)	
<input type="checkbox"/> Site preparation	<input type="checkbox"/> Tree/Shrub establishment
<input checked="" type="checkbox"/> Tree/Shrub stand improvement	<input checked="" type="checkbox"/> Restore native plant communities
<input type="checkbox"/> Long-term erosion control and improvement of water quality	<input checked="" type="checkbox"/> Increase the quantity and quality of forest products
<input type="checkbox"/> Wildlife habitat enhancement	<input type="checkbox"/> Other

**Forest Management Practice and Details** *Provide the following: 1) attach a map delineating prescription area and sub-treatment areas if applicable; provide name and acreage features for treatment areas 2) descriptions of current stand location and conditions, stand treatment plan, plant species to be used, plant spacing, and site preparation; 3) a project management timeline from your approved Forest Stewardship Plan.*

- 1) See attached map  
 Zone A: 1.8 acres  
 Zone B: 4.9 acres  
 Zone C: 0.4 acres  
 Zone D: 4.0 acres

2, 3) See attached Scope of Work and Forest Stewardship Plan management implementation timeline.

**Permits** *Are there any permits necessary for the project? If so, please list below and include a copy of the permit.*

All activities are part of a county-approved forest stewardship plan and classified as Class I forest practices; thus, no permits are needed.

Landowner must comply with local, state and federal regulations and permitting requirements.

- 1) Forest landowners may need a permit from the WA State DNR for forest management activities

<http://www.dnr.wa.gov/businesspermits/forestpractices/Pages/Home.aspx>

Or

From through the Forest Practices Rules, see the King County specifics here:

<http://www.co.king.wa.us/property/permits/info/SiteSpecific/forest.aspx>

- 2) There may be permits needed to apply herbicide near aquatic areas of their buffer. See the WA State Department of Ecology website for further details: <http://www.ecy.wa.gov/programs/wq/pesticides/>

**Type and Source of Plant Material** *Will you use potted plants, bareroot plants, b&b plants or a combination? Where will you get the plants from and when?*

No plants will be installed as part of this forest health management project.



**Tree/shrub Stand Improvement** *List what method(s) of stand improvement will be used, who will be doing the work, when will the work be done.*

Forest stand improvement will include a combination of invasive, non-native, noxious weed control and tree thinning by a contractor that will occur in 2022 as outlined in project scope of work document. Non-native/invasive/noxious weed species control will target invasive blackberry, English holly and laurel, European mountain ash, Butterfly bush and yellow archangel. Specific weed control prescriptions are detailed below.

*\*It recommended that landowners work with a professional licensed herbicide applicators for applications in sensitive areas or with difficult to remove species. It may be that some of the following formulations are only available for sale to a licensed applicator.*

**Weed Control Prescriptions:**

**Himalayan & Evergreen Blackberry Control –**

- **Manual control:** Mow or cut the blackberry canes to less than 1 foot in height, then grub/dig out the roots attached to the cut canes. Thorough removal of blackberry roots in this manner, while labor intensive can reduce the blackberry population and cover in the prepared area by 90 – 95%. Monitor for re-growth in the following growing seasons; dig up any re-growth.
- **Chemical Control:** An alternative control method includes herbicide. One technique involves cutting/mowing the canes and swabbing the freshly cut canes with an approved herbicide. Foliar spray of blackberry is another effective control method. It is recommended that blackberry is mowed early in the summer and sprayed on the foliar re-growth the next fall (September/October). Do not spray planted seedlings. **Always follow label rates and instructions.**

**English Holly and Laurel Control-**

- **Manual Control:** Not recommended for anything other than small seedlings. Small plants can be dug or pulled up when the soil is moist. Regularly check area for re-growth. For larger plants cuts stems and trunks as close to the ground as possible. Roots may be dug out. Be sure to stabilize soil if large quantities are disturbed. If roots are not dug up, break off any new stems as they grow back for multiple growing seasons.
- **Chemical Control:** Large holly and laurel trunks should be cut as close to the ground as possible. Immediately (within minutes) treat the cut stump with an application of triclopyr or imazapyr herbicide. An alternate technique, called frilling, involves incising deep cuts through bark into trunks at a 45 degree angle. Immediately treat the frills by pouring triclopyr or imazapyr herbicide into the cuts. Best results are achieved during periods of active growth and after full leaf expansion. Use of EZ-Ject herbicide shells is also an acceptable treatment for holly and laurel stems. Monitor for re-growth (seedlings and re-sprouting) and treat accordingly. Do not spray herbicide directly on to holly or laurel leaves as they have a waxy layer that prevents chemicals from being absorbed. **Always follow label rates and instructions.**

**European Mountain Ash Control-**

- **Manual Control:** Small seedlings can be hand pulled or young trees can be dug up.
- **Chemical Control:** European Mountain Ash can be effectively controlled using several readily available general use herbicides such as triclopyr or glyphosate. Herbicides can be applied on foliage, on cut stems, as an injection, or as a basal spray directed to the bark of uncut stems. Repeat applications may be necessary to reduce densities. **Always follow label rates and instructions.**



### Butterfly Bush-

- *Manual Control:* Seedlings can be hand-pulled with little effort, and larger plants can be cut. Branches should not be left on the bare ground as they can form roots and re-grow. Never discard any part of this plant in natural areas or on roadsides. Branches can be burned, put in a yard waste container, or taken to a landfill or composting facility. Seed heads should always be placed in the trash.
- *Chemical Control:* Controlling butterfly bush by spraying with a brush-control herbicide is somewhat effective, but for better results, cut the trunk off at the base and immediately apply concentrated glyphosate or triclopyr on the freshly cut surface. **Always follow label rates and instructions.**

### Yellow Archangel-

- *Manual Control:* Stems and roots tend to break off when pulled, so hand removal of yellow archangel is very time-consuming. Also, plants readily re-sprout from any fragments left behind so hand-pulling must be repeated several times a season over several years to be effective. Hand-pulling might be a good method for small infestations and for areas where yellow archangel is mixed in with desirable groundcovers or wildflowers. Easiest to do from fall to spring when the soil is moist.
- *Mechanical Control:* Cutting alone will not control this plant, but may be useful in combination with chemical control as a way to reduce the amount of old leaves and produce fresh growth. For dense patches, sheet mulching (cardboard with 3-4 inches of woodchips on top) or covering with weed cloth might be effective if the whole patch is covered and it is monitored closely for growth along the edges or through gaps in the covering.
- *Chemical Control:* Herbicides can be effective on yellow archangel if combined with monitoring for surviving plants and follow-up control as needed. Choose a formulation that is appropriate for the site (for example: aquatic, terrestrial, ornamental, forestry or non-crop). Follow the label exactly as written and only use at the rate that is prescribed on the label. Products containing triclopyr (e.g. Garlon, Ortho Brush B Gon, Lilly Miller Blackberry & Brush Killer), imazapyr (Habitat, Arsenal), metsulfuron (Escort, Ally), sulfometuron (Oust), and dichlobenil (Casoron) show the most promise in controlling this plant. Glyphosate products (e.g. Roundup) are less effective and will usually require several applications. **Always follow label rates and instructions.**

Timing varies by product so make sure to follow the label recommendations on when to treat perennial weeds. Use care when applying herbicides to avoid off-target damage to native plants and trees as well as other desirable plants. Chemical control options may differ for private, commercial and government agency users. The mention of a specific product brand name in this document is not, and should not be construed as an endorsement or as a recommendation for the use of that product. For questions about herbicide use, contact the King County Noxious Weed Control Program. 206-477-9333, [noxious.weeds@kingcounty.gov](mailto:noxious.weeds@kingcounty.gov).

### *Overstory Manipulation Prescriptions:*

**Felling:** Felling is the act of cutting down a tree. This is one of a few techniques that can be utilized to increase light penetration to the understory and remove undesirable trees from the canopy. The target species for thinning are European birch and red alder in Zone A and small diameter (<10") low vigor, unhealthy, suppressed trees in zone C of any species.

### *Pre-commercial/Non-commercial Thinning:*



Thinning prescription is as follows:

Zone A:

- Retained trees per acre target is 360 TPA with a spacing between retained trees of 10-12 feet.
- All living Doug-fir trees in zone will be retained and thinning will primarily target red alder and European birch trees that are overtopping Douglas-fir trees.
- Target retention of best formed and most vigorous red alder trees that are not overtopping Doug-fir to reach goal of 360 TPA in zone.
- Thin all European birch trees from zone.

Zone B:

- Objective of thinning is to remove small diameter trees from zone that are suppressed or have poor vigor and retain the larger, more vigorous trees.
- Retain all trees greater than 10" in diameter at breast height unless tree poses significant hazard to structures or people during the implementation of project activities in zone.
- Thin all trees less than 10" in diameter at breast height that are suppressed and/or show signs of poor vigor and health, such as having live crown ratios of 1/3<sup>rd</sup> or less.

*Biomass Management Prescriptions:*

When trees and shrubs are managed within the forest, biomass is created. This downed woody material is important to be retained on-site to maintain soil nutrients, wildlife habitat, and suppression of weed seed germination.

Native Shrub Retainage –

- At minimum, 15% of existing native shrub cover will be retained during implementation of thinning activities. This retainage may be grouped around retained trees.

Standing Dead Wood (Snags) –

- All existing standing dead wood (snags) greater than 10 inches in diameter at breast height will be left standing onsite unless the tree poses significant hazard to structures or people during the implementation of project activities.

Downed Dead Wood (greater than 5 inches) –

- There will be a minimum of 6% cover (on the ground) of downed dead wood greater than 5 inches in diameter. Some wood may be piled to create habitat piles or piled to mimic nurse logs.
- Felled trees from thinning may be masticated, loped and scattered in zone, piled to create wildlife habitat piles or mimic nurse logs.
- Landowner may also use a proportion of felled wood for firewood or other farm projects as long as minimum % cover of dead wood in zone is maintained.

Fine Woody Debris (Mulched material or woody material less than 4 inches in diameter) –

- All fine woody debris (that does not include invasive species) will remain on site, either masticated, loped and scattered, or piled for wildlife habitat.
- If sites are not receiving mastication, then at least 40% of fine woody debris will be left on site. For steep slopes, at least 50%.



**Care and Temporary Storage of Purchased Plant Material** *Upon receiving the plant material, where will you store it and how will you care for it?*

No plants will be installed as part of this forest health management project.

**Installation** *Provide the following details: 1) Plant Installation Prescription: 2) Plant Protection Prescription: 3) Weed Suppression Prescription: 4) Erosion Control Prescription*

No plants will be installed as part of this forest health management project.

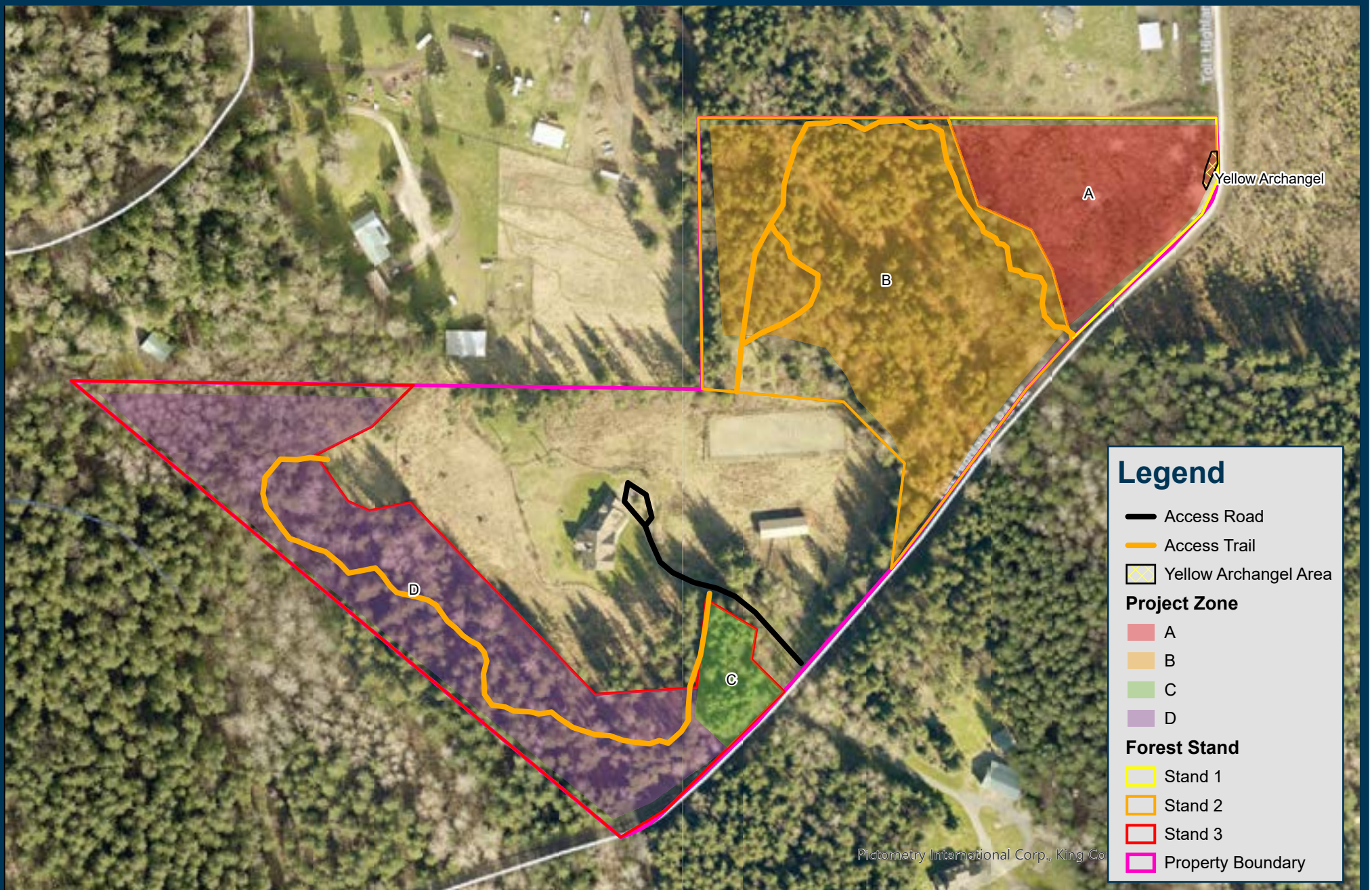
**Planting Project Maintenance and Monitoring** *The planting must be inspected periodically and protected from damage so proper function is maintained. The goal for the project is to reach 80% survival after 3 years. Please describe the maintenance and monitoring plan.*

No plants will be installed as part of this forest health management project.

All treatment areas will be monitored for re-growth of non-native/invasive species and controlled accordingly by contractor for 3 years after completion of initial invasive species control and thinning treatments.

Utilize weed control techniques prescribed in the Site Preparation section of the Job Sheet. Species to monitor for include invasive blackberry, English holly and laurel, European mountain ash, Butterfly bush, yellow archangel and any listed King County Noxious weeds. <https://kingcounty.gov/services/environment/animals-and-plants/noxious-weeds/laws/list.aspx>





## Legend

- Access Road
- Access Trail
- Yellow Archangel Area

### Project Zone

- A
- B
- C
- D

### Forest Stand

- Stand 1
- Stand 2
- Stand 3
- Property Boundary



## Hahn Forest Cost-share Project Map

5739 Tolt Highlands Rd NE  
Carnation, WA 98014



DISCLAIMER: While every precaution was taken in preparing this map, the publisher disclaims any warranty of fitness or accuracy of the data. The map is approximate in nature, based on compilation of data from multiple sources, and should not be relied upon or referenced in legal documents, including property deeds, title reports, and contract documents, nor substituted for appropriate survey and/or engineering analysis. The user of the map acknowledges its limitations, assumes all responsibility for its use, and agrees to hold the publisher harmless for any damages that may result from the use of this map. This map is subject to change without notice.

KCD Planner: Mike Laseckin  
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September 29, 2021































Table 1. 20-year management implementation plan.

Year	Management Practice or Activity	Stands
2021	<ul style="list-style-type: none"> <li>Selectively thin Stand 1 to 10-foot spacing, prioritizing removal of European birch, followed by select thinning of red alder as needed – retain as firewood or other uses on the property</li> <li>Survey entire forest for invasive and noxious weeds and begin removal, prioritizing easy-to-remove invasive plants under the forest canopy</li> <li>Implement Firewise USA recommendations around the residence</li> </ul>	1, 2, 3
2022	<ul style="list-style-type: none"> <li>Plant western red cedar, western hemlock, and grand fir seedlings in Stand 2</li> <li>Remove invasive and noxious weeds in all stands, prioritizing control in edge conditions</li> </ul>	1, 2, 3
2023	<ul style="list-style-type: none"> <li>Remove invasive and noxious weeds in all stands, prioritizing control in edge conditions</li> <li>Install native shrubs with fruits/nuts in edge conditions in place of invasive and noxious weeds, such as Nootka rose, beaked hazelnut, and red elderberry</li> </ul>	1, 2, 3
2024	<ul style="list-style-type: none"> <li>Plant western red cedar and grand fir seedlings in Stand 3</li> <li>Remove invasive and noxious weeds in all stands, focusing on control around newly installed shrubs</li> </ul>	1, 2, 3
2025	<ul style="list-style-type: none"> <li>Thin Stand 1 to remove red alder that have overlapping canopies with Douglas-fir</li> <li>Review survival of installed seedlings and replace if necessary in Stands 2 and 3</li> <li>Remove invasive and noxious weeds in all stands</li> </ul>	1, 2, 3
2026	<ul style="list-style-type: none"> <li>Begin to infill plant Stand 1 with western hemlock and grand fir seedlings, keeping conifers 18' apart</li> <li>Review Firewise USA recommendations and assess areas around residence and outwards 100 feet</li> <li>Remove invasive and noxious weeds in all stands</li> </ul>	1, 2, 3
2027	<ul style="list-style-type: none"> <li>If desiring to expand the forest into surrounding pasture, remove grass in 4-6' wide circles, install a Douglas-fir or western white pine</li> </ul>	1, 2, 3



Year	Management Practice or Activity	Stands
	<p>(<i>Pinus monticola</i>) seedling (or other forest plant community as desired) in each clearing, and apply 4-6" of wood chip mulch for grass suppression; thinned red alders can be chipped for mulch supply</p> <ul style="list-style-type: none"> <li>Remove invasive and noxious weeds in all stands</li> </ul>	
2028	<ul style="list-style-type: none"> <li>Control grass growth around seedlings in the expanding forest in the pasture</li> <li>Plant additional native shrubs with fruits/nuts in clearings and edges</li> <li>Remove invasive and noxious weeds in all stands</li> </ul>	1, 2, 3
2029	<ul style="list-style-type: none"> <li>Control grass growth around seedlings in expanding forest and replenish wood chip mulch if necessary</li> <li>Thin alder as needed to encourage 16' spacing</li> <li>Remove invasive and noxious weeds in all stands</li> </ul>	1, 2, 3
2030	<ul style="list-style-type: none"> <li>Review success of planted seedlings in Stands 1-3, replant as needed</li> <li>Remove invasive and noxious weeds in all stands</li> </ul>	1, 2, 3
2031	<ul style="list-style-type: none"> <li>Reevaluate goals and update plan</li> </ul>	1, 2, 3
2031-2040	<ul style="list-style-type: none"> <li>Monitor all stands for health and issues with invasive and noxious weeds</li> </ul>	1, 2, 3
Annually	<ul style="list-style-type: none"> <li>Annual progress monitoring report* to King County PBRS staff briefly detailing PBRS forest plan implementation successes and any challenges. Link to online Monitoring Report form: <a href="https://www.kingcounty.gov/services/environment/stewardship/sustainable-building/resource-protection-incentives/pbrs-monitoring-report.aspx">https://www.kingcounty.gov/services/environment/stewardship/sustainable-building/resource-protection-incentives/pbrs-monitoring-report.aspx</a></li> </ul>	

\*KCC 20.36.190 F(3) An owner of property receiving credit for farm and agricultural conservation land, forest stewardship land, or rural stewardship land, all of which require a stewardship or management plan, must annually provide a monitoring report that describes progress of implementing the plan. The owner must submit this report, which must include a brief description of activities taken to implement the plan and photographs from established points on the property, to the department by email or by other mutually agreed upon method. An environmental consultant need not prepare this report.



**King Conservation District Board of Supervisors Meeting 12/13/2021****Agenda Action Briefing/Report AI 21- 079****SUBJECT:**

Review for approval KCD Landowner Incentive Program cost-share application from Joel Jornlin and Christine Page, for a Aquatic Area Planting, in the amount of \$26,995.86.

**FISCAL IMPACT**

The current balance of cost-share funding for KCD LIP 2021 is summarized in the following table:

2021 LIP Cost-share Available	<b>\$150,256.66</b>
Current Request	<b>\$26,995.86</b>
Balance Remaining	<b>\$123,260.80</b>

**POLICY CONSIDERATION**

This proposed cost-share contract has been vetted through a staff approval committee and meets NRCS standards for the applicable best management practice (BMP). The application has been advanced for due pass by the Board of Supervisors.

**STAKEHOLDER INTERESTS**

- District cooperators working with District farm management, forestry and aquatic area enhancement programs
- King CD Board members and staff
- NRCS

**BACKGROUND**

The Jornlin-Page property is a residential parcel on the southern tip of Vashon Island between Point Dalco and the mouth of Tahlequah Creek. The parcel runs from the beach on the south to another parcel on the north. The property encompasses 0.26 acres, with the project area covering approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area. The property gently slopes from the north to the house and then flattens out at the house to the top of bluff. The back of the house (facing the water) is set back 20 feet from the top of bluff and is maintained as lawn between the house and top of bluff. The existing vegetation on the bluff is predominantly Himalayan blackberry with sparse native shrub and groundcover species throughout and a single young madrone at mid-bluff.

The beach and nearshore substrate consist of fine sand, gravel and pebbles and is subject to high tides and wave inundation. Existing vegetation includes native saltgrass (*Distichlis spicata*), saltweed (*Atriplex patula*) and miscellaneous herbaceous weeds

This project involves enhancing approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area along 60 linear feet of Puget Sound shoreline. The project will control invasive weeds and plant approximately 360 native trees, shrubs, herbs, forbs, and grasses. This proposed buffer planting project is complimentary to the cooperators replacing a deteriorating wood pile bulkhead along the shoreline with soft shore materials in the summer of 2022. This additional work is separate from the proposed project and the cost-share award is only for the buffer planting.

**EFFECTIVE DATE**

The cost-share award will become effective upon approval by the Board of Supervisors and the LIP contract will become effective upon signature by a Board representative.

**RECOMMENDATION**

Staff seeks Board approval of Landowner Incentive Program cost-share application from Joel Jornlin and Christine Page, for Aquatic Area Planting, in the amount of \$26,995.86.



**King Conservation District Board of Supervisors Meeting 12/13/2021**  
**Agenda Action Briefing/Report AI 21-**

**MOTION**

\_\_\_\_\_ Moved, \_\_\_\_\_ Seconded; *Passed a motion to Approve KCD Landowner Incentive Program cost-share application from Joel Jornlin and Christine Page, for a Aquatic Area Planting, in the amount of \$26,995.86.*



# KING CONSERVATION DISTRICT (KCD) LANDOWNER INCENTIVE PROGRAM APPLICATION

## Aquatic Area Enhancement Project

### Section 1. Applicant (If applicant is not the landowner, then landowner must also sign the agreement)

Applicant Name		Farm/Business Name:	
Mailing Address:		Project Address:	
Phone (home):		Phone (work/mobile):	
Email Address: j.jornlin@comcast.net macy117@comcast.net		KCD Staff:	
Parcel #(s) 0221029050	<input type="checkbox"/> Incorporated <input checked="" type="checkbox"/> Unincorporated	Total Farm/ and acreage:	<input checked="" type="checkbox"/> T.A. <input type="checkbox"/> Farm Plan <input type="checkbox"/> Forest Plan
Is email an acceptable primary form of communication	<input type="checkbox"/> Yes <input type="checkbox"/> No	Would you like to be added to our newsletter list?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Section 2. Project Information

<b>Best Management Practice (BMP)</b>
<b>Project Completion Date</b> <small>(month and year)</small>
<p><b>Current Site Conditions</b> <small>(Provide a brief summary of resource management problem addressed by BMP: note streams, wetlands, and steep slopes near or within the project area):</small></p> <p>The property is a residential parcel on the southern tip of Vashon Island between Point Dalco and the mouth of Tahlequah Creek. The parcel runs from the beach on the south to another parcel on the north and is reached by a common driveway from SW Pohl Road. The property encompasses 0.26 acres, with the project area covering approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area. The property gently slopes from the north to the house and then flattens out at the house to the top of bluff. The back of the house (facing the water) is set back 20 feet from the top of bluff and is maintained as lawn between the house and top of bluff. The bluff is approximately 45 feet in height and is composed of Alderwood and Kitsap soils (AkF) and Everett-Alderwood gravelly sandy loams (Ew) and is considered moderately steep. A geotech report describes</p>
<p><b>Project Details</b> <small>(Provide a brief summary of the project. Include acres treated, linear feet of stream enhanced, length of fence, types and numbers of plants, etc.):</small></p> <p>This project involves enhancing approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area along 60 linear feet of Puget Sound shoreline. The project will control invasive weeds and plant approximately 360 native trees, shrubs, herbs, forbs and grasses. This project is complimentary to a bulkhead replacement project scheduled for 2022.</p>
<p><b>Maintenance Plan:</b></p> <p>Planting areas will be maintained for 3-5 growing seasons. Activities will include control of invasive species and replanting if survivorship falls below 80%. The landowner is responsible for maintaining the project and providing photos for the lifetime of the practice. Photos must be submitted by 9/1 of each year.</p>



**Permits** (List all permits required to complete this project):

**Photos:** KCD Resource Planner must submit before photos with this application.

### Section 3. Cost-share Programs

A. Have you previously applied for cost-share through the KCD Landowner Incentive Program (LIP)?

☐ Yes ☐ No

If yes, please list contract number and BMP below:

B. Are you applying for (or received) funding (cost-share or grants) through other agencies or programs?

☐ Yes ☐ No

Please describe below:

**1. King County Cost-share**

Please list practices and date installed below:

**2. NRCS EQIP (Natural Resources Conservation Service's Environmental Quality Incentive Program)**

Please list practices and date installed below:

**3. Other**

Please list agency and describe project:

**Other Cost-Share History/Notes:**

### Section 4. Budget (attached as Exhibit A)

KCD will plan and install the Best Management Practice (BMP) on behalf of the Applicant. A detail of the project budget with line items for planning, installation, maintenance and cost-share ratios are attached as Exhibit A. Upon BMP installation, KCD will invoice the Applicant for the Applicant Cost-share listed in the following table. Applicant cost-share is due 30 days after receipt of a KCD invoice.

