

Lewis County
Department of Public Works
Engineering Division

**CONTRACT
PROVISIONS AND PLANS
FOR CONSTRUCTION OF:
2019 COUNTY SAFETY
PROGRAM - PHASE 2**

FEDERAL AID PROJECT NO. HSIP-000S(553)

F.A. Contract No. TA-6895

COUNTY ROAD PROJECT NO. 2191B

April, 2021

Book 2 of 2

Lewis County Public Works
2025 NE Kresky Ave.
Chehalis, WA 98532-2626

Approved for Construction:


Assistant County Engineer

4/6/21
Date



4-6-21
Project Engineer

BOARD OF COUNTY COMMISSIONERS

Sean Swope, District No. 1
Lindsey R. Pollock, DVM, District No. 2
Gary Stamper, District No. 3

APPENDIX E

PERMIT DOCUMENTS



Federal Aid Project Number: HSIP-000S(553)	NEPA Start Date: 3-17-20	Intent of Submittal: <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final <input type="checkbox"/> Re-Evaluate
Agency: Lewis County Public Works	Project Title: 2019 County Safety Program – Phase II	
County: Lewis		
Beginning terminus: <u>See below</u> Ending terminus: <u>See below</u> Miles: <u>See below</u>	Township(s): <u>13N; 14N; 15N</u> Range(s): <u>R2W and R3W; R2W and R3W; R3W</u> Section(s): <u>Sections 8,17 and 1, 2; 16,22 and 1,2; 35,36</u>	

Part 1 - Project Description (Attach Vicinity Map)

Upgrade signs, improve clear zone, flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs. Safety improvements including the installation of new guardrail, the replacement of existing guardrail, and/or slope flattening will take place along various sections of the following roads: Centralia Alpha Road Y (MP 0.00 to 0.07), Centralia Alpha Road (MP 0.03 to 0.19, MP 0.44 to 0.50, MP 0.55 to 0.78, MP 0.94 to 1.09 [east side], MP 0.99 to 1.10 [west side], MP 1.13 to 1.29 [east side], MP 1.15 to 1.32 [west side], Galvin Road (MP 1.20 to 1.30 and MP 1.43 to 1.53); Highway 603 (MP 0.28 to 0.40 and MP 2.74 to 2.82); and Rogers Road (MP 0.10 to 0.23 and MP 1.12 to 1.38). Additional work will include the construction of a catch basin at Centralia Alpha Road Y (approx. MP 0.06), the replacement of approach road culverts adjacent to Centralia Alpha Road (approx. MP 0.08), construction of gabion cribbing walls at Highway 603 (approx. MP 2.79) and Rogers Road (approx. MP 0.13 to 0.14); the extension of a culvert at Rogers Road MP 1.25; and work in an unnamed tributary of the Newaukum River along Rogers Road including replacement/upsizing of an approach culvert at MP 1.12, realignment of the channel from MP 1.12 to 1.16; and extension of a culvert at MP 1.16. A ditch realignment would occur along Rogers Road from MP 1.16 to 1.38. Refer to the attached Vicinity Map and Area of Potential Effect Maps for legal descriptions.

Additional safety improvements proposed to be constructed as part of the 2019 County Safety Program – Phase II project, which was permitting under the NEPA CE for the Highway Safety Improvements Program – Phase II (HSIP) project, include work along various sections of the following roads: W Reynolds Avenue (MP 0.33 to 0.71), Centralia Alpha Road (MP 0.05 to 0.29), Highway 603 (MP 2.50 to 2.62 and MP 9.23 to 9.32), and Westside Highway (MP 0.32 to 0.36). Refer to the attached redlined HSIP NEPA CE and project plans.

Part 2 – Categorical Exclusion & STIP

- Identify one CE from 23 CFR 771.117 (CE Guidebook - Appendix A) that fits the entire project **C(23)**
- Per 23 CFR Part 452(I) identify the subsequent project phase identified on the STIP? ROW Construction
- Attach a copy of the STIP page to the CE documentation form.

NEPA Approval Signatures


 Local Agency Approving Authority
Michael A Williams, PE
 Regionally Local Programs Engineer
 Digitally signed by Michael A Williams, PE
 Date: 2021.02.22 11:53:29 -08'00'

11-2-20
Date

Jodie E Beall
 Local Programs Environmental Engineer
 Digitally signed by Jodie E Beall
 Date: 2021.02.23 08:41:33 -08'00'
2/23/21
Date

CE per PA
 Federal Highway Administration
2/23/21
Date

Completed by (Print Official's Name): Ann Weckback	Telephone (include area code): (360) 740-1440	E-mail address: Ann.Weckback@lewiscountywa.gov
---	--	---

Part 3 - Permits, Approvals & Right of Way (ROW)

Yes	No	Permit or Approval	Yes	No	Permit or Approval
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Corps of Engineers <input type="checkbox"/> Sec. 10 <input checked="" type="checkbox"/> Sec. 404	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water Quality Certification – Section 401
		<input checked="" type="checkbox"/> Nationwide Type <u>14 – Linear Transportation</u>			Issued by <u>Department of Ecology</u>
		<input type="checkbox"/> Individual Permit No. _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tribal Permit(s) (if any) _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Coastal Zone Management Certification	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Permits (List) _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Critical Areas Ordinance (CAO) Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is permanent ROW acquisition needed? If yes, amount needed: <u>0.07</u> (acres/sq. ft.).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Forest Practices Act Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is any temporary ROW needed?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hydraulic Project Approval	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is relocation required?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Local Building or Site Development Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has ROW (property and/or property interests) been acquired <u>for this project</u> prior to the NEPA start date? If yes, documentation demonstrating compliance with 23 CFR 710.501 may be required.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Local Clearing and Grading Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is a detour required? If yes, please attach detour information.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	National Pollutant Discharge Elimination System (NPDES) Baseline General for Construction			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shoreline Permit			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	State Waste Discharge Permit			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Rights Permit			

U.S. Coast Guard Permitting

a. Does the project propose any new or modify any existing bridges or culverts crossing a waterway? Yes No

b. If Yes, attach a copy of the jurisdictional determination email or letter from the U.S. Coast Guard.

Other Federal Agencies - Does the project involve any federal properties, approvals or funding from other/additional federal agencies? Yes No If Yes, please describe. An USACE NWP authorization will be needed.

Part 4 - Environmental Considerations

Will the project involve work in or affect any of the following? Identify proposed mitigation. Attach additional pages or supplemental information if necessary.

1. Air Quality - Identify any anticipated air quality issues.

Is the project exempt from Air Quality conformity requirements? Yes No

a. If Yes, identify exemption – please refer to Appendix G in the CE Guidebook for a list of exemptions.
 Safety Projects – shoulder improvements, guardrail, median barriers, and crash attenuators
 Other – projects with neutral or *de minimis* emissions impacts

b. Is the project included in the Metropolitan Transportation Plan? Yes No
 If Yes, date Metropolitan Transportation Plan was adopted _____

c. Is the project located in an Air Quality Non-Attainment Area or Maintenance Area for carbon monoxide, ozone or PM 10 or PM 2.5? Yes No

2. Critical and Sensitive Areas

a. Is this project within a sole source aquifer Yes No
 If located within a sole source aquifer, is the project exempt from EPA approval?
 If Yes, please list exemption: _____
 If No, date of EPA approval: _____

b. Will this project impact Species/Habitat other than ESA listed species? Yes No Explain your answer.
According to the WDFW priority habitat and species datasets priority species which are potentially within the project area are purple martin, waterfowl concentrations, cavity-nesting ducks, trumpeter swan, big brown bat, Roosevelt elk, and wolverine. None of these species are anticipated to be affected by the proposed project.

c. Is this project within one mile of a Bald Eagle nesting territory, winter concentration area or communal roost?
 Yes No If Yes, the local agency must go to the US Fish & Website (<http://www.fws.gov/pacific/eagle/>) and work through the *Do I Need a Permit?* section.

d. Are wetlands present within the project area? Yes No If Yes, estimate the impact in acres: 0.057 acres
 Please attach a copy of the proposed mitigation plan.

Part 4 - Environmental Considerations (continued)

3. Cultural Resources/Historic Structures – Identify any historic, archaeological or cultural resources present within the project's Area of Potential Effects.

Does the project fit into any of the exempt types of projects listed in Appendix J of the CE Guidebook?

Yes No If Yes, note exemptions below.

If No: Date of DAHP concurrence: 1/26/21

Date of Tribal consultation(s) (if applicable): _____

Adverse effects on cultural/historic resources? Yes No

If Yes, date of approved Section 106 MOA: _____

4. Floodplains and Floodways

- a. Is the project located in a 100-year floodplain? Yes No
- b. If Yes, is the project located within a 100-year floodway? Yes No
- c. Will the project impact a 100-year floodplain? Yes No If Yes, describe impacts.

Work within the 100-year floodplain includes the replacement of a road approach culvert and placement of fill for a widened approach adjacent to Centralia Alpha Rd MP 0.08, vertical modification of existing guardrail at Highway 603 MP 0.28 to 0.40; and replacement of sidewalk ramps at Galvin Rd MP 1.2, 1.3 and 1.43. Impacts to the 100-year floodplain of Salzer Creek are anticipated to be negligible as < 25 CY of fill will be placed for the road approach at Centralia Alpha Rd. Impacts to the 100-year floodplain of the Chehalis River are anticipated to be negligible as guardrail will simply be raised at Hwy 603, and < 1.8 CY of fill will be placed for replacement of the sidewalk ramps at Galvin Rd. Work proposed at Galvin while in the mapped floodway and floodplain was determined to be above the base flood elevation of 165.4, and therefore, outside of the floodway.

5. Hazardous and Problem Waste – Identify potential sources and type(s).

- a. Does the project require excavation below the existing ground surface? Yes No
- b. Will groundwater be encountered? Yes No
- c. Will any properties be acquired as part of this project? Yes No
- d. Is this site located in an undeveloped area (i.e. no buildings, parking, storage areas or agriculture)? Yes No
- e. Is the project located within a one-mile radius of a known Superfund Site? Yes No
- f. Is this project located within a ½-mile radius of a site or sites listed on any of the following Department of Ecology databases? Yes No If Yes, check the appropriate boxes below.

Voluntary Cleanup Program (VCP), State Cleanup Site (SCS), or Independent Cleanup Program (ICP)

Underground Storage Tank (UST)

Leaking Underground Storage Tank (LUST)

Confirmed and Suspected Contaminated Sites List (CSCSL)

- g. Has site reconnaissance (windshield survey) been performed? Yes No (Please identify any properties not identified in the Ecology or ERS database search as an attachment -- name, address and property use).

- h. Based on the information above and project specific activities, is there a potential for the project to generate, acquire or encounter contaminated soils, groundwater or surface water? Yes No

Please explain: It is not anticipated that the project has the potential to generate, acquire, or encounter contaminated soils, groundwater, or surface water. Refer to the attached Hazardous Materials Memo.

If you responded Yes to any of these questions above (5A – 5F or 5H), contact your Region LPE for assistance as a "Right-Sized" HazMat Analysis Report/Memorandum most likely will be required.

Part 4 - Environmental Considerations (continued)

6. Noise

- a. Does the project involve constructing a new roadway? Yes No
- b. Is there a change in the vertical or horizontal alignment of the existing roadway? Yes No
- c. Does the project increase the number of through traffic lanes on an existing roadway? Yes No
- d. Is there a change in the topography? Yes No
- e. Are there auxiliary lanes extending 1-½ miles or longer being constructed as part of this project?
 Yes No
- f. If you answered Yes to any of the preceding questions, identify and describe any potential noise receptors within the project area and subsequent impacts to those noise receptors. Please attach a copy of the noise analysis if required.

If impacts are identified, describe proposed mitigation measures.

7. 4(f)/6(f) Resources: parks, recreation areas, wildlife refuges, historic properties, wild & scenic rivers, scenic byways

- a. Please identify any 4(f) properties within the project limits and the areas of impacts.
There are no 4(f) properties within the project limits or areas of impacts.
- b. Please identify any properties within the project limits that used funds from the Land & Water Conservation Fund Act.
There are no properties within the project limits that used the aforementioned funds.
- c. Please list any Wild and Scenic Rivers and Scenic Byways within the project limits.
There are no Wild and Scenic Rivers or Scenic Byways within the project limits.

8. Agricultural Lands –

- a. Are there agricultural lands within 300 feet of the project limits? Yes No If Yes, describe impacts:
The only agricultural lands within 300 feet of the project limits that are outside County ROW is the area at Centralia Alpha Rd MP 0.08 where an approach culvert is proposed to be replaced and approximately 16 CY base course will be placed to expand a road approach by 162 square feet.
- b. Are impacted lands considered to be unique and prime farmland? Yes No
If Yes, date of project review by Natural Resource Conservation Service (NRCS): _____

9. Rivers, Streams (continuous or intermittent) or Tidal Waters

- a. Identify all waterbodies within 300 feet of the project limits or that will otherwise be impacted.
Work will occur below the ordinary high water mark of an unnamed tributary of the Newaukum River. Additionally, work will occur within the 100-year floodplain of Salzer Creek and the Chehalis River.
- b. Identify stream crossing structures by type.
There are five stream crossing structures within the project area. These include Bridge No. 68 a 69-foot cast in place concrete slab bridge at approximately MP 0.17 of Salzer Road, Bridge No. 75 a 400 ft concrete cast-in-place box girder bridge from approximately MP 1.44 to 1.52 of Galvin Rd, Bridge No. 112 a 382 foot cast-in-place multibeam stringer bridge from approximately MP 1.21 to 1.28 of Galvin Rd, a 24 inch diameter precast concrete culvert, 32 feet in length adjacent to Rogers Rd MP 1.12, and a corrugated metal culvert 64 inches in width, 32 inches in height and 30 feet in length at Rogers Rd to MP 1.16.

Part 4 - Environmental Considerations (continued)

10. Tribal Lands – Identify whether the project will occur within any Tribal lands, including reservation, trust and fee lands. Please do not list usual and accustomed area.

There are no tribal lands within the project nor will any such lands be impacted by the proposed project.

11. Water Quality/Stormwater

a. Will this project’s proposed stormwater treatment facility be consistent with the guidelines provided by either WSDOT’s HRM, DOE’s stormwater management manual for eastern/western Washington or a local agency equivalent manual? Yes No

If No, explain proposed water quality/quantity treatment for the new and any existing pollution generating impervious surface associated with the proposed project.

b. Amount of existing pollution generating impervious surface within the project limits: N/A

c. Net new pollution generating impervious surface to be created as a result of this project: N/A

d. Amount of proposed post-project untreated pollution generating impervious surface: N/A

12. Previous Environmental Commitments

Describe previous environmental commitments that may affect or be affected by the project – if any.

Lewis County is responsible for maintaining the roadway and safety appurtenances within the County ROW.

13. Environmental Justice - Does the project meet any of the exemptions noted in Appendix L of the CE Documentation Guidebook? Yes No

If Yes, please note the exemption and appropriate justification in the space below.

If No, are minority or low-income populations located within a 0.50-mile of the project?

Yes No If No, attach appropriate data to support findings. If Yes, describe impacts and attach appropriate supporting documentation. Findings should be confirmed using at least two information sources. Please refer to the CE Guidebook for more information. Refer to the attached Environmental Justice Memo.

Part 5 - Biological Assessments and EFH Evaluations

1. Do any listed species potentially occur in the project’s action area and/or is any designated critical habitat present within the project’s action area? Yes No Attach species listings.

Affected ESA Listed Species	2. Will any construction work occur within 0.25 mile of any of the following?	3. Does the project involve blasting, pile driving, concrete sawing, rock-drilling or rock-scaling activity within one mile of any of the following?
Oregon Spotted Frog proposed critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Yellow-billed Cuckoo suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Spotted Owl management areas, designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Marbled Murrelet nest or occupied stand, designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Western Snowy Plover designated critical habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the project within 0.25 mile of marine waters? If Yes explain potential effects on Killer Whales and on Marbled Murrelet foraging areas.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Killer Whale designated critical habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Grizzly Bear suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Gray Wolf suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Canada Lynx habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Columbia White-tailed Deer suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Woodland Caribou habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Streaked Horned Lark designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Taylor's Checkerspot designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Mazama Pocket Gopher designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Eulachon designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Rockfish proposed critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A mature coniferous or mixed forest stand?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Will the project involve any in-water work?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Will any construction work occur within 300 feet of any perennial or intermittent waterbody that either supports or drains to waterbody supporting listed fish?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Will any construction work occur within 300 feet of any wetland, pond or lake that is connected to any permanent or intermittent waterbody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7. Does the action have the potential to directly or indirectly impact designated critical habitat for salmonids (including adjacent riparian zones)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. Will the project discharge treated or untreated stormwater runoff or utilize water from a waterbody that supports or drains into a listed-fish supporting waterbody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Will construction occur outside the existing pavement? If Yes go to 9a.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9a. Will construction activities occurring outside the existing pavement involve clearing, grading, filling or modification of vegetation or tree-cutting?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10. Are there any Federally listed Threatened or Endangered plant species located within the project limits? If Yes, please attach a list of these plant species within the action area.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. Does a mature coniferous or mixed forest stand occur within 200' of the project site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Analysis for No Effects Determination – If there are any Yes answers to questions in Part 5, additional analysis is required. Attach additional sheets if needed.</p> <p><u>The proposed project is not anticipated to affect any NMFS species as no in-water work will occur within fishbearing streams. No USFWS species are anticipated to be impacted as there is no suitable habitat for any such species nor any designated critical habitat within the project area.</u></p>		

Analysis for RRMP ESA 4(d) determination for NMFS – A local agency must be certified by the Regional Road Maintenance Forum to utilize 4(d).

Maintenance Category (check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> 1. Roadway Surface | <input type="checkbox"/> 6 Stream Crossings | <input type="checkbox"/> 11. Emergency Slide/Washout Repair |
| <input type="checkbox"/> 2. Enclosed Drainage Systems | <input type="checkbox"/> 7. Gravel Shoulders | <input type="checkbox"/> 12. Concrete |
| <input type="checkbox"/> 3. Cleaning Enclosed Drainage Systems | <input type="checkbox"/> 8. Street Surface Cleaning | <input type="checkbox"/> 13. Sewer Systems |
| <input type="checkbox"/> 4. Open Drainage Systems | <input type="checkbox"/> 9. Bridge Maintenance | <input type="checkbox"/> 14. Water Systems |
| <input type="checkbox"/> 5. Watercourses and Streams | <input type="checkbox"/> 10. Snow and Ice Control | <input type="checkbox"/> 15. Vegetation |

Describe how the project fits in the RRMP 4(d) Program:

Effect Determinations for ESA and EFH

If each of the questions in the preceding section resulted in a "No" response or if any of the questions were checked "Yes," but adequate justification can be provided to support a "no effect" determination, then check "No Effect" below. If this checklist cannot be used for Section 7 compliance (i.e., adequate justification cannot be provided or a "may effect" determination is anticipated), a separate biological assessment document is required.

- | | NMFS | USFWS | EFH Determination |
|--|-------------------|-------------------|---|
| <input checked="" type="checkbox"/> No Effect | <u>JB 2/23/21</u> | <u>JB 2/23/21</u> | <input checked="" type="checkbox"/> No Adverse Effect |
| <input type="checkbox"/> NLTAA - Date of Concurrence _____ | _____ | _____ | <input type="checkbox"/> Adverse Effect – Date of NMFS
concurrence _____ |
| <input type="checkbox"/> LTAA – Date BO Issued _____ | _____ | _____ | <input type="checkbox"/> Not Applicable |
| <input type="checkbox"/> RRMP 4(d) _____ | _____ | _____ | |

Part 6 - FHWA Comments

**LEWIS COUNTY – STATE ENVIRONMENTAL POLICY ACT
THRESHOLD DETERMINATION
DETERMINATION OF NONSIGNIFICANCE (DNS)**

LEAD AGENCY: Lewis County – Community Development Department

PROPONENT: Lewis County – Public Works (Ann Weckback)

FILE NUMBERS: SEP20-0032, SHD20-0006, G20-00045 – G20-00047 & FD20-00076

DESCRIPTION OF PROPOSAL: Lewis County Public Works proposes to install roadway safety improvements along portions of Centralia Alpha Road Y (MP 0.00 to 0.07), Centralia Alpha Road (MP 0.03 to 0.19, MP 0.44 to 0.50, MP 0.55 to 0.78, MP 0.94 to 1.09 [east side], MP 0.99 to 1.10 [west side], MP 1.13 to 1.29 [east side], and MP 1.15 to 1.32 [west side]), Highway 603 (MP 0.28 to 0.40 and 2.74 to 2.82), and Rogers Road (MP 0.10 to 0.23 and MP 1.12 to 1.38). The proposed safety improvements will include the installation and replacement of guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. Additional construction will include the construction of a catch basin at Centralia Alpha Road Y (approx. MP 0.06); the construction of a road approach at Centralia Alpha MP 0.08; installation of rail to connect existing guardrail to bridge rail at the Salzer Creek bridge on Centralia Alpha Rd MP 0.17; construction of two road approaches and a gabion wall near Highway 603 (approx. MP 2.75 and 2.79); construction of a gabion cribbing wall at Rogers Road (approx. MP 0.13 to 0.14); the extension of a culvert at Rogers Road MP 1.25; and work in an unnamed tributary of the Newaukum River along Rogers Road including replacement/upsizing of an approach culvert at MP 1.12, realignment of the channel from MP 1.12 to 1.16; extension of a culvert at MP 1.16; and a ditch regrade/realignment along Rogers Road from MP 1.16 to 1.38.

LOCATION OF PROPOSAL: The project area includes portions of various roadway segments throughout Lewis County; Centralia Alpha Road Y (MP 0.00 to 0.07), Centralia Alpha Road (MP 0.03 to 0.19, MP 0.44 to 0.50, MP 0.55 to 0.78, MP 0.94 to 1.09 [east side], MP 0.99 to 1.10 [west side], MP 1.13 to 1.29 [east side], and MP 1.15 to 1.32 [west side]), Highway 603 (MP 0.28 to 0.40 and MP 2.74 to 2.82), and Rogers Road (MP 0.10 to 0.23 and MP 1.12 to 1.38), Lewis County, WA – Sections 15, 16 & 22, Township 12 N, Range 02 W; Sections 1 & 2, Township 13 N, Range 03 W; Sections 7 & 8, Township 13 N, Range 02 W; Sections 8, 9, 16 & 17, Township 13 N, Range 02W, WM.

THRESHOLD DETERMINATION:

The lead agency for this proposal has determined that it does not have a probable, significant adverse impact on the environment. An environmental impact statement (EIS) is NOT required under RCW 43.21C.030(2)(c). This decision was made after review by Lewis County of a completed environmental checklist and other information on file with this agency and such information is adopted herein by reference. This information is available for public review upon request.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 30 days from the issue date below. Written comments may be submitted during the 30-day period.