Program Cost-share	Cost-share Ratio	Amount
King CD Landowner Incentive Program	90%	\$ 26,995.86
King CD Aquatic Area Enhancement Program	__%	\$ 0.00
Washington State Conservation Commission	__%	\$ 0.00
Other (specify) -	__%	\$ 0.00
Other (specify) -	__%	\$ 0.00
Applicant Cost-share	10%	\$ 2,999.54
TOTAL	100%	\$ 29,995.40



## Section 5. Education and Outreach

KCD encourages public education through demonstration projects. Demonstration projects are used to educate other landowners about innovative ways to address natural resource concerns. A demonstration project may be showcased in a guided tour, or featured in presentations or written fact sheets.

A. Will you consider becoming a demonstration project

☐ Yes ☐ No

## Section 6. Maintenance and Monitoring Expectations

The applicant is responsible to maintain the Best Management Practice (BMP) to standard as detailed in the attached Job Sheet for the lifetime of the BMP.

- ☐ A. I understand the lifetime of the BMP is **15** years.
- ☐ B. I understand KCD will coordinate and conduct maintenance and replanting for the first three years of the lifetime of the BMP. After that, KCD will work with the Applicant to verify proper maintenance of the installed BMP. Verification of maintenance includes a combination of site visits with KCD staff members who will take photos of the project, and annual photo documentation submitted by the applicant for the lifetime listed in Section 6A.
- ☐ C. I understand I am obligated to maintain and monitor the BMP **for the lifetime listed in Section 6A.**

## Section 7. Application and Agreement

I request financial assistance (cost-share) under the KCD LIP to install the Best Management Practice (BMP) described in this application and detailed in the attached *Job Sheet and Map*. This practice is needed to solve the natural resource problems described in Section 2 of this application. This Agreement expires if the project is not completed by the specified completion date in Section 2 or in an approved timeline revision request. \_\_\_\_\_(Initial Here)

I authorize KCD to secure the applicable local, state and federal permits and to install the BMP on my behalf, and I agree to work cooperatively with KCD to obtain these permits. \_\_\_\_\_(Initial Here)

I agree to work cooperatively with KCD to ensure the funded BMP is maintained consistent with the design life identified in the attached Job Sheet and in Section 6 of this application. \_\_\_\_\_(Initial Here)

I agree to indemnify, defend, and hold harmless KCD, its elected or appointed officials, employees and agents, from all claims, alleged liability, damages, losses to or death of person or damage to property allegedly resulting from the negligent or intentional acts of the applicant or any of its employees or agents which may occur during the course of KCD's performance of the installation of the BMP provided in connection with this Agreement. \_\_\_\_\_(Initial Here)

I represent that the information provided in Section 3 of this application is a full disclosure of all other natural resource financial cost-share relationships in which I have or am participating. \_\_\_\_\_(Initial Here)

I understand that LIP cost-share is contingent upon installing the BMP to the minimum standard planned by KCD, and that KCD will verify and photo document standard compliance through its coordination of BMP installation. \_\_\_\_\_(Initial Here)

I understand that in cases where I become the recipient of a KCD LIP cost-share reimbursement there may be federal tax liability associated with the reimbursement. When this occurs, KCD will issue a 1099-G for reimbursements made through the LIP. I understand that KCD cannot provide advice with respect to the tax liability associated with LIP cost-share reimbursements. \_\_\_\_\_(Initial Here)

I understand that I am applying for public funding and am responsible for notifying a buyer upon sale or loss of the property of the installed BMP. If I sell or lose control of the property covered by this Agreement and the new owner or transferee does not assume responsibility for maintaining the installed BMP as required by this Agreement, I may be required to refund all or a portion of cost-share reimbursements received through this Agreement. In the event litigation is commenced by KCD to recover a refund of any cost-share reimbursements received through this Agreement, attorney's fees and costs incurred by the prevailing party in such action shall be paid by the non-prevailing party. \_\_\_\_\_(Initial Here)

I give permission to KCD to photograph my property to document the site conditions and/or the implementation and maintenance of the funded practice. In the event that I or any of my family members or dependents choose to be photographed in a setting that reflects the assistance provided by KCD, I give KCD permission to publish such photographs in KCD promotional literature, advertising, social media, and other public displays. The photographs will be the property of KCD and may be used by KCD at any time, in the manner described above, without my additional consent. \_\_\_\_\_(Initial Here)



I understand that this Agreement is subject to disclosure under the Public Records Act, Chapter 42.56 RCW. \_\_\_\_\_(Initial Here)

I understand that I will no longer be eligible for KCD cost-share funds if one or more of the following occurs: \_\_\_\_\_(Initial Here)

- a. The KCD funded BMP fails within its design life due to circumstances within my control (e.g., neglect, failure to maintain the BMP, destruction of the BMP before expiration of the design life, or other actions which cause the KCD funded BMP to become non-viable .  
*Note: Landowners are not responsible for BMP failure caused by circumstances beyond their control (e.g. fire, flood, storm damage, etc.)*
- b. I relinquish or lose ownership of equipment purchased with KCD cost-share.
- c. The KCD funded BMP is not being used for the intended purpose (e.g. cross fencing purchased with KCD funding, but no animals on property ).
- d. I cancel two cost-share contracts awarded through the KCD Landowner Incentive Program.
- e. I deny KCD staff access to my property to verify BMP maintenance.

I understand KCD will provide two signs, an LIP sign and aquatic area buffer sign, free of charge, and I agree that: \_\_\_\_\_(Initial Here)

- a. I will select a visible location on my property for display of the LIP sign and will install it.
- b. KCD will install the aquatic area buffer sign adjacent to the installed aquatic area enhancement project.
- c. I will maintain the signs and keep them free of visual barriers for at least five years after installation.
- d. I am not responsible for damage to the sign that is beyond my control e.g. auto accident, storm damage, vandalism, etc.)

Signature of applicant

Date

Signature of Landowner (if applicant is Lessee)

Date

FOR KCD OFFICE USE

Approved for Award (KCD LIP Coordinator)

Date

Approved for Funding (KCD Management)

Date

LIP I :

The budget amount relating to this Application and shown in the attached Budget Sheet was calculated by KCD staff based on an evaluation of the current market conditions of the project implementation and management activities outlined in the Scope of Work in the attached Job Sheet. A bid for the work will be obtained by the cooperator from a contractor to perform the Scope of Work outlined in the Job Sheet. The cooperator will then submit this bid to KCD and the original budget estimate may be adjusted to meet the bid consistent with KCD's current cost-share rates and policies. KCD reserves the right to review and approve bids that exceed the budget estimates contained in the Budget Sheet. If the bid includes modifications to the Scope of Work outlined in the Job Sheet, these changes may have to go through a Scope of Work revision approval process prior to the cost-share Budget Sheet being approved for adjustment based on the amount of the bid submitted to KCD. \_\_\_\_\_(Initial Here)





11/12/2021

## Jornlin Page Project Budget

**Project Manager:** Debbie Meisinger

**Landowner(s):** Joel Jornlin and Christine Page

**Project Summary:**

This project is a marine riparian bluff and beach vegetation enhancement project and includes enhancing approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area along 60 linear feet of Puget Sound shoreline. The project will control invasive weeds and replace with approximately 360 native trees, shrubs, herbs, forbs and grasses. A contractor will install the project and maintain it for a minimum of 3 growing seasons following installation. The landowner will maintain the project for the remaining years of the project's 15-year design life.

	Days/Units/Hours	Cost Per	Subtotals	KCD LIP (90%)	Landowner funds (10%)
<b>Labor (Cost Share)</b>					
Site Prep (per crew day)	4	\$ 1,700.00	\$ 6,800.00		
Erosion Control (per crew day)	1.5	\$ 1,700.00	\$ 2,550.00		
Planting (per crew day)	2	\$ 1,700.00	\$ 3,400.00		
Mulching (per crew day)	0.5	\$ 1,700.00	\$ 850.00		
			\$ -		
			<b>\$ 13,600.00</b>	<b>\$ 12,240.00</b>	<b>\$ 1,360.00</b>
<b>Materials (Cost Share)</b>					
Plants - 1/2 - 1-gallon pots	362	\$ 6.00	\$ 2,172.00		
Brush Disposal (per 7 cubic yard load)	6	\$ 25.00	\$ 150.00		
Mulch - Hog Fuel (per cubic yard)	15	\$ 33.00	\$ 495.00		
Mulch Delivery Fee	1	\$ 50.00	\$ 50.00		
12" x 10' Coconut Fiber Logs (per log)	12	\$ 100.00	\$ 1,200.00		
2" x 2" x 24" Wood Stakes (bundle of 25)	2	\$ 55.00	\$ 110.00		
Freight Delivery Fee	3	\$ 40.00	\$ 120.00		
Cardboard Sheets (44" x 56")	45	\$ 1.10	\$ 49.50		
Straw Bales	6	\$ 15.00	\$ 90.00		
Vashon Ferry Fees	14	\$ 21.35	\$ 298.90		
			<b>\$ 4,735.40</b>	<b>\$ 4,261.86</b>	<b>\$ 473.54</b>
<b>Maintenance - 3 Years</b>					
Crew Days in field:	6	\$ 1,700.00	\$ 10,200.00		
Project Management	20	\$ 48.00	\$ 960.00		
Materials (mulch, replanting)			\$ 500.00		
			<b>\$ 11,660.00</b>	<b>\$ 10,494.00</b>	<b>\$ 1,166.00</b>
<b>Installation Total Est.</b>				<b>\$ 26,995.86</b>	<b>\$ 2,999.54</b>
<b>Landowner Cost Share Max</b>					





# JOB SHEET

## Planting - Marine Riparian and Beach

Landowner: Jornlin Page	
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Purpose (check all that apply)	
<input checked="" type="checkbox"/> Create shade to improve habitat for aquatic organisms	<input checked="" type="checkbox"/> Improve slope and bluff stability through vegetation management
<input checked="" type="checkbox"/> Create or improve riparian habitat and provide a source of detritus and large woody debris	<input checked="" type="checkbox"/> Restore natural marine riparian and/or beach plant communities
<input checked="" type="checkbox"/> Reduce volume and amounts surface water runoff	<input checked="" type="checkbox"/> Improve wildlife habitat
<input type="checkbox"/> Other (at Planner discretion) _____	<input type="checkbox"/> Increase carbon storage in vegetation and soils, and increase biomass in soils

**Current Site Conditions** *Provide a summary of the resource management problems addressed by the BMP. Also note any other current conditions pertinent to the project (slopes, erosion, flow, drainage)*

The property is a residential parcel on the southern tip of Vashon Island between Point Dalco and the mouth of Tahlequah Creek. The parcel runs from the beach on the south to another parcel on the north and is reached by a common driveway from SW Pohl Road. The property encompasses 0.26 acres, with the project area covering approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area. The property gently slopes from the north to the house and then flattens out at the house to the top of bluff. The back of the house (facing the water) is set back 20 feet from the top of bluff and is maintained as lawn between the house and top of bluff. The bluff is approximately 45 feet in height and is composed of Alderwood and Kitsap soils (AkF) and Everett-Alderwood gravelly sandy loams (Ew) and is considered moderately steep. A geotech report describes the soil structure as 'extremely dense glaciated till (hard pan) and geotechnically stable'. The existing vegetation on the bluff is predominantly Himalayan blackberry with patches of periwinkle and sparse native shrub and groundcover species throughout and a single young Pacific madrone at mid-bluff. The beach and nearshore substrate consist of fine sand, gravel and pebbles and is subject to high tides and wave action. Existing nearshore vegetation includes native saltgrass (*Distichlis spicata*), saltweed (*Atriplex patula*) and misc. herbaceous weeds. There is a deteriorating wood pile bulkhead along the shoreline that is scheduled to be replaced with soft shore materials in the summer of 2022.

**Planting Practice Details:**

- 1) a basic description of the proposed planting area
- 2) calculate and record the square footage (acreage) of the planting area, the number of trees and shrubs to be planted, the linear footage of stream enhanced, the average and minimum width of the buffer:
- 3) list any native plant species currently existing on site
- 4) list native trees and shrubs selected for the project
- 5) attach your proposed planting plan

1) The project has 3 distinct planting zones: **Zone 1: Top of Bluff** **Zone 2: Bluff Face** **Zone 3: Beach and nearshore** along 60 linear feet of Puget Sound shoreline with the whole project width averaging 60 feet from the beach to the top of slope. Zone 1 is currently maintained as lawn, Zone 2 is predominantly covered with Himalayan blackberry and patches of periwinkle with sparse natives and Zone 3 has some native grasses and other native and non-native herbaceous vegetation.



- 2) The project will enhance approximately 700 square feet of sandy beach and toe of bluff and 2,000 square feet of bluff, including a top of bluff hedgerow buffer. A total of 362 trees, shrubs, grasses and herbaceous vegetation are planned for installation. Native grasses, forbs and groundcovers will be planted on the sandy beach and toe of slope and native trees and shrubs will be planted from toe of slope throughout the riparian buffer at a density averaging 4' on center.
- 3) Existing native species on the bluff include a single madrone and sparse salal. The beach has a large patch of salt grass (*Distichlis spicata*) and saltweed (*Atriplex patula*).
- 4) Grand fir, Shore Pine, Madrone, hazelnut, vine maple, oceanspray, red flowering currant, snowberry, Hooker willow, salal and sword fern.
- 5) See attached plan.

**Permits** *Are there any permits necessary for the project? If so, please list below and include a copy of the permit*

*Aquatic Areas:*

There may be permits needed to apply herbicide in aquatic areas or their buffers. See the WA State Department of Ecology website for further details: <http://www.ecy.wa.gov/programs/wq/pesticides/>.

Contractor will obtain aquatic herbicide permit as needed.

**Type and Source of Plant Material** *Will you use potted plants, bareroot plants, b&b plants or a combination? Where will you get the plants from and when?*

Plant material will be native species adapted to the site to minimize maintenance and care. Plants should be 1- and 2-gallon containers, live stakes, and/or bareroot material sourced from the Puget Sound region.

**Site Preparation** *List what method(s) of site preparation will be used, who will be doing the work, when will the work be done.*

Specific weed control prescriptions are detailed below. If brush and debris are removed from the project area, all material will be hauled off-site or masticated /chipped in a staging area. If masticated material is intended for use as mulch on the site, invasive species should not be included in the masticating/chipping process.

*Weed Control Prescriptions:*

Himalayan & Evergreen Blackberry Control –

- *Manual control:* Mow or cut the blackberry canes to less than 1 foot in height, then grub/dig out the roots attached to the cut canes. Thorough removal of blackberry roots in this manner, while labor intensive can reduce the blackberry population and cover in the prepared area by 90 – 95%. Monitor for re-growth in the following growing seasons; dig up any re-growth.
- *Chemical Control:* An alternative control method includes herbicide. One technique involves cutting/mowing the canes and swabbing the freshly cut canes with an approved herbicide. Foliar spray of blackberry is another effective control method. It is recommended that blackberry is mowed early in the summer and sprayed on the foliar re-growth the next fall (September/October).. **Always follow label rates and instructions.**

Periwinkle Control –

- *Chemical control:* Can be effectively controlled using any of several readily available herbicides such as glyphosate in the spring. Repeat application to prevent re-growth. **Always follow label rates and instructions.**



### Grass/Turf Control –

- *Manual Control:* Shading is highly effective in reducing grass stands. A dense planting of trees and shrubs, once established, is ideal for shading. Faster growing deciduous trees and shrubs, especially those that develop foliage in the early spring, combined with an under-planting of conifers can be effective. Artificial methods of shading can be used in conjunction with native plantings. Sheets of thick cardboard or landscaping fabric placed around each individual plant should be secured to the ground by long staples or stakes and covered with 5-6 inches of mulch. The combination of sheeting and mulch provides temporary suppression of the grass, allowing the desirable vegetation to thrive without competition. *Not recommended for flood prone areas.*
- *Chemical Control:* Herbicide can be effective in elimination of grass when properly applied. Studies show that spraying Glyphosate (the active ingredient in products such as ®Rodeo) after a stand is mown or when the grass has the minimum available carbohydrate reserves (after flowering) is an effective control method. Follow-up spraying the next year may be necessary to eliminate the remaining grass. **Always follow label rates and instructions.**

### **Care and Temporary Storage of Purchased Plant Material** *Upon receiving the plant material, where will you store it and how will you care for it?*

All plant material should be stored in a cool location and well-watered prior to planting. In the case of bare root plants, inventory should be held in the source refrigerated facility if possible prior to planting. Bare root plants can be stored in the field for up to one to three weeks prior to planting by placing them in a shaded location where they will remain cool. Such a location should prevent freezing as well as exposure to warm temperatures. Additionally, bareroot inventory should be covered with a tarp to prevent drying. Bareroot stock that is expected to emerge from dormancy prior to planting should be “heeled” into a soil bed. To heel-in, dig a v-shaped trench to a depth that accommodates covering the seedling roots when back-filled with soil.

### **Installation** *Provide the following details: 1) Plant Installation Prescription: 2) Plant Protection Prescription: 3) Weed Suppression Prescription: 4) Erosion Control Prescription*

#### *1) Plant Installation Prescription:*

Live Stake Inventory: Live Stakes and whips should be planted using a planting bar. Stakes and whips are to be 3 to 4 feet long, and a minimum of ½ inch in diameter. Stakes should be stored in a bucket of water until planted. Buds should face up in the bucket. Soaking before planting greatly increases the survival of live stakes and whips. Refer also to the attached planting instructions in *Planting Live Hardwood Stakes*.

Potted & Plug Inventory: Potted plant material should be shovel planted to the same depth that they grew in the pot. Plants will be well watered prior to planting. Prior to digging a hole for the plant, prepare the planting location by removing a grass sod within a 1.5 feet diameter circle, being careful to remove roots as well as above ground portions of the plant. Dig a hole for the container in the center of this cleared circle twice the size of the plant’s pot. Backfill the hole with soil while using care to avoid leaving air pockets in the soil. Refer also to the attached planting instructions in *Planting Container Trees and Shrubs*.

Bareroot Inventory: Bare root seedlings should be shovel planted to the same depth that they grew in the nursery fields. Roots will remain moist once they are removed from the shipping bundles until they are planted. Roots will be placed in a natural position in the soil without being crowded or turned up. Soil will be packed firmly



around the root system, leaving no air pockets. Prior to digging a hole for the plant, prepare the planting location by removing all grass sod within a 1.5-foot diameter circle, being careful to remove roots as well as above ground grass. Dig a hole for the bare root plant in the center of this cleared circle. Refer also to the attached planting instructions in *Planting Bare Root Trees and Shrubs*.

### *2) Plant Protection Prescription:*

Tree Protectors (for sites where deer/elk browse is anticipated): Install fencing, 3 foot diameter and 5 feet high, on newly planted Western Red Cedar to protect trees from deer browsing. Weave 6 foot bamboo stakes fencing and bury at least 8 inches into the ground in order to stabilize.

Basal Wrapping & Tree Protectors (for sites where vole/mouse herbivory is anticipated): Voles, mouse-like animals, are especially present in meadow and pasture areas and target trees and shrubs primarily in the winter when other food sources are scarce. They will readily girdle small trees and shrubs and tunnel through and eat root systems. Vole damage is hard to catch before it occurs. If voles or vole activity have been seen at a site, steps must be taken to protect young plants directly after they are planted. Start by managing other vegetation near the plant by weeding or mowing and not leaving vegetation as thatch. Be sure that mulch is not too close to the base of the plant as loose mulch may encourage voles. Plant protectors and basal wrappings may also be installed. These protectors can plastic, mesh, or galvanized steel hardware cloth (1/4 or 3/8 inch). Circle the base of the plant with the material and create a tube by securing the material to itself. Be sure to leave room for growth. Then bury the bottom a few inches into the soil. Recommended height is 12 inches.

### *3) Weed Suppression Prescription*

Mulching: In locations where ongoing weed suppression is a concern, prepare the area around each plant by placing a barrier of cardboard around the plant. After placing the barrier, apply a layer of mulch over the weed barrier to a depth of 4-6 inches. Mulching options include wood chips, fully composted organic material such as a commercial compost product or weed free straw. Mulch should be weed free, if possible, to avoid introducing new weeds to the project site. Mulch is not necessary in the emergent plant zones.

### *4) Erosion Control Prescription*

Mulch: In addition to weed suppression mulch products are effective for preventing soil erosion. Mulch may be used in areas with exposed soil that will need protection for less than 30 days (before plants are installed). Materials may include straw, wood fiber cellulose, compost, arborist chips, or chipped site vegetation (must not include live invasive plant material). Product will be applied 2 inches thick at a minimum.

Wattles: Wattles are erosion and sediment barriers consisting of straw wrapped in a tubular encasing material. Wattles are placed in shallow trenches and staked along the contour of disturbed or newly constructed slopes.

- 1) Wattles are installed perpendicular to the flow direction and parallel to the slope contour.
- 2) Narrow trenches should be dug across the slope, on contour, to a depth of 3 to 5 inches on clay soils and soils with gradual slopes. On loose soils, steep slopes, and during high rainfall events, the trenches should be dug to a depth of 5 to 7 inches, or 1/2 to 2/3 of the thickness of the wattle.
- 3) Start construction of trenches and installing wattles from the base of the slope and work uphill. Excavated material should be spread evenly along the uphill slope and compacted using hand tamping or other method. Construct trenches at contour intervals of 3 to 30 feet apart depending on the steepness of the slope, soil type, and rainfall. The steeper the slope the closer together the trenches should be constructed.
- 4) Install the wattles snugly in to the trenches and abut tightly end to end. Do no overlap the ends.
- 5) Install stakes at each end of the wattle, and at 4 foot centers along the entire length of the wattle.
- 6) If required, install pilot holes for the stakes using a straight bar to drive holes through the wattle and into the soil.
- 7) At a minimum, wooden stakes should be approximately 3/4 x 3/4 x 24 inches. Willow cuttings or 3/8 inch rebar can also be used for stakes.



- 8) Stakes should be driven through the middle of the wattle, leaving 2 to 3 inches of the stake protruding above the wattle.

Coir Logs: Coir logs are erosion and sediment barriers consisting of biodegradable fiber densely packed within biodegradable tubular netting. Coir logs are placed in shallow trenches and secured in place with wood and/or live stakes.

- 1) Coir logs should be installed perpendicular to the flow direction and parallel to the slope contour.
- 2) Narrow trenches should be dug across the slope, on contour, to a depth of 3 to 5 inches on clay soils and soils with gradual slopes.
- 3) Coir logs should be installed starting from the base of the slope and then uphill. Excavated material should be spread evenly along the uphill slope and compacted using hand tamping or other method.
- 4) Coir logs should abut tightly end to end. The ends should not overlap.
- 5) Stakes should be installed at the end of each coir log and at 4 foot intervals along the entire length of the wattle.
- 6) Stakes should be driven through the middle of the coir log, leaving 2 to 3 inches of the stake protruding above the wattle.

Seeding: In areas that will not be planted immediately seeding with an erosion control seed mix will prevent soil erosion. A sterile wheat product called ®Regreen or a native seed mix may be used. ®Regreen is a commercial brand of sterile wheat that will form a cover crop and die back within approximately one year to three years. ®Regreen shall be applied a rate of 60 lbs per acre when hydro seeded, and 120 lbs per acre when broadcast seeded. The best time to seed is April 1 to June 30 and September 1 through October 15; however irrigation may be required to grow adequate cover.

**Fencing** *Is fencing going to be installed? If so, what type, who will install it and when?*

**Temporary fencing designed to exclude deer from browsing the new plantings until they are established may be considered if browse becomes an issue.**

**Planting Project Maintenance and Monitoring** *The planting must be inspected periodically and protected from damage so proper function is maintained. The goal for the project is to reach 80% survival after 3 years. Please describe the maintenance and monitoring plan.*

The landowner/ contractor will maintain the project for a minimum of 3-5 growing seasons. Activities will include control of invasive species and replanting if survivorship falls below 80%. The landowner is responsible for maintaining the project and providing photos for the remaining 10-12 years of the practice. Photos must be submitted by 9/1 of each year. When possible, photos should be taken from established photo points and capture the same field of view over time.

Plantings should be inspected periodically and protected from damage so proper function is maintained and resource damage is minimized, including assessment of insects, disease and other pests, storm damage, and damage by trespass. The results of inspections shall determine the need for additional treatment under this practice.

Replace dead or dying trees and shrubs and control competing vegetation to support successful establishment. Periodic application of mulch may be needed to maintain plant vigor. Periodic harvest of trees and shrubs (thinning and brushing) may be necessary to maintain the health and vigor of the stand and support its development toward more mature stand conditions. Keep large dead and dying trees for cavity nesting wildlife and bird species and as a source of downed wood in the forest understory and in adjacent or interior aquatic habitats.

If areas were brushed in order to plant trees, maintain these openings until the leader of the tree surpasses the height of the surrounding vegetation.



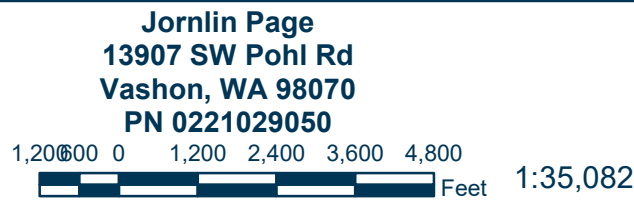
All plant protection materials as well as any other non-biodegradable materials installed on-site should be removed within the 3-5 year project maintenance window.