Responsible Official:

Lee Napier, Director
Lewis County Community Development
2025 NE Kresky Avenue
Chehalis, Washington 98532

Contact Person:

Karen Witherspoon, AICP, Senior Project Planner

Karen Witherspoon

for Responsible Official

Date of Issue:

February 16, 2021

This SEPA determination may be appealed in writing to the Lewis County Hearings Examiner until 4 pm on March 25, 2021 at the Lewis County Community Development Permit Center. Appellants should be prepared to make specific factual objections. The appeal procedure is established in Lewis County Code (LCC) Section 17.110.130 and LCC Section 2.25.130. The administrative appeal fee is established by Resolution No. 20-420 of the Board of County Commissioners.



Federal Aid Project Number <i>HSIP-0005(479)</i>	NEPA Start Date 10-8-18	Intent of Submittal <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final <input type="checkbox"/> Re-Evaluate
Agency Lewis County Public Works	Project Title Highway Safety Improvement Program - Phase II	
County Lewis		
Beginning Terminus: See below	Township(s): See Attachment A	
Ending Terminus: See below	Range(s): See Attachment A	
Miles: See below	Section(s): See Attachment A	

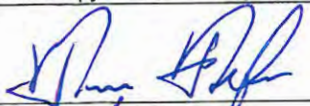

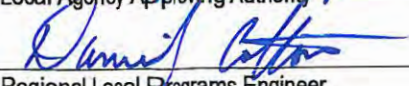
Part 1 - Project Description (Attach Vicinity Map)

Upgrade signs, improve clear zone (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and the replacement of existing guardrail ~~near the Harrison Avenue Bridge No 32 at MP 2.54, as well as~~ along various sections of the following roads: Galvin Road (MP 1.52 to 1.62), W Reynolds Avenue (MP 0.33 to 0.71), ~~Cooks Hill Road (MP 1.70 to 4.20), Summerside Drive (MP 0.00 to 0.06),~~ Centralia Alpha Road (MP 0.05 to 0.29), Highway 603 (MP 0.28 to 2.82 and MP 9.23 to 10.47), ~~Leonard Road (MP 0.10 to 1.83), Gish Rd (MP 4.04 to 4.07),~~ Westside Highway (MP 0.32 to 0.36). Refer to the attached Vicinity Map and Area of Potential Effects Maps for legal descriptions.

Part 2 - Categorical Exclusion & STIP

- Identify one CE from 23 CFR 771.117 (CE Guidebook - Appendix A) that fits the entire project C(23)
- Per 23 CFR Part 452(l) identify the subsequent project phase identified on the STIP? ROW Construction
- Attach a copy of the STIP page to the CE documentation form.

NEPA Approval Signatures

 Local Agency Approving Authority	<i>12-19-18</i> Date	 Local Programs Environmental Engineer	<i>2-27-19</i> Date
 Regional Local Programs Engineer	<i>1/17/19</i> Date	<i>CE Dec PA</i> Federal Highway Administration	<i>2-27-19</i> Date

Completed by (Print Official's Name): Ann Weckback	Telephone (include area code): (360) 740-1440	Email address: Ann.Weckback@lewiscountywa.gov
---	--	--

Part 3 - Permits, Approvals & Right of Way (ROW)

Yes No Permit of Approval	Yes No Permit of Approval
<input checked="" type="checkbox"/> <input type="checkbox"/> Corps of Engineers <input type="checkbox"/> Sec. 10 <input checked="" type="checkbox"/> Sec. 404 <input checked="" type="checkbox"/> Nationwide Type 14 - Linear Transportation <input type="checkbox"/> Individual Permit No. <input type="checkbox"/> <input checked="" type="checkbox"/> Coastal Zone Management Certification <input checked="" type="checkbox"/> <input type="checkbox"/> Critical Areas Ordinance (CAO) Permit <input type="checkbox"/> <input checked="" type="checkbox"/> Forest Practices Act Permit <input type="checkbox"/> <input checked="" type="checkbox"/> Hydraulic Project Approval <input type="checkbox"/> <input checked="" type="checkbox"/> Local Building or Site Development Permits <input checked="" type="checkbox"/> <input type="checkbox"/> Local Clearing and Grading Permit <input type="checkbox"/> <input checked="" type="checkbox"/> National Pollutant Discharge Elimination System (NPDES) Baseline General for Construction <input checked="" type="checkbox"/> <input type="checkbox"/> Shoreline Permit <input type="checkbox"/> <input checked="" type="checkbox"/> State Waste Discharge Permit <input checked="" type="checkbox"/> <input type="checkbox"/> TESC Plans Completed	<input type="checkbox"/> <input checked="" type="checkbox"/> Water Rights Permit <input checked="" type="checkbox"/> <input type="checkbox"/> Water Quality Certification - Section 401 Issued by Department of Ecology <input type="checkbox"/> <input checked="" type="checkbox"/> Tribal Permits(s) (if any) <input type="checkbox"/> <input checked="" type="checkbox"/> Other Permits (List) <input checked="" type="checkbox"/> <input type="checkbox"/> Is permanent ROW acquisition needed? If yes, amount needed: 0.2 (acres/sq. ft.) <input checked="" type="checkbox"/> <input type="checkbox"/> Is any temporary ROW needed? <input type="checkbox"/> <input checked="" type="checkbox"/> Is relocation required? <input type="checkbox"/> <input checked="" type="checkbox"/> Has ROW (property and/or property interests) been acquired <u>for this project</u> prior to the NEPA start date? If yes, documentation demonstrating compliance with 23 CFR 710.501 may be required. <input type="checkbox"/> <input checked="" type="checkbox"/> Is a detour required? If yes, please attach detour information.

U.S. Coast Guard Permitting

- Does the project propose any new or modify any existing bridges or culverts crossing a waterway? Yes No
- If yes, attach a copy of the jurisdictional determination email from the U.S. Coast Guard.

Other Federal Agencies - Does the project involve any federal properties, approvals or funding from other/additional federal agencies? Yes No If yes, please describe.

Part 4 - Environmental Considerations

Will the project involve work in or affect any of the following? Identify proposed mitigation. Attach additional pages or supplemental information if necessary.

1. Air Quality - Identify any anticipated air quality issues.

Is the project exempt from Air Quality conformity requirements? Yes No

a. If Yes, identify exemption - please refer to Appendix G in the CE Guidebook for a list of exemptions.

The project is exempt under Safety Projects - shoulder improvements, guardrail, median barriers, and crash attenuators.

b. Is the project included in the Metropolitan Transportation Plan? Yes No

If Yes, date Metropolitan Transportation Plan was adopted

c. Is the project located in an Air Quality Non-Attainment Area or Maintenance Area for carbon monoxide, ozone or PM 10 or PM 2.5? Yes No

Part 4 - Environmental Considerations

2 Critical and Sensitive Areas

a. Is this project within a sole source aquifer? D Yes . / No

If located within a sole source aquifer, is the project exempt from EPA approval?

If Yes, please list exemption

If no, date of EPA approval

b. Will this project impact Species/Habitat other than ESA listed species? D Yes . / No
(If No, explain your answer)

According to the WDFW priority habitat and species database priority species potentially within the project vicinity include the big brown bat, cavity-nesting ducks, eastern wild turkey, purple martin, osprey, and Vaux's swift. None of these species are anticipated to be adversely impacted by the project.

c. Is this project within one mile of a Bald Eagle nesting territory, winter concentration area or communal roost? . / Yes LJ No If Yes, the local agency must go to the US Fish & Wildlife website (<http://www.fws.gov/pacific/eagle/>) and work through the Do I Need a Permit? section.

d. Are wetlands present within the project area? / Yes D No

If yes, estimate the impact in acres ~~0.32 acres~~ 0.19 acres

Please attach a copy of the proposed mitigation plan.

3. Cultural Resources/Historic Structures - Identify any historic, archaeological or cultural resources present within the project's Area of Potential Effects.

Does the project fit into any of the exempt types of projects listed in Appendix J of the CE Guidebook? (If Yes, note exemption below) / Yes D No

Exempt under A-5, A-16 and A-18

If No:

Date of DAHP concurrence:

Date of Tribal consultation(s) (if applicable):

Adverse effects on cultural/historic resources? D Yes D No

If Yes, date of approved Section 106 MOA

4. Floodplains and Floodways

a. Is the project located in a 100-year floodplain? / Yes D No

b. If Yes, is the project located within a 100-year floodway? / Yes D No

c. Will the project impact a 100-year floodplain? (If Yes, describe impacts.) / Yes D No

The proposed project will add 40 CY of fill within the 100-year floodplain of the Chehalis River at the Galvin Road Bridge No 75 near MP 1.55; 50 CY of fill within the 100-year floodplain of Coffee Creek at the Reynolds Avenue Bridge No 64 near MP 0.52; and 1,028 CY of fill within the 100-year floodplain of Salzer Creek at the Centralia Alpha Road Bridge No 68 near MP 0.17. The proposed addition of fill within the floodplain has been evaluated and it was determined that surrounding landowners will not be impacted.

Part 4 - Environmental Considerations

5. Hazardous and Problem Waste - Identify potential sources and types(s).

- a. Does the project require excavation below the existing ground surface? Yes No
- b. Will groundwater be encountered? Yes No
- c. Will any properties be acquired as part of the is project? Yes No
- d. Is this site located in an undeveloped area (*i.e.* no buildings, parking, storage areas or agriculture)? Yes No
- e. Is the project located within a one-mile radius of a known Superfund Site? Yes No
- f. Is this project located within a ½-mile radius of a site or sites listed on any of the following Department of Ecology databases? (If Yes, check the appropriate boxes below.) Yes No
 - Voluntary Cleanup Program (VCP), State Cleanup Site (SCS), or Independent Cleanup Program (ICP)
 - Underground Storage Tank (UST)
 - Leaking Underground Storage Tank (LUST)
 - Confirmed and Suspected Contaminated Sites List (CSCSL)
- g. Has site reconnaissance (windshield survey) been performed? Yes No
(Please identify any properties not identified in the Ecology or ERS database search as an attachment -- name, address and property use).

A windshield survey was performed and no additional sites were identified.

- h. Based on the information above and project specific activities, is there a potential for the project to generate, acquire or encounter contaminated soils, groundwater or surface water? . . Yes No

Please explain:

Although the project is located within a 0.5 mile radius of the sites listed above and depicted on the attached maps the project does not have the potential to generate, acquire, or encounter contaminated soils, groundwater, or surface waters. The maximum excavation to occur as part of this project is 18 inches for the extension of culverts.

If you responded **Yes** to any of these questions above (5A – 5F or 5H), contact your Region LPE for assistance as a *right-sized* HazMat Analysis Report/Memorandum most likely will be required.

6. Noise

- a. Does the project involve constructing a new roadway? Yes No
- b. Is there a change in the vertical or horizontal alignment of the existing roadway? Yes No
- c. Does the project increase the number of through traffic lanes on an existing roadway? Yes No
- d. Is there a change in the topography? Yes No
- e. Are there auxiliary lanes extending 1½ miles or longer being constructed as part of this project? . Yes No
- f. If you answered Yes to any of the preceding questions, identify and describe any potential noise receptors within the project area and subsequent impacts to those noise receptors. Please attach a copy of the noise analysis if required.

If impacts are identified, describe proposed mitigation measures.

Part 4 - Environmental Considerations

7. 4(f)/6(f) Resources: parks, recreation areas, wildlife refuges, historic properties, wild & scenic rivers, scenic byways

a. Please identify any 4(f) properties within the project limits and the areas of impacts.

There are no 4(f) properties within the project limits or the areas of impact.

b. Please identify any properties within the project limits that used funds from the Land & Water Conservation Fund Act.

There are no properties within the project limits that used funds from the Land and Water Conservation Fund Act.

c. Please list any Wild and Scenic Rivers and Scenic Byways within the project limits.

There are no Wild and Scenic Rivers or Scenic Byways within the project limits.

8. Agricultural Lands -

a. Are there agricultural lands within 300 feet of the project limits? Yes No

If Yes, please describe impacts.

While there are agricultural lands within 300 feet of the project limits no such lands will be impacted by the proposed project.

b. Are impacted lands considered to be unique and prime farmland? Yes No

If Yes, date of project review by Natural Resource Conservation Service (NRCS)

9. Rivers, Streams (continuous or intermittent) or Tidal Waters

a. Identify all waterbodies within 300 feet of the project limits or that will otherwise be impacted.

While no work will occur below the ordinary high water line of any waterbodies work will occur within the 100-year floodplain of ~~Dry Creek~~, the Chehalis River, Coffee Creek, and Salzer Creek.

b. Identify stream crossing structures by type.

Guardrail will be installed/modified on/adjacent to the ~~Harrison Rd Bridge No 32 at MP 2.54~~; Galvin Rd Bridges- No 75 at MP 1.55 and No 112 at MP 1.23; Reynolds Ave Bridge No 64 at MP 0.52; Salzer Creek Rd Bridge No 68 at MP 0.17; ~~Leonard Rd Bridge No 70 at MP 0.32, & 3 stream culverts.~~

10. Tribal Lands - Identify whether the project will occur within any Tribal lands, including reservation, trust and fee lands. Please do not list usual and accustomed areas.

There are no tribal lands within the project area nor will any such lands be impacted by the proposed project.

Part 4 - Environmental Considerations

11. Water Quality/Stormwater

a. Will this project's proposed stormwater treatment be consistent with either WSDOT's HRM, DOE's stormwater management manual for eastern/western Washington or a local agency equivalent manual? Yes No

If No, explain proposed water quality/quantity treatment for the new and any existing impervious surface associated with the proposed project.

b. Amount of existing impervious surface within the project limits: N/A

c. Net new impervious surface to be created as a result of this project: N/A

12. Previous Environmental Commitments

Describe previous environmental commitments that may affect or be affected by the project - If any.

Lewis County is responsible for maintaining the roadway and safety appurtenances within the County ROW.

13. Environmental Justice

Does the project meet any of the exemptions noted in Appendix L of the NEPA CE Guidebook? Yes No

If Yes, please note the exemption and appropriate justification in the space below.

If No, are minority or low-income populations located within the limits of the project's potential impacts? Yes No

If No, attach appropriate data to support findings. If Yes, describe impacts and attach appropriate supporting documentation. Findings should be confirmed using at least two information sources. Please refer to the NEPA CE Guidebook for more information.

Part 5 - Biological Assessments and EFH Evaluations

1. Do any listed species potentially occur in the project's action area and/or is any designated critical habitat present within the project's action area? (If No, attach species listings.) ✓ Yes No

Affected ESA Listed Species	2. Will any construction work occur within 0.25 mile of any of the following?	3. Does the project involve blasting, pile driving, concrete sawing, rock-drilling or rock-scaling activity within one mile of any of the following?
Oregon Spotted Frog proposed critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Yellow-billed Cuckoo suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Spotted Owl management areas, designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Marbled Murrelet nest or occupied stand, designated critical habitat or suitable habitat?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes ✓ No
Western Snowy Plover designated critical habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Is the project within 0.25 mile of marine waters? If Yes explain potential effects on Killer Whales and on Marbled Murrelet foraging areas.	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Killer Whale designated critical habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Grizzly Bear suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Gray Wolf suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Canada Lynx habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Columbia White-tailed Deer suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Woodland Caribou habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Streaked Horned Lark designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Taylor's Checkerspot designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Mazama Pocket Gopher designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Eulachon designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Rockfish proposed critical habitat or suitable habitat?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
A mature coniferous or mixed forest stand?	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No

- 4. Will the project involve any in-water work? Yes ✓ No
- 5. Will any construction work occur within 300 feet of any perennial or intermittent waterbody that either supports or drains to waterbody supporting listed fish? ✓ Yes No
- 6. Will any construction work occur within 300 feet of any wetland, pond or lake that is connected to any permanent or intermittent waterbody? ✓ Yes No
- 7. Does the action have the potential to directly or indirectly impact designated critical habitat for salmonids (including adjacent riparian zones)? Yes ✓ No
- 8. Will the project discharge treated or untreated stormwater runoff or utilize water from a waterbody that supports or drains into a listed-fish supporting waterbody? Yes ✓ No
- 9. Will construction occur outside the existing pavement? If Yes go to 9a. ✓ Yes No
- 9a. Will construction activities occurring outside the existing pavement involve clearing, grading, filling or modification of vegetation or tree-cutting? ✓ Yes No
- 10. Are there any Federally listed Threatened or Endangered plant species located within the project limits? If Yes, please attach a list of these plant species within the action area.. Yes ✓ No
- 11. Does a mature coniferous or mixed forest stand occur within 200' of the project site? Yes ✓ No

Analysis for No Effects Determination - If there are any Yes answers to questions in Part 5, additional analysis is required. Attach additional sheets if needed.

The proposed project is not anticipated to affect any NMFS listed species as no in-water work will occur. No USFWS species are anticipated to be impacted as there is no suitable habitat for any such species nor any designated critical habitat within the project area. ~~While the WDFW GIS data shows portions of the proposed project within Sections adjacent to Occurrence Points for the Marbled Murrelet these areas were reviewed and it was determined that there is no suitable habitat present within 0.25 miles of the proposed work.~~

Analysis for RRMP ESA 4(d) determination for NMFS - A local agency must be certified by the Regional Road Maintenance Forum to utilize 4(d).

Maintenance Category (check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> 1. Roadway Surface | <input type="checkbox"/> 6. Stream Crossings | <input type="checkbox"/> 11. Emergency Slide/Washout Repair |
| <input type="checkbox"/> 2. Enclosed Drainage Systems | <input type="checkbox"/> 7. Gravel Shoulders | <input type="checkbox"/> 12. Concrete |
| <input type="checkbox"/> 3. Cleaning Enclosed Drainage Systems | <input type="checkbox"/> 8. Street Surface Cleaning | <input type="checkbox"/> 13. Sewer Systems |
| <input type="checkbox"/> 4. Open Drainage Systems | <input type="checkbox"/> 9. Bridge Maintenance | <input type="checkbox"/> 14. Water Systems |
| <input type="checkbox"/> 5. Watercourses and Streams | <input type="checkbox"/> 10. Snow and Ice Control | <input type="checkbox"/> 15. Vegetation |

Describe how the project fits in the RRMP 4(d) Program:

Effect Determinations for ESA and EFH

If each of the questions in the preceding section resulted in a "No" response or if any of the questions were checked "Yes," but adequate justification can be provided to support a "no effect" determination, then check "No Effect". If this checklist cannot be used for Section 7 compliance (i.e., adequate justification cannot be provided or a "may effect" determination is anticipated), a separate biological assessment document is required.

- | | | | |
|--|-------------------|-------------------|---|
| | NMFS | USFWS | EFH Determination |
| <input checked="" type="checkbox"/> No Effect | <i>JB 1-29-19</i> | <i>JB 1-29-19</i> | <input checked="" type="checkbox"/> No Adverse Effect |
| <input type="checkbox"/> NLTAA - Date of Concurrence | | | <input type="checkbox"/> Adverse Effect -
Date of NMFS concurrence |
| <input type="checkbox"/> LTAA - Date BO issued | | | <input type="checkbox"/> Not Applicable |
| <input type="checkbox"/> RRMP 4(d) | | | |

Part 6- FHWA Comments



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, SEATTLE DISTRICT
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

May 14, 2019

Ms. Ann Weckback
Lewis County Public Works
2025 Kresky Avenue
Chehalis, Washington 98532

Reference: NWS-2019-67
Lewis County Public
Works (HSIP Phase II --
CRP 2185B)

Dear Ms. Weckback:

We have reviewed your application to discharge fill in no more than 0.32 acre of wetlands and 0.05 acre of roadside drainages to install roadway safety improvements in Lewis County, Washington. Based on the information you provided to us, Nationwide Permit (NWP) 14, *Linear Transportation Projects* (Federal Register January 6, 2017, Vol. 82, No. 4), authorizes your proposal as depicted on the enclosed revised drawings dated February 20, 2019.

In order for this authorization to be valid, you must ensure the work is performed in accordance with the enclosed *NWP 14, Terms and Conditions* and the following special conditions:

- a. You shall implement and abide by the *Wetland Mitigation Report, Highway Safety Improvements Program-Phase II, CRP#2185B*, dated January 8, 2019, and obtain 0.361 mitigation bank credits from the Chehalis Basin Mitigation Bank, Hanaford Valley Site, and 0.003 mitigation bank credits from the Coweeman River Mitigation Bank, in accordance with Tables 5 and 6 of the Bank Use Plan.
- b. You shall obtain from the mitigation bank sponsors, documentation of the completed mitigation bank transactions. You shall submit to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, documentation on the completed mitigation bank transactions prior to performing work in waters of the U.S. authorized by this permit. All submittals must prominently display the reference number NWS-2019-67.

c. You shall install and maintain sediment and erosion controls during construction at the site until all disturbed soils have been vegetated or otherwise stabilized.

The Federal Highway Administration (FHWA) completed National Historic Preservation Act consultation for the proposed activity. The FHWA completed no effect determinations for Section 7 of the Endangered Species Act (ESA), and Magnuson Stevens Act essential fish habitat (EFH) for its involvement in the proposed activity. For the purpose of this Department of the Army authorization, we have determined this project will comply with the requirements of these laws provided you comply with all of the permit conditions. We have determined the permit action is sufficiently addressed in their ESA and EFH documents. By this letter we are advising you and the Services, in accordance with 50 CFR 402.07 and 50 CFR 600.920(b), that this agency has served as the lead Federal agency for the ESA and EFH consultation responsibilities for the activity described above.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification (WQC) requirements for this NWP. No further coordination with Ecology for WQC is required.

You have not requested a jurisdictional determination for this proposed project. If you believe the U.S. Army Corps of Engineers does not have jurisdiction over all or portions of your project you may request a preliminary or approved jurisdictional determination (JD). If one is requested, please be aware that we may require the submittal of additional information to complete the JD and work authorized in this letter may not occur until the JD has been completed.

Our verification of this NWP authorization is valid until March 18, 2022, unless the NWP is modified, reissued, or revoked prior to that date. If the authorized work has not been completed by that date and you have commenced or are under contract to commence this activity before March 18, 2022, you will have until March 18, 2023, to complete the activity under the enclosed terms and conditions of this NWP. Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act. You must also obtain all local, State, and other Federal permits that apply to this project.

You are cautioned that any change in project location or plans will require that you submit a copy of the revised plans to this office and obtain our approval before you begin work. Deviating from the approved plans could result in the assessment of criminal or civil penalties.

Upon completing the authorized work, you must fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit*. Thank you for your cooperation during the permitting process. We are interested in your experience with our Regulatory Program and

encourage you to complete a customer service survey. These documents and information about our program are available on our website at www.nws.usace.army.mil, select "Regulatory Branch, Permit Information" and then "Contact Us." If you have any questions, please contact me at evan.g.carnes@usace.army.mil or (206) 316-3049

Sincerely,

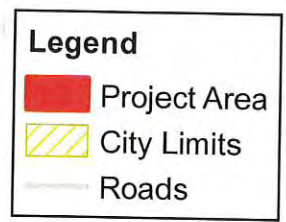
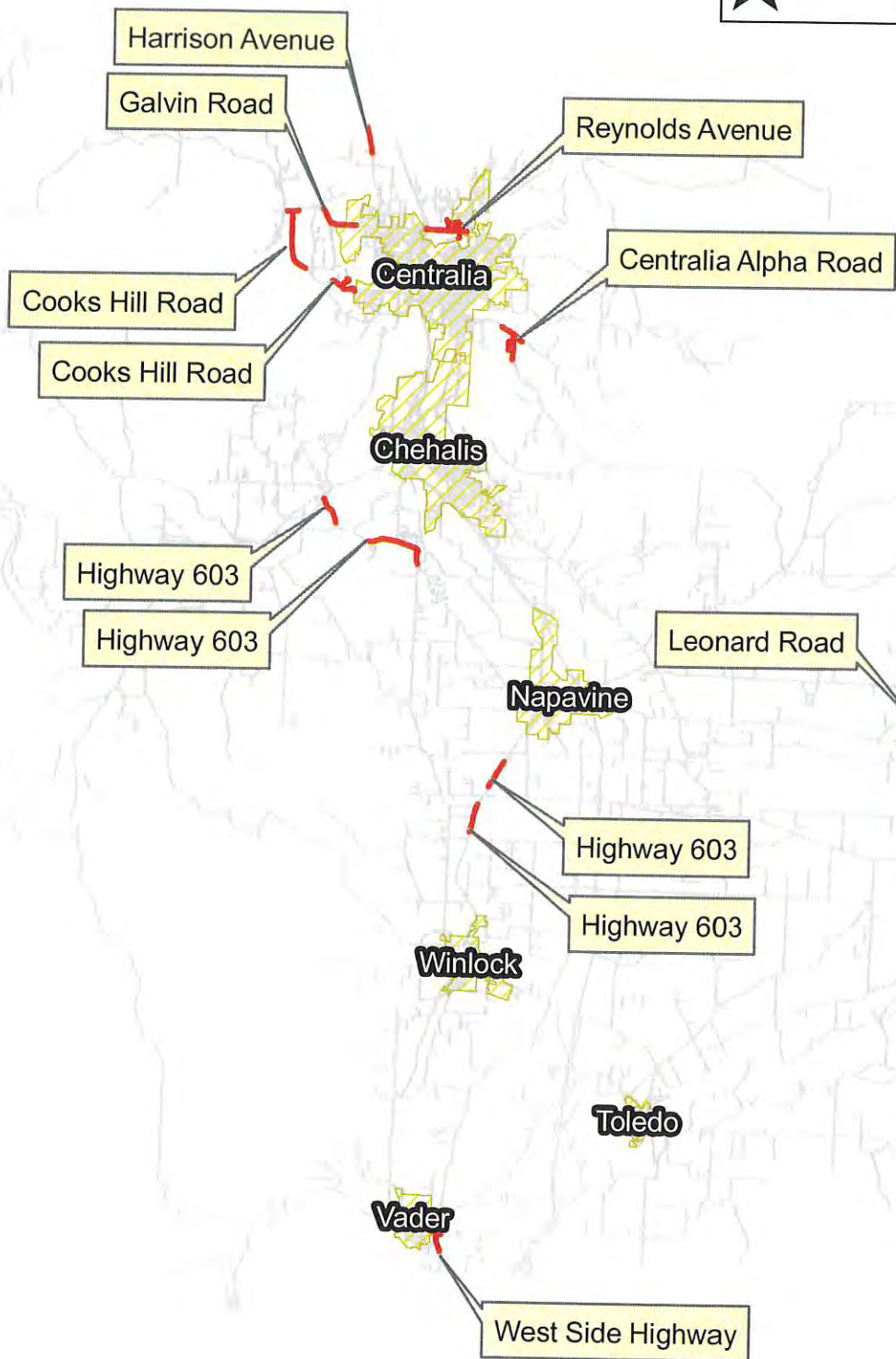
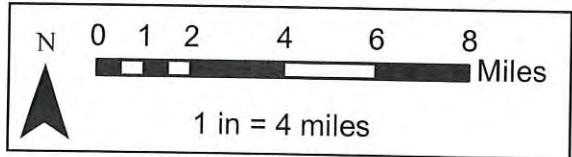
A handwritten signature in black ink that reads "Evan G. Carnes". The signature is written in a cursive style with a large, stylized initial "E".

Evan G. Carnes, Project Manager
Regulatory Branch

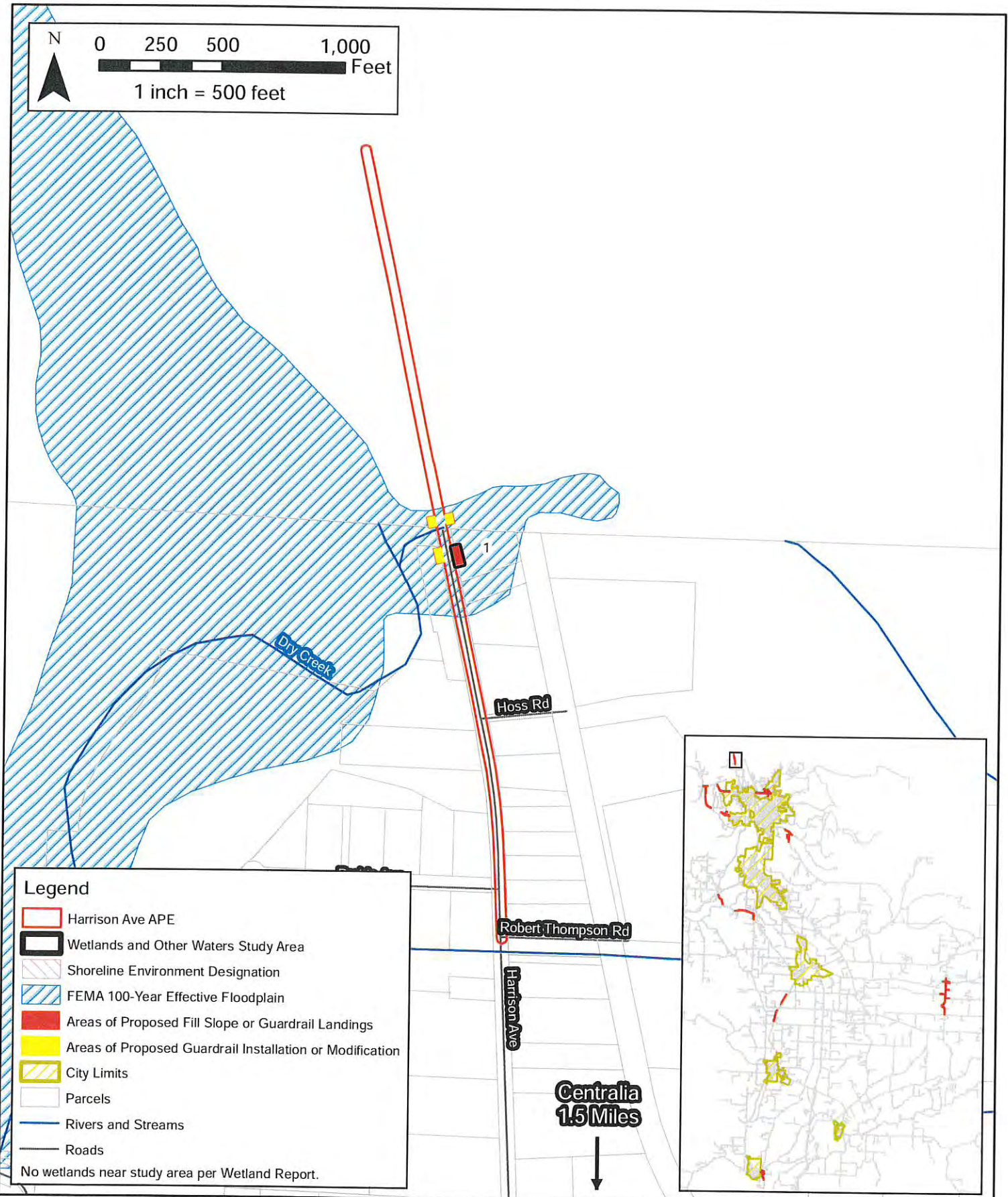
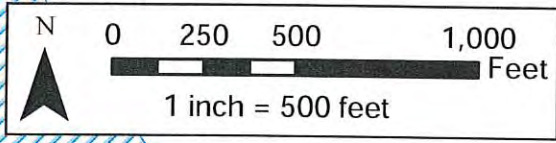
Enclosures

cc:

Washington Department of Ecology, Federal Permit Coordinator: ecyrefedpermits@ecy.wa.gov
U.S. Fish and Wildlife Service, wfwotap@fws.gov
National Marine Fisheries Service, frankie.johnson@noaa.gov



REFERENCE NUMBER: NWS-2019-67	PROJECT LOCATION: COUNTYWIDE	PROPOSED PROJECT: HSIP II- CRP2185B
APPLICANT: LEWIS COUNTY PUBLIC WORKS	LAT/LONG: N/A	IN: N/A
ADJACENT PROPERTY OWNERS: N/A	DATUM: NAD_83	NEAR/AT: N/A
	SHEET 1 OF 41	COUNTY: LEWIS
	DATE: Revised 2/20/2019	STATE: WA

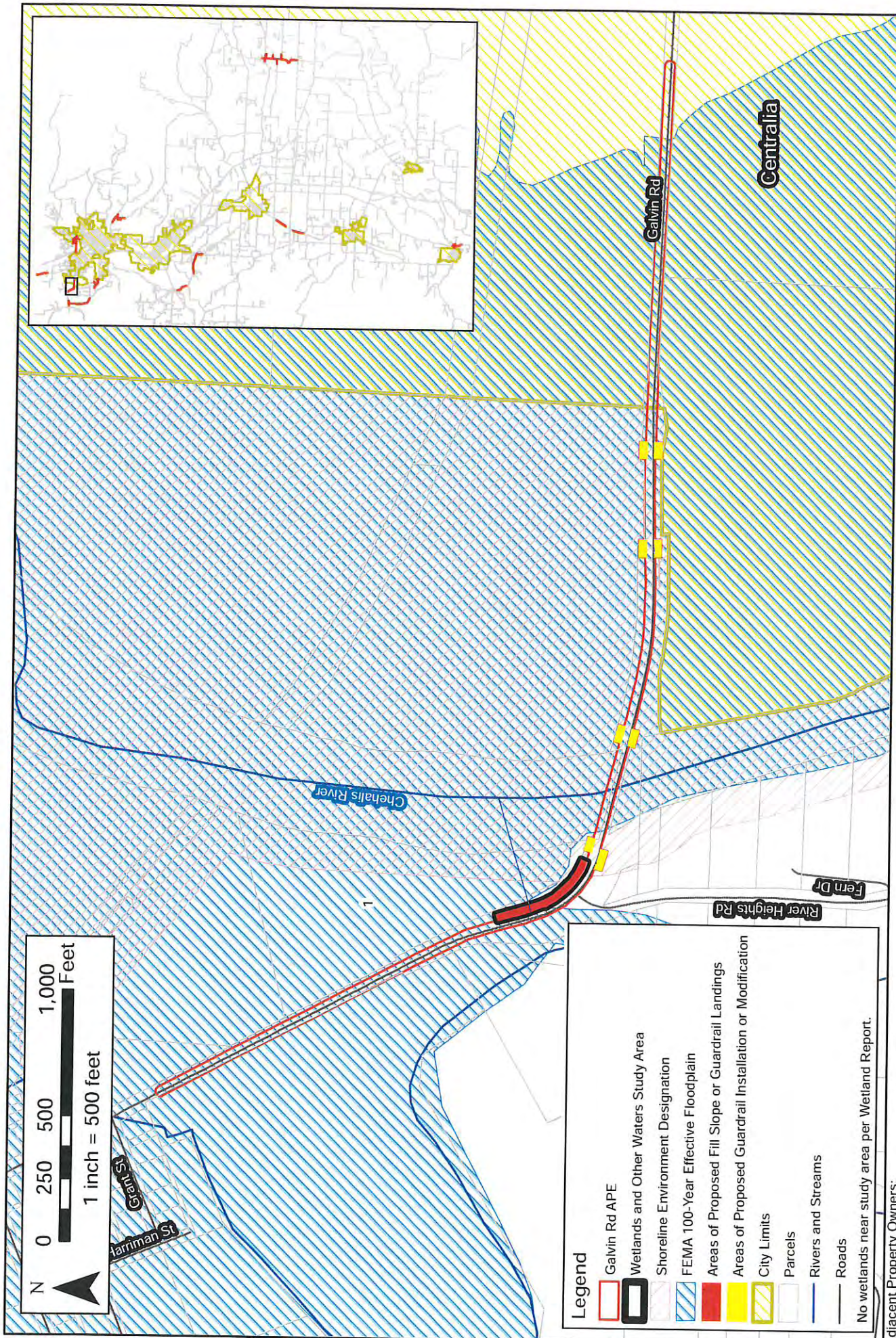


Legend

- Harrison Ave APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Parcels
- Rivers and Streams
- Roads

No wetlands near study area per Wetland Report.

Adjacent Property Owners:
 1.) Parcel #023725-001-000 Johnson, Damon & Derek

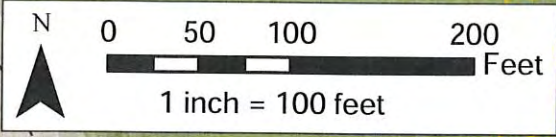


Legend

- Galvin Rd APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Parcels
- Rivers and Streams
- Roads

No wetlands near study area per Wetland Report.

Adjacent Property Owners:
 1.) Parcel #023915-001-003 Pope, Leo

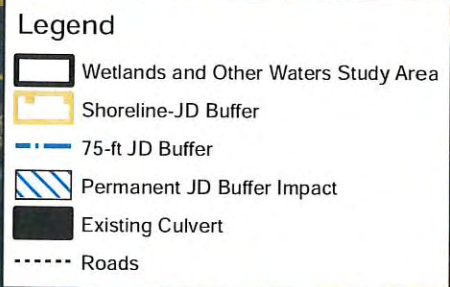
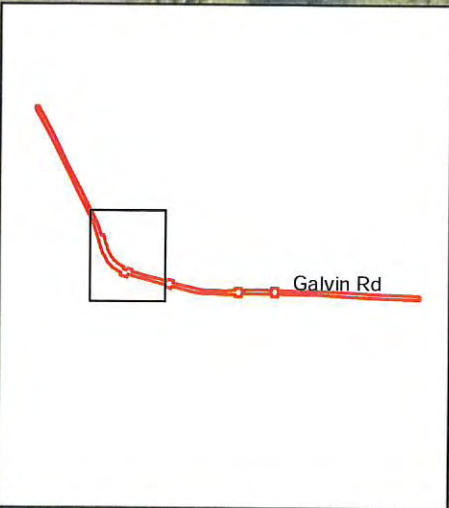


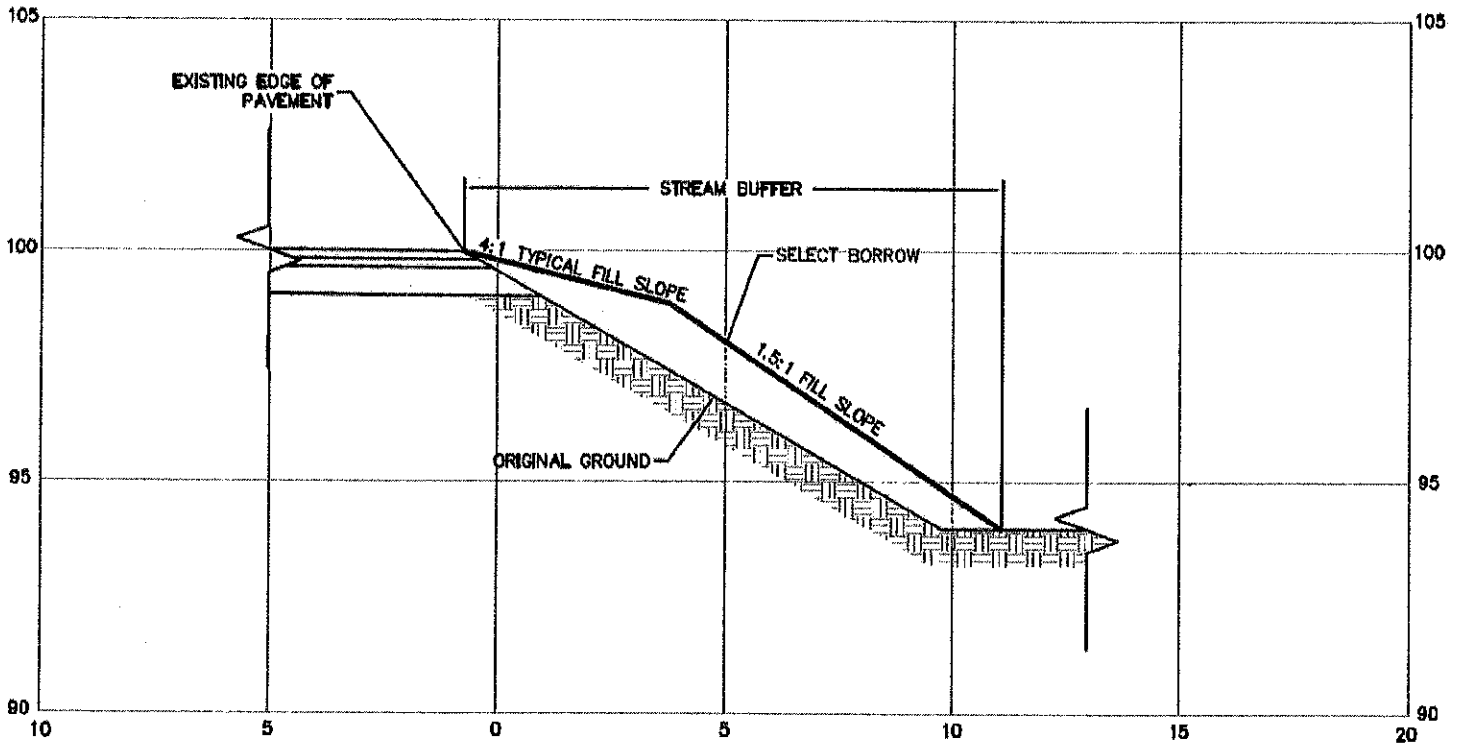
Unnamed Tributary to Chehalis River 1
 75-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 2,828 sq ft

End MP 1.60

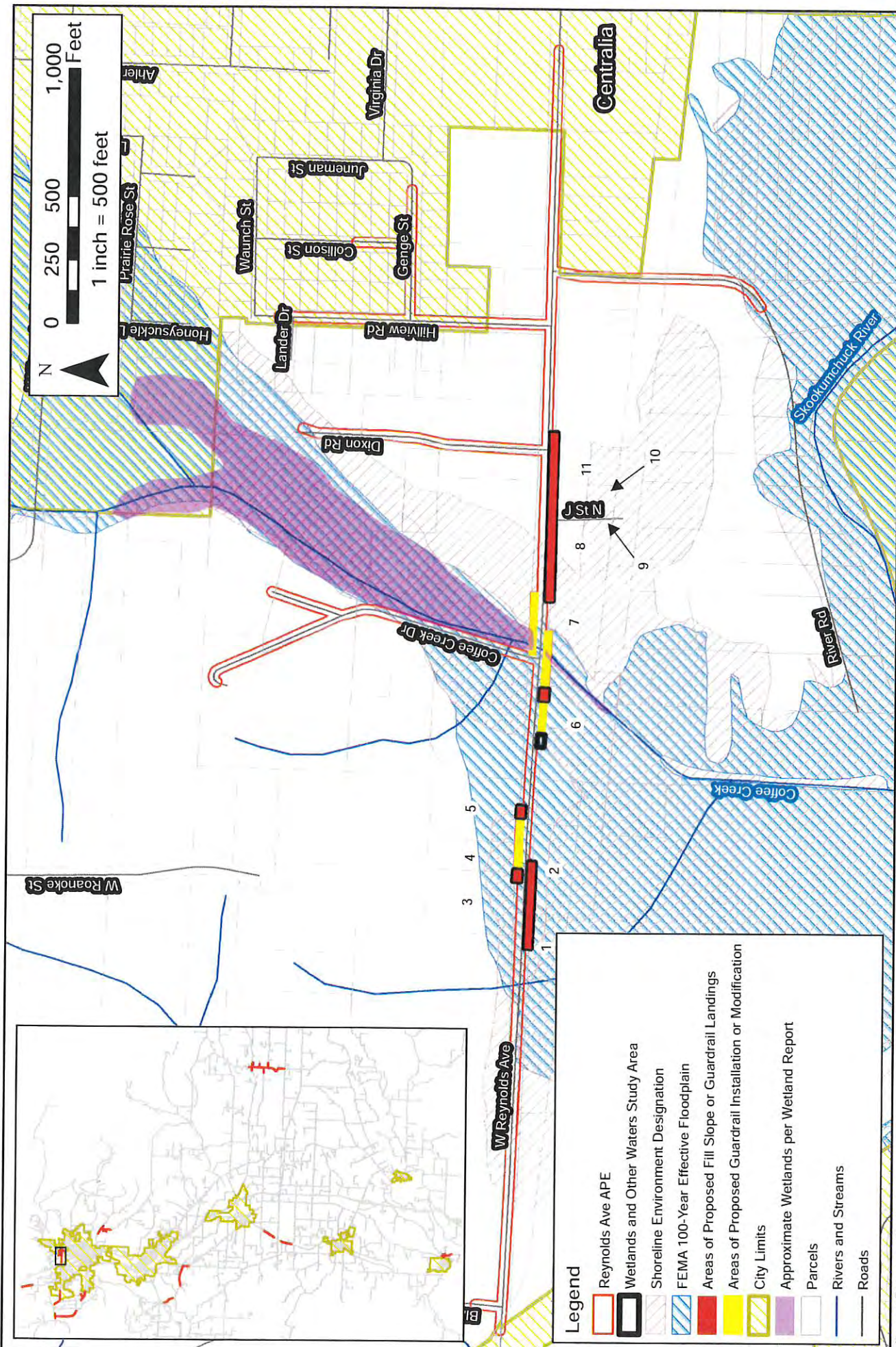
Chehalis River
 Shoreline Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 935 sq ft