### Additional Specifications and Notes:





Service Layer Credits: EagleView Technologies



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30 15 0 30  
Feet

**Jornlin Page**  
**13907 SW Pohl Rd**  
**Vashon, WA 98070**  
**PN 0221029050**

1:395

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## Jornlin Page Project Timeline and Description

**Project Manager:** Debbie Meisinger

**Landowner:** Joel Jornlin and Christine Page

**Project Location:** 13907 SW Pohl Rd  
Vashon, WA 98070  
PN: 0221029050

### Project Summary:

This project is a marine riparian bluff and beach vegetation enhancement project and includes enhancing approximately 2,000 square feet of bluff and 700 square feet of beach and nearshore area along 60 linear feet of Puget Sound shoreline. The project will control invasive weeds and replace with approximately 360 native trees, shrubs, herbs, forbs and grasses. A contractor will install the project and maintain it for a minimum of 3 growing seasons following installation. The landowner will maintain the project for the remaining years of the project's 15-year design life.

### Considerations:

**No Heavy Equipment:** No heavy or mechanized equipment will be utilized during the installation of this project. All work will be completed by hand or with light hand-held equipment.

**Limited Disturbance:** Soil will only be disturbed to remove invasive species roots or to plant bareroots or 1/2-2 gal container stock of native species. No trees will be removed or killed.

Zone	Area (sq. ft.)	Season/Year	Description of Activities
Zone 1 Top of Bluff	250	Summer/Fall 2022	<b>Site Preparation –</b> <b>Grass Suppression/bed preparation:</b> prepare ground for planting either by sheet mulching with cardboard and wood chips or by chemical control of existing grass (or combination). <b>Sheet mulching:</b> Sheets of thick cardboard, placed in footprint of planned hedgerow planting area, should be secured to the ground by long staples or stakes and covered with 5-6 inches of wood chip mulch to provide temporary suppression of the grass and allow the desirable vegetation to thrive without competition. <b>Chemical Control:</b> Herbicide can be effective in elimination of grass when properly applied. Row or ring spraying Glyphosate (the active ingredient in products such as âRodeo) after a stand is mown or when the grass has the minimum available carbohydrate reserves (after flowering) is an effective control method. Follow-up spraying the next year may be necessary to eliminate the remaining grass. Always follow label rates and instructions.
Zone 2 Bluff Face	1650	Summer/Fall 2022	<b>Site Preparation –</b> <b>Weed control/Spray:</b> Species to control include: Himalayan blackberry and periwinkle.. Contractor will use an integrated pest management (IPM) approach in accordance with King County Noxious Weed Control Program's Best Management Practices. Control techniques will involve manual, mechanical, and chemical methods. All herbicide formulations will be aquatic approved and limited to the following active ingredients of triclopyr, imazapyr, or glyphosate. Herbicides will be applied by a WSDA Licensed Operator with an Aquatic Endorsement. Operators will follow label rates and instructions and abide by all local, state, and federal codes. <b>Weed Control/Cutting:</b> Dead blackberry canes will be brushcut to lengths of 1-3 feet and left in place to cover bluff surface and decay overtime. Any green canes will be left standing and resprayed, weather permitting. <b>Erosion control:</b> coir logs will be placed and stakde as needed on contours where appropriate following guidelines in the Job Sheet. Straw will be spread to cover any exposed soils on the bluff.
1 and 2	250 and 1650	Fall 2022	<b>Planting –</b> Contractor will install native plant species found on the attached planting plan. Plants will be installed 4 feet on center and placement should mimic natural growing habits as much as possible. Shrubs will be in same species clusters, trees will be installed at a spacing of 12-18 feet on center.
Zone 3 Beach/Nearshore	750	Spring 2022 Spring 2023	<b>Planting –</b> Contractor will install native plant species found on the attached planting plan. Plants will be installed 2-4 feet on center and be place between and among the log structures at appropriate elevations.
1,2,3	2,650	Summer 2023- 2025	<b>Maintenance &amp; Monitoring –</b> Contractor will maintain and monitor the plantings for a minimum of 3 consecutive growing seasons following installation. Maintenance will involve control of invasive species in accordance with King County Noxious Weed Control Program's Best Management Practices. Plants will be maintained and replanted as needed to achieve at least 80% survivorship over the lifetime of the practice.





## Jornlin Page Planting Plan

**Project Manager:** Debbie Meisinger

**Landowner(s):** Joel Jornlin and Christine Page

**Project Summary:** This project will enhance a marine riparian area along 60 feet of Puget Sound shoreline. The project will enhance 2,650 sq.ft. of riparian habitat through control of invasive vegetation and replanting with native species to restore natural plant communities on the bluff and nearshore habitat on the beach. The project includes three years of maintenance. See map for locations of proposed project areas and the *Job Sheet* and *Implementation Timeline* for detailed planting and maintenance instructions.

Targets		
Trees 18'oc	Shrubs 4'oc	Grasses and herbs 2'oc
1	15	
5	98	
		150

<b>Zone 1:</b>	Total Area (sq. ft.):250	Plantable Area (sq. ft.):	250	<b>Top of bluff hedgerow:</b> This zone is currently maintained as lawn. It is south facing and receives full sun and has moderate to well-drained soils.
<b>Zone 2:</b>	Total Area (sq. ft.):1,650	Plantable Area (sq. ft.):	1650	<b>Bluff face:</b> This zone is a steep slope approximately 20-25' high and slopes at an angle of approximately 2H:1V and is composed of glacial till. It is almost 100% covered with Himalayan Blackberry with patches of periwinkle. There is 1 medium sized madrone and sparse salal throughout the bluff.
<b>Zone 3:</b>	Total Area (sq. ft.):750	Plantable Area (sq. ft.):	600	<b>Nearshore and backbeach:</b> This zone encompasses the planned large wood area just above the ordinary high water mark. The substrate consists of fine sand and pebbles and is subject to high tides and periodic wave inundation. Existing vegetation includes saltgrass, saltweed and misc. herbaceous weeds. New plantings will be placed between and among the large woody debris.

	Species (Latin Name)	Species (Common Name)	Total	Zone 1	Zone 2	Zone 3			Moisture, Sunlight	Size	Source	Spacing
<b>Trees</b>												
	<i>Abies grandis</i>	Grand Fir	3		3				moist/dry, part shade/full sun	1 gal	TBD	18'oc
	<i>Arbutus menziesii</i>	Pacific Madrone	1		1				dry, full sun	1 gal	TBD	18'oc
	<i>Pinus contorta</i>	Shore Pine	4	2	2				dry, full sun	1 gal	TBD	18'oc
		<b>Trees Total</b>	<b>8</b>	<b>2</b>	<b>6</b>	<b>0</b>						
<b>Small Trees/Large Shrubs</b>												
	<i>Amelanchier alnifolia</i>	Serviceberry	5		5				moist/dry, full sun	1 gal	TBD	8'oc
	<i>Acer circinatum</i>	Vine Maple	7	2	5				moist, part shade/part sun	1 gal	TBD	8'oc
	<i>Corylus cornuta</i>	Beaked Hazelnut	5		5				moist/dry, part shade/part sun	1 gal	TBD	8'oc
	<i>Malus fusca</i>	Pacific Crabapple	2		2				wet/moist, part shade/full sun	1 gal	TBD	8'oc
	<i>Salix hookeriana</i>	Hooker's Willow	5		5				wet/moist, full sun	1 gal	TBD	8'oc
<b>Shrubs</b>												
	<i>Gaultheria shallon</i>	Salal	20	10	10				dry/moist, shade/part sun	1/2 gal	TBD	4'oc
	<i>Holodiscus discolor</i>	Oceanspray	20		20				dry/moist, part shade/part sun	1 gal	TBD	4'oc
	<i>Lonicera hispidula</i>	Hairy Honeysuckle	20		20				dry/moist, part shade/full sun	1/2 gal	TBD	4'oc
	<i>Mahonia aquifolium</i>	Tall Oregon Grape	20	5	15				dry/moist, part shade/full sun	1 gal	TBD	4'oc
	<i>Philadelphus lewisii</i>	Mock Orange	5	5					moist, part shade/part sun	1 gal	TBD	4'oc
	<i>Ribes sanguineum</i>	Red Flowering Currant	5	5					dry/moist, part shade/full sun	1 gal	TBD	4'oc
	<i>Rubus ursinus</i>	Trailing Blackberry	20		20				dry/moist, part shade/full sun	1 gal	TBD	4'oc
	<i>Symphoricarpos albus</i>	Snowberry	20		20				moist/dry, part shade/full sun	1 gal	TBD	4'oc
	<i>Vaccinium ovatum</i>	Evergreen Huckleberry	20	5	15				dry/moist, shade/part sun	1 gal	TBD	4'oc
		<b>Shrubs Total</b>	<b>174</b>	<b>32</b>	<b>142</b>	<b>0</b>						
<b>Herbs, Forbs, Grasses</b>												
	<i>Achillea millefolium</i>	Yarrow	25			25			dry/moist, full sun	1/2 gal	TBD	2-4'oc
	<i>Aster subspicatus</i>	Douglas' Aster	25			25			moist/wet, full sun/part shade	1/2 gal	TBD	2-4'oc
	<i>Distichlis spicata</i>	Salt grass	30			30			dry/moist, sun/part shade	1/2 gal	TBD	2-4'oc
	<i>Deschampsia caespitosa</i>	Tufted hair grass	20			20			dry/moist, sun/part shade	1/2 gal	TBD	2-4'oc
	<i>Fragaria chiloensis</i>	Coastal Strawberry	20			20			moist/dry, full sun/part shade	1/2 gal	TBD	2-4'oc
	<i>Grindelia integrifolia</i>	Gumweed	25			25			dry/moist, full sun/part shade	1/2 gal	TBD	2-4'oc
	<i>Leymus mollis</i>	Beach dune grass	40			40			moist/wet, full sun/part shade	1 gal	TBD	2-4'oc
	<i>Polystichum munitum</i>	Sword Fern	20	10	10				moist, full shade/part sun	1 gal	TBD	2-4'oc
		<b>Herbs, Forbs, Grasses Total</b>	<b>180</b>	<b>10</b>	<b>10</b>	<b>185</b>						
		<b>Grand Total</b>	<b>362</b>	<b>44</b>	<b>158</b>	<b>185</b>						





Top of bluff looking East toward Tahlequah Ferry Terminal (Zones 1,2)





Mid-bluff looking East from top of staircase (Zone 2)





Base of bluff looking up toward house (Zones 2,3)





Backshore/beach (Zones 2, 3)



## King Conservation District Board of Supervisors Meeting 12/13/2021

### Agenda Action Briefing/Report AI 21- 080

#### SUBJECT:

Review for Approval KCD Landowner Incentive Program cost-share application from Gary Remlinger, for a Stream Crossing, in the amount of \$30,000.00.

#### FISCAL IMPACT

The current balance of cost-share funding for KCD LIP 2021 is summarized in the following table:

2021 LIP Cost-share Available	<b>\$123,260.80</b>
Current Request	<b>\$30,000.00</b>
Balance Remaining	<b>\$93,260.80</b>

#### POLICY CONSIDERATION

This proposed cost-share contract has been vetted through a staff approval committee and meets NRCS standards for the applicable best management practice (BMP). The application has been advanced for due pass by the Board of Supervisors.

#### STAKEHOLDER INTERESTS

- District cooperators working with District farm management, forestry and aquatic area enhancement programs
- King CD Board members and staff
- NRCS

#### BACKGROUND

This project will take place on Remlinger Farms which is primarily used for U-pick berries and pumpkins. This project will install two stream crossings, replacing two culverts which are fish passage barriers on Langlois Creek, a tributary to the Snoqualmie River, just outside of Carnation, WA. This proposed project is part of a larger project with King County ADAP, Snoqualmie Valley Watershed Improvement District, KCD, NRCS, and the cooperator which will remove and replace the five farthest downstream barriers to fish passage (referred to as Culverts #1, 2, 3, 4 and a barrier log weir). This proposed LIP cost-share award is associated with Culvert #3 and #4. The resource concerns are inadequate fish and wildlife habitat (fish passage) and excess water (functional drainage system) in part due to it being undersized and negative sloped or perched. Replacement of these two existing, undersized culverts would address these resource concerns. The two existing undersized and failing culverts both support a farm access roads that cross Langlois Creek providing access to fields used for grazing on Remlinger Farms. Both existing crossings will be replaced with precast concrete box culverts designed using the WDFW stream simulation approach to provide fish with passage at as wide a range of flows as possible. Final engineering designs have been completed by the engineering firm ESA for the Snoqualmie Valley Watershed Improvement District (SVWID) and comments have been received from permitting agencies and responded to. Culvert details are on Sheet 13 of the ADAP plan set (included).

Also included in the larger project are plans to extend the newly planted riparian forest buffer on both banks to 50 ft with the addition of mostly conifers and some deciduous trees. In addition to the buffer plantings, habitat in the immediate vicinity of each culvert will be enhanced and restored with native trees and shrubs. Another habitat restoration element included in this larger project are instream large wood structures in the vicinity of each culvert replacement, which will be anchored into the banks, to provide channel/habitat complexity and cover for fish.

#### EFFECTIVE DATE

The cost-share award will become effective upon approval by the Board of Supervisors and the LIP contract will become effective upon signature by a Board representative.

AI 21-



**King Conservation District Board of Supervisors Meeting 12/13/2021**  
**Agenda Action Briefing/Report AI 21-**

**RECOMMENDATION**

Staff seeks Board approval of Landowner Incentive Program cost-share application from Gary Remlinger, for Stream Crossing in the amount of \$30,000.00.

**MOTION**

\_\_\_\_\_ Moved, \_\_\_\_\_ Seconded; *Passed a motion to Approve KCD Landowner Incentive Program cost-share application from Gary Remlinger, for Stream Crossing, in the amount of \$30,000.00.*



# KING CONSERVATION DISTRICT (KCD) LANDOWNER INCENTIVE PROGRAM APPLICATION

## Section 1. Applicant (If applicant is not the landowner, then landowner must also sign the agreement)

Applicant Name:		Farm/Business Name:	
Mailing Address:		Project Address:	
Phone (home):		Phone (work/mobile):	
Email Address:		KCD Staff:	
Parcel #(s):	<input type="checkbox"/> Incorporated <input type="checkbox"/> Unincorporated	Total Farm/Land Acreage:	<input type="checkbox"/> T.A. <input type="checkbox"/> Farm Plan <input type="checkbox"/> Forest Plan
Is email an acceptable primary form of communication?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Would you like to be added to our newsletter list?	<input type="checkbox"/> Yes <input type="checkbox"/> No

## Section 2. Project Information

<b>Best Management Practice (BMP):</b>
<b>Project Completion Date</b> ( <i>month and year</i> ):
<b>Current Site Conditions</b> ( <i>Provide a brief summary of resource management problem addressed by BMP: also note if streams, wetlands, and steep slopes are near or within the project area</i> ):          
<b>Project Details</b> ( <i>Provide a brief summary of the project. Include acres treated, length of fence, dimensions of compost bin, types and numbers of plants, etc.</i> ):          
<b>Maintenance Plan</b> ( <i>Summarize your plan to maintain the practice. Include frequency and scope of inspections, repairs anticipated, etc.</i> ):          



<b>Permits</b> <i>(List all permits required to complete this project):</i>  
<b>Photos:</b> Before photos must be submitted with this application.

Section 3. Cost-share Programs

A. Have you previously applied for cost-share through the KCD Landowner Incentive Program (LIP)? If yes, please list contract number and BMP below:	Yes	No
B. Are you applying for (or received) funding (cost-share or grants) through other agencies or programs? Please describe below:	Yes	No
1. <b>King County Cost-share</b> Please list practices and date installed below:		
2. <b>NRCS EQIP (Natural Resources Conservation Service’s Environmental Quality Incentive Program)</b> Please list practices and date installed below:		
3. <b>Other</b> Please list agency and describe project:		

Other Cost-Share History/Notes:

Section 4. Budget (attached as Exhibit A)

The cost-share application budget is the applicant’s statement for how the KCD cost-share funds will be spent. Use the attached Excel document to detail the budget for the project. Reimbursement values are restricted by unit maximums as well as practice maximums. KCD will be unable to provide a budget that exceeds either maximum. The cost differential for practices installed at a higher standard or cost shall be the responsibility of the applicant. In cases where a budget for a cost-share award needs to be updated, submit a budget revision request for approval. In the absence of an approved budget revision, the cost differential shall be the responsibility of the applicant. Furthermore, receiving financial assistance for an approved Best Management Practices will be subject to inspection by KCD planners. Approval for reimbursement will be based on the satisfactory completion of the project to the minimum specifications detailed in this application.

Partial reimbursements are available on a limited basis and must be requested in advance. They will only be considered when the installation of a project can be phased to achieve the standard described in the attached job sheet when reimbursement is requested.

- Select this box if you intend to request partial reimbursement as the project is installed.



## Section 5. Education and Outreach

KCD encourages public education through demonstration projects. Demonstration projects are used to educate other landowners about innovative ways to address natural resource concerns. A demonstration project may be showcased in a guided tour, or featured in presentations or written fact sheets.

- Will you consider becoming a demonstration project? Yes No

## Section 6. Maintenance and Monitoring Expectations

The applicant is responsible to maintain the Best Management Practice (BMP) to standard as detailed in the attached Job Sheet for the lifetime of the BMP.

- A. I understand the lifetime of the BMP is \_\_\_\_ years.
- B. I understand KCD will work with me to verify proper maintenance of the installed BMP, which will include a combination of site visits with KCD staff and/or annual photo documentation submitted by me for the lifetime listed in Section 7A.
- C. I understand I am obligated to maintain and monitor the BMP **for the lifetime listed in Section 6A.**

## Section 7. Application and Agreement

I request financial assistance (cost-share) under the KCD LIP to install the Best Management Practice (BMP) described in this application and detailed in the attached *Job Sheet and Map*. This practice is needed to solve the natural resource problems described in Section 2 of this application. This Agreement expires if the project is not completed by the specified completion date in Section 2 or in an approved timeline revision request. \_\_\_\_\_ (Initial Here)

I agree to ensure that all applicable local, state, and federal permits are obtained for installation of the BMP for which funds are requested. Furthermore, I understand that KCD must receive a copy of any applicable permit to process my cost-share reimbursement. \_\_\_\_\_ (Initial Here)

I agree to work cooperatively with KCD to ensure the funded BMP is maintained consistent with the design life identified in the attached Job Sheet and in Section 6 of this application. \_\_\_\_\_ (Initial Here)

I agree to indemnify, defend, and hold harmless KCD, its elected or appointed officials, employees and agents, from all claims, alleged liability, damages, losses to or death of person or damage to property allegedly resulting from the negligent or intentional acts of the applicant or any of its employees, agents, contractors or subcontractors in connection with this Agreement. \_\_\_\_\_ (Initial Here)

I represent that the information provided in Section 3 of this application is a full disclosure of all other natural resource financial cost-share relationships in which I have or am participating. Furthermore, I agree to disclose if I am applying for or receive funding (cost-share or grants) for the BMP described in this application through other agencies or programs and to provide KCD with written documentation detailing this funding support. This may include copies of reimbursement checks or letters showing value of provided contribution. I understand that I must provide proof of reimbursement for alternate funding prior to receiving reimbursement through the KCD LIP. I acknowledge that KCD LIP funds cannot be used in combination with other funding sources to exceed 100% of project costs. I agree to allow communication between KCD and any other agency regarding the details of the project as well as funding details. \_\_\_\_\_ (Initial Here)

I understand that LIP cost-share reimbursement is contingent upon installing the BMP to the minimum standard provided by KCD, and that KCD will verify standard compliance. Furthermore, I understand that changes to the installation details (attached *Job Sheet and Map*) must be approved through a *Scope of Work Revision Process*. Unapproved changes will not be eligible for reimbursement. \*\*language under review for final edits by KCD Legal- finalized version will be updated at next BOS meeting\*\*12/06/21 LR  
\_\_\_\_\_ (Initial Here)



I understand that there may be federal tax liability associated with a LIP cost-share reimbursement, and that KCD will issue a 1099-G for reimbursements made through the LIP. Furthermore, I understand that KCD cannot provide advice with respect to the tax liability associated with LIP cost-share reimbursements and that I have been advised to consult with my own tax professional.

\_\_\_\_\_ (Initial Here)

I understand that I am applying for public funding and am responsible for notifying a buyer upon sale or loss of the property of the installed BMP. If I sell or lose control of the property covered by this Agreement and the new owner or transferee does not assume responsibility for maintaining the installed BMP as required by this Agreement, I may be required to refund all or a portion of the cost-share received through this Agreement. In the event of litigation arising from or related to this Agreement, attorney's fees and costs incurred by the prevailing party shall be paid by the non-prevailing party. \_\_\_\_\_ (Initial Here)

I give permission to KCD to photograph my property to document the site conditions and/or the implementation and maintenance of the funded practice. In the event that I or any of my family members or dependents choose to be photographed in a setting that reflects the assistance provided by KCD, I give KCD permission to publish such photographs in KCD promotional literature, advertising, social media, and other public displays. The photographs will be the property of KCD and may be used by KCD at any time, in the manner described above, without my additional consent. \_\_\_\_\_ (Initial Here)

I understand that this Agreement is subject to disclosure under the Public Records Act, Chapter 42.56 RCW. \_\_\_\_\_ (Initial Here)

I understand that I will no longer be eligible for KCD cost-share funds if one or more of the following occurs: \_\_\_\_\_ (Initial Here)

- a. The KCD funded BMP fails within its design life due to circumstances within my control (e.g., neglect, failure to maintain the BMP, destruction of the BMP before expiration of the design life, or other actions which cause the KCD funded BMP to become non-viable). *Note: Landowners are not responsible for BMP failure caused by circumstances beyond their control (e.g. fire, flood, storm damage, etc.).*
- b. I relinquish or lose ownership of equipment purchased with KCD cost-share.
- c. The KCD funded BMP is not being used for the intended purpose (e.g. cross fencing purchased with KCD funding, but no animals on property).
- d. I cancel 2 cost-share contracts awarded through the KCD Landowner Incentive Program.
- e. I deny KCD staff access to my property to verify BMP installation and maintenance.

I understand KCD will provide a sign free of charge after completion of a project, and I agree that: \_\_\_\_\_ (Initial Here)

- a. I will select a visible location on my property for display of the sign and will install it.
- b. I will maintain the sign and keep it free of visual barriers for at least five years after installation.
- c. I am not responsible for damage to the sign that is beyond my control (e.g. auto accident, storm damage, vandalism, etc.)

Signature of applicant

Date

Signature of Landowner (if applicant if Lessee)

Date

FOR KCD OFFICE USE

Approved for Award (KCD LIP Coordinator)

Date

Approved for Funding (KCD Management)

Date

LIP ID:





# Landowner Incentive Program

## Applicant Budget

Cooperator: Gary Remlinger

Budget Items	Units	Cost
Stream Crossing (materials)	18.37	\$104,000.00
Stream Crossing (materials)	18.37	\$112,000.00
Installation of culverts (labor and additional supplies)	36.74	\$120,000.00
Machinery Rental (not personally owned equipment)	0.00	\$0.00
	<b>Subtotal</b>	<b>\$336,000.00</b>

In-Kind Labor/Machinery	# hours	Cost
Manual labor		\$ -
Person with power equipment (i.e. chainsaw)		\$ -
Small Tractor (up to 40 hp)		\$ -
Medium Tractor (40-70 hp)		\$ -
Large Tractor (71 or above hp)		\$ -
Excavator (up to 100 hp)		\$ -
Excavator (over 100 hp)		\$ -
D-4 Cat or equivalent		\$ -
D-6 Cat or equivalent		\$ -
D-7 Cat or equivalent		\$ -
Backhoe		\$ -
Truck (under 2 tons)		\$ -
Truck (2 tons or over)		\$ -
Bobcat		\$ -
4-wheeler or side-by-side		\$ -
<b>Subtotal</b>	<b>0.00</b>	<b>\$ -</b>

Project Totals		
<b>Total Cost</b> (Budget Items + In Kind Labor/Machinery)		<b>\$ 336,000.00</b>
Units	Project	36.36
Cost/Unit		\$ 9,240.00

Conservation Practice	select BMP (x)	Cost Share Am
Animal Trails & Walkways		
Aquatic Area Buffer		
Aquatic Area Buffer (WCC)		
Buffer Fencing		
Building Relocation for Aquatic Area/Buffer		
Bulkhead Removal (Freshwater, Marine)		
Cover Crops		
Cross Fencing		
Forest Health Management		
Heavy Use Area Protection		
Pasture & Hay Planting		
Roof Runoff Management		
Stream Crossing	x	\$ 40,000.00
Subsurface Drain		
Upland Wildlife Habitat Management		
Waste Storage Facility		
Watering Facility		

**Amount eligible for reimbursement**  
(based on 2015 rates)

**\$30,000.00**



BMPs	Units	cost/unit	%	reimbursement rate	
Animal Trails & Walkways	sq ft	\$ 0.75	0.5	\$ 0.38	Ac.
Aquatic Area Buffer	project	\$ 30,000.00	0.9	\$ 27,000.00	AUE
Buffer Fencing	ft	\$ 12.00	0.75	\$ 9.00	Ft.
Building Relocation for Aquatic Area/Buffer	project	\$ 50,000.00	0.5	\$ 25,000.00	Sq. Ft.
Bulkhead Removal (Freshwater, Marine)	project	\$ 40,000.00	0.75	\$ 30,000.00	Project
Cover Crops	acre	\$ 150.00	0.9	\$ 135.00	acre
Cross Fencing	ft	\$ 6.00	0.5	\$ 3.00	
Forest Health Management	project	\$ 30,000.00	0.75	\$ 22,500.00	
Heavy Use Area Protection	AUE	\$ 1,400.00	0.5	\$ 700.00	
Pasture & Hay Planting	acre	\$ 325.00	0.5	\$ 162.50	
Roof Runoff Management	ft	\$ 7.00	0.5	\$ 3.50	
Stream Crossing	ft	\$ 1,100.00	0.75	\$ 825.00	
Subsurface Drain	ft	\$ 20.00	0.5	\$ 10.00	
Upland Wildlife Habitat Management	project	\$ 20,000.00	0.75	\$ 15,000.00	
Waste Storage Facility	AUE	\$ 1,000.00	0.75	\$ 750.00	
Watering Facility	project	\$ 50,000.00	0.5	\$ 25,000.00	





# JOB SHEET

## Stream Crossing

Landowner: Gary Remlinger	Lifetime of Practice: 10 years
---------------------------	--------------------------------

**\*This Jobsheet must be attached to your completed application**

Purpose (check all that apply)	
<input checked="" type="checkbox"/> Reduce streambank and streambed erosion	<input checked="" type="checkbox"/> Provide crossing for access to another land unit
<input checked="" type="checkbox"/> Improve water quality by reducing sediment, nutrient, organic, and inorganic loading of the stream	<input checked="" type="checkbox"/> Remove a fish passage barrier in combination with installing fish passable crossing structure.