Start MP 1.52





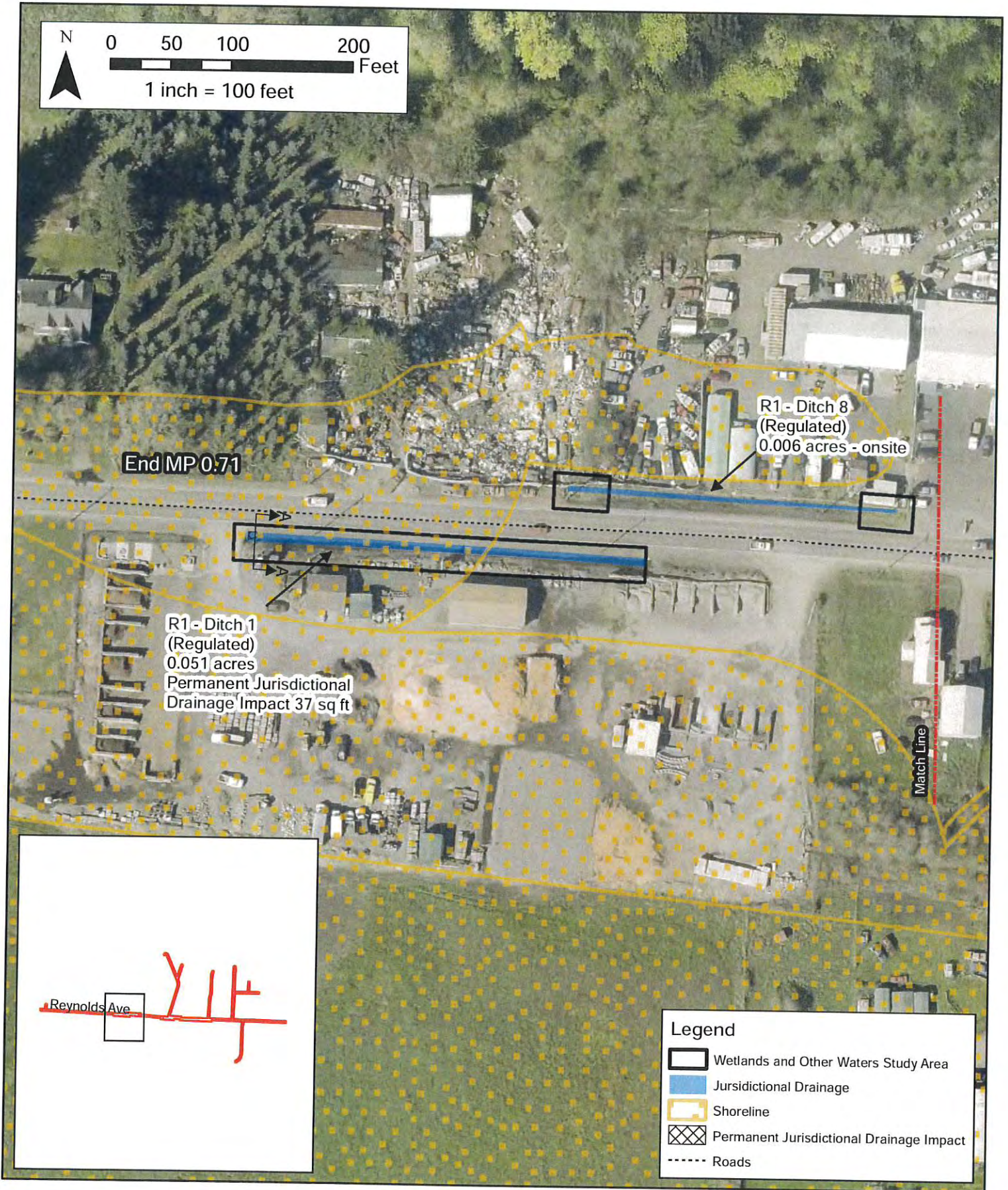
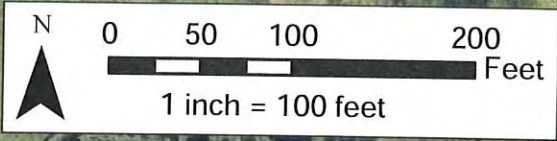
GALVIN RD MP 1.52 RIGHT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED

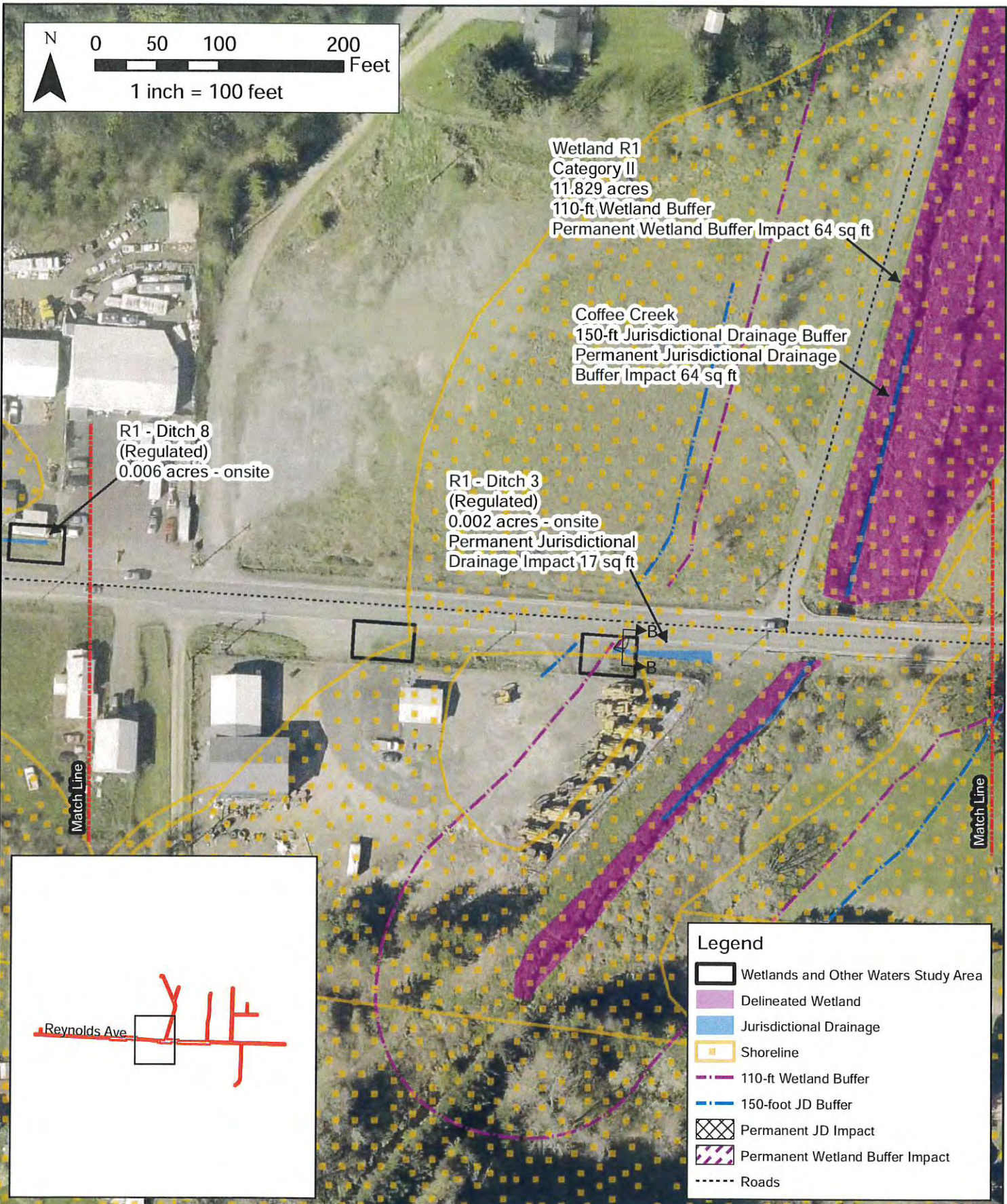
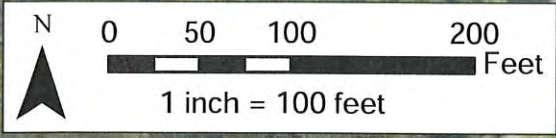


- Legend**
- 1.) Reynolds Ave APE
 - 2.) Wetlands and Other Waters Study Area
 - 3.) Shoreline Environment Designation
 - 4.) FEMA 100-Year Effective Floodplain
 - 5.) Areas of Proposed Fill Slope or Guardrail Landings
 - 6.) Areas of Proposed Guardrail Installation or Modification
 - 7.) City Limits
 - 8.) Approximate Wetlands per Wetland Report
 - 9.) Parcels
 - 10.) Rivers and Streams
 - 11.) Roads

Adjacent Property Owners:

- 1.) Parcel #021044-002-000 Kode, William & Morris, Dayna
- 2.) Parcel #021044-003-000 Kode, William & Morris, Dayna
- 3.) Parcel #023619-001-004 Lewis County
- 4.) Parcel #023619-001-003 Saade, Jieres & Deborah, et al
- 5.) Parcel #023619-001-002 Saade, Jieres & Deborah, et al
- 6.) Parcel #021035-017-001 Gillum, Joseph & Kerrie
- 7.) Parcel #021033-001-002 Ashbeck, Jeremy
- 8.) Parcel #021033-003-000 Milton, John & Clara
- 9.) Parcel #021033-004-000 Milton, John & Barbara Ann
- 10.) Parcel #021033-002-000 Callies, Rickie & Lana
- 11.) Parcel #021023-002-000 606 Reynolds, LLC





Wetland R1
 Category II
 11.829 acres
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 64 sq ft

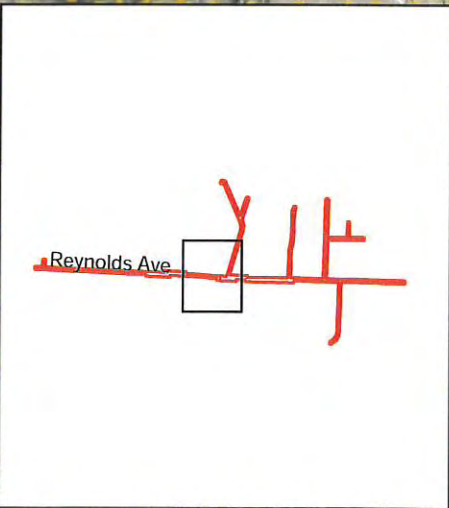
Coffee Creek
 150-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage Buffer Impact 64 sq ft

R1 - Ditch 8
 (Regulated)
 0.006 acres - onsite

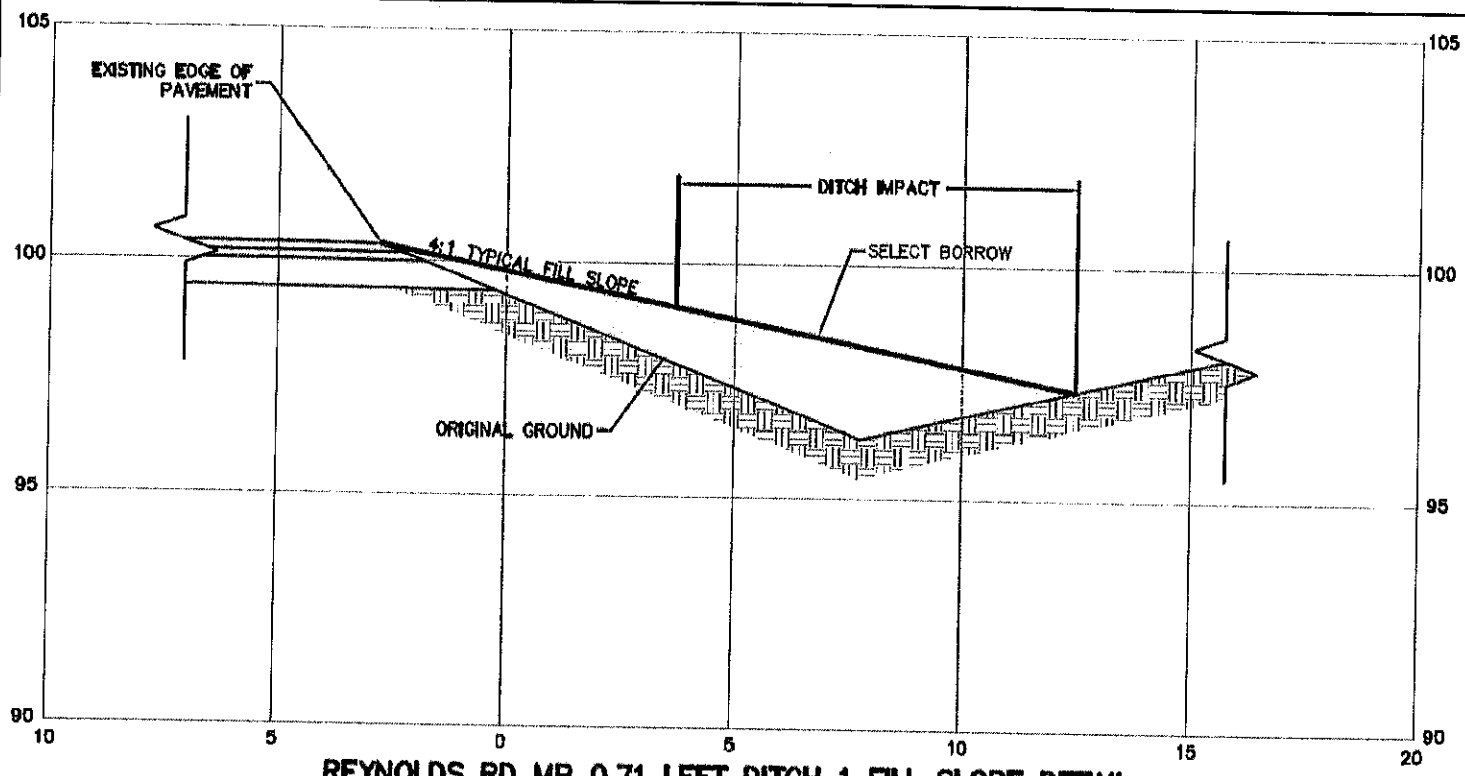
R1 - Ditch 3
 (Regulated)
 0.002 acres - onsite
 Permanent Jurisdictional Drainage Impact 17 sq ft

Match Line

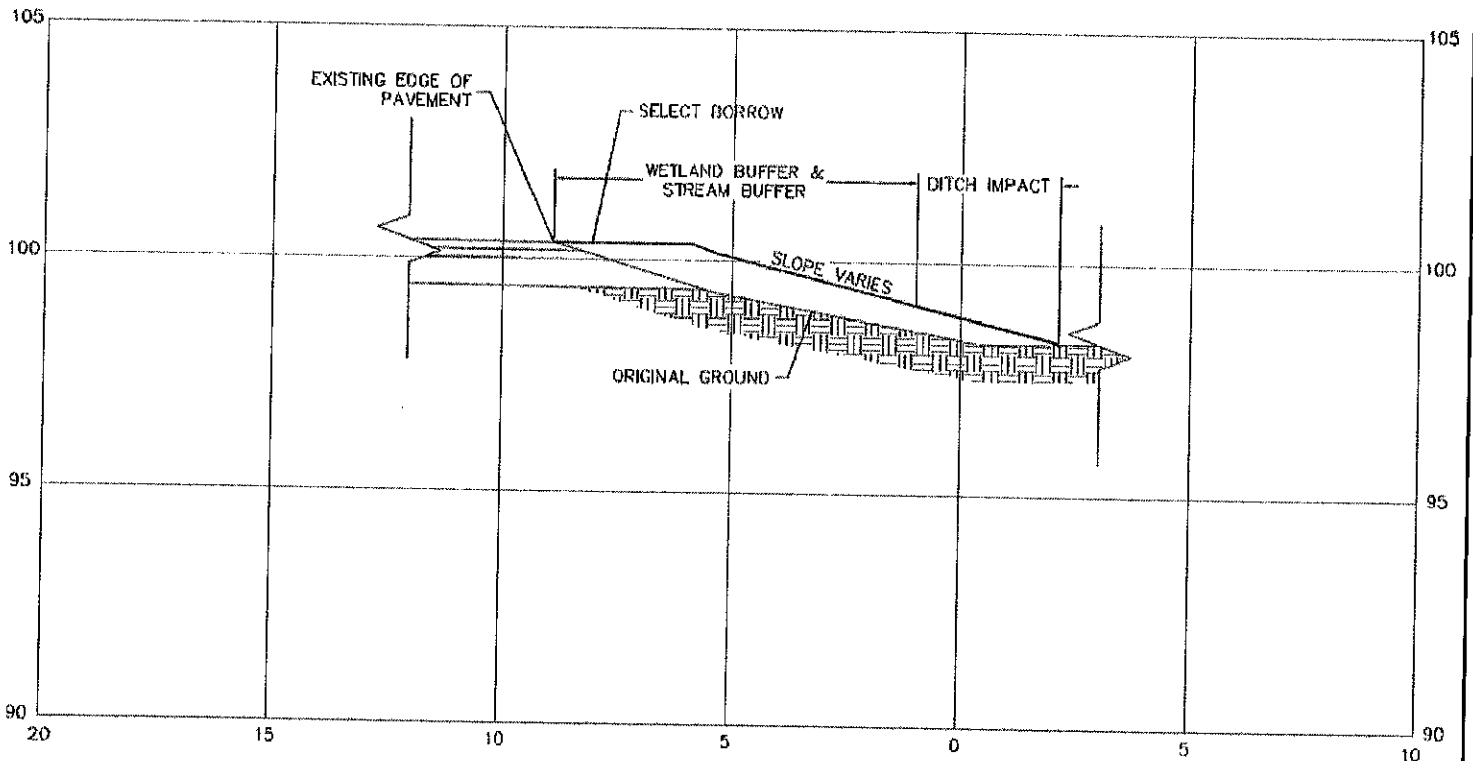
Match Line



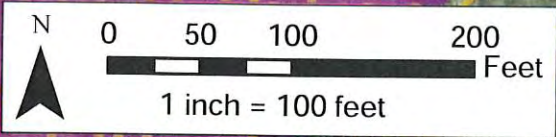
Legend	
	Wetlands and Other Waters Study Area
	Delineated Wetland
	Jurisdictional Drainage
	Shoreline
	110-ft Wetland Buffer
	150-foot JD Buffer
	Permanent JD Impact
	Permanent Wetland Buffer Impact
	Roads



REYNOLDS RD MP 0.71 LEFT DITCH 1 FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



REYNOLDS RD MP 0.33 DITCH 3 LEFT FILL SLOPE DETAIL
SECTION B-B
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



Wetland R1
 Category II
 11.829 acres
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 64 sq ft

Coffee Creek
 150-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 64 sq ft

R1 - Ditch 4
 (Regulated)
 0.029 acres - onsite
 Permanent Jurisdictional
 Drainage Impact 256 sq ft

R1 - Ditch 5
 (Regulated)
 0.007 acres
 Permanent Jurisdictional
 Drainage Impact 34 sq ft

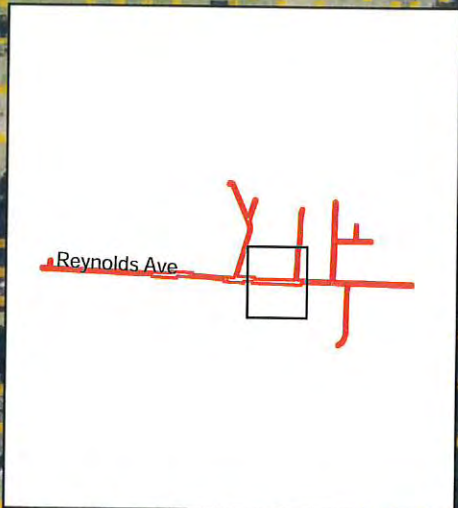
R1 - Ditch 6
 (Regulated)
 0.023 acres
 Permanent Jurisdictional
 Drainage Impact 108 sq ft