**Summarize the Project Proposal.** *Provide the following: 1) describe project activities, including permitting, site prep, installation, and maintenance and monitoring; 2) describe the anticipated project outcome (e.g., fish and wildlife benefits, other environmental benefits); and 3) outline the project implementation time line.*

This proposed project is part of a larger project to remove and replace the five farthest downstream barriers to fish passage (referred to as Culverts #1, 2, 3, 4 and a barrier log weir) on Langlois Creek, a tributary to the Snoqualmie River, just outside of Carnation, WA, between RM 1 and 2. Also included in the larger project are plans to extend the newly planted riparian forest buffer on both banks to 50 ft with the addition of mostly conifers and some deciduous trees. In addition to the buffer plantings, habitat in the immediate vicinity of each culvert will be enhanced and restored with native trees and shrubs. Another habitat restoration element included in this larger project are instream large wood structures in the vicinity of each culvert replacement, which will be anchored into the banks, to provide channel/habitat complexity and cover for fish

This proposal for LIP funding includes replacing the failing and undersized Culvert #3 and the undersized and perched Culvert #4 upstream on Remlinger Farms property with pre-cast, concrete box culverts designed using the WDFW stream simulation approach. Final designs have been complete and submitted along with permit applications to Federal, state, and local planning offices. Comments have been received from Federal and state agencies and the Tribes but permit approvals are pending response from King County permitting. Permit approvals are anticipated prior to the summer 2022 in-water work window. The project will be put out to bid early in 2022. Site preparation activities include clearing and grubbing within the limits of excavation/grading, installation of high visibility fencing, silt fences, wattles, erosion control measures, a temporary stream diversion to isolate the work area with fish exclusion nets, fish relocation efforts, and de-watering to the surrounding upland prior to structure removal and excavation.

The existing two culverts will be removed, and backhoes or excavators with smooth edge buckets will be used to dig open cut excavations to prepare the area for installation of the new pre-cast concrete box culverts at both sites. The culvert subgrades will be prepared, and each culvert installed. Once installed native streambed sediment material will be placed throughout the length of each culvert. Instream large wood will be placed upstream and downstream of the new culverts and will be anchored to prevent movement. Following completion of construction any disturbed areas will be restored and native plants and trees will be installed around the vicinity of the culverts to enhance the area.



Maintenance of the two culverts will be on a “as needed” basis and monitoring will occur for the first 5-years following construction and is outlined in the Culvert Monitoring Plan (attached). Maintenance requirements are anticipated to be minimal because the culverts are designed to be largely hydraulically self-maintaining but may require maintenance if problems are identified during monitoring. The culverts will also be inspected after any large flood events for debris loading.

The anticipated outcomes of the overall project are improved floodplain conditions and restored access to essential habitat for anadromous species of fish while increasing agricultural production by improving drainage. These barriers not only block access to lower velocity waters that could provide juvenile salmon with some refuge during high flow events on the Snoqualmie River, but they also block essential spawning grounds for adult fish. Access to these essential rearing and spawning grounds will be restored by correcting these barriers. Instream habitat will be improved with instream large wood structures that will provide channel complexity, creating pool and riffle areas, while also providing cover from predators and refuge from faster moving flows. Native trees and shrubs planted in the riparian area will provide shading of the stream over time, which in turn will help regulate stream temperatures, and also provide habitat for birds and other wildlife. Not only will this project benefits aquatic and terrestrial organisms, it will also benefit surrounding landowners during flood events by providing increased flood conveyance.

This proposed project is anticipated to be constructed during summer of 2022 between July 1<sup>st</sup> and September 30<sup>th</sup> (within the fish window). The anticipated timeline is as follows: Permit approvals Dec 2021/Jan 2022; Begin ordering materials Dec 2021 – ongoing; Put the project out to bid Jan 2022; Hire contractor Jan/Feb 2022; Site Prep July 2022; Construction July – Sept 2022; Maintenance and monitoring 2022-2027.



**Describe Project Area. Provide the following: 1) extent of project area above and below ordinary high water mark; 2) dimensions of site; and 3) briefly describe the existing vegetation and habitat conditions.**

The project area is located on Remlinger Farms, outside of Carnation, WA at two separate crossings (Culvert #3 and 4) on private gravel farm access roads and Langlois Creek.

The project area for Culvert #3 includes the culvert, the crossing, Langlois Creek, the stream buffer on the right and left banks, the private farm access road, and a small portion of Wetland B. The dimension of project area/the limit of work are approximately 120 ft by 100 ft and approximately 12,000 sq ft, but the excavation limits are much smaller (see Final Engineering Designs). The project area below OHWM is approximately 3,000 sq ft. The project area above OHWM is approximately 9,000 sq ft. Impacts to the aquatic environment will be minimized and any work below the OHWM of Langlois Creek will be performed during the in-water work period on the approved permit.

The existing riparian habitat in the reach of Culvert #3 consists of three rows of immature, native buffer that was planted as part of a 2018 ADAP project. The plants are doing well, but still are too small to provide much shading of the channel at this stage. There are some larger, mature conifers set back on the right bank providing shade. The existing instream channel conditions include slow moving water, backwatering on the upstream side of the culvert. The streambed is largely composed of sand and fine silt in this reach.

The project area for Culvert #4 includes the culvert, the crossing, Langlois Creek, the stream buffer on the right and left banks, and the private farm access road. The dimension of project area/the limit of work are approximately 180 ft by 120 ft (in the widest areas) and approximately 21,600 sq ft, but the excavation limits are much smaller (see Final Engineering Designs). The project area below OHWM is approximately 4,800 sq ft. The project area above OHWM is approximately 16,800 sq ft. Impacts to the aquatic environment will be minimized and any work below the OHWM of Langlois Creek will be performed during the in-water work period on the approved permit.

The existing riparian habitat in the reach of Culvert #4 consists of mature conifers and deciduous trees as well as native shrubs like snowberry and salmonberry, and herbaceous plants like sword fern. The riparian buffer here is more naturalized and provides shading of the channel. The existing instream channel conditions include sections of riffle downstream of the culvert and pooling and channel braiding upstream of the culvert. There is some instream wood upstream of the culvert. The streambed is mainly composed of gravel, cobble, and sand in this reach.

**Name and type (S, F or N, wetland I, II, or III) of waterway to be crossed.**

Langlois Creek is listed as an "F" type stream by the WA Department of Natural Resources and the adjacent "Wetland B" is a Category II palustrine emergent persistent, seasonally flooded wetland delineated by the SVWID. Wetland B is located adjacent to Culvert #3.



**Land Uses and Associated Impacts.** *Provide the following: 1) describe how the property is used (e.g., residential, commercial, recreational); 2) describe adjacent properties, including land uses and any potential adverse impacts to adjacent properties associated with the proposed project.*

The property is zoned residential and is used for agriculture to produce fruit, berries, and pumpkins. They also have livestock, horses, and other animals on site. Both Culvert #3 and 4 are located on the same parcel, consisting mainly of open fields used for grazing. The parcel to the west is zoned residential and is a paved road with overhead utilities lining the west side of the road. This property is owned by Puget Sound Energy (PSE) and is used as a through-way for farm workers. The parcel to the east is zoned commercial owned by the Girl Scouts of America and is used as a Girl Scout Camp. The proposed project may have some temporary impacts to a small area of the Girl Scouts parcel since it is just upstream of Culvert #4. The limits of excavation and grading extend into the Girl Scouts parcel, and there may be some disturbed vegetation that will be replaced upon project completion. The proposed project at Culvert #3 may, but is unlikely to have, temporary adverse impacts to the PSE property, which is further downstream. Adverse impacts could include increased turbidity during construction, which will be monitored. Once the project is complete it will benefit downstream landowners by improving flow and capacity of the creek.

**List the intended use (people, livestock, equipment, or vehicles). Also include the stream crossing dimensions and project materials. Please attach an engineer approved design.**

Once both crossings are replaced, they will be used by people, vehicles, equipment, and livestock to access the adjacent farm fields used for grazing. The new pre-cast concrete box Culvert #3 will be 14 ft long by 8 ft wide, with an 18 ft span, and a slope of 1.2%. The new Culvert #4 will be 18 ft long by 10 ft wide, with an 18 ft span, and a slope of 1.7%. Both concrete box culverts will have native streambed material throughout their lengths. The culvert materials we are seeking funding for are the pre-cast concrete box culverts themselves. Other materials needed to complete the project are funded by other sources and include a guardrail, quarry spalls, crushed surfacing, streambed sediment, streambed cobbles, etc.

**Grading and Demolition Activities.** *Describe the plan to remove structures (failing culvert, etc.) and grade project areas, including specific construction methods and equipment to be used.*

Prior to construction, clearing and grubbing will occur within the limits of excavation/grading. High visibility fencing, silt fences, wattles, standardized construction entrance, and erosion control blankets on slopes will be installed per WSDOT standard plans. Any work below the OHWM of Langlois Creek will be performed during the in-water work period on the approved permit. A temporary stream diversion plan will be submitted and approved by the engineer. The work areas will be isolated with fish exclusion nets upstream of the diversion structure and will be de-fished using best management practices for fish relocation. Each work area will then be dewatered to upland locations to prevent turbid water from entering the creek or Wetland B (at Culvert #3). Backhoes or excavators with smooth edge buckets will be used to remove existing structures and dig open cut excavations due to the soil conditions on site.

The grading extent for both culverts is primarily localized to the replacement site, minimizing instream work to limit stream impacts. Following the installation of the proposed culverts, road crossings will be restored to their pre-project size and condition with additional safety barriers (guardrails) placed on either side of the crossings. There are no utilities in the vicinity of Culvert #3. PSE utilities (electrical transformer and buried power lines) are located in the vicinity of Culvert #4 but will be either protected in place during construction or restored if impacted. Some channel profile grading upstream and downstream of each culvert site will be performed, but for the most part, the channel bed will be allowed to adjust naturally. Just downstream of Culvert #4, the log weir barrier will be removed and the channel regrading to match the natural stream grade. The extent of in-water work will be minimized and removal of native streambed materials from the system will be avoided.



**Habitat Restoration Activities.** *Provide the following that apply: 1) describe site preparation activities (e.g. weed control, substrate to be applied, soil amendment to used); 2) identify the type and source of plant materials (e.g. potted, bareroot, ball and burlap and native plant nurseries providing plant material; 3) describe the care and temporary storage of plant materials; 4) describe installation plan (e.g. planting plan, installation techniques, sheet mulching, etc.); 5) describe maintenance and monitoring plan (e.g. number of years to be conducted, survival data collection, etc.).*

Habitat restoration activities include removal of the fish passage barriers and replacement with 100% fish passable crossings. The proposed instream large wood structures are intended to increase local habitat complexity and reduce the energy through the project reach. Structures will be placed to maximize opportunities for the formation of eddies and pools that provide off-channel habitat and resting areas for upstream salmonid migration. The installation of habitat logs is designed to be permanent, using streambed boulders secured to logs to provide additional ballast and prevent displacement during flood flows. Instream large wood structures placed more aggressively in the channel are designed to handle additional accumulation of additional native debris, helping emulate natural wood transport and accumulation processes typical of a healthy stream. Final Engineering designs include specifications for the instream large wood structures, but they will be field fit, and Tulalip Tribes; Derek Marks has been invited to assist with final placement decisions during construction. Instream large wood structures will be monitored along with the culvert monitoring following completion of construction and installation of the instream large wood.

**Permits.** *Provide the following: 1) a list of all permits necessary for approval of project; 2) copies of all permits secured to date.*

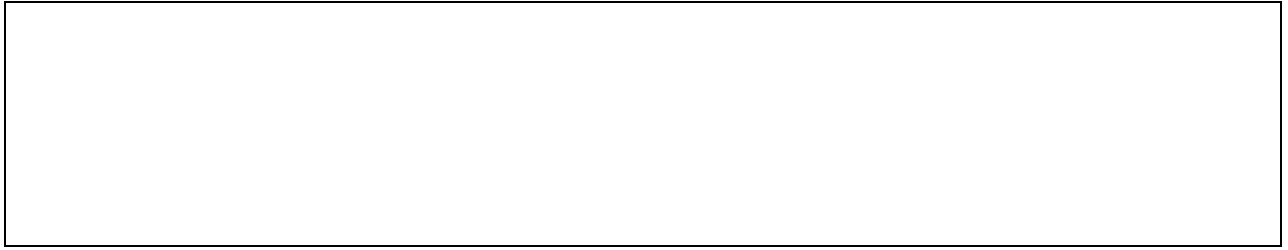
1. State Permits: Hydraulic Project Approval (HPA) – This project qualifies as a Fish Habitat Enhancement Project (FHEP) and was applied for using the FHEP form. (Submitted, comments received, pending approval)
2. Corps Permits: Section 404 – This project was submitted to the Corps and is being reviewed under the Nationwide Permit (NWP) 14 for Culvert Replacement. (Submitted, comments received, pending approval)
3. King County Permits: Floodplain Development Permit, & Shoreline Exemption (Submitted, awaiting a response.)

**Operation and Maintenance.** *According to the following Washington State laws, WAC 220-110-070 and RCW 77.55.060, the owner of a road culvert, or ford that is a fish passage facility is responsible for maintaining its fish passage functions as well as maintenance of the structure. For example, the stream crossing, appurtenances, and associated fence should be inspected after each major storm event, with repairs made as needed.*

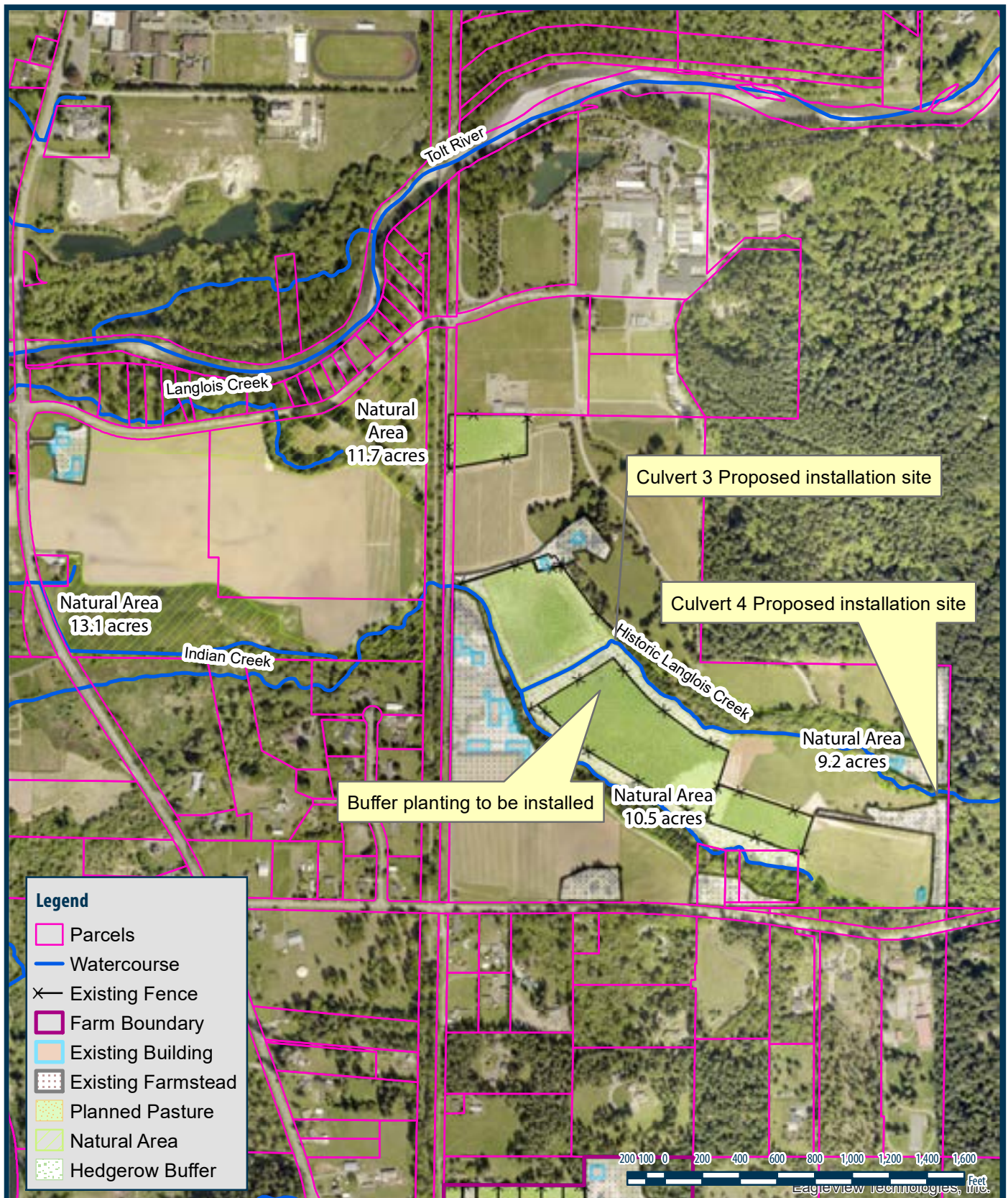
A monitoring plan was prepared by the SVWID to satisfy the Seattle District 2017 NWP Regional Condition 6: Crossings of Waters of the United States requirement. While a monitoring plan is in place, the culverts are designed to be largely hydraulically self-maintaining. Sediment is anticipated to be transported through the culverts without excessive deposition or erosion. The monitoring plan includes monitoring the culverts annually for five years following construction to ensure that they are performing as designed. If during monitoring the culverts are found to not meet the performance standards, adaptive management actions will be taken to correct them. Annual inspections are recommended during and beyond the 5-year monitoring period. Additional special inspections should be performed after large storm events. See the attached “Culvert Monitoring Plan – Langlois Creek Culvert Replacement Project”, prepared by the SVWID, for detail on the performance standards and monitoring tasks.

**Additional Specifications and Notes:**









Landowner Name: <b>Remlinger Home Farm</b>		Map Type: <b>LIP Map- Culvert Install Proposal</b>	Directional: <b>SW</b>
Address: <b>32418 NE 24th St</b>		KCD Staff Name: <b>Liz Stockton</b>	Section: <b>21/22</b>
<b>Carnation, wa 98014</b>		Map Date: <b>November 09, 2021</b>	Township: <b>25</b>
Acres: <b>183</b>	Parcel #(s): <b>Multiple</b>		Range: <b>07</b>

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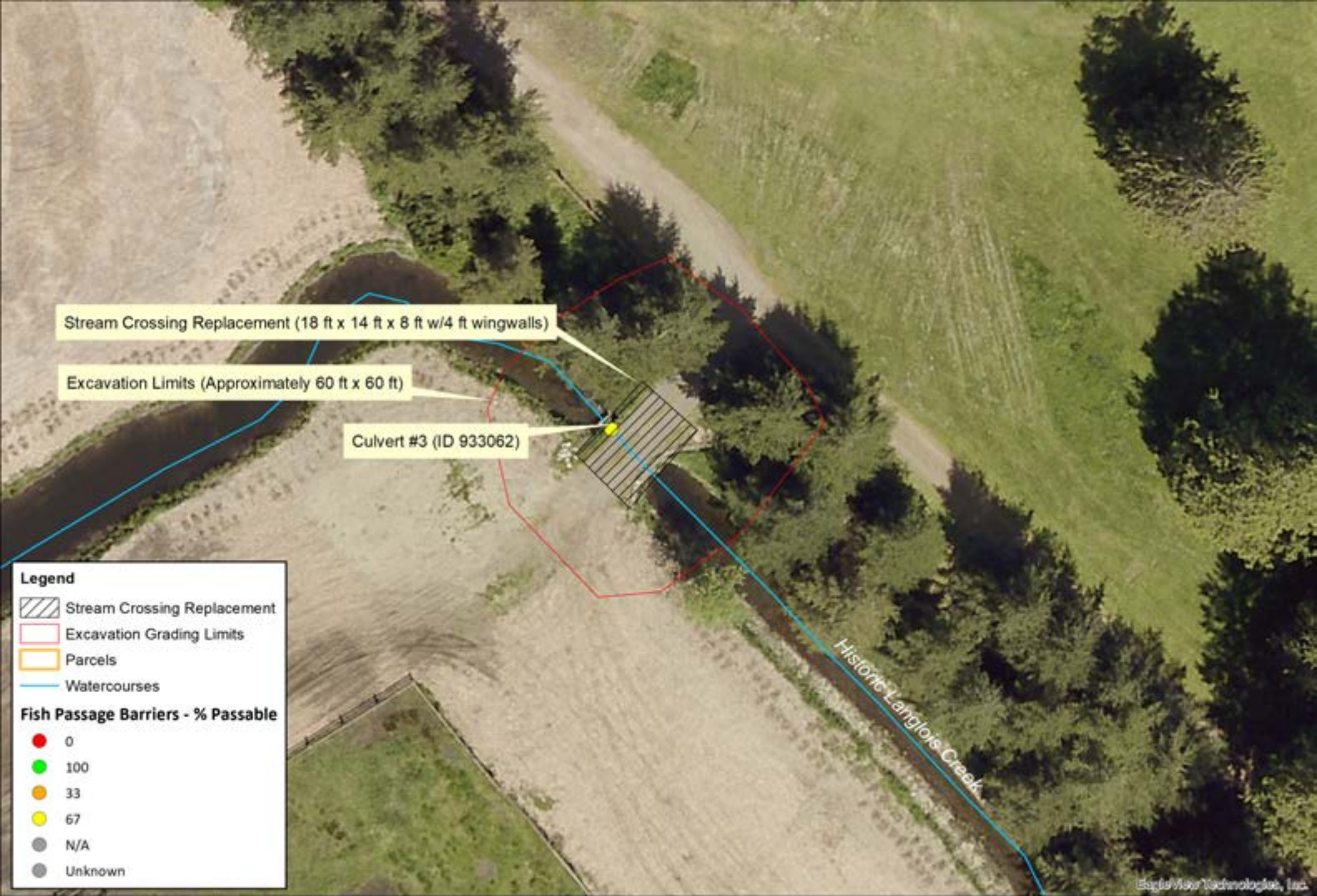
DISCLAIMER: While every precaution was taken in preparing this map, the publisher disclaims any warranty of fitness or accuracy of the data. The map is approximate in nature, based on compilation of data from multiple sources, and should not be relied upon or referenced in legal documents, including property deeds, title reports, and contract documents, nor substituted for appropriate survey and/or engineering analysis. The user of the map acknowledges its limitations, assumes all responsibility for its use, and agrees to hold the publisher harmless for any damages that may result from the use of this map. This map is subject to change without notice.

Document Path: \\KING-FS1\gis-data\GIS\_Data\KCD\_GIS\_Data\Farm\MXDs\Projects\Farm\_Plan\_Maps\Remlinger\_6575\KCD\_FRM\_Remlinger\_6575\_LIP\_SC.mxd



**1:8,838**





Property Owner: Gary Remlinger  
Address: 32418 NE 24th St. Carnation, WA 98014  
KCD Planner: Liz Stockton

Date: November 4, 2021





**USDA Natural Resources Conservation Service  
Washington State  
PAYMENT ESTIMATE WORKSHEET FY21**

Program: **EQIP**  
DATE:   
PROJECT OR APPLICANT NAME: **Remlinger Farms**  
COUNTY: **King**  
APPLICATION (CONTRACT) NO:   
CONTRACT LAND USES:

Practice Code	Program	Practice Name	Practice Component	Units	Payment/Unit	Units Planned (amount)	Year	Max Incentive Dollars	Notes
Culvert 933062								\$ -	
396	EQIP	Aquatic Organism Passage	PR-Concrete Box Culvert	Ft	1582.07	38.0		\$ 60,118.66	Actual culvert length is 14', but has a headwall, contracted length is what would be needed with out a headwall. 10' from channel bed to road surface, assume 1.5:1 slope L=38'
Culvert 933064								\$ -	
396	EQIP	Aquatic Organism Passage	PR-Concrete Box Culvert	Ft	1582.07	48.0		\$ 75,939.36	Actual culvert length is 18', but has a headwall, contracted length is what would be needed with out a headwall. 8' from channel bed to road surface, assume 1.5:1 slope L=48'
326	EQIP	Clearing and Snagging	Instream Structure Removal	CuYd	15.28	9.3		\$ 141.48	if we c ontract removal of the wier, 5' widex2.5' deepx20' long
395	EQIP	Stream Habitat Improvement and Management	Anchored wood placement from on-site sources	No	6562.26	4.0		\$ 26,249.04	
								\$ -	
								\$ -	
490	EQIP	Tree/Shrub Site Preparation	Mechanical, Shredding, Light vegetation	Ac	532.7	2.5		\$ 1,331.75	
391	EQIP	Riparian Forest Buffer	PR-Bare-root, hand planted	Ac	1818.79	2.5		\$ 4,546.98	
315	EQIP	Herbaceous Weed Treatment	Chemical, Spot Treatment	Ac	157.63	2.5		\$ 394.08	post plant weed control- yr 1
315	EQIP	Herbaceous Weed Treatment	Chemical, Spot Treatment	Ac	157.63	2.5		\$ 394.08	post plant weed control - yr 2
								\$ -	
								\$ -	
								\$ -	
								\$ -	
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								\$ -	
								\$ -	
								\$ -	
				<b>Total.....</b>				<b>\$ 169,115.42</b>	



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# LANGLOIS CREEK CULVERT REPLACEMENTS

## REMLINGER FARMS CROSSINGS

### CULVERTS # 933062 AND # 933064

PARCEL #S: 2125079028 AND 2225079016  
ADDRESS: 32418 NE 24TH ST, CARNATION, WA 98014

#### SHEET INDEX

SHEET NO.	SHEET TITLE
RF-01	COVER SHEET
RF-02	EXISTING CONDITIONS, DEMOLITION, & ALIGNMENT
RF-03	TESC & STREAM DEWATERING PLAN
RF-04	LOG WEIR REMOVAL AND EXCAVATION DETAILS
RF-05	CULVERT GRADING PLANS, PROFILE, & SECTIONS
RF-06	LARGE WOOD PLAN
RF-07	ROAD IMPROVEMENT PLAN
RF-08	RESTORATION PLANTING PLAN, SCHEDULE, & DETAILS

#### LEGEND

	LIMIT OF WORK		ORDINARY HIGH WATER
	ACCESS ROUTE		LIMIT OF EXCAVATION/GRADING
	PROPERTY LINE		EXISTING TREE
	ROAD/TRAIL CENTERLINE		WATTLE
	OVERHEAD LINES		HIGH VISIBILITY FENCE
	EXISTING PAVEMENT		SILT FENCE
	PROPOSED PAVEMENT		CLEARING AND GRUBBING LIMIT
	EXISTING GRAVEL		FISH EXCLUSION NETTING
	PROPOSED GRAVEL		DIVERSION PIPE
	EXISTING CULVERT		STAGING AREA
	EXISTING MAJOR CONTOUR		TREE PROTECTION FENCING
	EXISTING MINOR CONTOUR		STREAM CENTERLINE
	PROPOSED MAJOR CONTOUR		EDGE OF VEGETATION
	PROPOSED MINOR CONTOUR		TREE REMOVAL
	PROPOSED STREAM ALIGNMENT		CONTROL POINT
	EDGE OF TRAIL		EXISTING WETLAND
	PROPOSED FENCING		EXISTING WATERLINE
	TREE DRIPLINE		EXISTING UNDERGROUND POWER LINE

#### GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE CONTINUOUS STREAM DIVERSION AND DEWATERING IN ACCORDANCE WITH THE PLANS, SPECS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL INSTALL A TEMPORARY STREAM DIVERSION SYSTEM BEFORE COMMENCING WORK BELOW THE ORDINARY HIGH WATER MARK OF LANGLOIS CREEK.
- ALL WORK BELOW THE ORDINARY HIGH WATER ELEVATION SHALL BE COMPLETED DURING THE IN-WATER WORK PERIOD SPECIFIED BY PERMIT CONDITIONS.
- THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND SHALL ADOPT THE PROVIDED TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESC) OR PREPARE AN ALTERNATIVE.
- ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE PROJECT AND TAKEN TO A PERMITTED FACILITY.
- IF AREAS OR FEATURES OUTSIDE DESIGNATED CONSTRUCTION ZONES SUSTAIN IMPACT FROM CONTRACTOR ACTIVITIES, CONTRACTOR SHALL RESTORE TO PRE-CONSTRUCTION CONDITION.
- HORIZONTAL SURVEY DATUM IS LOCAL. VERTICAL DATUM IS NAVD88. SURVEY PERFORMED BY HARMSSEN LLC ON 01/30/2020.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- THE CONCRETE BOX CULVERTS, WINGWALLS, AND HEADWALLS ARE TO BE CONTRACTOR DESIGNED, INCLUDING DRAINAGE. SEE THE SPECIAL PROVISIONS AND GEOTECHNICAL REPORT FOR SOIL PRESSURE, BEARING REQUIREMENTS, AND WING WALL DRAINAGE REQUIREMENTS. PER NRCS STRUCTURE REQUIREMENTS, ALL PROPOSED CULVERTS SHALL MEET HL 93 LOADING REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT TEMPORARY DEWATERING, SHORING, AND EXCAVATION PLANS FOR APPROVAL BY ENGINEER PRIOR TO GROUND DISTURBANCE.
- TO THE BEST OF ESA'S PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF, THESE PLANS MEET APPLICABLE NRCS STANDARD.

#### UTILITY NOTES

- BURIED UTILITIES ARE PRESENT ON THE SITE AND MAY NOT BE NOTED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING OR RESTORING ALL UTILITIES.
- ALL EXISTING UTILITY LOCATIONS AND DESCRIPTIONS SHOWN ON PLANS HAVE BEEN COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATION AND DEPTH OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION ZONE PRIOR TO BEGINNING CONSTRUCTION AND COORDINATION WITH UTILITY OWNERS TO PROTECT IN PLACE OR RESTORE UPON COMPLETION.
- CULVERT 933062: THE LANDOWNER REPORTS NO KNOW UTILITIES.
- CULVERT 933064: PUGET SOUND ENERGY ELECTRICAL TRANSFORMER AND BURIED POWER LINES. NO EXCAVATION WITH 3' OF TRANSFORMER. 1" OR 1.5" BURIED WATER LINE. COORDINATE ANY WATER SHUT OFFS WITH OWNER. LANDOWNER REPORTS NO GAS SERVICE TO PROPERTY.
- CONTRACTOR SHALL COORDINATE WITH THE LANDOWNER TO IDENTIFY FARMSTEAD UTILITIES ON SITE. THE LANDOWNER ASSUMES RESPONSIBILITY FOR THE IDENTIFICATION AND NOTIFICATION TO THE ENGINEER OF ALL FARMSTEAD OPERATION UTILITIES THAT ARE NOT THE TRADITIONAL SERVICE UTILITIES PROVIDED BY A THIRD PARTY. TYPICAL FARMSTEAD UTILITIES INCLUDE: WELLS, WATER CONVEYANCE PIPELINES, SEPTIC SYSTEMS, DRAIN TILE AND ALL OTHER UTILITIES INSTALLED BY THE FARM OPERATION.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, EASEMENTS, ACCESS, AND COORDINATION REQUIRED FOR TEMPORARY RELOCATION OF UTILITIES.

**KNOW WHAT'S BELOW.**  
CALL 2 BUSINESS DAYS  
BEFORE YOU DIG.  
(UTILITY LOCATIONS ARE APPROX.)

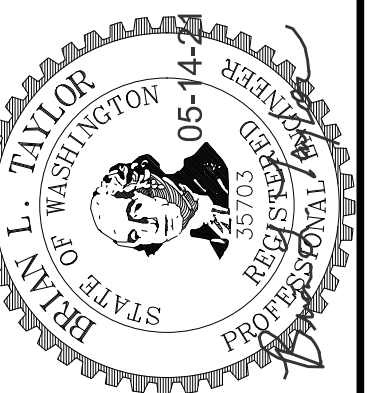
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05/13/2021					
05/13/2021					
05/13/2021					

LANGLOIS CREEK CULVERT REPLACEMENTS

REMLINGER FARMS CROSSINGS

COVER SHEET

SNOQUALMIE VALLEY  
Watershed Improvement District



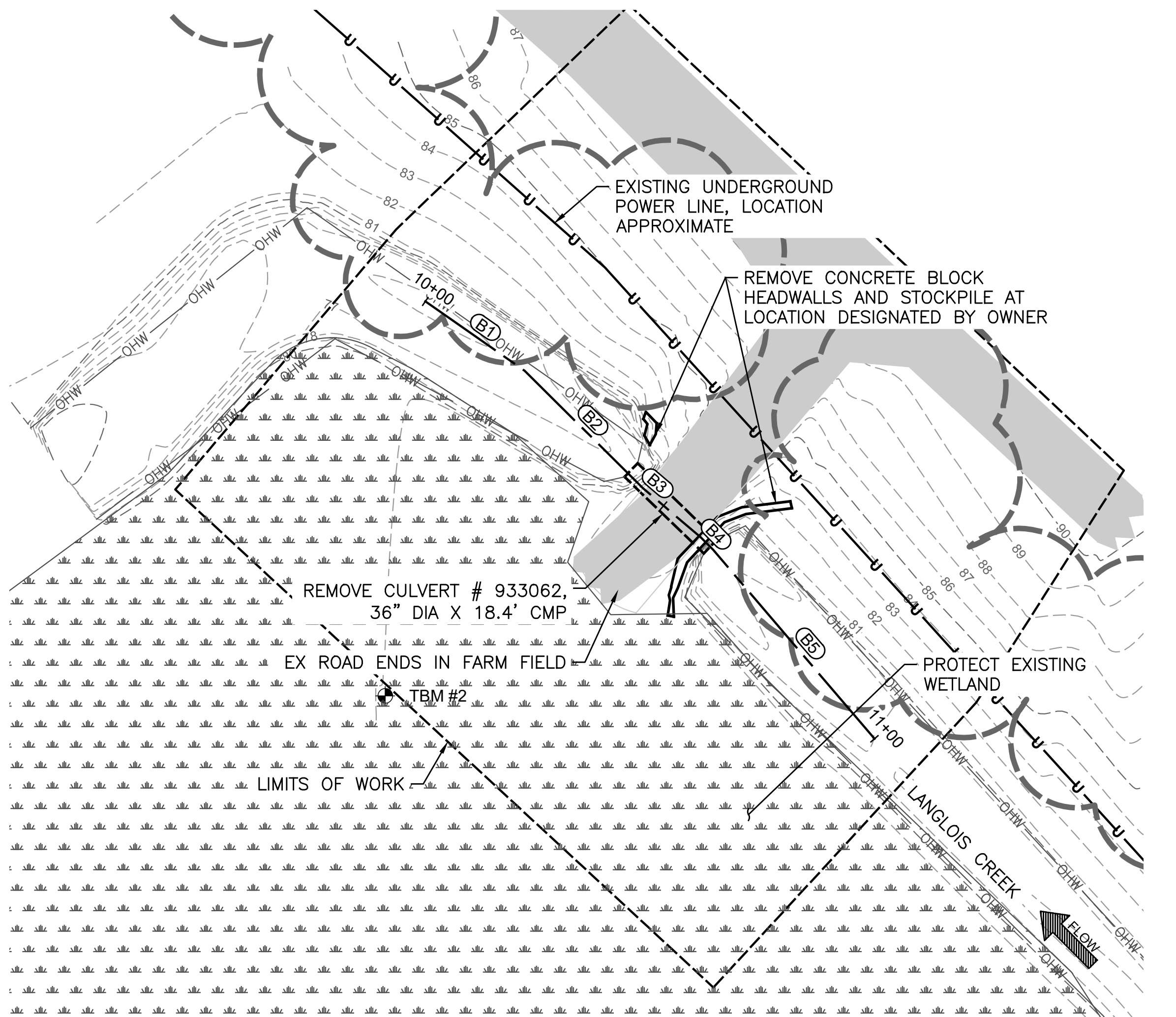
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Drawing Name
RF-01
Sheet 1 of 8



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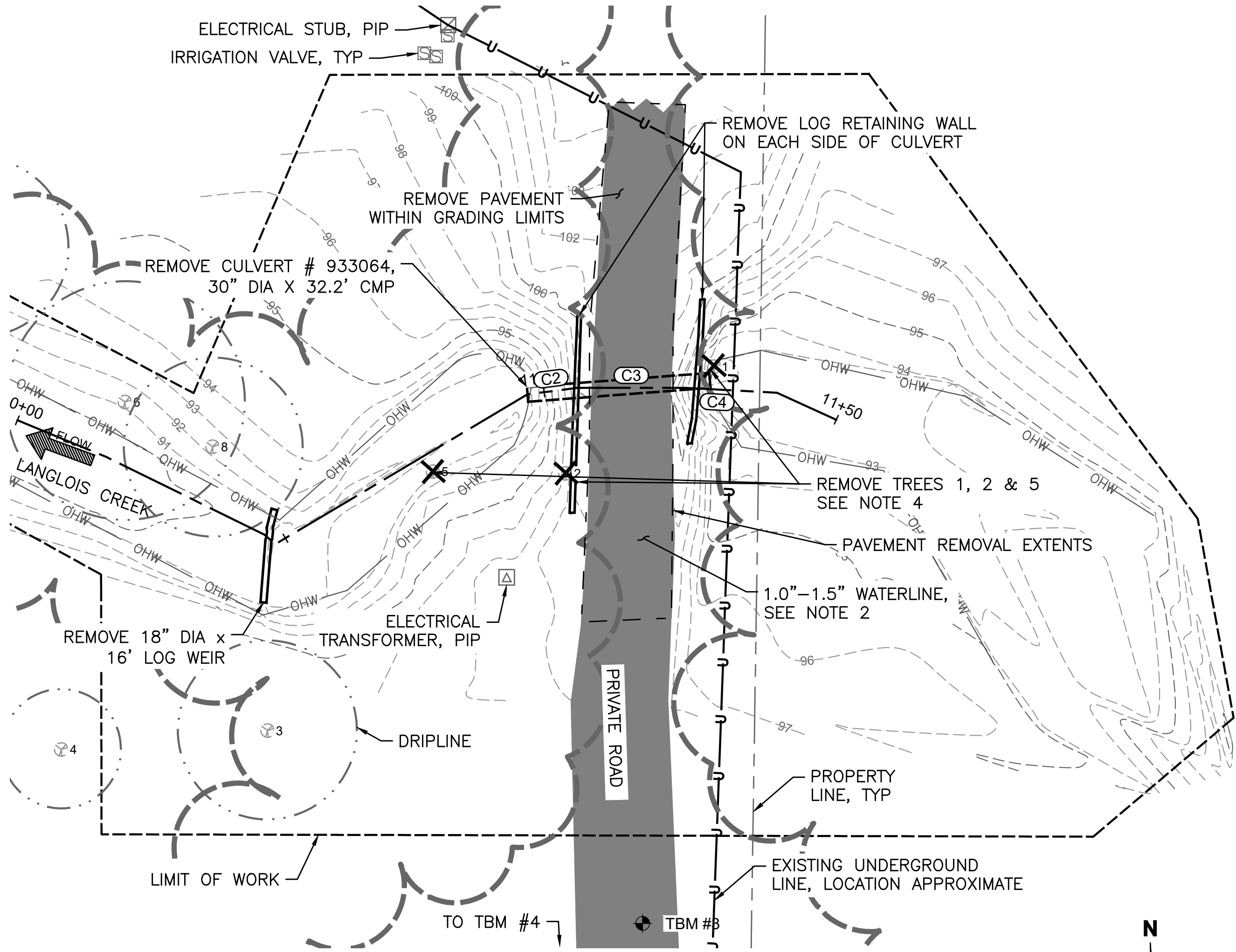
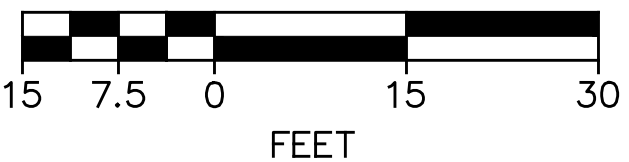
933062 ALIGNMENT CONTROL TABLE					
SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE
B1	10+00	1,704,727.7	561,086.3	S55° 05' 56"E	19.2
B2	10+19	1,704,743.4	561,075.4	S45° 14' 21"E	26.5
B3	10+46	1,704,762.2	561,056.7	S49° 38' 42"E	12.0
B4	10+58	1,704,771.4	561,048.9	S44° 40' 48"E	2.8
B5	10+61	1,704,773.3	561,046.9	S40° 30' 22"E	39.5

933064 ALIGNMENT CONTROL TABLE					
SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE
C2	10+97	1,706,465.5	560,290.4	N82° 38' 59"E	8.4
C3	11+06	1,706,473.8	560,291.5	N90° 00' 00"E	18.0
C4	11+24	1,706,491.8	560,291.5	S86° 59' 11"E	15.5



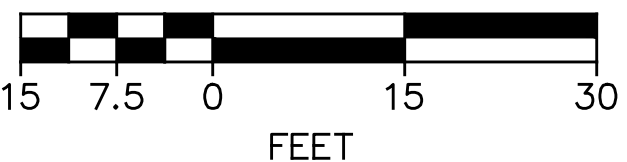
A CULVERT # 933062 EXISTING CONDITIONS  
PLAN

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B CULVERT # 933064 EXISTING CONDITIONS  
PLAN

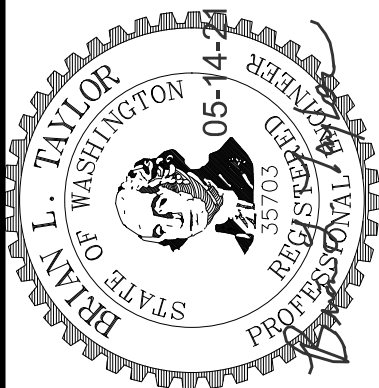
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#### NOTES

- SEE SHEET SVT-02 FOR SITE SURVEY CONTROL.
- A 1.0"-1.5" WATERLINE RUNS SOUTH-TO-NORTH OVER CULVERT 933064, UNDER THE PRIVATE ROAD. RESTORE AFTER CONSTRUCTION. OTHER UNMAPPED UTILITIES ARE PRESENT WITHIN THE EXCAVATION LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING RESTORING ALL UTILITIES, AND COORDINATING SHUTOFFS WITH OWNER.
- DUE TO HIGH WATER CONDITIONS AT THE TIME OF SURVEY, THE DEEPEST PORTION (THALWEG) OF THE STREAM CHANNEL MAY NOT BE CAPTURED IN SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION.
- ADDITIONAL TREE REMOVAL MAY BE REQUIRED. FLAG TREES TO BE REMOVED FOR APPROVAL BY THE ENGINEER.
- IMPACTS TO THE WETLAND RESTRICTED TO AREAS SHOWN.

LANGLOIS CREEK CULVERT REPLACEMENTS  
REMLINGER FARMS CROSSINGS  
EXISTING CONDITIONS, DEMOLITION, & ALIGNMENT



File Name

Drawing Name  
RF-02

Sheet 2 of 8

Date	Designed	Drawn	Checked	Approved
05/13/2021	BLT	AMF	HLW	HLW



ESC NOTES

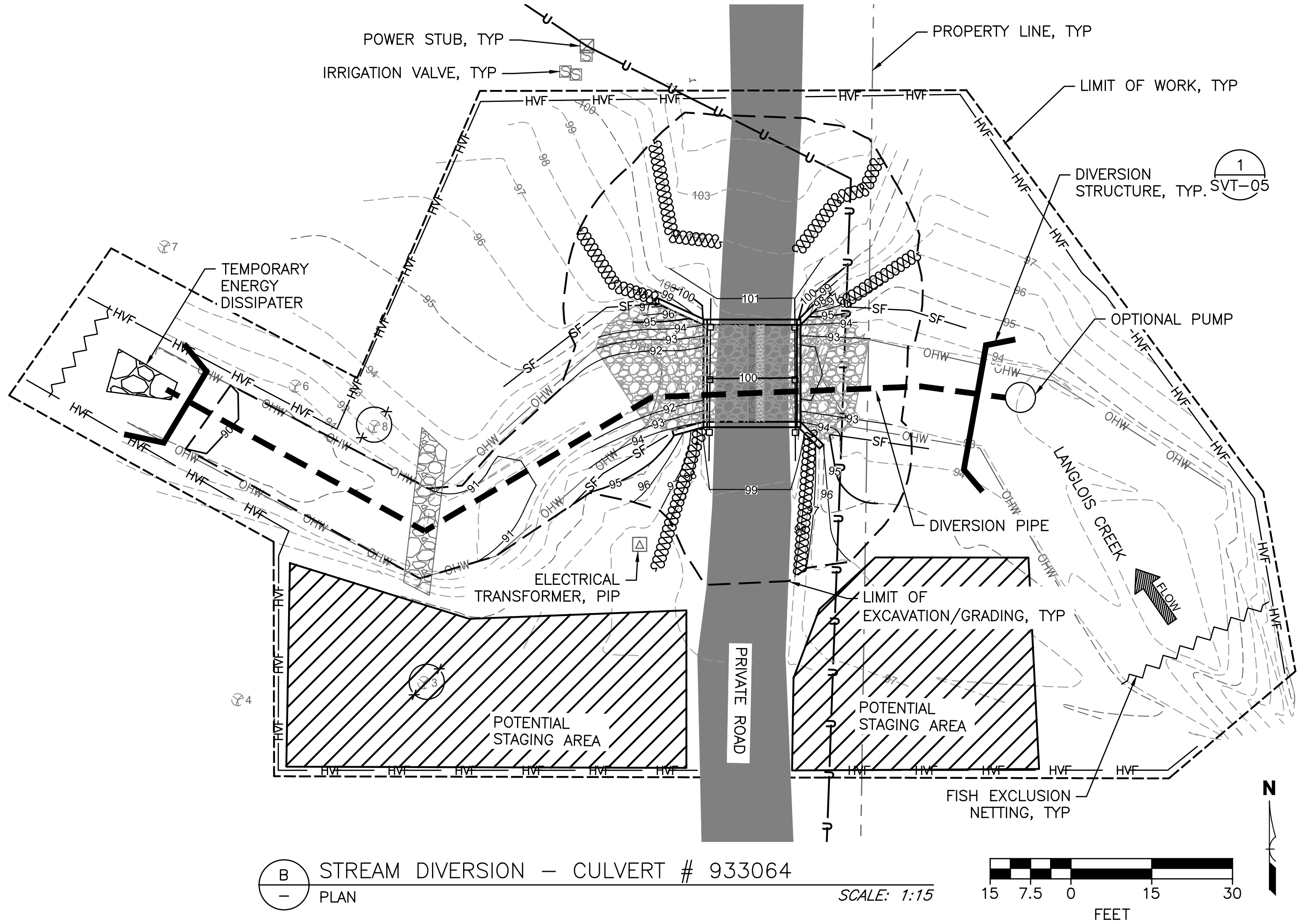
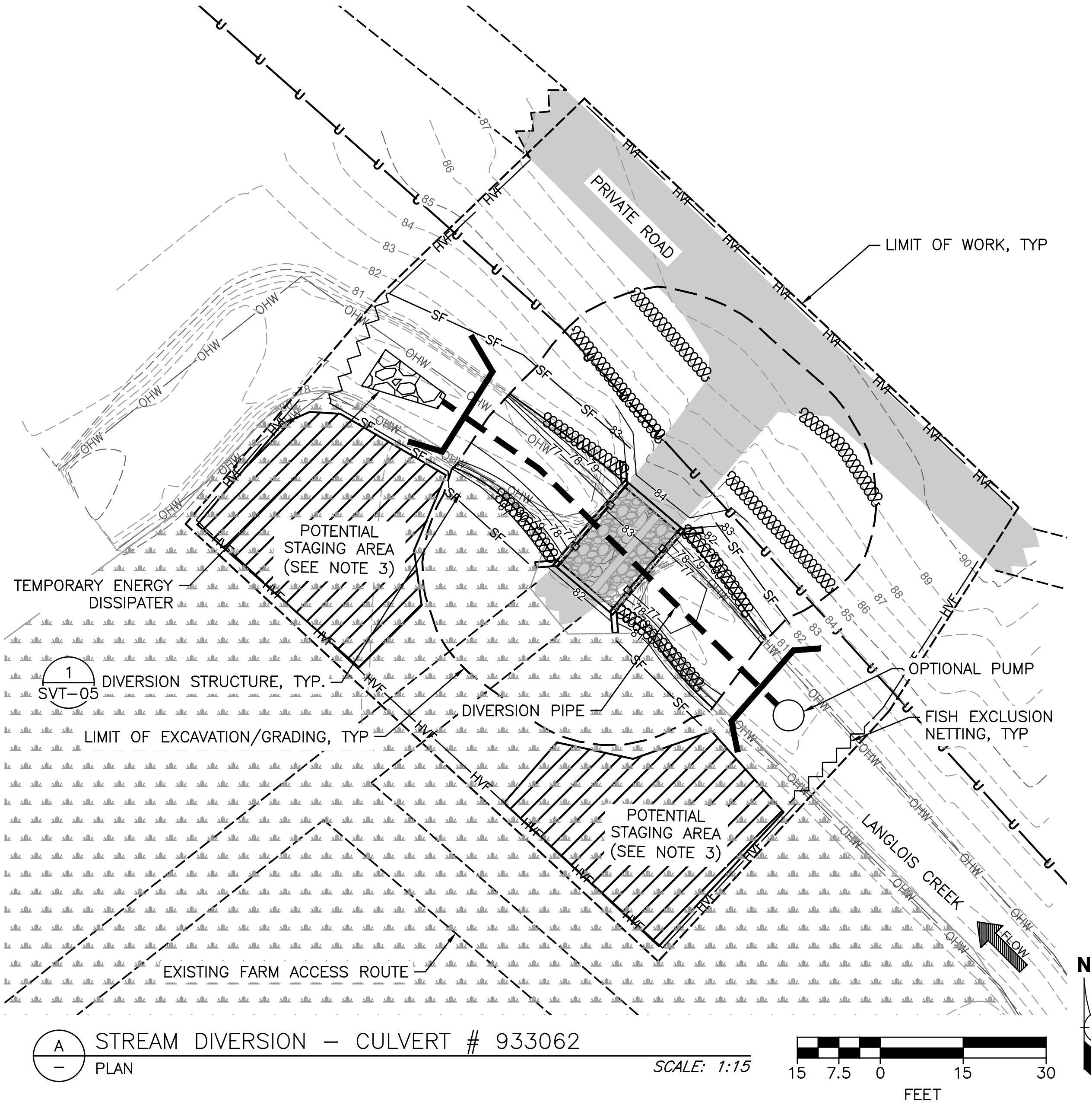
- 1. LIMITS OF CLEARING AND GRUBBING ARE COINCIDENT WITH THE LIMITS OF EXCAVATION/ GRADING.
- 2. INSTALL HIGH VISIBILITY FENCE PER WSDOT STANDARD PLAN I-10.10-01.
- 3. INSTALL SILT FENCE PER WSDOT STANDARD PLAN I-30.10-02.
- 4. INSTALL WATTLES PER WSDOT STANDARD PLAN I-30.30-02.
- 5. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10-02.
- 6. INSTALL EROSION CONTROL BLANKET ON SLOPES PER WSDOT STANDARD PLAN I-60.20-01.

STREAM DIVERSION NOTES

- 1. ALL WORK BELOW THE OHW ELEVATION OF LANGLOIS CREEK SHALL BE PERFORMED DURING THE IN-WATER WORK PERIOD SPECIFIED BY PERMIT.
- 2. THE LAYOUT DEPICTS A POTENTIAL APPROACH FOR TEMPORARY STREAM DIVERSION. FINAL TEMPORARY STREAM DIVERSION PLAN TO BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER/OWNER'S REPRESENTATIVE FOR CONCURRENCE.
- 3. DEFISH THE WORK AREA AND INSTALL FISH EXCLUSION NETS UPSTREAM OF DIVERSION STRUCTURES PER SPECIFICATIONS. ALLOW SUFFICIENT ROOM FOR PUMP INTAKES AND SCREENS.
- 4. DEWATER WORK AREA AND DISCHARGE WATER TO UPLAND DEWATERING LOCATIONS TO PREVENT TURBID WATER FROM ENTERING LANGLOIS CREEK OR SITE WETLANDS. THE FINAL DISCHARGE LOCATION SHALL BE SUBMITTED TO THE ENGINEER / OWNER'S REPRESENTATIVE FOR REVIEW AS PART OF THE TEMPORARY STREAM DIVERSION PLAN.
- 5. STREAM DIVERSION MAY BE GRAVITY FLOW OR PUMPED.