R1 - Ditch 7
 (Regulated)
 0.003 acres

Shoreline Outside Other Critical Areas
 Permanent Shoreline Impact 220 sq ft

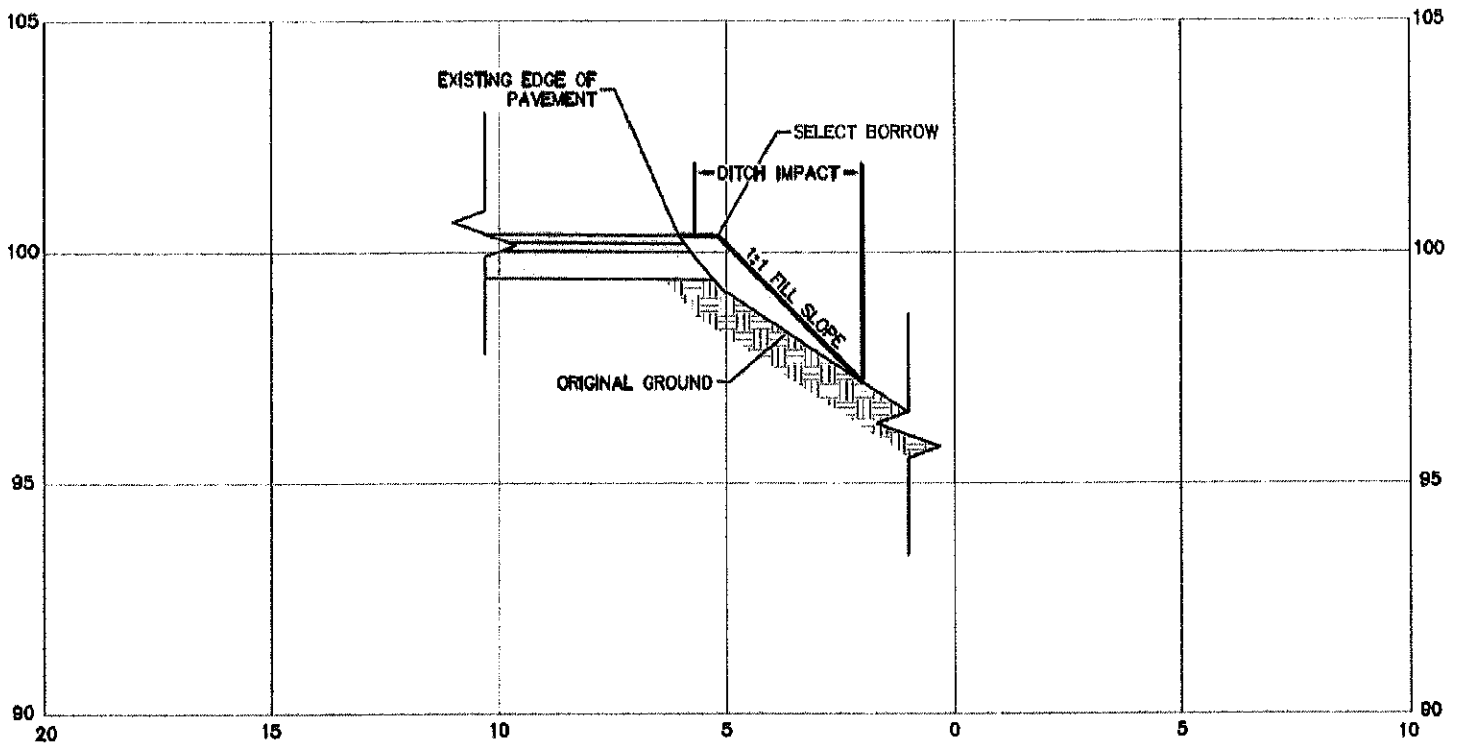
Start MP 0.33

Match Line



Legend

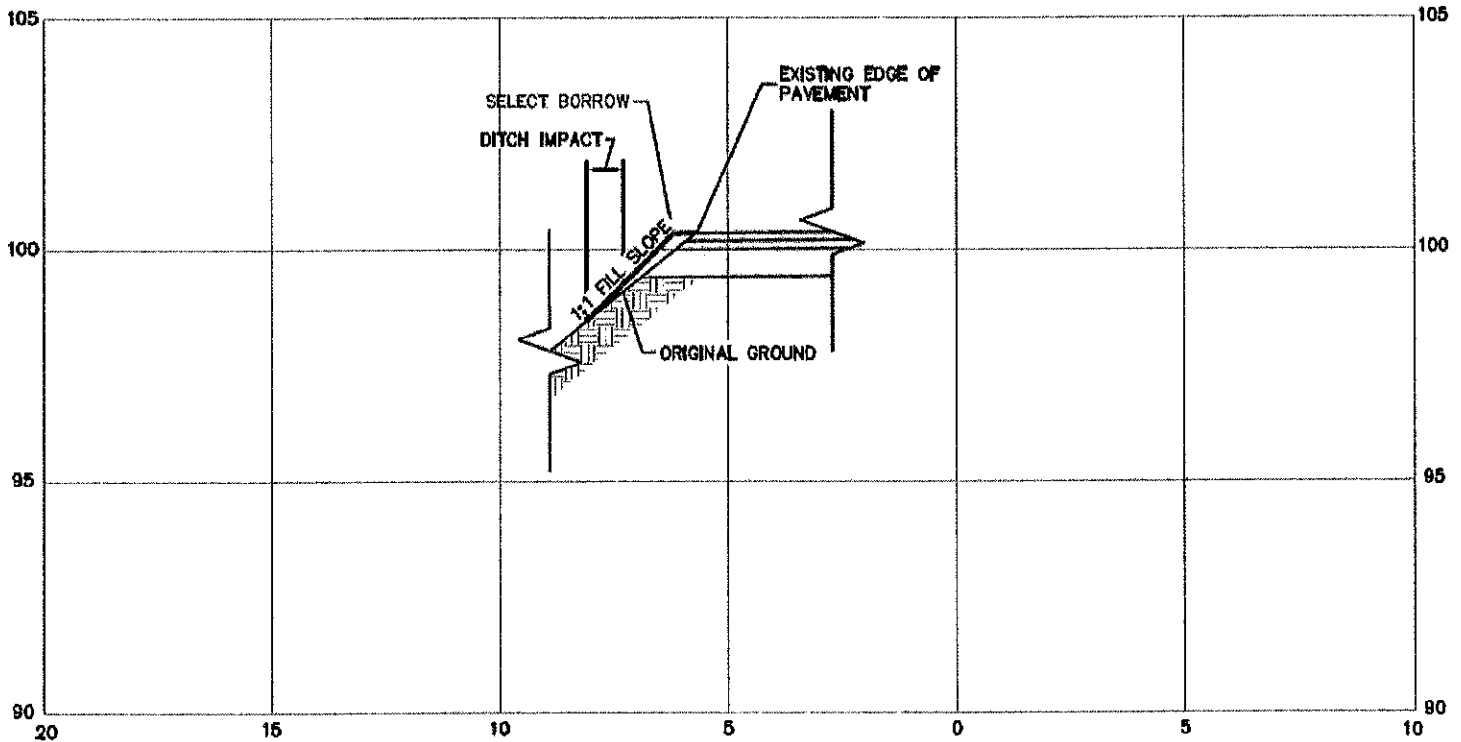
- Delineated Wetland
- Jurisdictional Drainage
- Shoreline
- 110-ft Wetland Buffer
- 150-ft JD Buffer
- Permanent JD Impact
- Shoreline Impact Outside Other Critical Areas
- Roads



REYNOLDS RD MP 0.33 LEFT DITCH 4 FILL SLOPE DETAIL

SECTION C-C

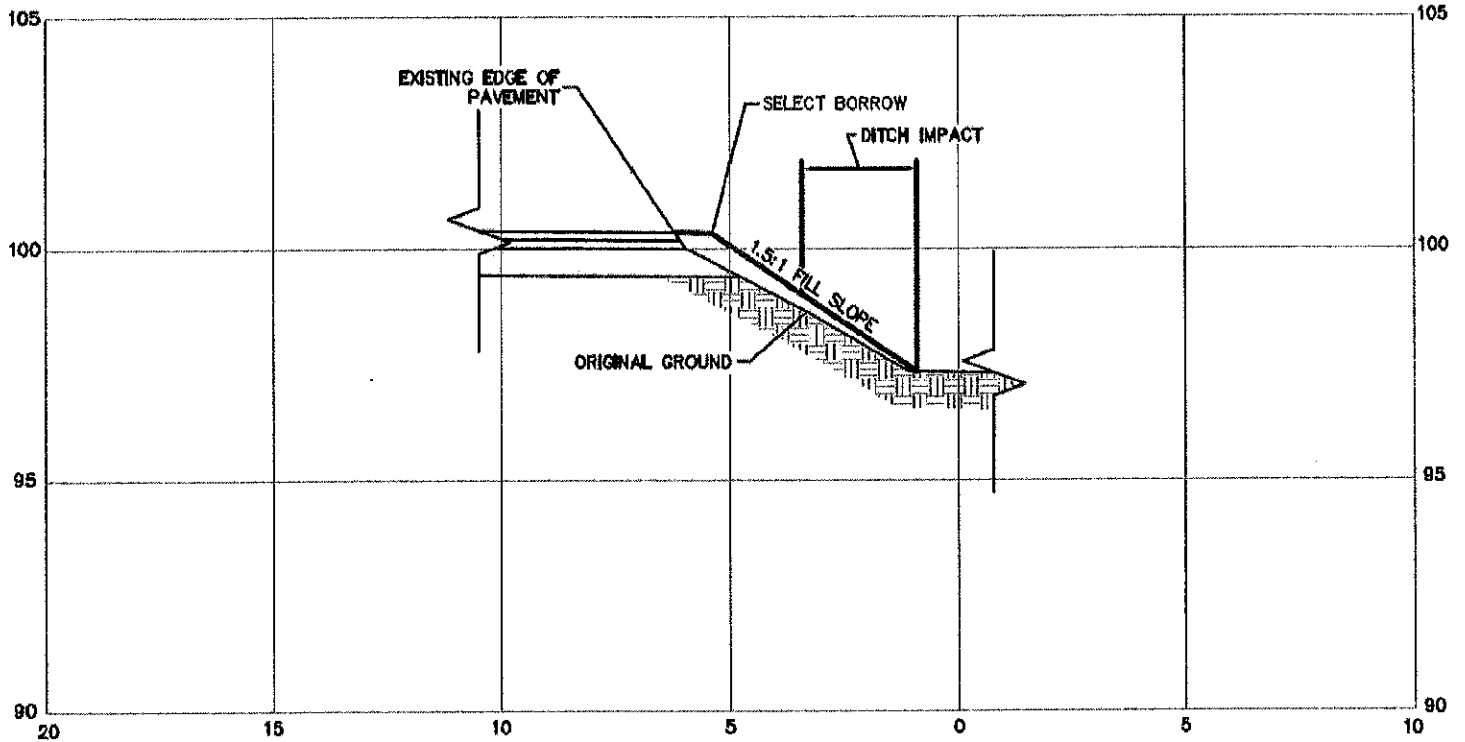
VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



REYNOLDS RD MP 0.33 DITCH 5 LEFT FILL SLOPE DETAIL

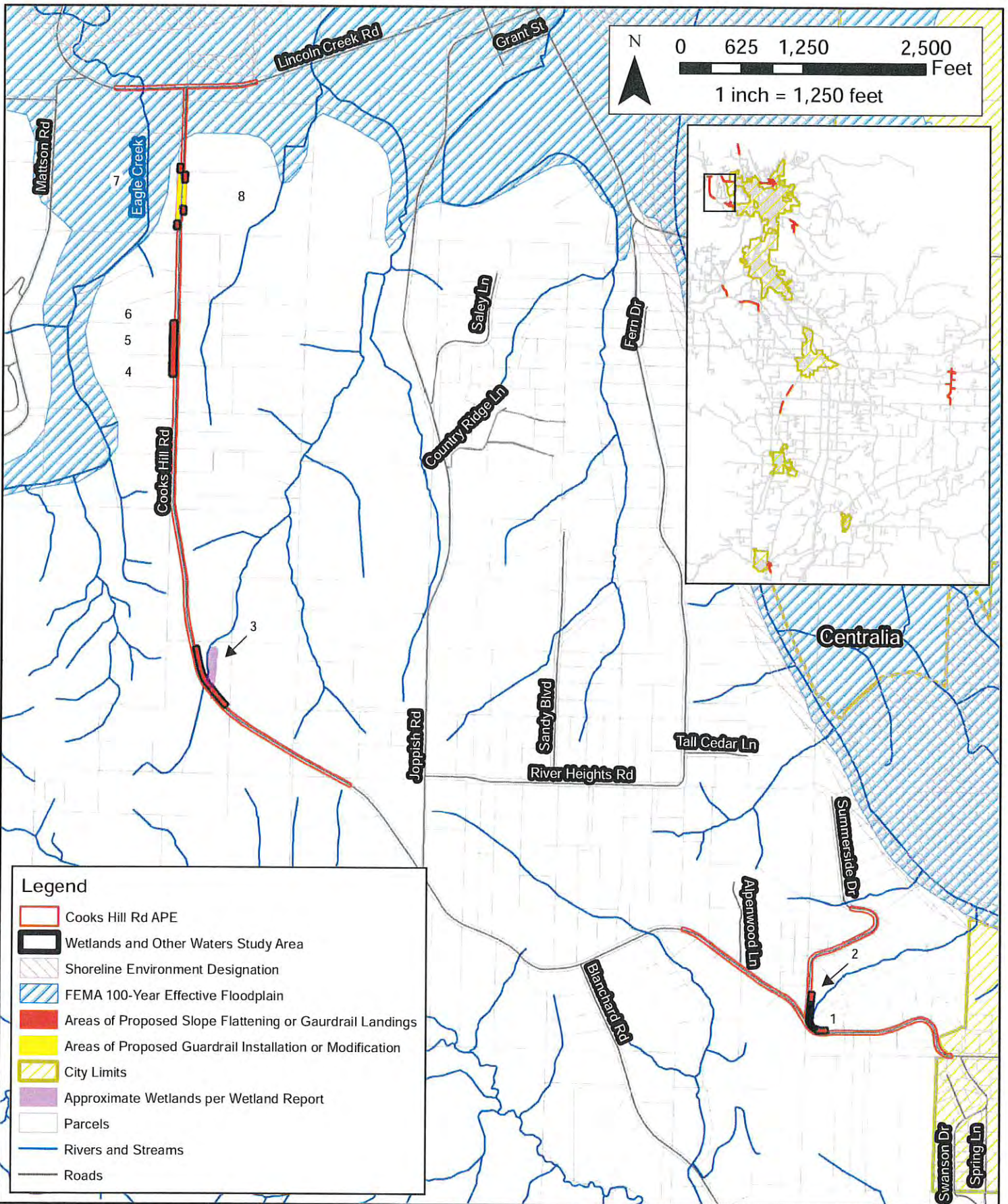
SECTION D-D

VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



REYNOLDS RD MP 0.33 DITCH 6 LEFT FILL SLOPE DETAIL
SECTION E-E

VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED

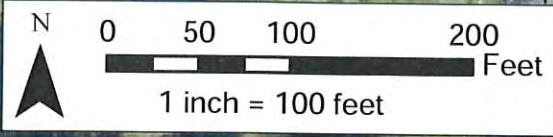


Legend

- Cooks Hill Rd APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Slope Flattening or Gaurdail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Approximate Wetlands per Wetland Report
- Parcels
- Rivers and Streams
- Roads

- Adjacent Property Owners:
- 1.) Parcel #022118-003-001 Bond, Robert & Kristen
 - 2.) Parcel #010907-049-003 Bass, Jeffrey & Chelsie
 - 3.) Parcel #021980-000-000 Scott, Dale
 - 4.) Parcel #021970-001-004 Nieman, Alana & Janete
 - 5.) Parcel #021970-001-005 Nieman, Alana & Janete
 - 6.) Parcel #021970-002-003 Lantau, Duane and Terri
 - 7.) Parcel #023880-000-000 Erickson, Paul & Kristen
 - 8.) Parcel #023882-002-000 Johnson, Yvonne

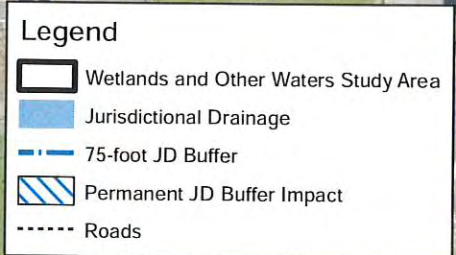
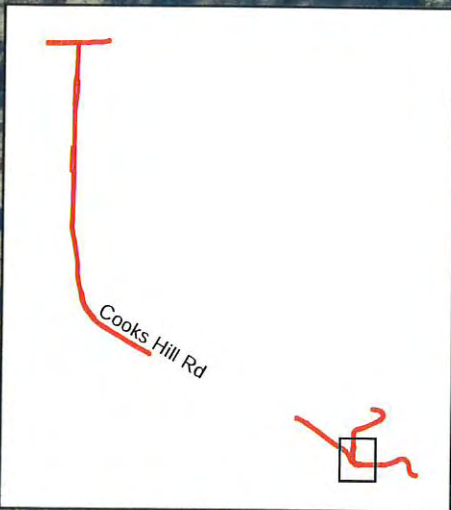
NWS-2019-67
 Lewis County Public Works
 HSIP II - CRP 2185B
 Cooks Hill Rd MP 1.42 to 4.35
 Sheet 13 of 41 2/20/19

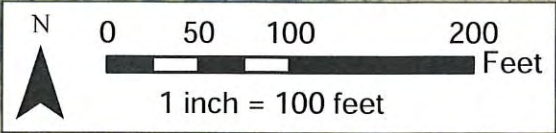


Unnamed Tributary to Chehalis River 2
75-ft Jurisdictional Drainage Buffer
Permanent Jurisdictional Drainage
Buffer Impact 171 sq ft

End MP 0.06

Start MP 1.7



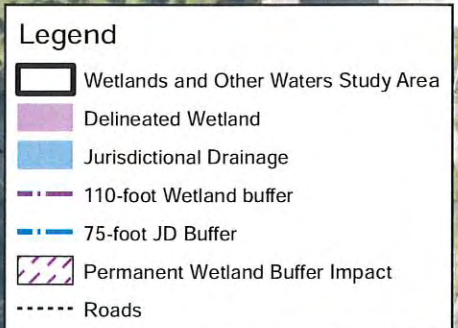
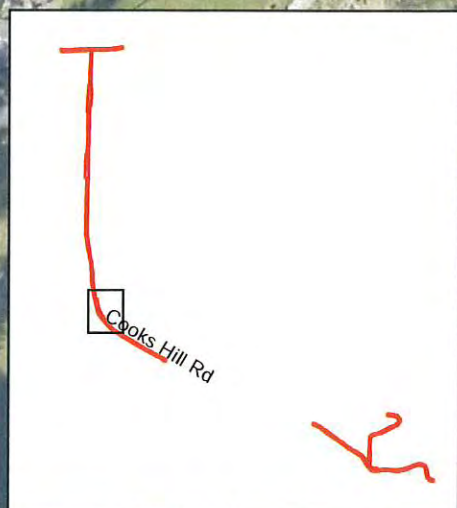


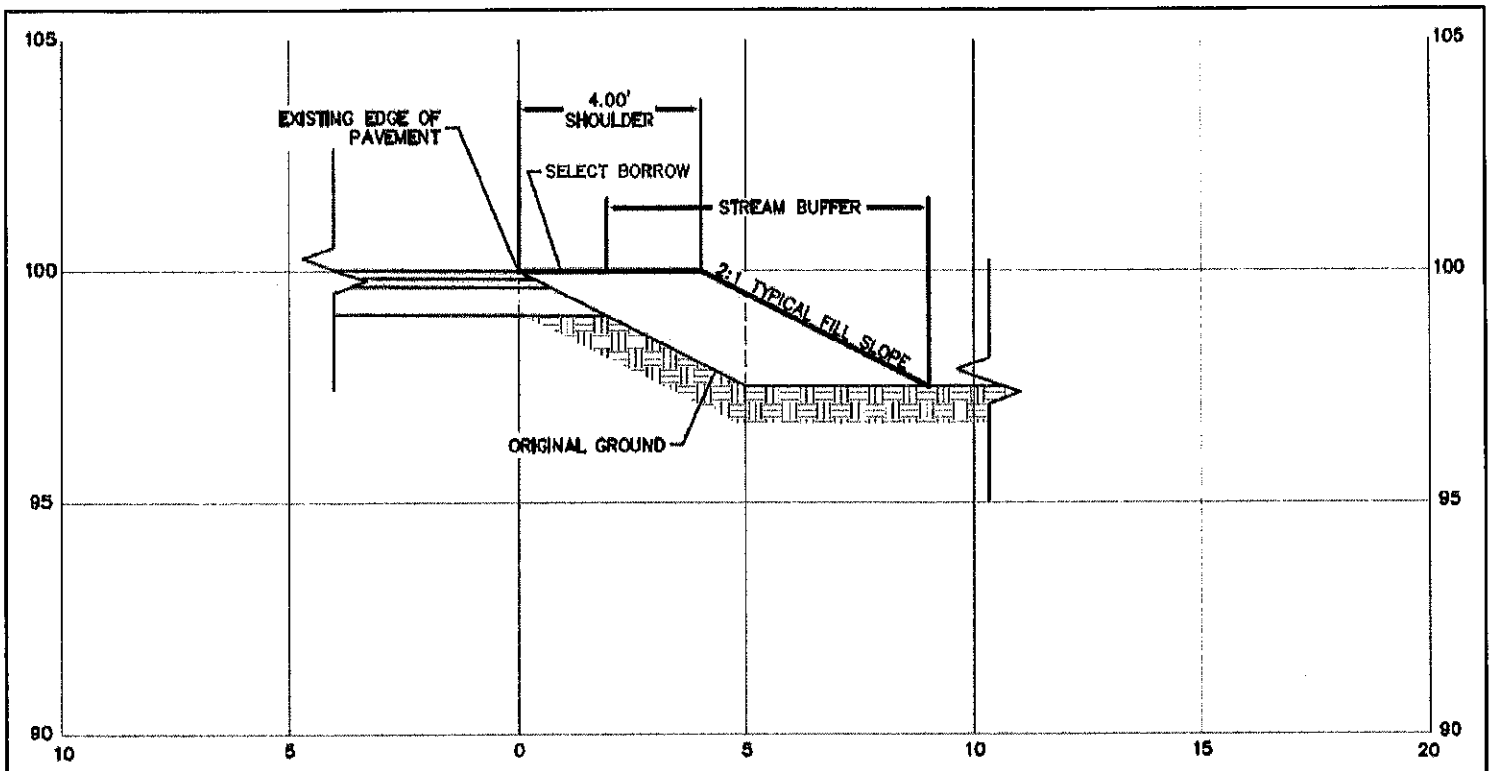
End MP 3:28

Wetland CH1
(Category III)
0.061 acres - onsite
110-ft Wetland Buffer
Permanent Wetland Buffer Impact 1,191 sq ft

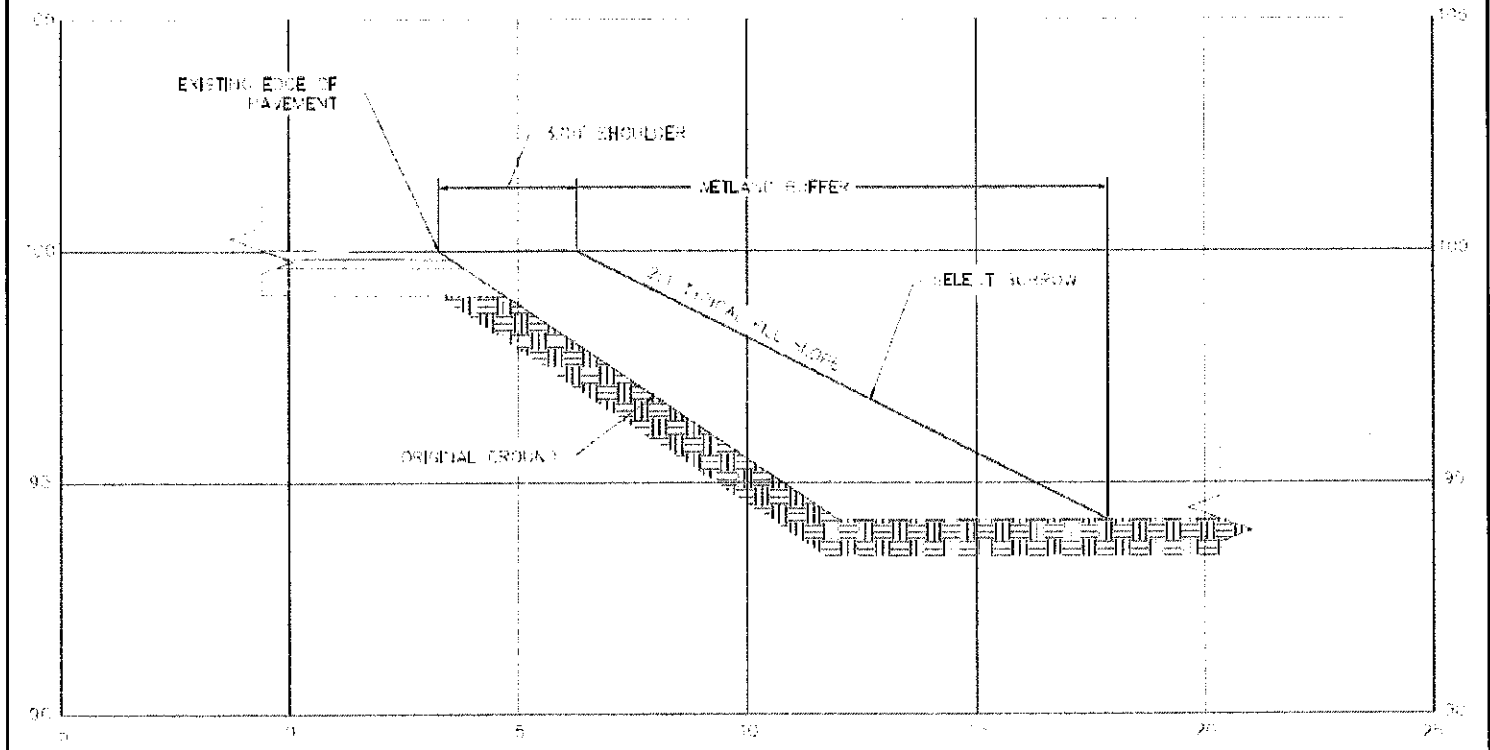
Unnamed Tributary to Chehalis River 3
75-ft Jurisdictional Drainage Buffer