NOTES

- 1. STAGING AREAS TO BE SELECTED IN THE FIELD BY THE CONTRACTOR AND COORDINATED WITH THE LAND OWNER. NO STAGING WITHIN THE OHW OF LANGLOIS CREEK.
- 2. LIMITS OF GRADING/EXCAVATION MAY BE FIELD FIT AS NEEDED TO INSTALL THE CULVERTS.
- 3. IMPACTS TO THE WETLAND RESTRICTED TO AREAS SHOWN.



LANGLOIS CREEK CULVERT REPLACEMENTS

REMLINGER FARMS CROSSINGS

TESC & STREAM DEWATERING PLAN

FILE NAME

DRAWING NAME

SHEET 3 OF 8

DATE

05/13/2021

05/13/2021

05/13/2021

05/13/2021

DESIGNED

BLT

DRAWN

AMF

CHECKED

HLW

APPROVED

HLW

REGISTERED PROFESSIONAL ENGINEER

STATE OF WASHINGTON

35703

05-14

L. TAYLOR

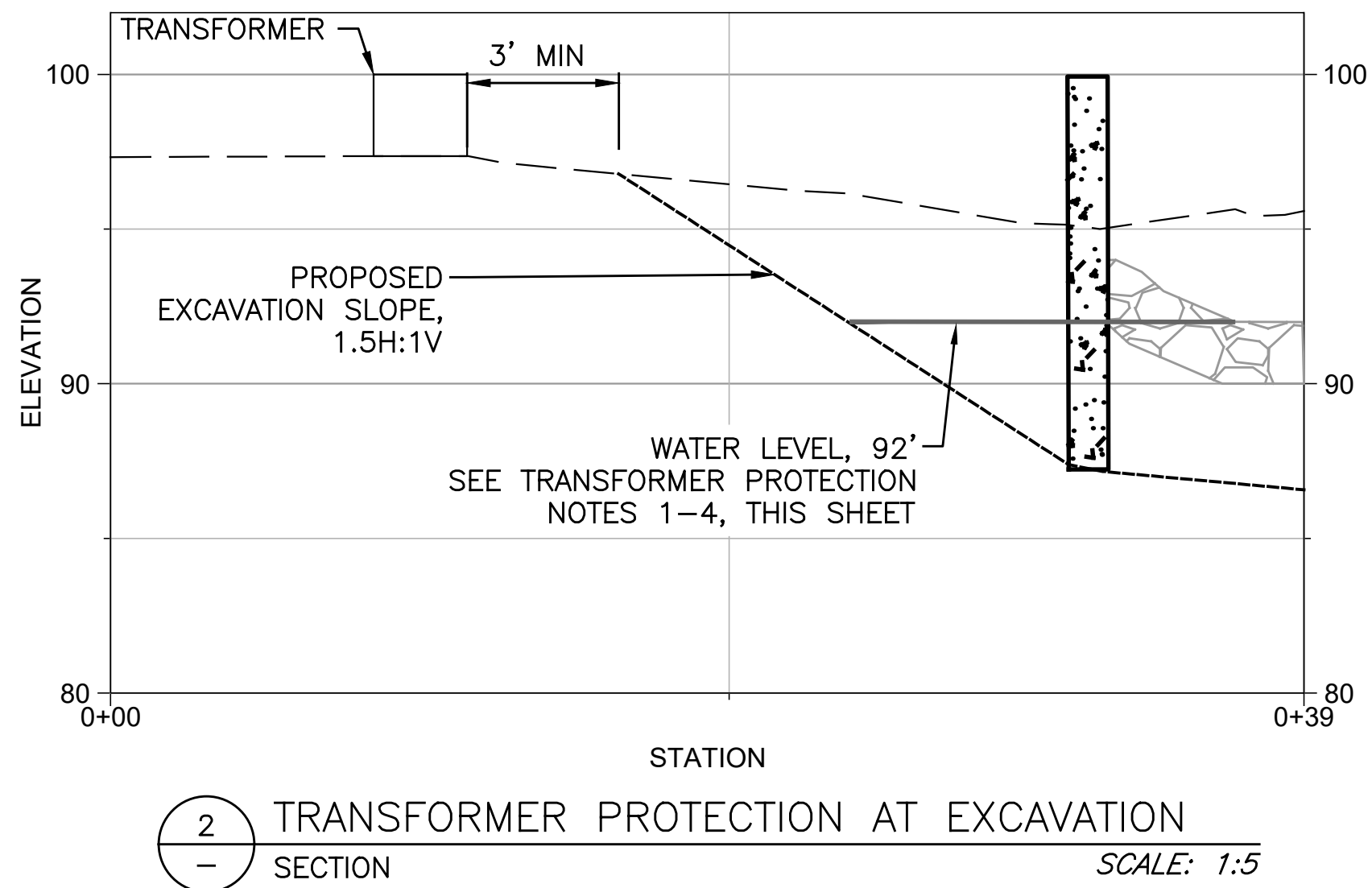
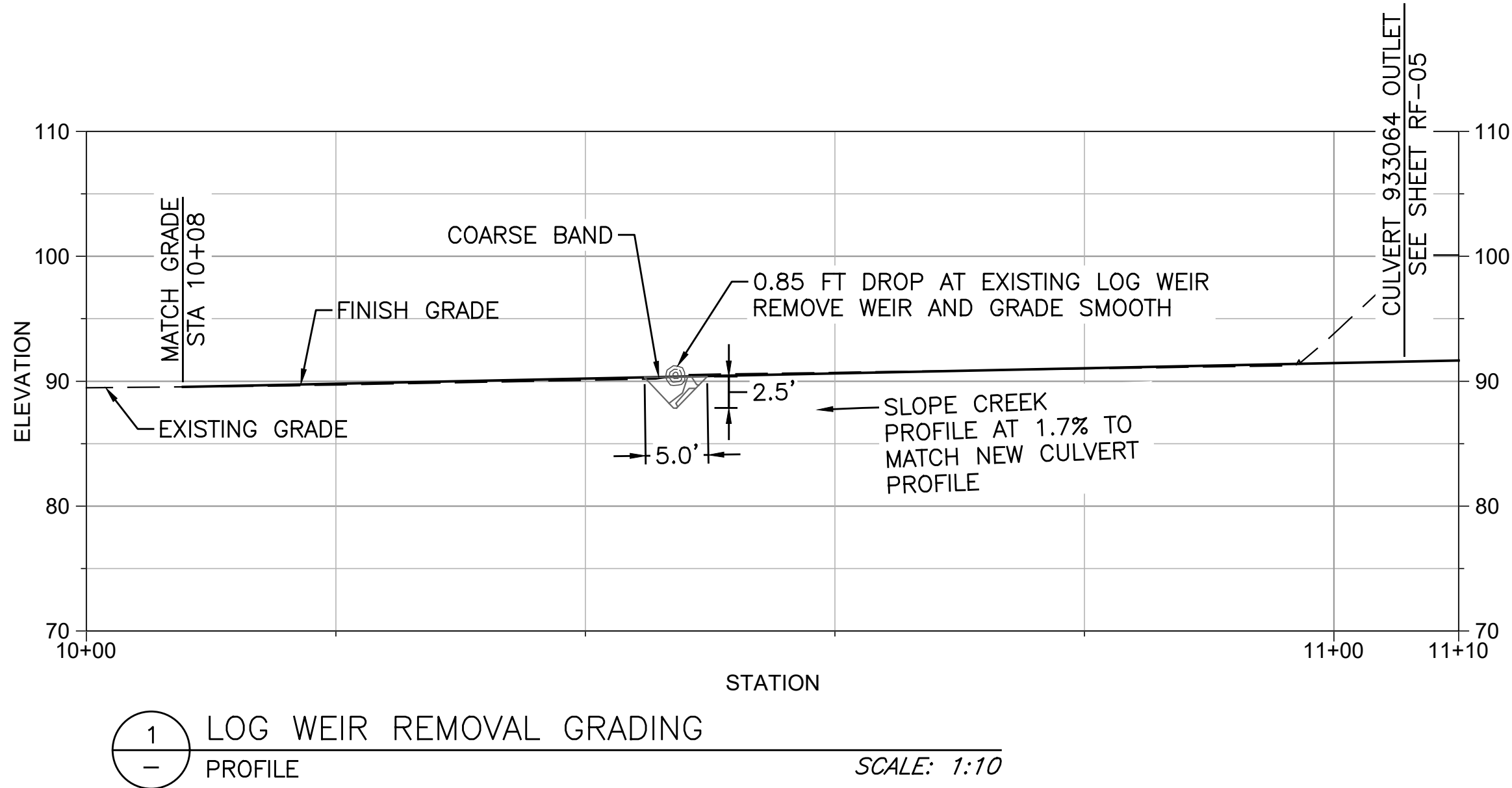
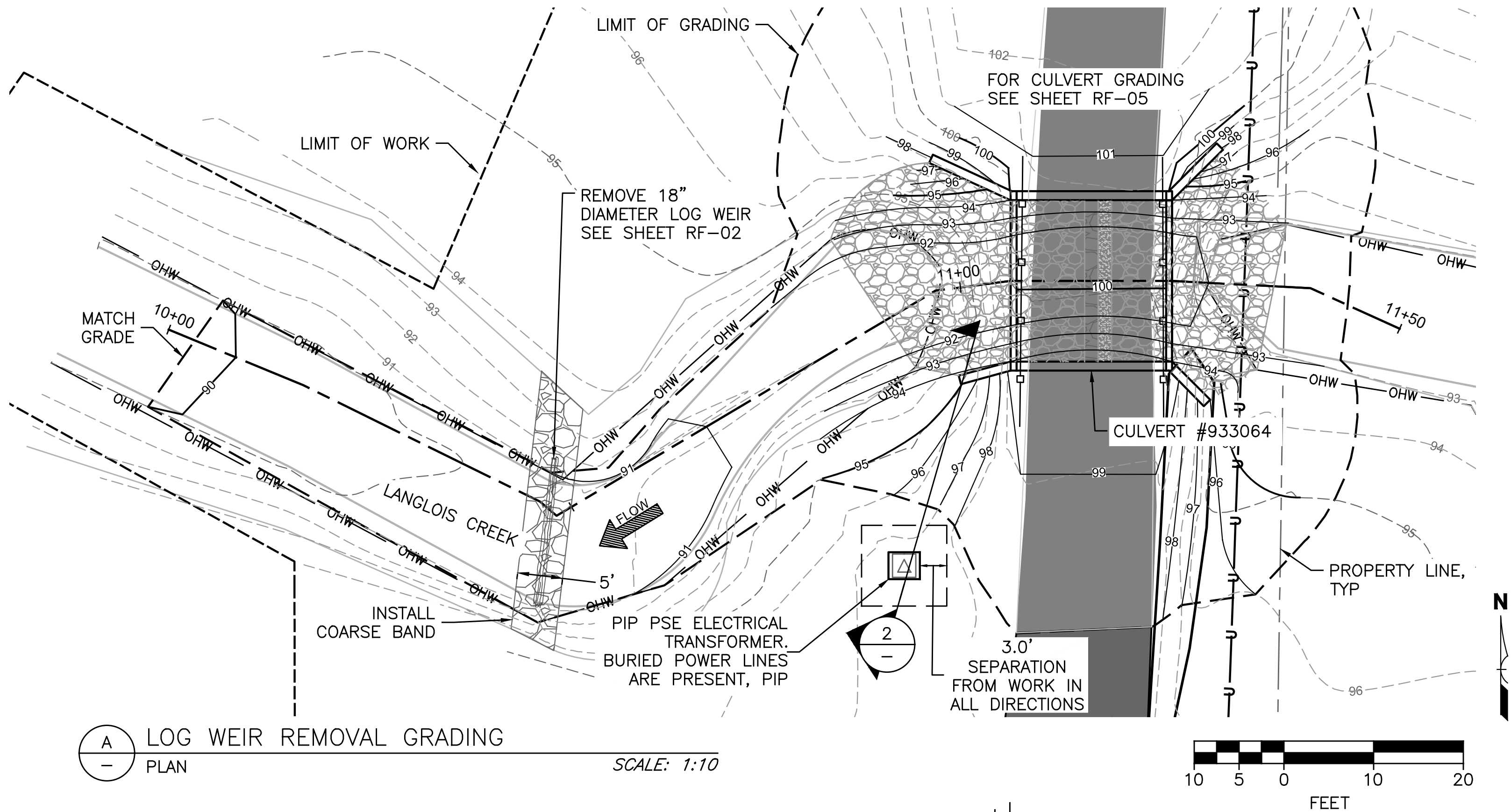
NRCS

Natural Resources Conservation Service

United States Department of Agriculture



PLOT DATE: 6/8/2021 11:33:58 AM PLOTTED BY: ALAINA FLOOR FILE NAME: P:\01 CAD\19xxxx\20191001.00 SWID Langlois Creek\08\_CAD\DWG\RF-04 LOG WEIR REMOVAL.dwg

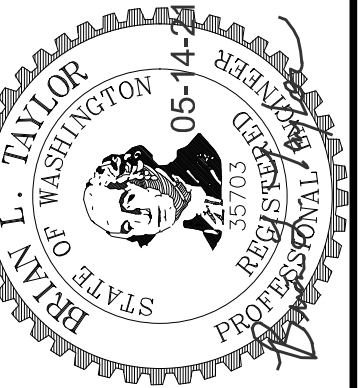


## NOTES

1. SEE SHEET RF-03 FOR STREAM DEWATERING PLAN AND TESC.
2. SEE SHEET SVT-02 FOR ACCESS.
3. SEE SHEET RF-02 FOR TREE REMOVAL. ADDITIONAL TREE REMOVAL MAY BE REQUIRED. FLAG TREES TO BE REMOVED FOR APPROVAL BY THE ENGINEER.
4. SEE SHEET RF-02 FOR LOG WEIR DEMOLITION.
5. SEE SHEET RF-02 FOR ALIGNMENT CONTROL.
6. STOCKPILE ANY EXCAVATED STREAMBED SUBSTRATE FOR REUSE ON SITE.
7. SEE SHEET RF-05 FOR COARSE BAND GRADATION.

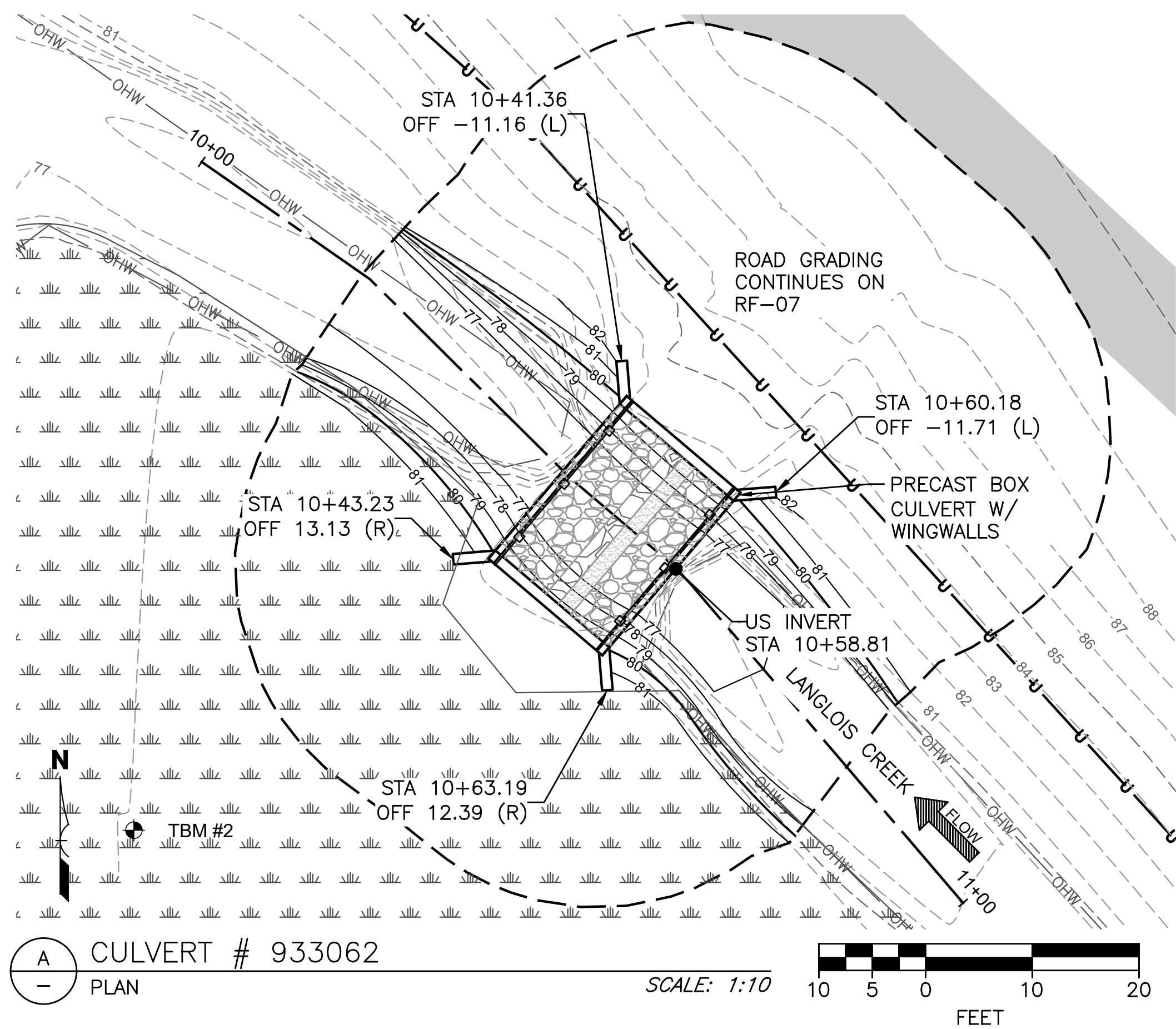
## TRANSFORMER PROTECTION NOTES

1. IN ORDER TO MAINTAIN A STABLE 1.5H:1V EXCAVATION SLOPE TO PROTECT THE EXISTING TRANSFORMER, THE FOLLOWING PROCEDURE IS RECOMMENDED PER THE GEOTECHNICAL ENGINEERING REPORT.
2. THE CONTRACTOR SHALL PERFORM DEWATERING SUCH THAT THE GROUND WATER LEVEL IS MAINTAINED AT LEAST 2 FEET BELOW THE BOTTOM OF THE DEEPEST PORTION OF THE EXCAVATIONS AND AT LEAST 2 FEET BELOW THE BASE OF THE SLOPE AT THE LOCATION OF THE TRANSFORMER AT CULVERT 933064 FOR THE DURATION THAT THE EXCAVATION REMAINS OPEN.
3. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEWATERING, SHORING, AND EXCAVATION PLAN AND CALCULATIONS FOR APPROVAL PRIOR TO THE INITIATION OF EXCAVATION. THE PLAN SHALL INCLUDE MONITORING WELLS INSTALLED TO VERIFY THAT THE WATER TABLE AT THE EXCAVATION AREAS IS SUFFICIENTLY WITHDRAWN (AT LEAST 2 FEET BELOW THE BOTTOM CENTER OF THE EXCAVATIONS) PRIOR TO BEGINNING THE EXCAVATION.
4. CONTRACTOR'S BASE BID SHALL INCLUDE AT LEAST THREE DEWATERING WELLS AND THREE OBSERVATION WELLS. THE DEWATERING WELLS FOR THE BASE BID SHALL BE AT LEAST 50 FEET DEEP AND SHALL BE CAPABLE OF PUMPING AT LEAST 350 GALLONS PER MINUTE. THE OBSERVATION WELLS SHALL EXTEND AT LEAST 50 FEET DEEP.

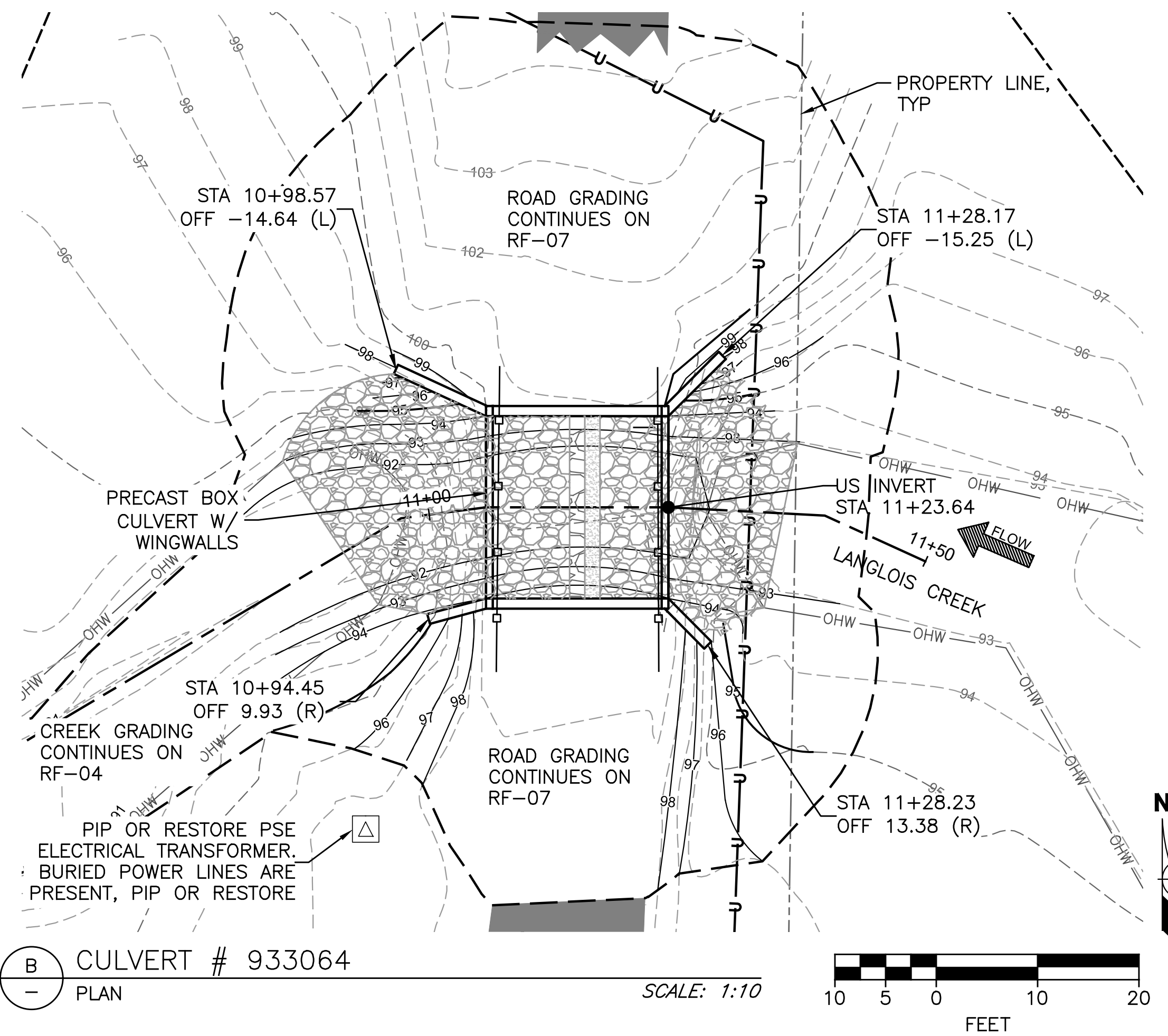




PLOT DATE: 6/8/2021 11:34:13 AM PLOTTED BY: ALAINA FLOOR FILE NAME: P:\01 CAD\19xxxx\20191001.00 SWID Langlois Creek\08\_CAD\DWG\RF-05 CULVERT GRADING PLANS, PROFILE, & SECTIONS.dwg



A CULVERT # 933062  
PLAN



B CULVERT # 933064  
PLAN

CULVERT DESIGN TABLE

	933062	933064	UNIT
SPAN	18	18	FEET
RISE	8	10	FEET
LENGTH	14	18	FEET
CULVERT SLOPE	1.2	1.7	%
US STATION @ INVERT	10+58.81	11+23.64	FEET
US INVERT ELEV.	73.2	88.0	FEET
US BED ELEV.	77.2	93.0	FEET
BED WIDTH	10.0	10.0	FEET
BED SIDE SLOPE	3H:2V	3H:2V	FT:FT
COBBLE DEPTH	4.0	5.0	FEET
ROAD SURFACE ELEV.	VARIABLES 82.7 TO 83.6	VARIABLES 99.5 TO 101.0	FEET
ROAD WIDTH	12.0	14.0	FEET
HEADWALL TOP ELEV.	83.9	101.3	FEET
L US WINGWALL ANGLE	45	45	DEGREES
L US WINGWALL LENGTH	4	6	FEET
R US WINGWALL ANGLE	45	45	DEGREES
R US WINGWALL LENGTH	4	8	FEET
L DS WINGWALL ANGLE	45	15	DEGREES
L DS WINGWALL LENGTH	4	6	FEET
R DS WINGWALL ANGLE	45	25	DEGREES
R DS WINGWALL LENGTH	4	10	FEET

NOTES:

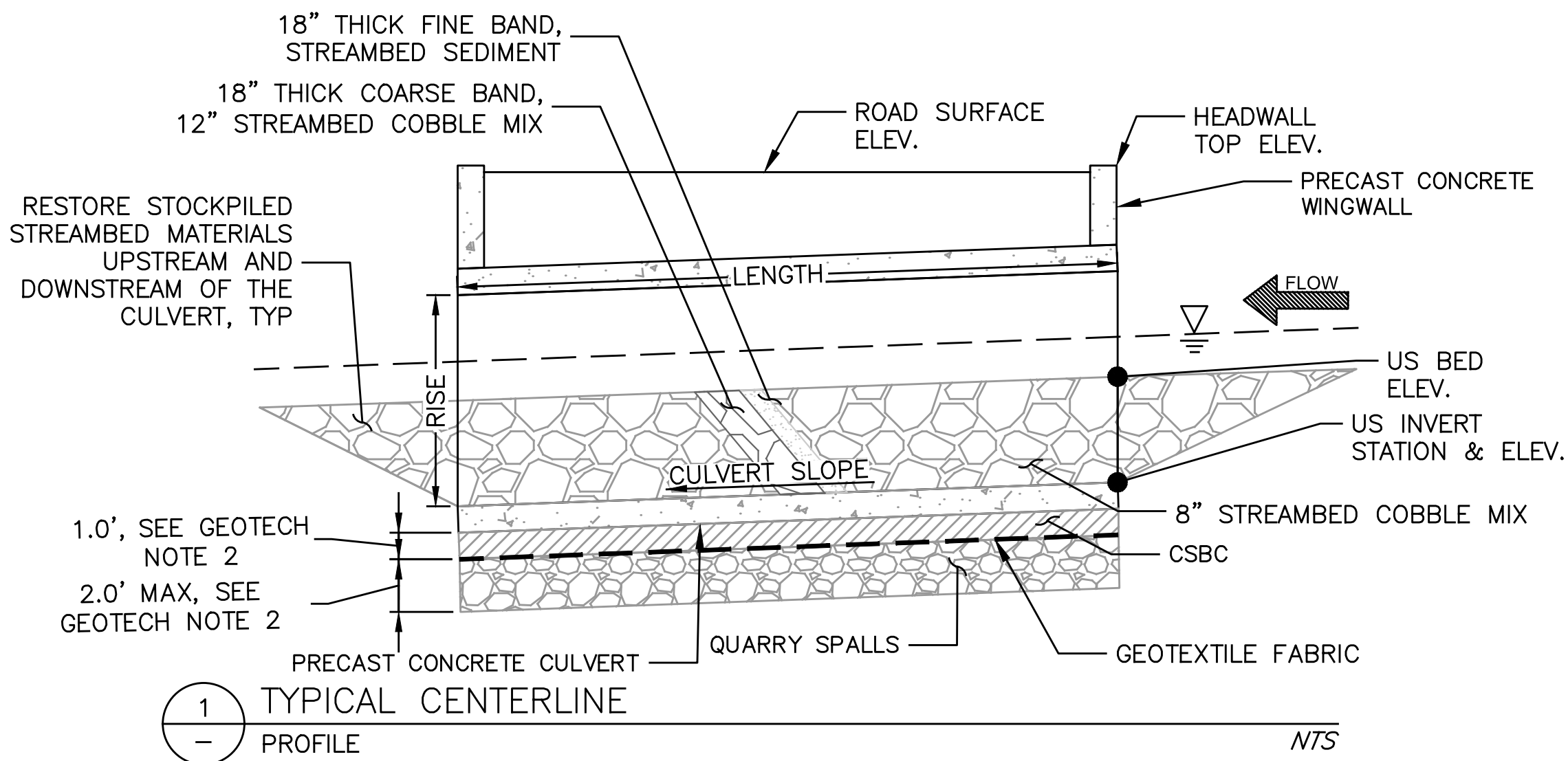
- DS = DOWNSTREAM. US = UPSTREAM. LEFT AND RIGHT ARE DETERMINED FACING DOWNSTREAM.
- SEE SHEET SVT-03 FOR ALIGNMENT CONTROL TABLE.

NOTES

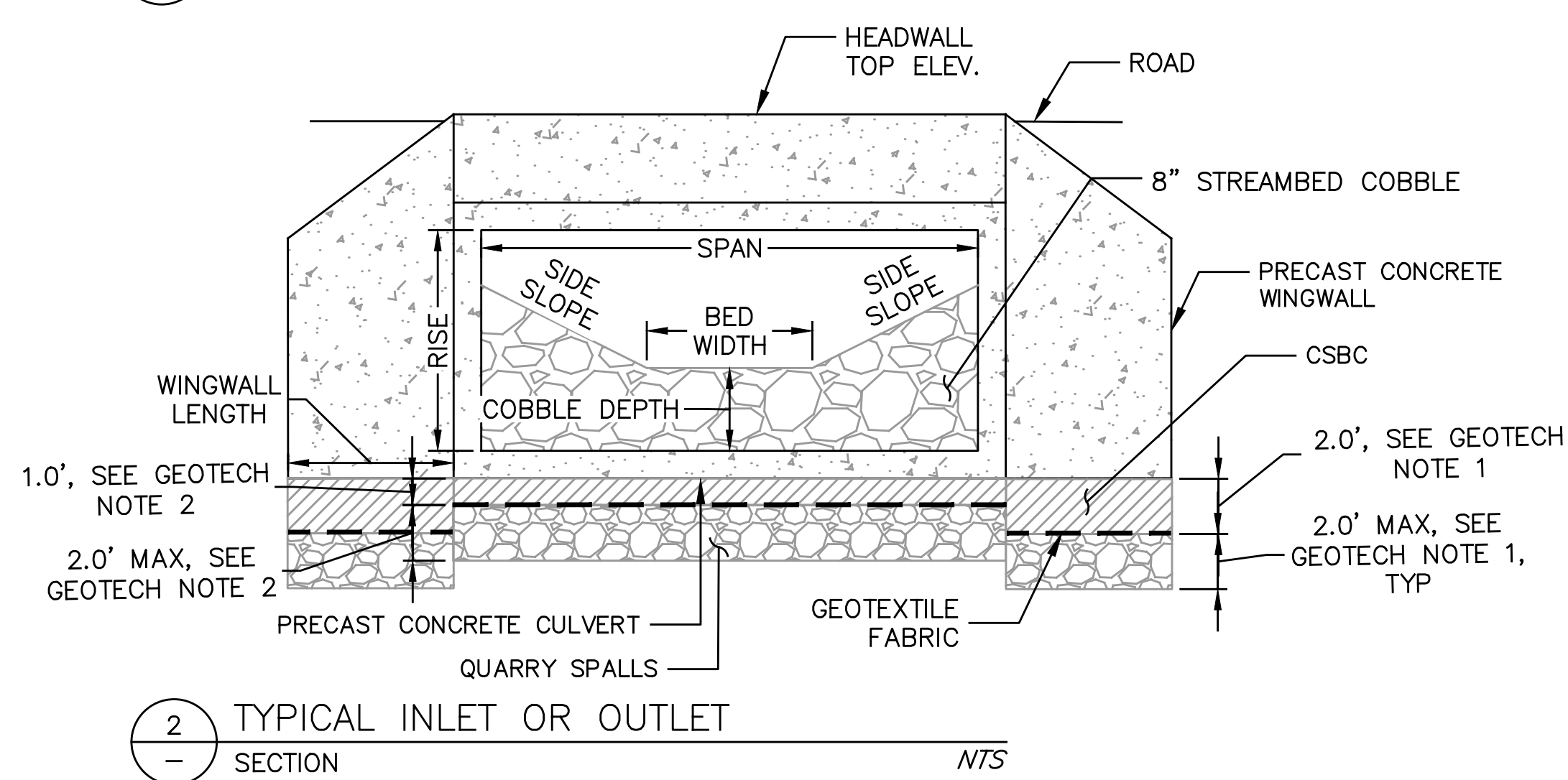
- ALL CULVERTS, HEADWALLS, AND WINGWALLS SHALL BE PRECAST AND DESIGNED BY THE CONTRACTOR. PER NRCS STRUCTURE REQUIREMENTS, ALL PROPOSED CULVERTS SHALL MEET HL 93 LOADING REQUIREMENTS.
- LIMITS OF EXCAVATION MAY BE FIELD FIT AS NEEDED FOR CULVERT INSTALLATION.
- FINAL GRADE MAY BE FIELD FIT WITH APPROVAL OF THE ENGINEER.
- UNMAPPED UTILITIES MAY BE PRESENT IN THE LIMITS OF GRADING. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND PROTECTING OR RESTORING ALL UTILITIES.
- A PUGET SOUND ENERGY (PSE) ELECTRICAL TRANSFORMER AND BURIED POWER LINES ARE PRESENT WITHIN THE LIMITS OF EXCAVATION FOR CULVERT 933064.
- INSTALL PAIRED COARSE AND FINE BANDS WITH THE COARSE BAND CENTERED AT THE MIDPOINT OF CULVERTS 933062 AND 933064.
- COBBLE MIXES SHALL CONSIST OF 70% STREAMBED COBBLE OF THE SPECIFIED GRADATION MIXED WITH 30% STREAMBED SEDIMENT.
- ROAD AND SURFACE GRADING ARE SHOWN ON SHEET RF-07.
- STOCKPILE AND REPLACE STREAMBED MATERIALS WITHIN THE LIMITS OF EXCAVATION.

GEOTECHNICAL NOTES

- PREPARE WALL SUBGRADES BY EXCAVATING TWO FEET BELOW THE BASE OF WALL TO EXPOSE GRANULAR SUBGRADE SOILS. IF SOILS ARE UNSUITABLE AT THIS DEPTH, REMOVE UP TO TWO FEET OF ADDITIONAL SOIL. BACKFILL DEPTHS BELOW TWO FEET WITH 2 TO 4-INCH COMPACTED CRUSHED QUARRY SPALLS.
- PREPARE CULVERT SUBGRADES BY EXCAVATING ONE FOOT BELOW THE CULVERT BASE. IF UNSUITABLE ORGANIC SOILS ARE ENCOUNTERED AT THIS DEPTH, REMOVE UP TO TWO FEET OF ADDITIONAL SOIL AND REPLACE WITH 2 TO 4-INCH COMPACTED CRUSHED QUARRY SPALLS.
- AFTER WALL OR CULVERT SUBGRADE EXCAVATION AND APPROVAL BY ENGINEER, PLACE GEOTEXTILE FABRIC AT THE BASE OF EXCAVATION OR OVER QUARRY SPALLS. PLACE CRUSHED SURFACING BASE COURSE (CSBC) TO THE BASE OF WALL OR THE BASE OF CULVERT ELEVATION AND COMPACT TO 95 PERCENT OF ITS MAXIMUM DRY DENSITY. CSBC SHOULD MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS, SECTION 9-03.9(3).
- DEWATERING SHALL BE PERFORMED WITH WELLS OR WELL POINTS UNLESS DRY CONDITIONS ALLOW FOR THE USE OF SUMPS AND PUMPS. DURING DEWATERING, GROUND WATER SHOULD BE MAINTAINED AT A LEVEL TWO FEET BELOW THE BASE OF EXCAVATION TO PREVENT LOOSENING OF SUBGRADE SOILS.
- MATERIAL USED TO CONSTRUCT CULVERT EMBANKMENTS AND AS PLACEMENT BEHIND WALLS SHALL CONSIST OF STRUCTURAL FILL AND SHALL BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM DRY DENSITY.
- EXISTING ALLUVIAL SOILS WITH HIGH ORGANIC OR HIGH SILT CONTENT SHOULD BE USED IN LANDSCAPING AREAS ONLY AND ARE NOT SUITABLE FOR USE AS STRUCTURAL FILL.
- IF IMPORT MATERIALS ARE NEEDED FOR STRUCTURAL FILL, THEY SHALL MEET THE REQUIREMENTS OF GRAVEL BORROW, PER WSDOT STANDARD SPECIFICATIONS, SECTION 9-03.14(1).



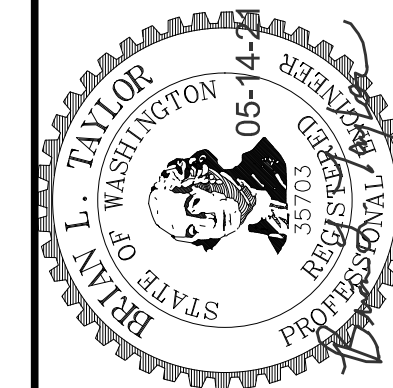
1 TYPICAL CENTERLINE  
PROFILE



2 TYPICAL INLET OR OUTLET  
SECTION

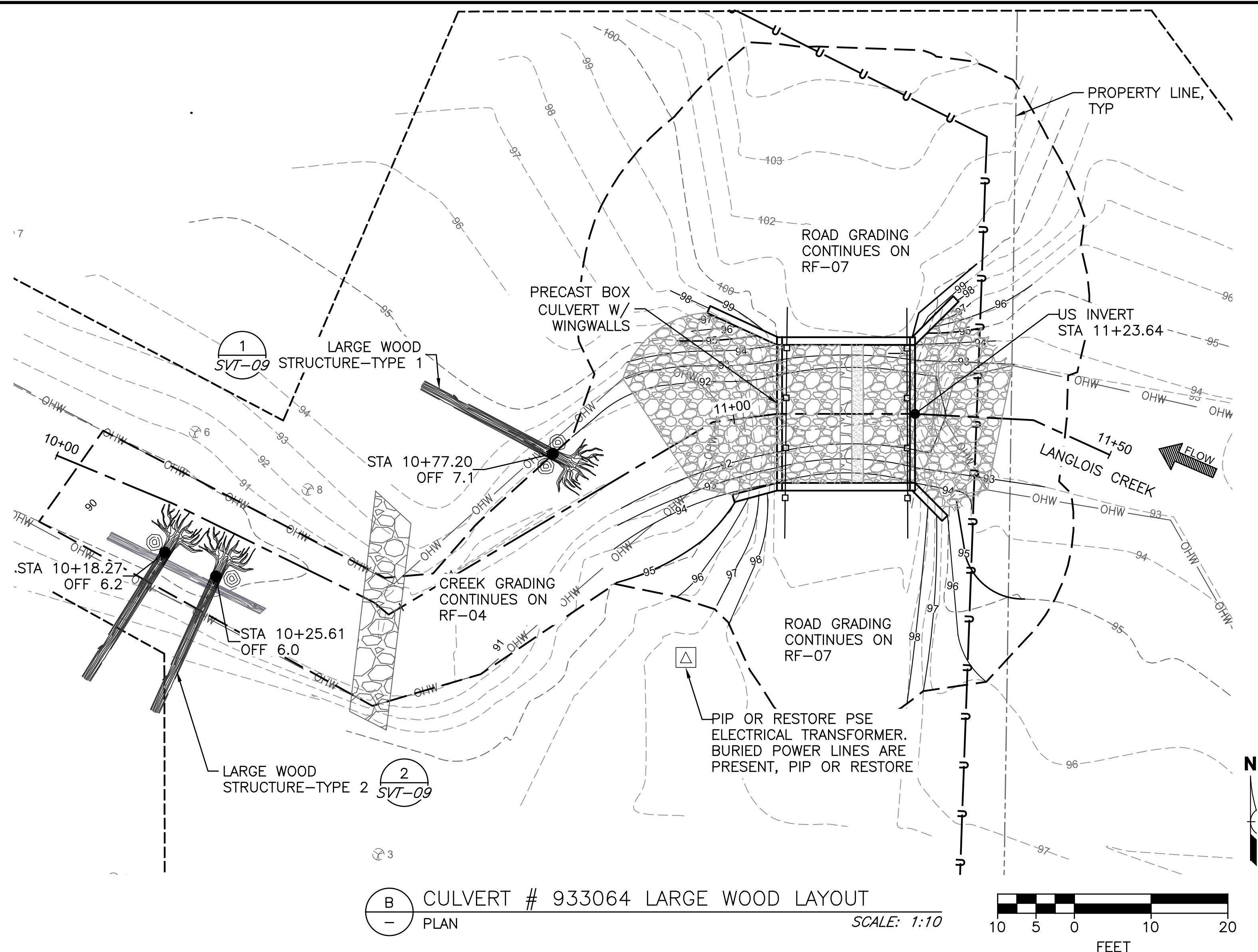
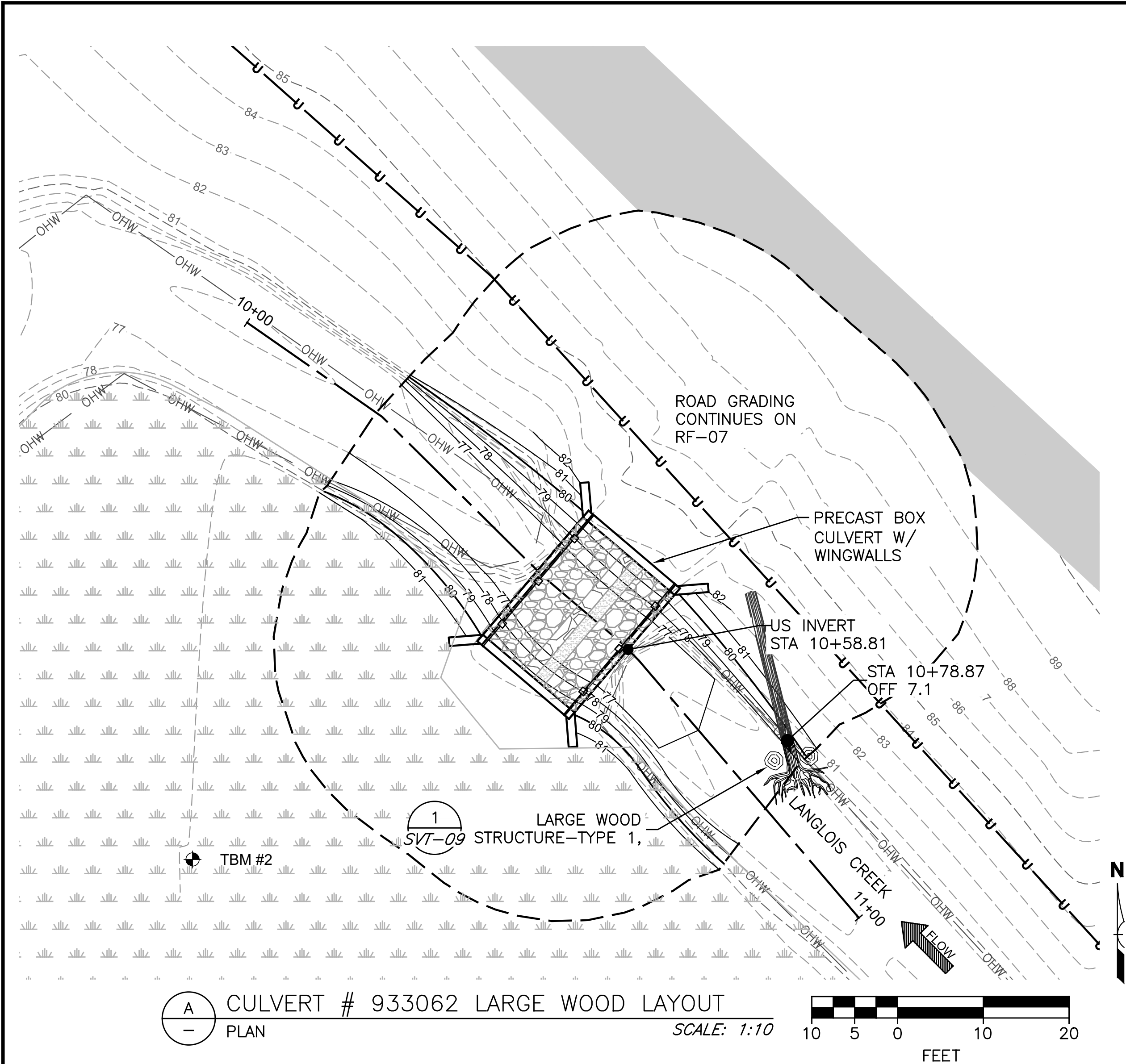
Date	05/13/2021
Designed	BLT
Drawn	AMF
Checked	HLW
Approved	HLW

LANGLOIS CREEK CULVERT REPLACEMENTS  
REMLINGER FARMS CROSSINGS  
CULVERT GRADING PLANS, PROFILE, & SECTIONS





PLOT DATE: 6/8/2021 11:34:28 AM PLOTTED BY: ALAINA FLOOR FILE NAME: P:\01 CAD\19xxxx\20191001.00 SWID Langlois Creek\08\_CAD\DWG\RF-06 LARGE WOOD PLAN AND DETAILS.dwg



#### NOTES

1. LIMITS OF EXCAVATION MAY BE FIELD FIT AS NEEDED FOR LARGE WOOD STRUCTURE INSTALLATION.
2. FINAL LARGE WOOD ASSEMBLIES MAY BE FIELD FIT BY THE ENGINEER, CONTRACTOR TO NOTIFY ENGINEER BEFORE PLACEMENT OF STRUCTURE.
3. UNMAPPED UTILITIES MAY BE PRESENT IN THE LIMITS OF GRADING. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND PROTECTING OR RESTORING ALL UTILITIES.
4. A PUGET SOUND ENERGY (PSE) ELECTRICAL TRANSFORMER AND BURIED POWER LINES ARE PRESENT WITHIN THE LIMITS OF EXCAVATION FOR CULVERT 933064.
5. ROAD AND SURFACE GRADING ARE SHOWN ON SHEET RF-07.
6. STOCKPILE AND REPLACE STREAMBED MATERIALS WITHIN THE LIMITS OF EXCAVATION.

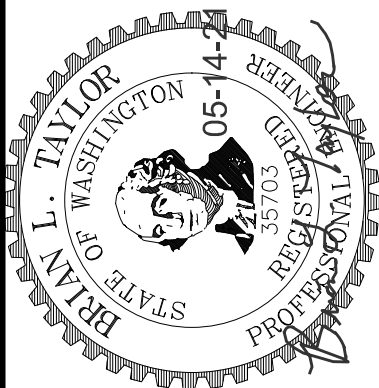
**811**  
KNOW WHAT'S BELOW.  
CALL 2 BUSINESS DAYS  
BEFORE YOU DIG.  
(UTILITY LOCATIONS ARE APPROX.)

Date	05/13/2021
Designed	BLT
Drawn	AMF
Checked	HLW
Approved	HLW

## LANGLOIS CREEK CULVERT REPLACEMENTS

### REMLINGER FARMS CROSSINGS

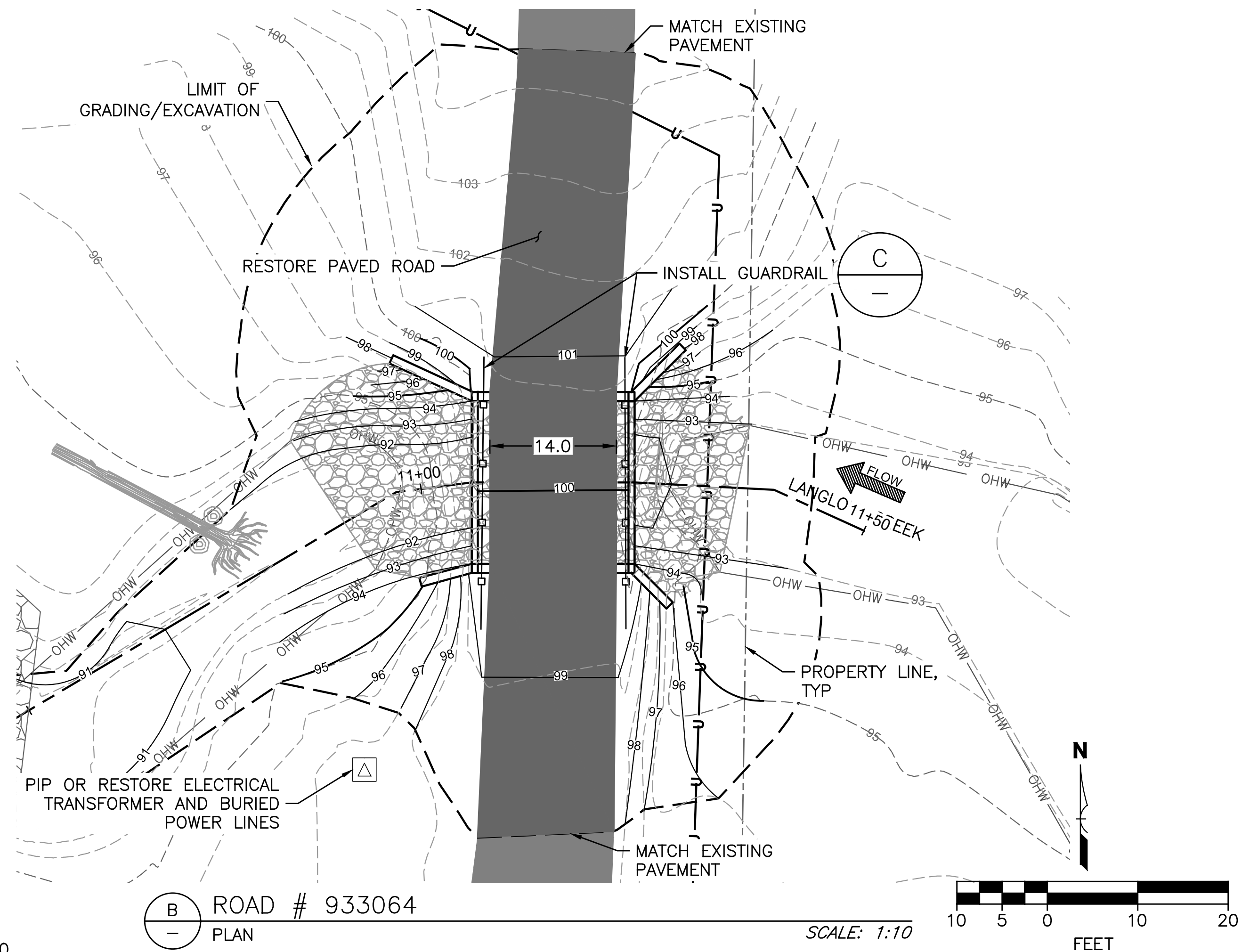
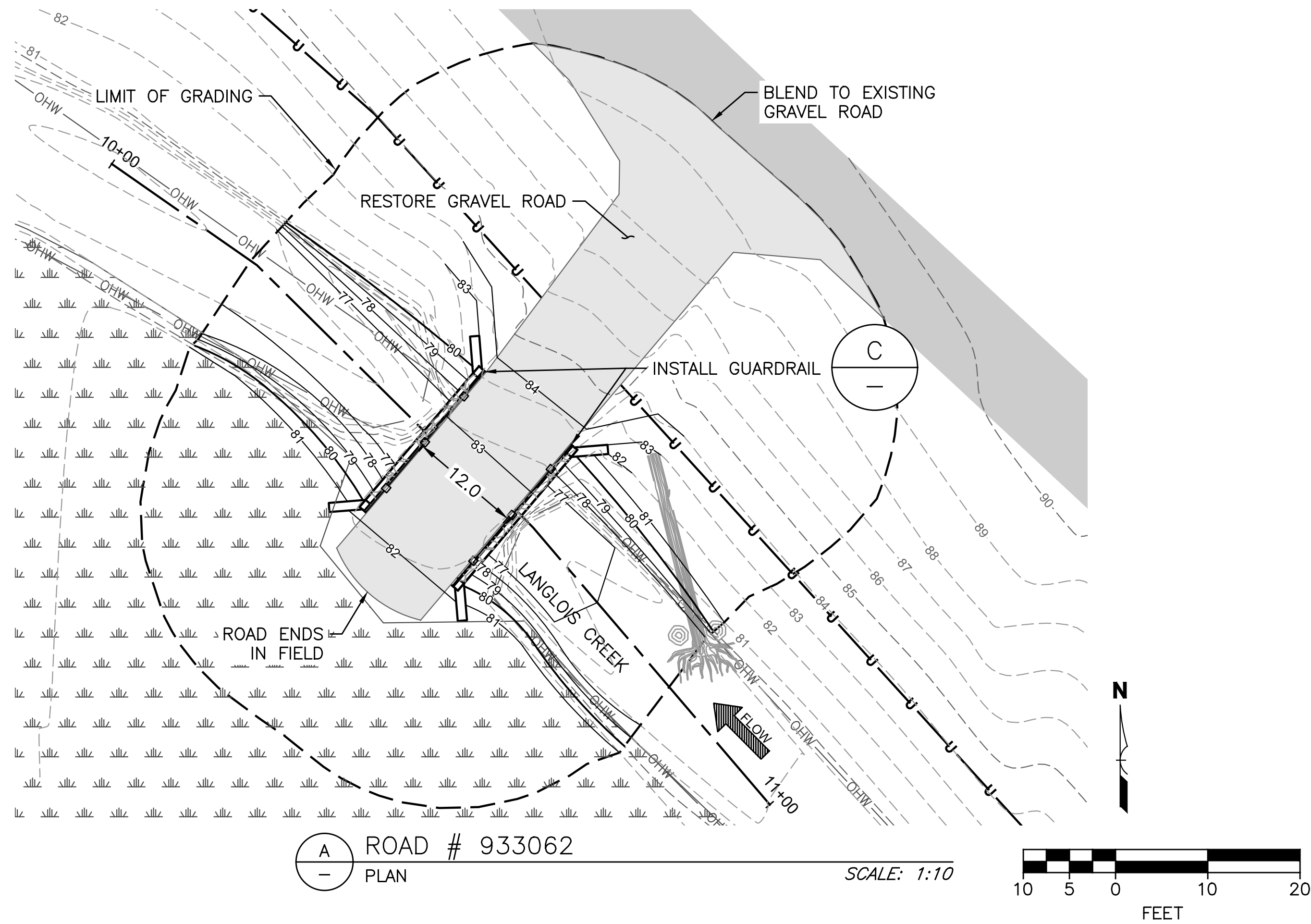
#### LARGE WOOD PLAN