Start MP 3:15

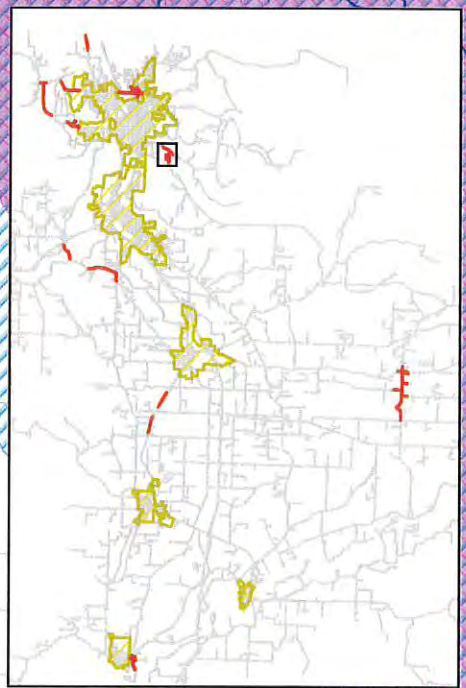
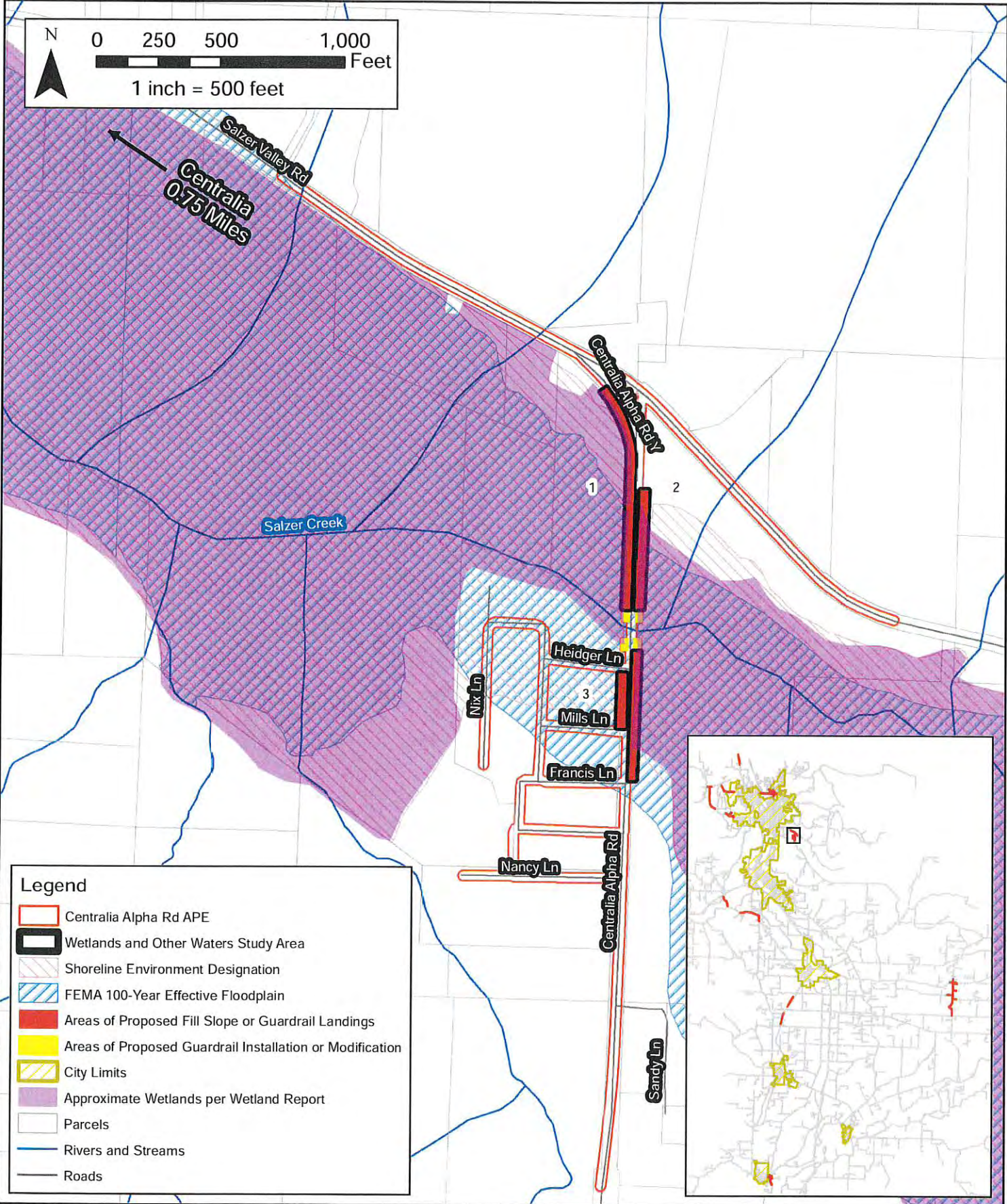
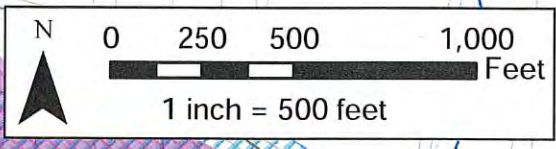




COOKS HILL RD MP 1.7 RIGHT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



COOKS HILL RD MP 3.15 RIGHT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED

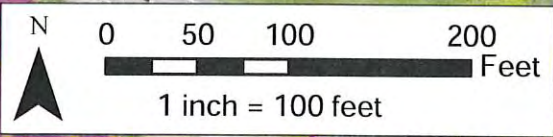


Legend

- Centralia Alpha Rd APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Approximate Wetlands per Wetland Report
- Parcels
- Rivers and Streams
- Roads

Adjacent Property Owners:
 1.) Parcel #021424-017-000 Braun, John and Marlo
 2.) Parcel #021408-002-000 Braun, John and Marlo
 3.) Parcel #021424-002-000 Columbia Regional Asset Management Group

NWS-2019-67
 Lewis County Public Works
 HSIP II - CRP 2185B
 Centralia Alpha Rd MP 0.00 to 0.60
 Sheet 17 of 41 2/20/19

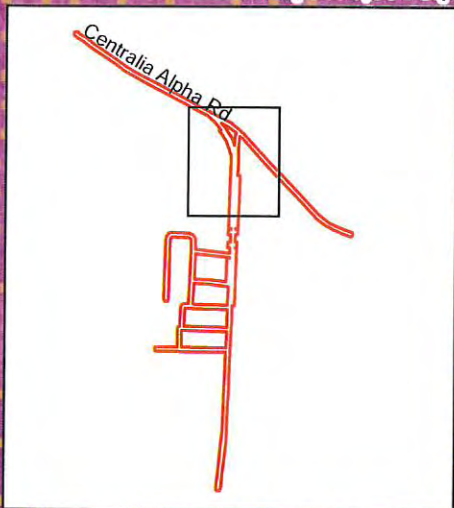


Start MP 0.05

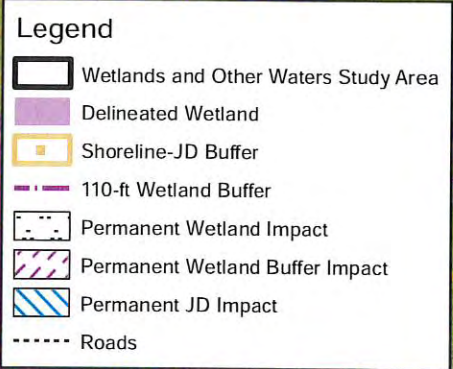
Wetland CA1 (West)
 (Category II)
 0.268 acres - onsite
 Permanent Wetland Impact 300 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 12,075 sq ft

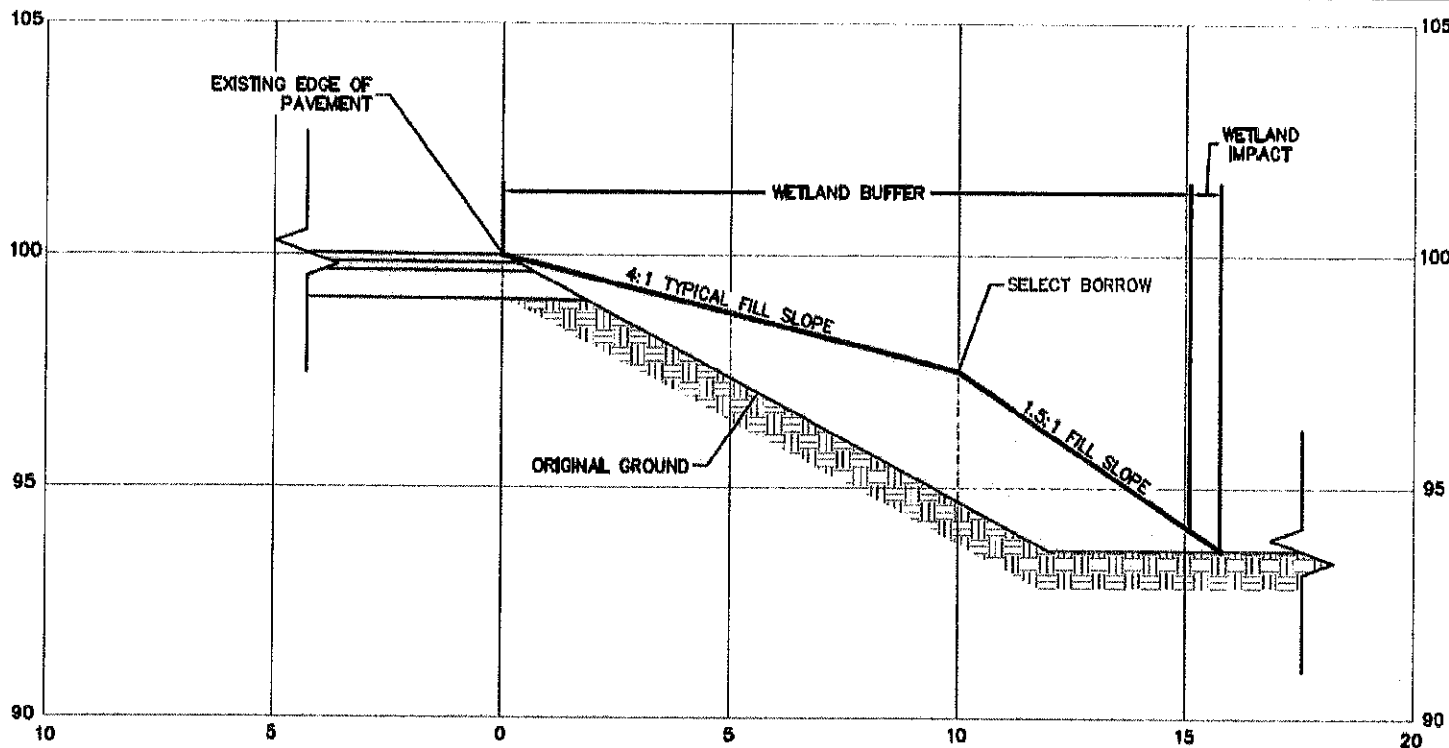
Salzer Creek
 Shoreline Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 6,994 sq ft

Wetland CA1 (East)
 (Category II)
 East: 0.443 acres - onsite
 Permanent Wetland Impact 7,962 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 6,069 sq ft



Match Line

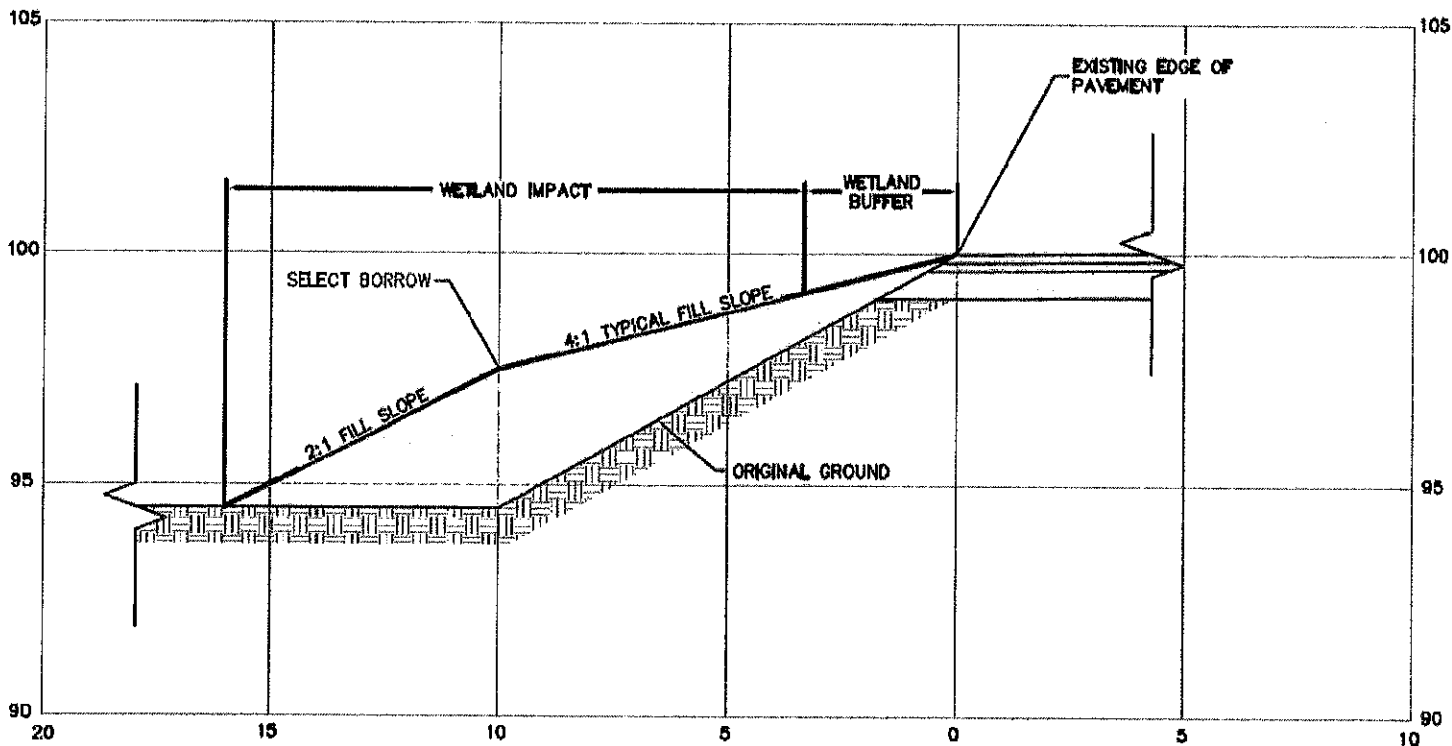




CENTRALIA ALPHA RD MP 0.05 RIGHT FILL SLOPE DETAIL

SECTION A-A

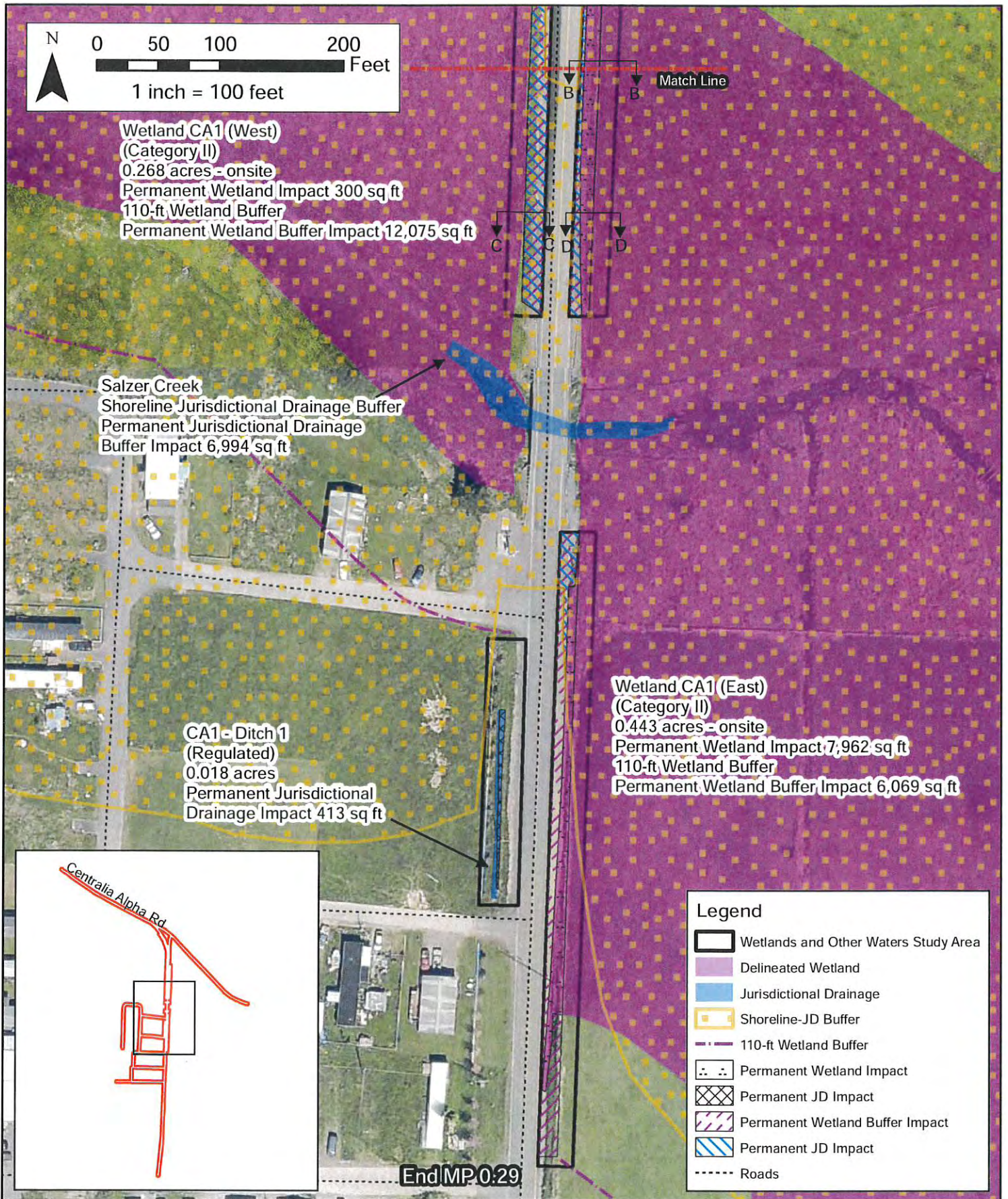
VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED

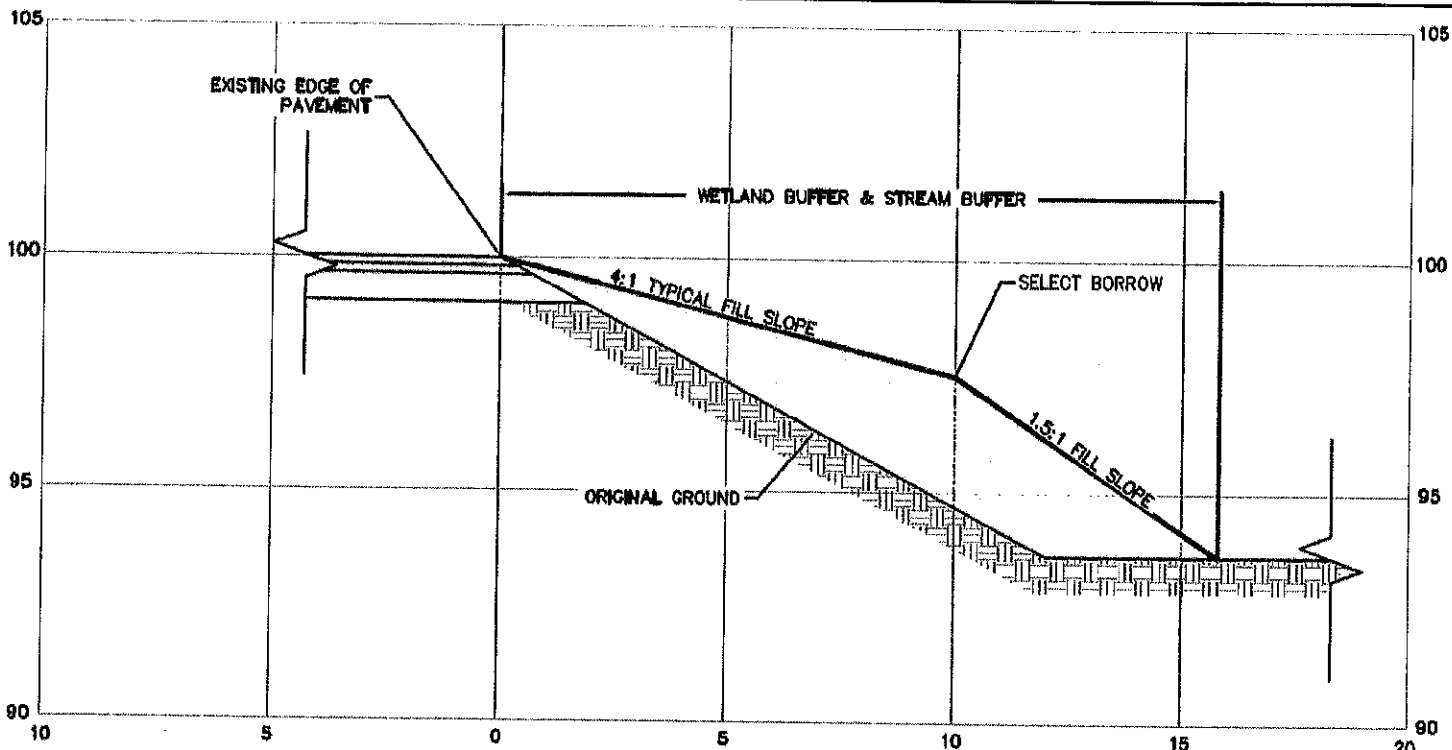


CENTRALIA ALPHA RD MP 0.05 LEFT FILL SLOPE DETAIL

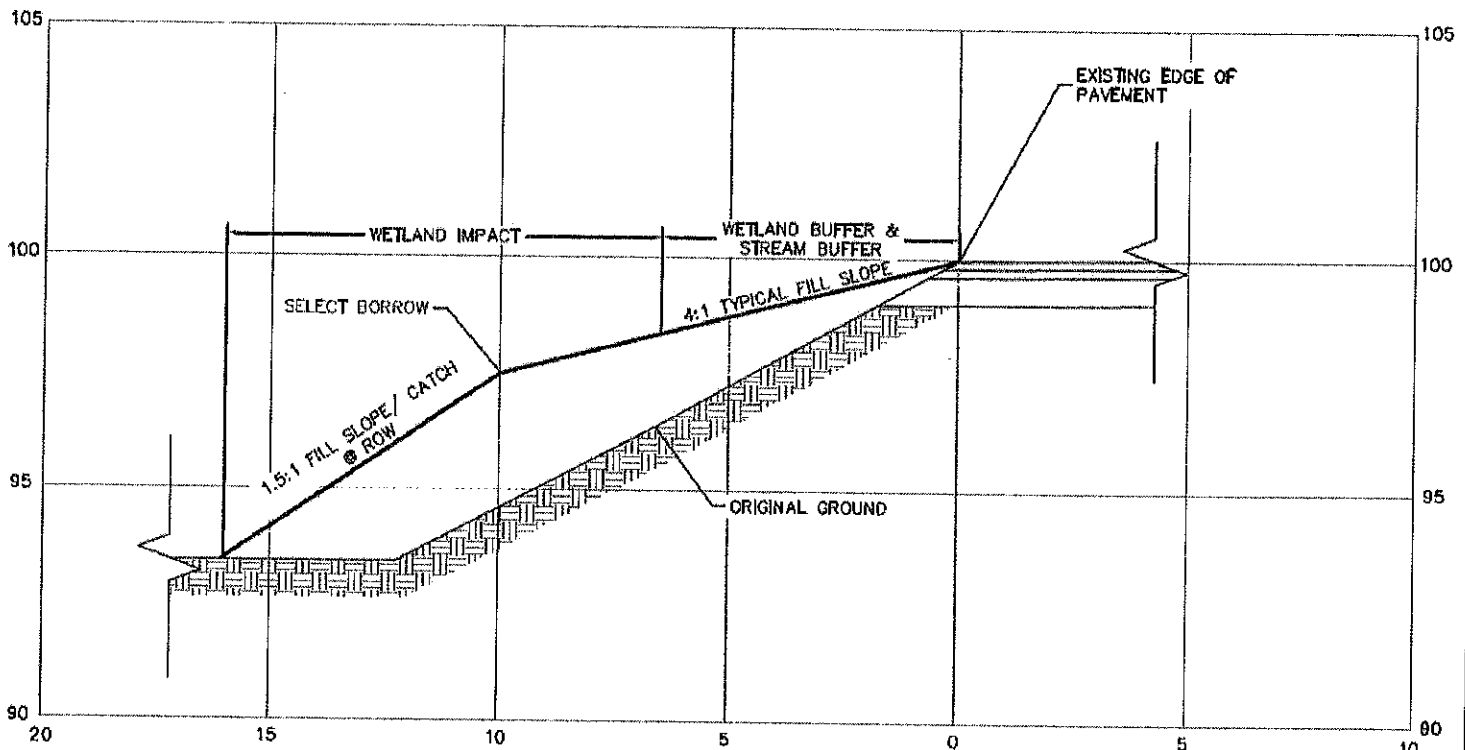
SECTION B-B

VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED

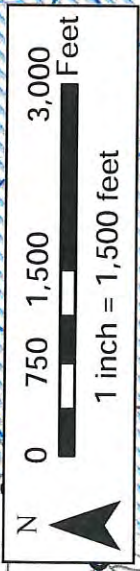
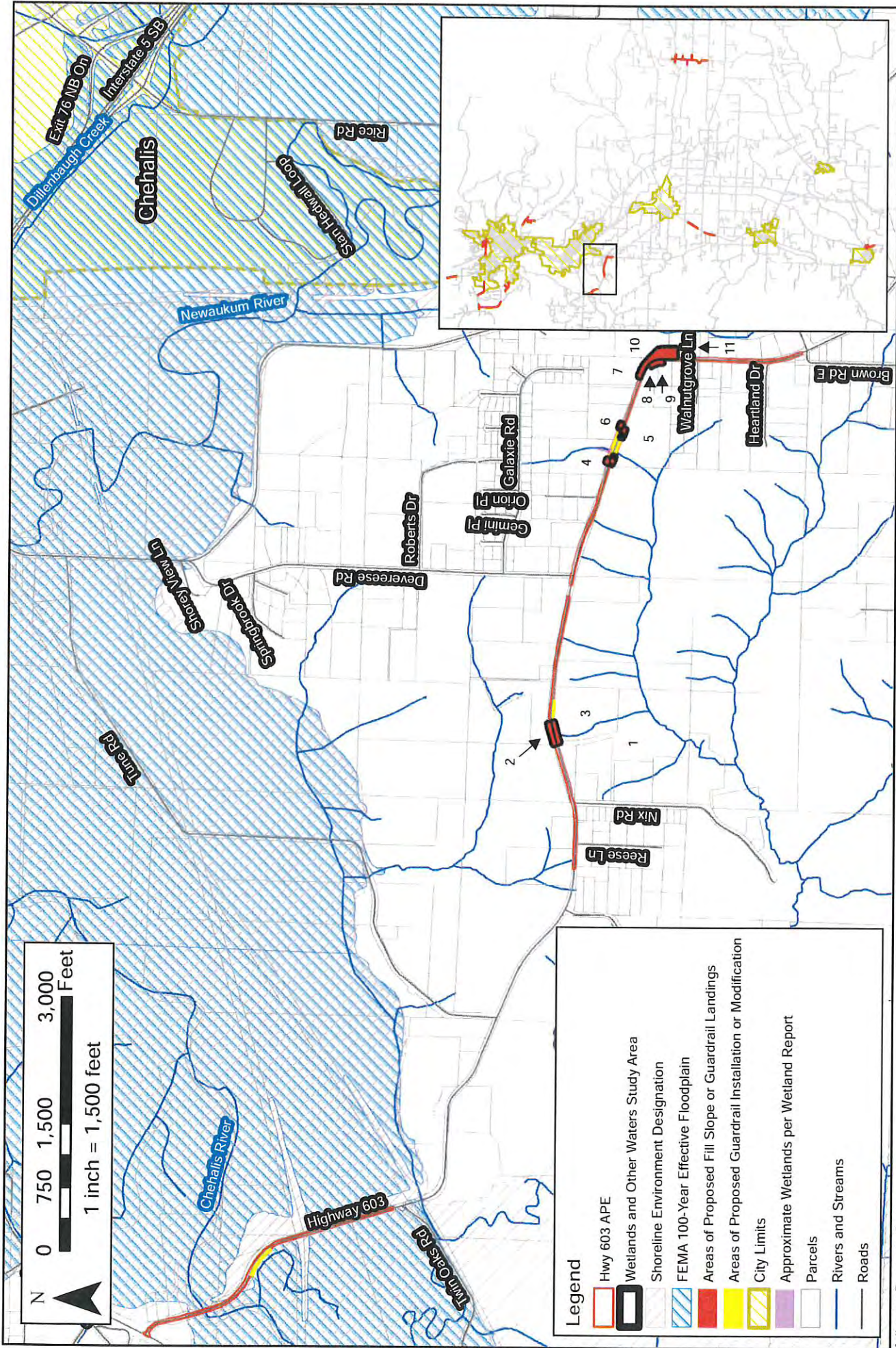




CENTRALIA ALPHA RD MP 0.05 RIGHT FILL SLOPE DETAIL
SECTION C-C
 VERTICAL AND HORIZONTAL SCALE - 1:1
 ELEVATIONS ARE ASSUMED



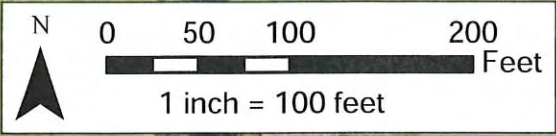
CENTRALIA ALPHA RD MP 0.05 LEFT FILL SLOPE DETAIL
SECTION D-D
 VERTICAL AND HORIZONTAL SCALE - 1:1
 ELEVATIONS ARE ASSUMED



- Legend**
- Hwy 603 APE
 - Wetlands and Other Waters Study Area
 - Shoreline Environment Designation
 - FEMA 100-Year Effective Floodplain
 - Areas of Proposed Fill Slope or Guardrail Landings
 - Areas of Proposed Guardrail Installation or Modification
 - City Limits
 - Approximate Wetlands per Wetland Report
 - Parcels
 - Rivers and Streams
 - Roads

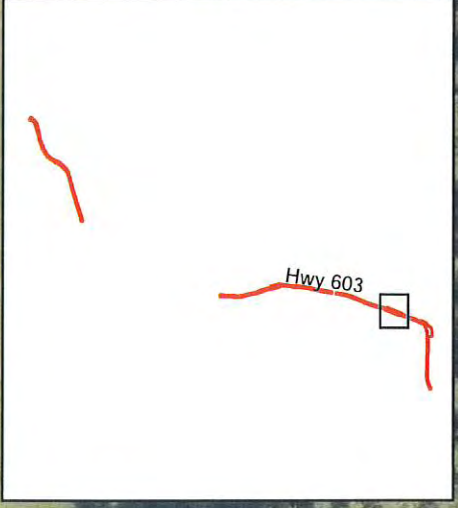
Adjacent Property Owners:

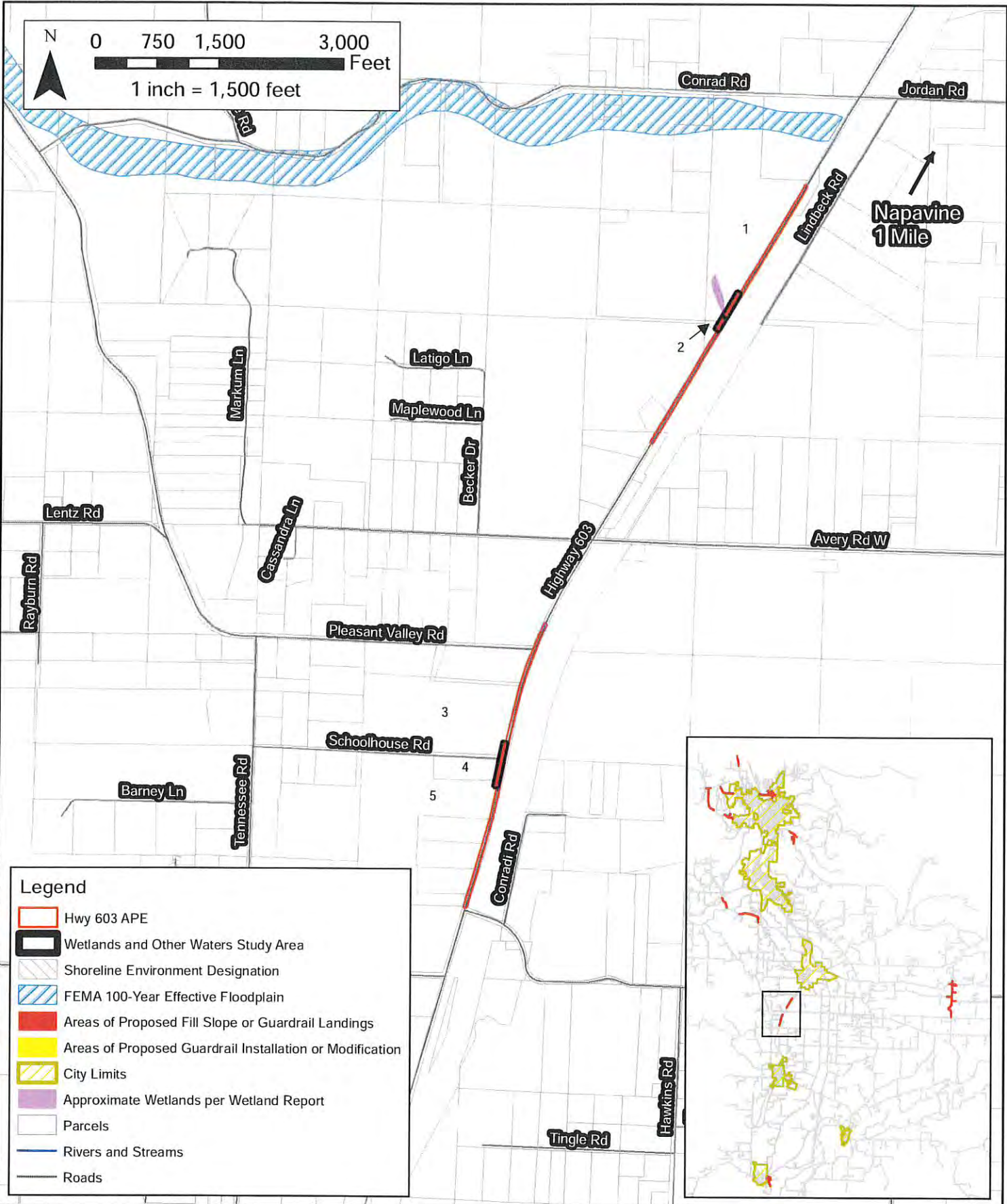
- 1.) Parcel #017642-003-005 Burger, Derek & Corinna
- 2.) Parcel #017640-003-000 Breen, John & Rebecca
- 3.) Parcel #017643-003-004 Sauter, Patrick & Shannon
- 4.) Parcel #017628-002-002 Martin, Jeffrey & Donna
- 5.) Parcel #017635-002-000 Taylor Living Trust, Dtd 6/12/12
- 6.) Parcel #017635-000-000 Colonel, Wenda Marie Trust, et al
- 7.) Parcel #017636-000-000 Johnson, Serene, et al
- 8.) Parcel #017635-004-000 Baxter, Donald
- 9.) Parcel #017635-006-000 Herring, Michael & Terri
- 10.) Parcel #017620-000-000 Webster, Mary
- 11.) Parcel #017678-000-000 Inanbit, Fred & Rexanna



Wetland H1
(Category IV)
0.22 acres
40-ft Wetland Buffer

Start MP 2.50



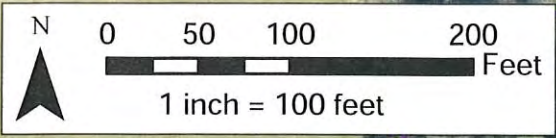


Legend

- Hwy 603 APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Approximate Wetlands per Wetland Report
- Parcels
- Rivers and Streams
- Roads

- Adjacent Property Owners:
- 1.) Parcel #014897-000-000 Morrison, Patricia
 - 2.) Parcel #014910-000-000 Morrison, Todd
 - 3.) Parcel #015011-005-000 Field, Christel
 - 4.) Parcel #015040-002-003 Evaline School District
 - 5.) Parcel #015040-021-001 McFarland, David, Jr. & Sarah

NWS-2019-67-
 Lewis County Public Works
 HSIP II - CRP 2185B
 Highway 603 MP 8.83 to 10.76
 Sheet 24 of 41 2/20/19

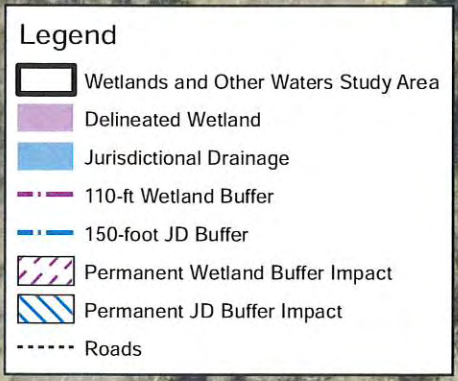
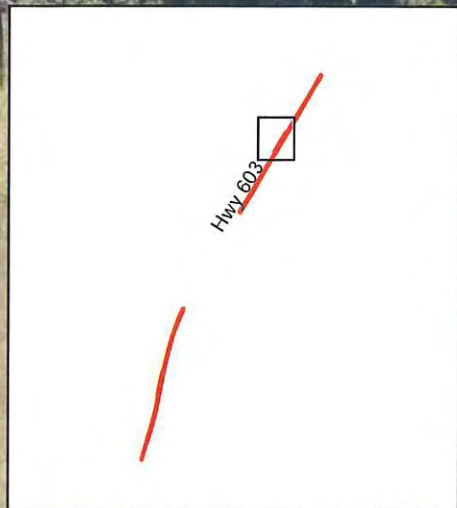


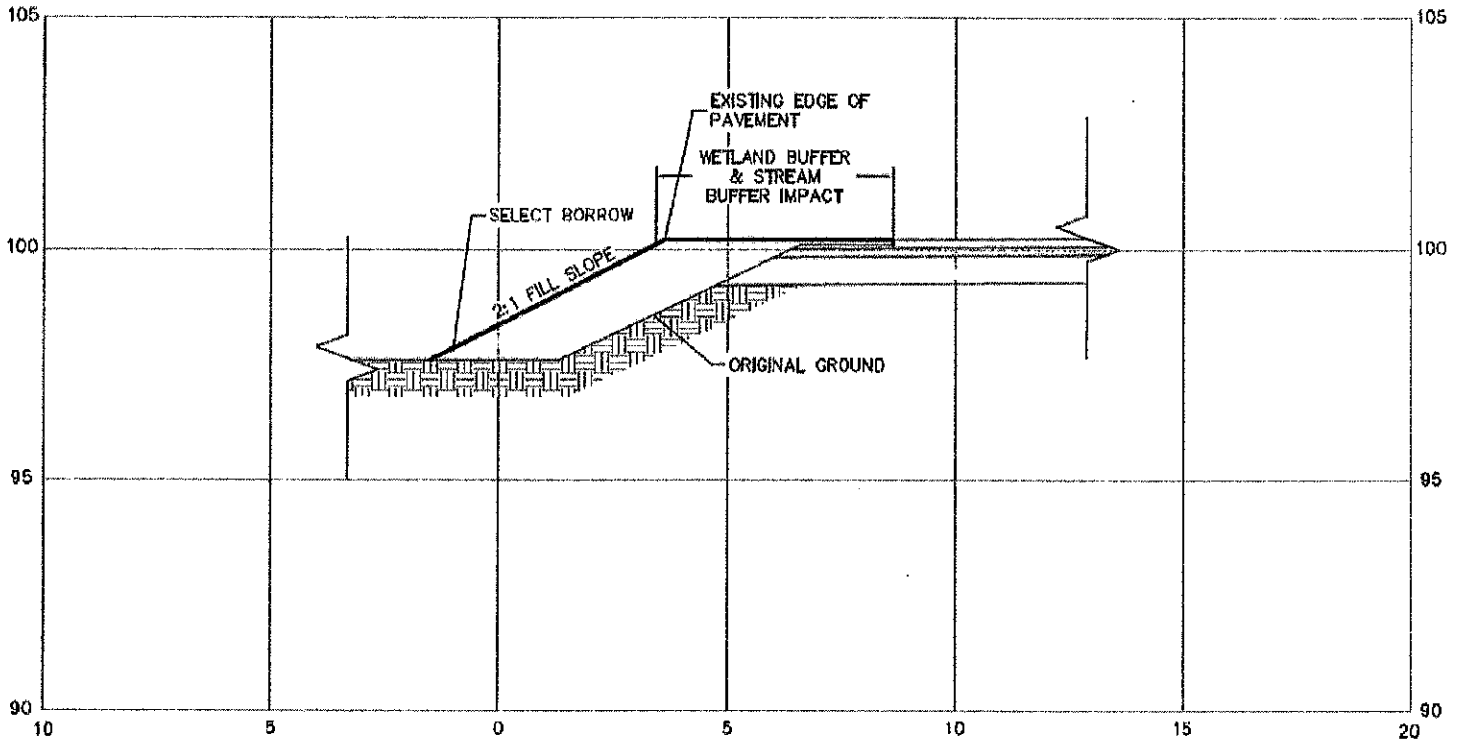
Unnamed Tributary to Stearns Creek
 150-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage Buffer Impact 1,581 sq ft

Wetland H2
 (Category III)
 0.007 acres - onsite
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 1,494 sq ft