File Name
Drawing Name
RF-06
Sheet 6 of 8

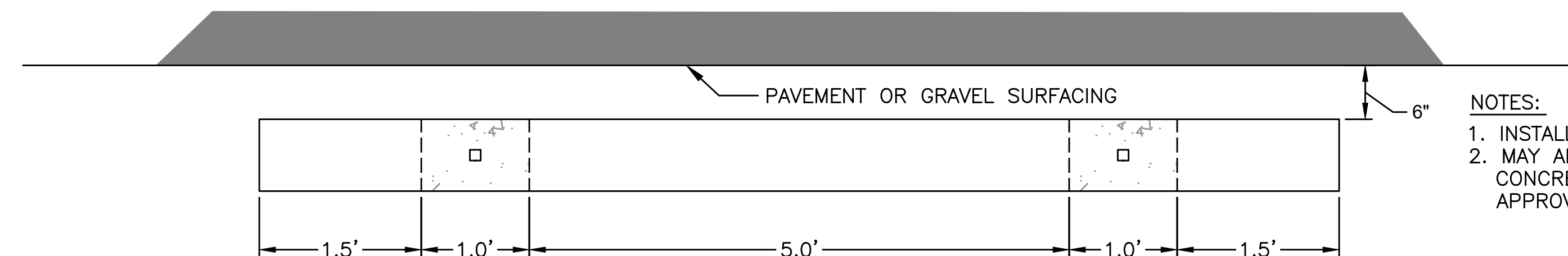
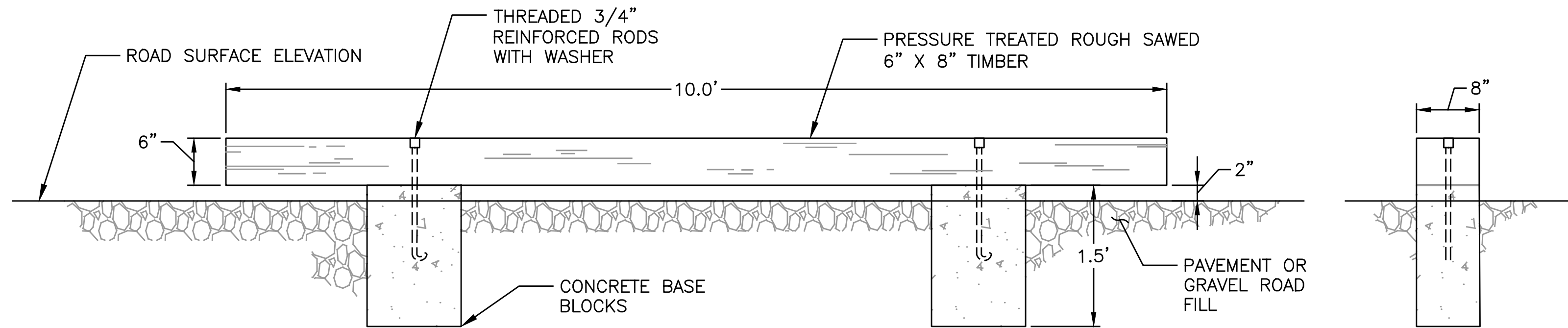


PLOT DATE: 6/8/2021 11:34:42 AM PLOTTED BY: ALAINA FLOOR FILE NAME: P:\01 CAD\19xxxx\20191001.00 SWID Langlois Creek\08\_CAD\DWG\RF-07 ROAD IMPROVEMENT PLAN.dwg



#### NOTES

1. ANY PORTIONS OF THE ROAD DAMAGED OR REMOVED DURING CONSTRUCTION. MATCH EXISTING ROAD WIDTHS, ELEVATIONS, AND PAVEMENT SECTION.
2. IN AREAS WHERE THE LIMIT OF GRADING EXTENDS PAST THE FINISHED GRADE CONTOURS, REGRADE AREAS AS THEY WERE PREVIOUS TO DISTURBANCE.
3. STREAM GRADING AND CULVERT DIMENSIONS ARE SHOWN ON SHEET RF-05.
4. PER NRCS STRUCTURE REQUIREMENTS, ALL PROPOSED CULVERTS SHALL MEET HL 93 LOADING REQUIREMENTS.



#### NOTES:

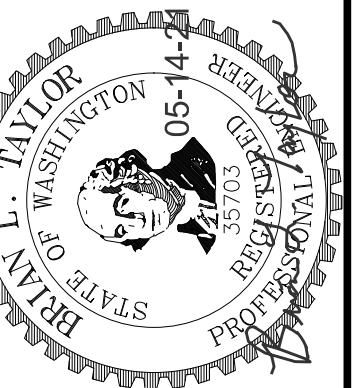
1. INSTALL GUARDRAIL IN 10' INCREMENTS.
2. MAY ANCHOR TO HEADWALL INSTEAD OF CONCRETE BASE BLOCKS IF INCLUDED IN APPROVED CULVERT STRUCTURAL DESIGN.

(C) GUARDRAIL  
DETAIL  
SCALE: 1:1

Date  
12/02/2020  
12/02/2020  
12/02/2020  
05/13/2021

Designed  
BLT  
Drawn  
AMF  
Checked  
HLW  
Approved  
HLW

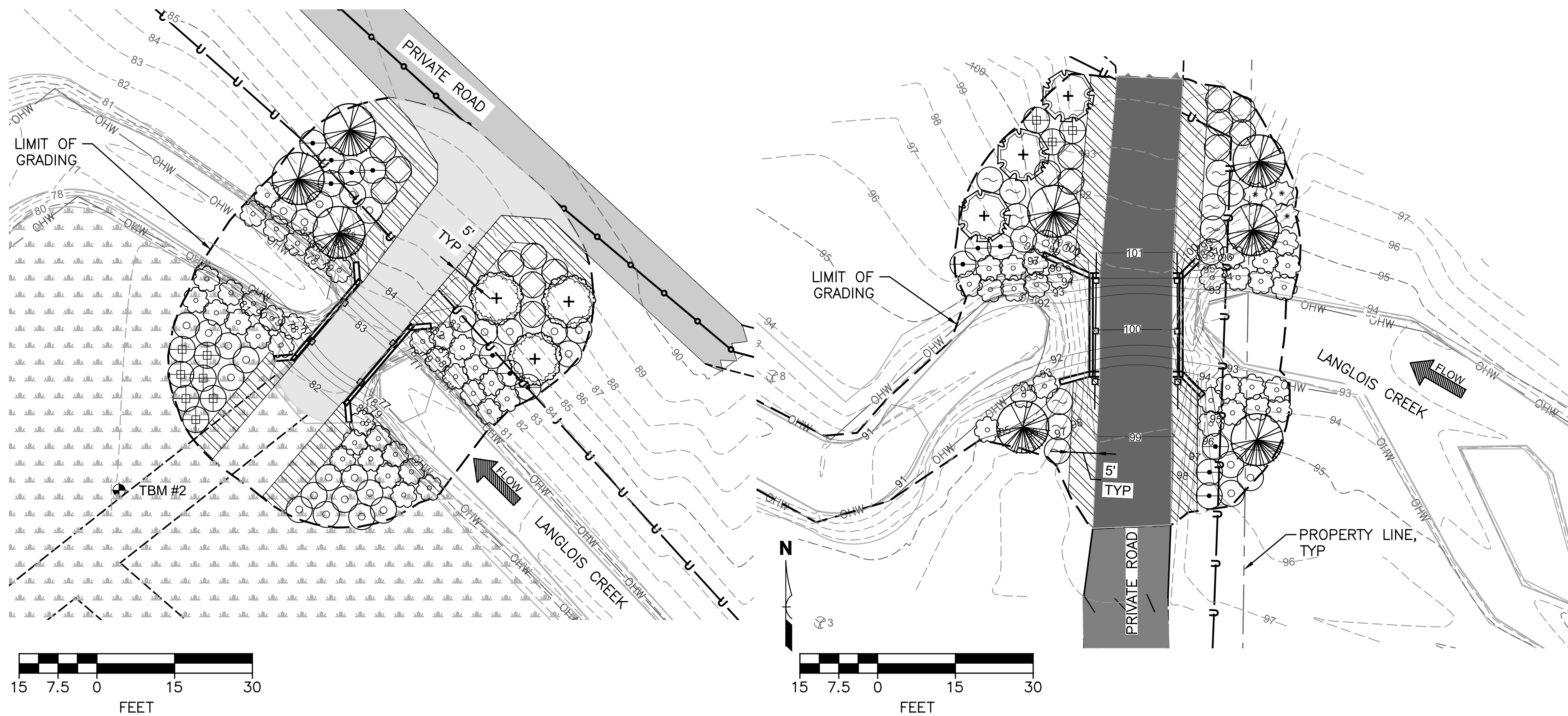
LANGLOIS CREEK CULVERT REPLACEMENTS  
REMLINGER FARMS CROSSINGS  
ROAD IMPROVEMENT PLAN  
SNOWY MOUNTAIN VALLEY  
Watershed Improvement District



File Name  
Drawing Name  
RF-07  
Sheet 7 of 8

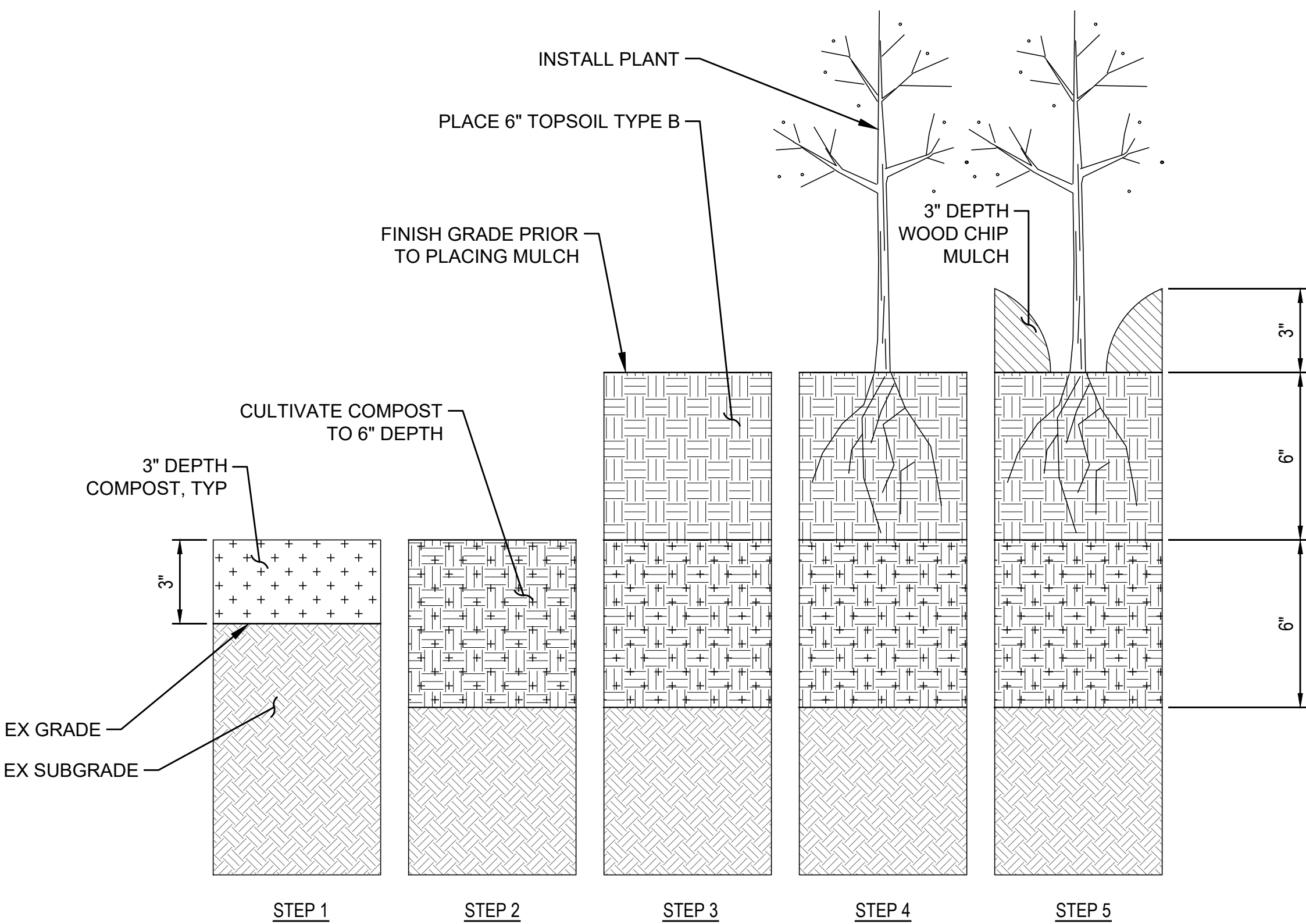


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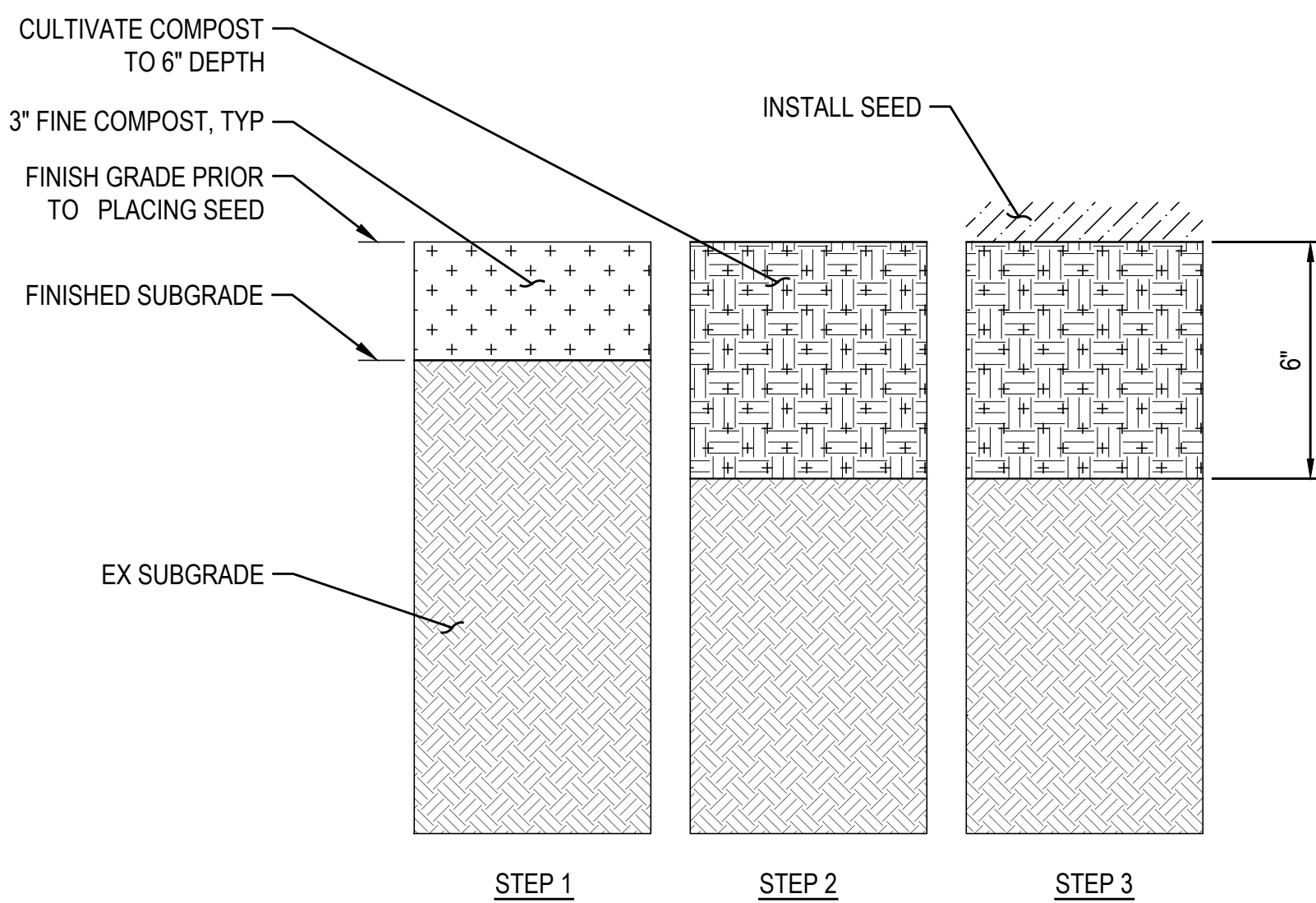


**B** PLANTING PLAN — CULVERT # 933062  
— PLAN SCALE: 1:15

**C** PLANTING PLAN — CULVERT # 933064  
— PLAN SCALE: 1:15



**1** SOIL PREPARATION FOR PLANTING AREAS  
— DETAIL SCALE: NTS



**2** SOIL PREPARATION FOR SEED AREAS  
— DETAIL SCALE: NTS

## RESTORATION PLANTING NOTES

- FOR PLANTING SCHEDULE AND DETAILS SEE SHEET SVT-10.
- SEE SHEET RF-03 FOR TESC & STREAM DEWATERING PLAN.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDINGS WITH CONSTRUCTION.
- PROVIDE THE OWNER'S REPRESENTATIVE A MINIMUM OF 15 DAYS ADVANCE NOTICE WHEN REQUESTING PLANT MATERIAL DELIVERY TO THE PROJECT SITE.
- PRESERVE AND PROTECT ALL EXISTING NATIVE TREES AND SHRUBS NOT DESIGNATED FOR REMOVAL WITHIN THE WETLAND AND BUFFER AREAS. PROVIDE, ERECT AND MAINTAIN TEMPORARY FENCING TO PREVENT ACCESS TO EXISTING WETLANDS OR WETLAND BUFFERS BY ANY VEHICLES.
- DO NOT DRIVE OR PARK ANY VEHICLES OR EQUIPMENT, STORE MATERIALS, STOCKPILE SOIL OR GRAVEL, OR DISPOSE OF ANY CONSTRUCTION OR WASTE MATERIAL WITHIN EXISTING WETLANDS OR WETLAND BUFFER OR NEAR NEWLY INSTALLED PLANTS. RESTRICT FOOT TRAFFIC WITHIN PROTECTED AREAS.
- DECOMPACT SOILS IN ALL AREAS WHERE SOIL COMPACTION HAS OCCURRED. AT MINIMUM, DECOMPACTION MUST OCCUR WHERE HARD SURFACES HAVE BEEN REMOVED AND STAGING AREAS HAVE BEEN CLEARED. DECOMPACTION WILL BE ACCOMPLISHED BY SCARIFYING THE SOIL SURFACE WITH A BACKHOE, A BOBCAT, OR TRACTOR WITH RIPPING TEETH OR A CULTIVATOR, DISK HARROW, OR OTHER PIECE OF AGRICULTURAL MACHINERY AS APPROVED BY THE PROJECT REPRESENTATIVE. SCARIFY TO A DEPTH OF AT LEAST 12 INCHES SO THAT SOIL IS EASY TO DIG BY HAND.
- NO SOIL SCARIFICATION SHALL OCCUR WITHIN THE DRIP LINE OF VEGETATION TO BE RETAINED UNLESS APPROVED BY THE PROJECT REPRESENTATIVE.
- SOIL DECOMPACTION IN WET SOILS AT ANY TIME OF THE YEAR OR DURING INCLEMENT WEATHER OR DURING PERIODS OF PROLONGED DRY OR HOT WEATHER IS NOT ALLOWED WITHOUT APPROVAL BY THE PROJECT REPRESENTATIVE PRIOR TO EXECUTION IN ORDER THAT SOIL STRUCTURE WILL BE MAINTAINED. SOIL SHOULD BE MOIST ENOUGH THAT DIGGING DOESN'T CREATE DUST, BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING RUTS.
- PLANTS SHALL BE INSTALLED SO FINISH GRADE IS LEVEL WITH THE TOP OF ROOT BALL. PLANTS SHALL BE BACKFILLED AND WATER-SETTLED. NO COMPACTION OR BACKFILL IS TO OCCUR AROUND PLANT. ALL PLANTS SHALL BE WATERED THOROUGHLY IMMEDIATELY FOLLOWING INSTALLATION.
- NO TREES OR SHRUBS SHALL BE PLANTED IN STANDING WATER. NO TREES SHALL BE PLANTED WITHIN 6 HORIZONTAL FEET OF OVERHEAD OR UNDERGROUND UTILITIES. LOCATE UTILITIES BEFORE PLANTING.
- ENSURE 100% SURVIVAL OF INSTALLED TREES, SHRUBS, AND SEED SPECIES WITHIN ONE YEAR OF INSTALLATION.
- MONITORING OF RESTORATION AREAS WILL OCCUR ONCE 30 DAYS AFTER PLANTING (STEM COUNT AND AS-BUILT PREPARATION), ONCE EARLY IN THE GROWING SEASON OF THE FIRST FULL GROWING SEASON FOLLOWING PLANTING, AND ONCE AT THE END OF THE FIRST FULL GROWING SEASON.
- IF ANY PORTION OF THE RESTORATION IS NOT SUCCESSFUL, A CONTINGENCY PLAN WILL BE IMPLEMENTED. SUCH PLANS ARE DEVELOPED ON A CASE-BY-CASE BASIS TO REMEDY ASPECTS OF RESTORATION THAT DO NOT MEET STATED SITE GOALS. THE CONTINGENCY PLAN WOULD BE DEVELOPED IN COOPERATION WITH THE OWNER'S REPRESENTATIVE.
- APPLY ADDITIONAL SEED IN AREAS SHOWN ON PLAN AND WHERE RESTORATION PLANTING HAS NOT BEEN LOCATED BUT SITE HAS BEEN IMPACTED DURING PLANTING WORK.
- APPLY SEED TO AREAS DISTURBED DURING LARGE WOOD INSTALLATION.

## PLANTING LEGEND

- AMELANCHIER ALNIFOLIA / WESTERN SERVICEBERRY
- FRAXINUS LATIFOLIA / OREGON ASH
- POPULUS TRICHOCARPA / BLACK COTTONWOOD
- RHAMNUS PURSHIANA / CASCARA
- THUJA PLICATA / WESTERN RED CEDAR
- CORNUS SERICEA / RED-OSIER DOGWOOD (LS)
- CORNUS SERICEA / RED-OSIER DOGWOOD (CONT)
- LONICERA INVOLUCRATA / BLACK TWINBERRY
- PHYSOCARPUS CAPITATUS / PACIFIC NINEBARK
- RIBES LACUSTRE / PRICKLY CURRANT
- ROSA PISOCARPA / CLUSTER ROSE
- RUBUS SPECTABILIS / SALMONBERRY
- RESTORATION SEED MIX - SEE PLANTING SCHEDULE

Date	05/13/2021
Designed	ABG
Drawn	ABG
Checked	SAR
Approved	HLW

**LANGLOIS CREEK CULVERT REPLACEMENTS**  
REMLINGER FARMS CROSSINGS  
RESTORATION PLANTING PLAN,  
SCHEDULE, & DETAILS

**NRC**  
Natural Resources Conservation Service  
United States Department of Agriculture

File Name  
Drawing Name  
RF-08  
Sheet 8 of 8





*Figure 1. Existing Conditions of Culvert #3 (ID 933062) on Langlois Creek. Inlet (left) and outlet (right).*





*Figure 1. Existing Conditions of Culvert #4 (ID 933064) on Langlois Creek. Inlet (left) and outlet (right)*