Start MP 9.23

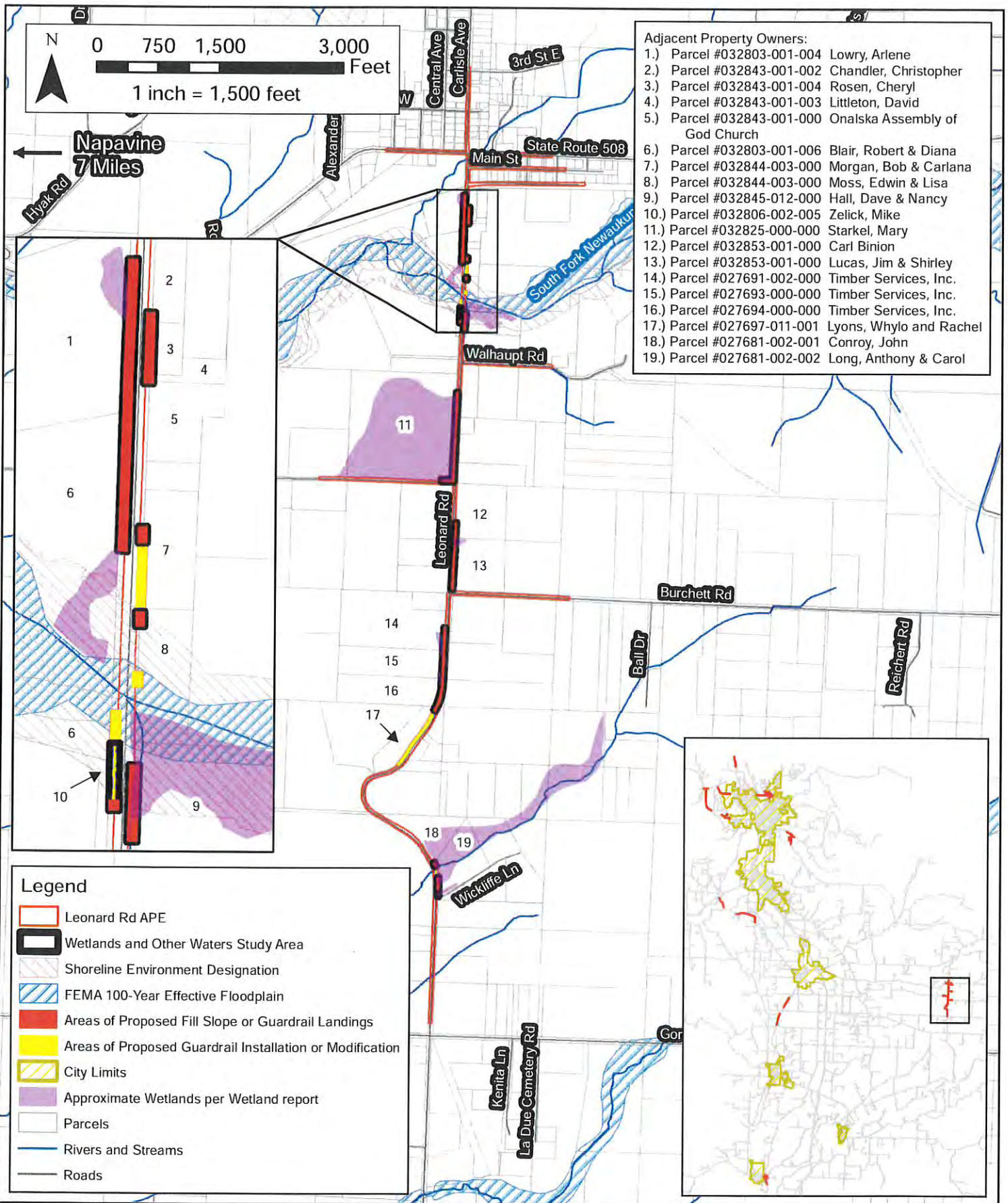
End MP 9.32

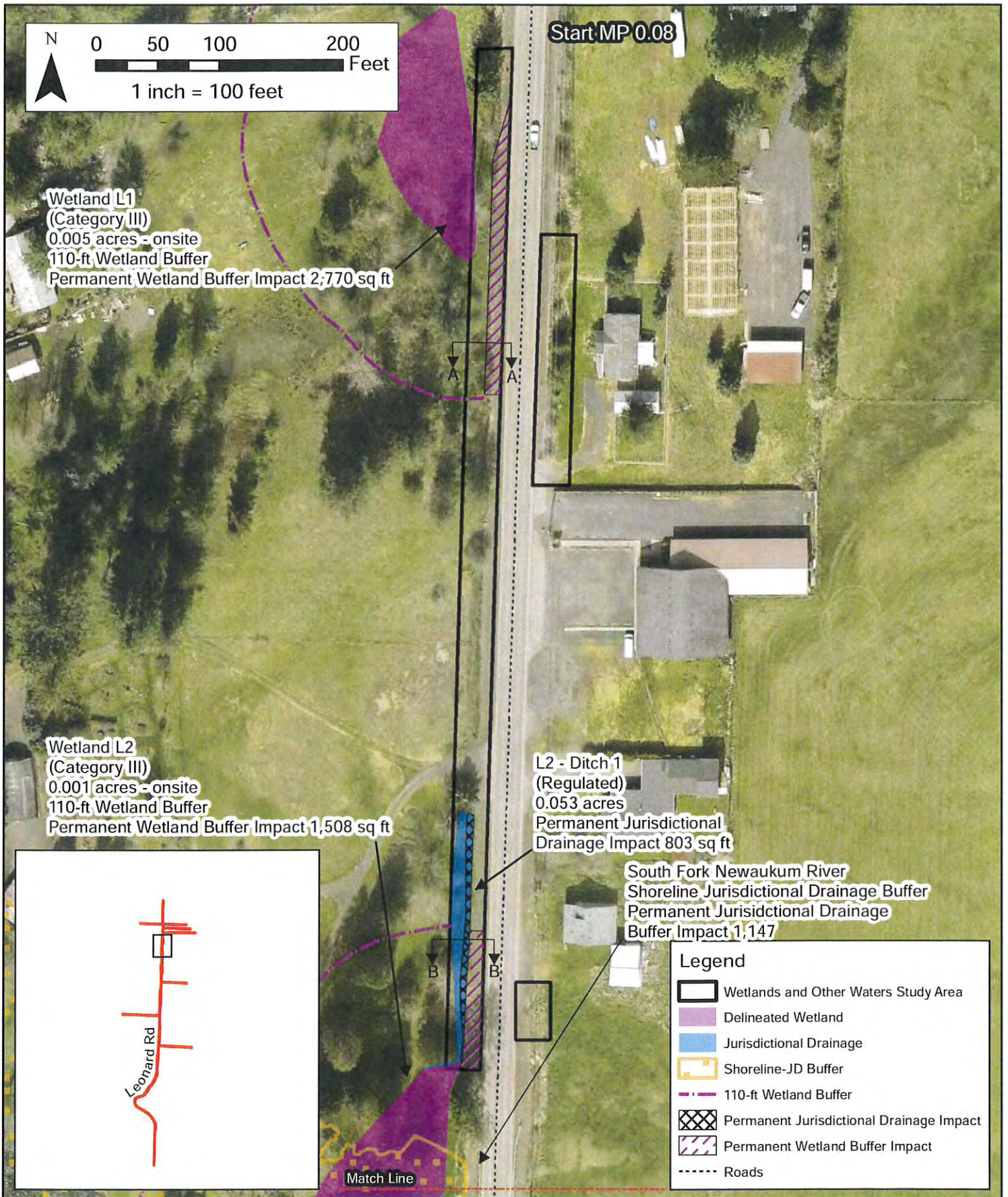


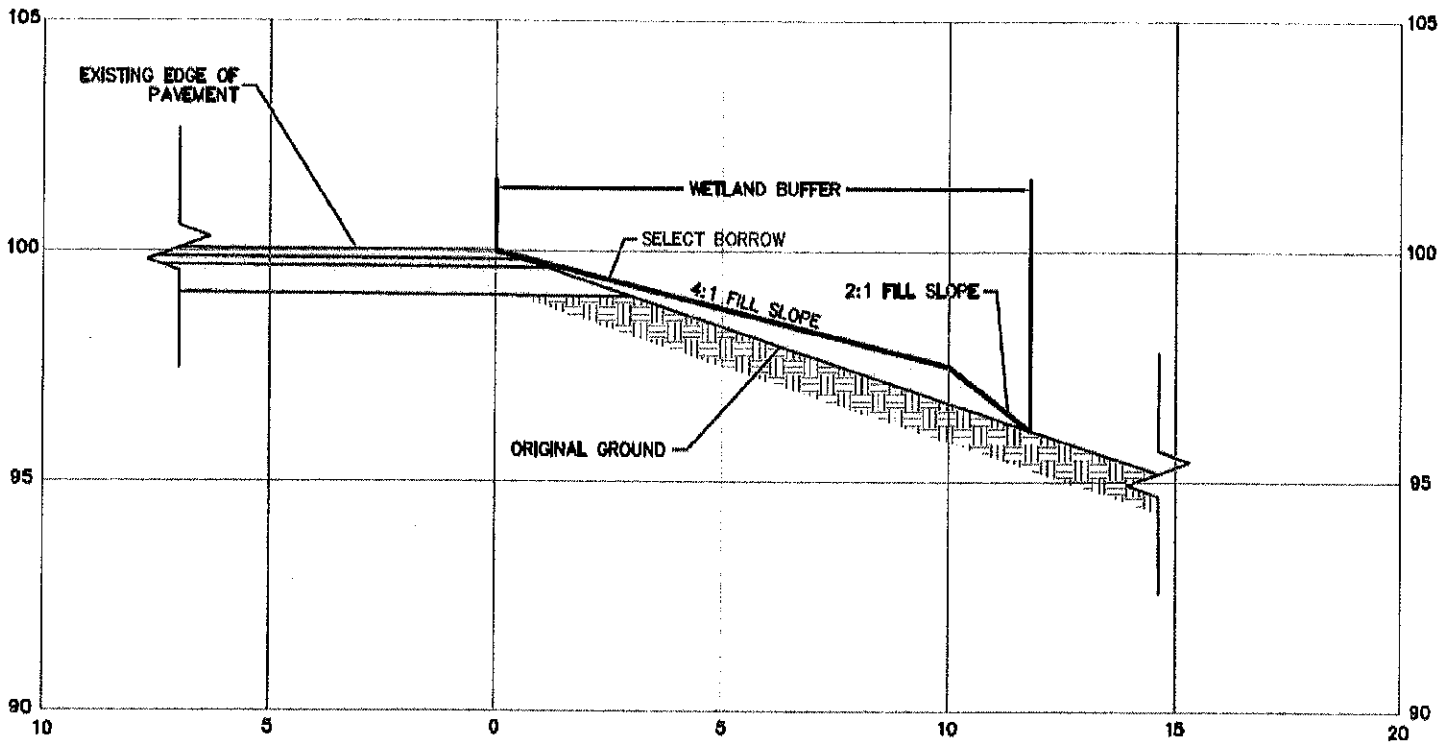


HWY 603 MP 9.23 RIGHT FILL SLOPE DETAIL
SECTION A-A

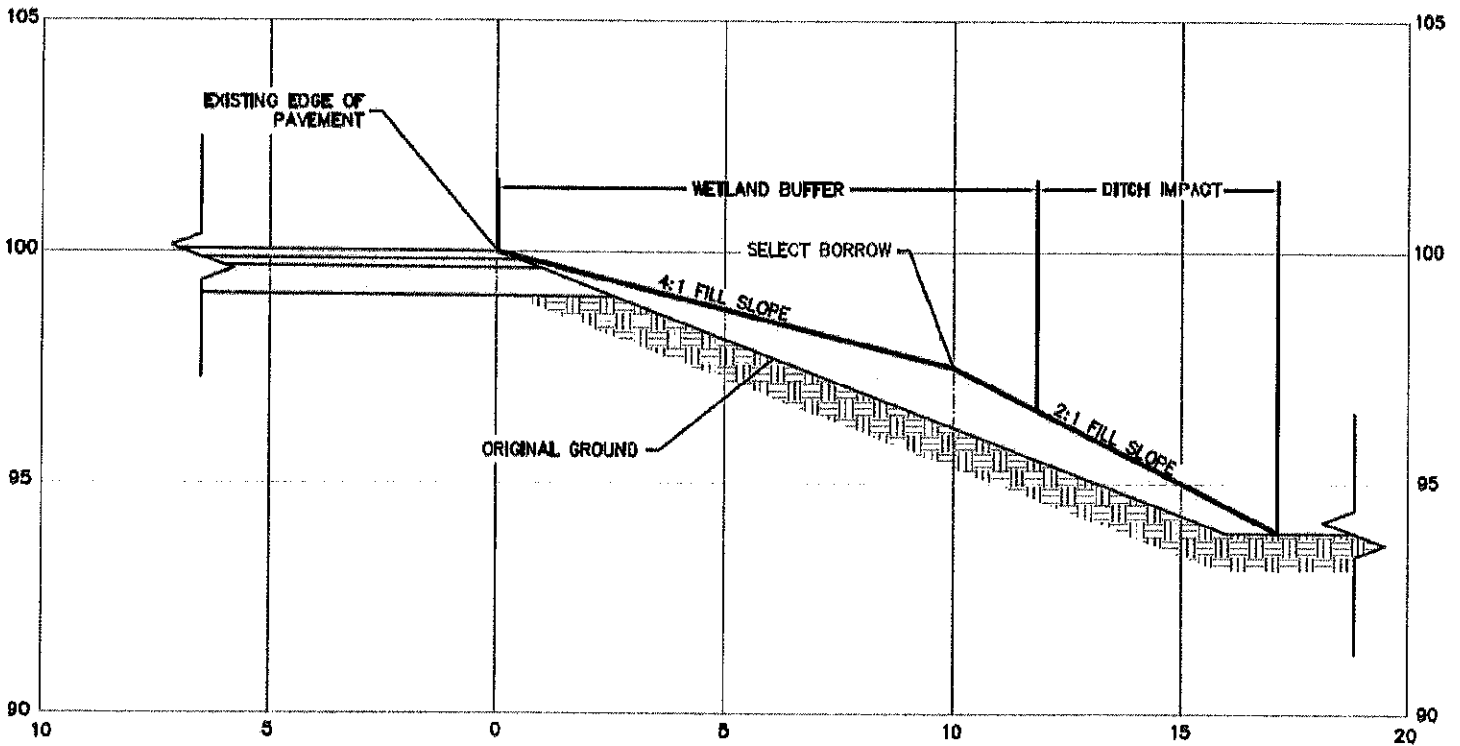
VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



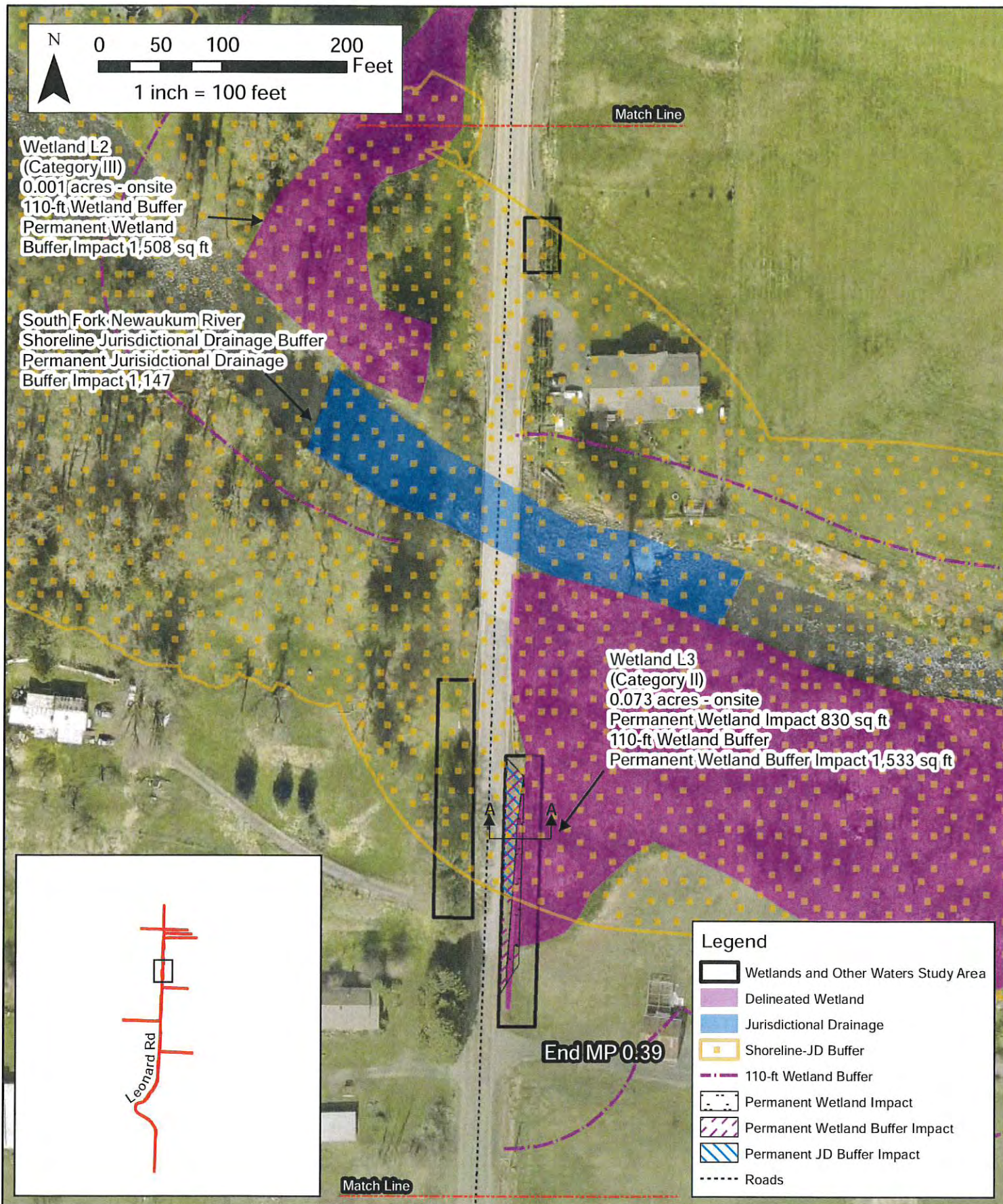


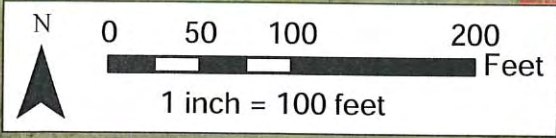


LEONARD RD MP 0.08 LEFT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



LEONARD RD MP 0.08 LEFT FILL SLOPE DETAIL
SECTION B-B
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED

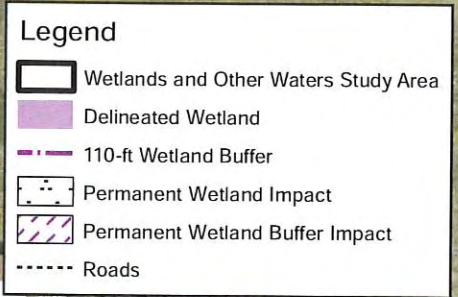
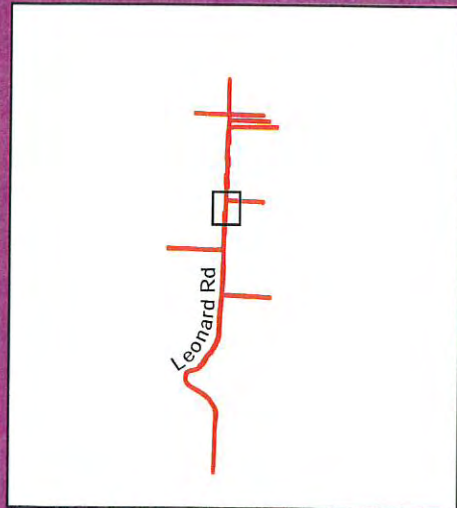




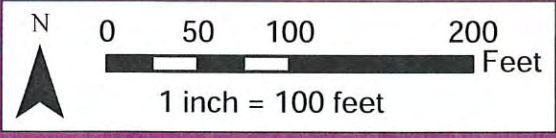
Match Line

Wetland L4
 (Category, III)
 0.478 acres - onsite
 Permanent Wetland Impact 3,777 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 11,450 sq ft

Start MP 0.54

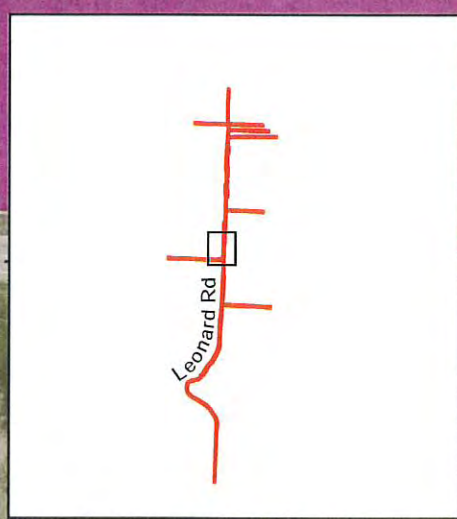


Match Line

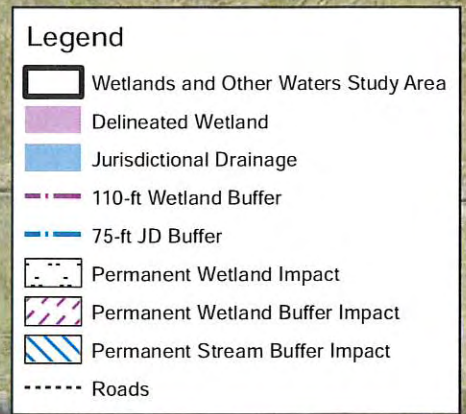


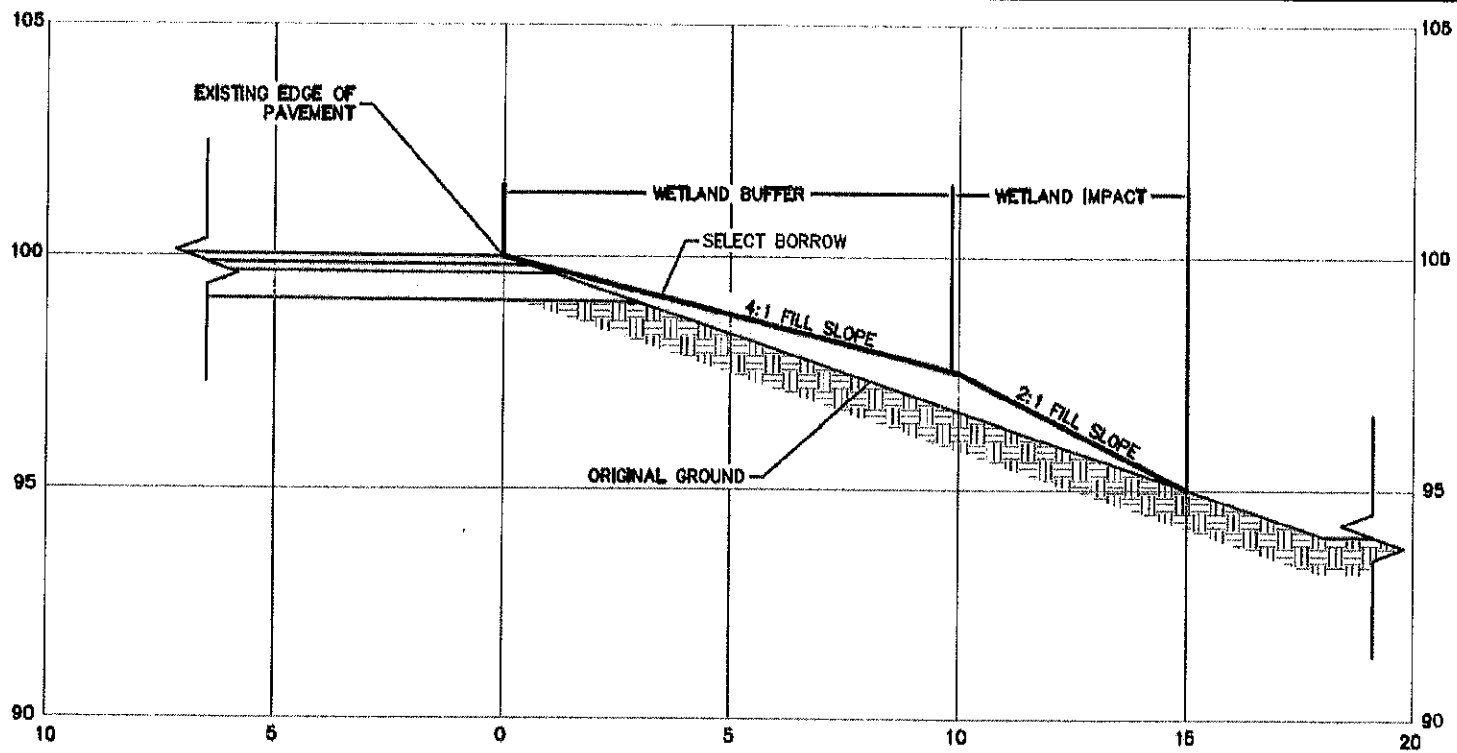
Wetland L4
 (Category III)
 0.478 acres - onsite
 Permanent Wetland Impact 3,777 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 11,450 sq ft

Unnamed Tributary to
 South Fork Newaukum River 1
 75-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 347 sq ft

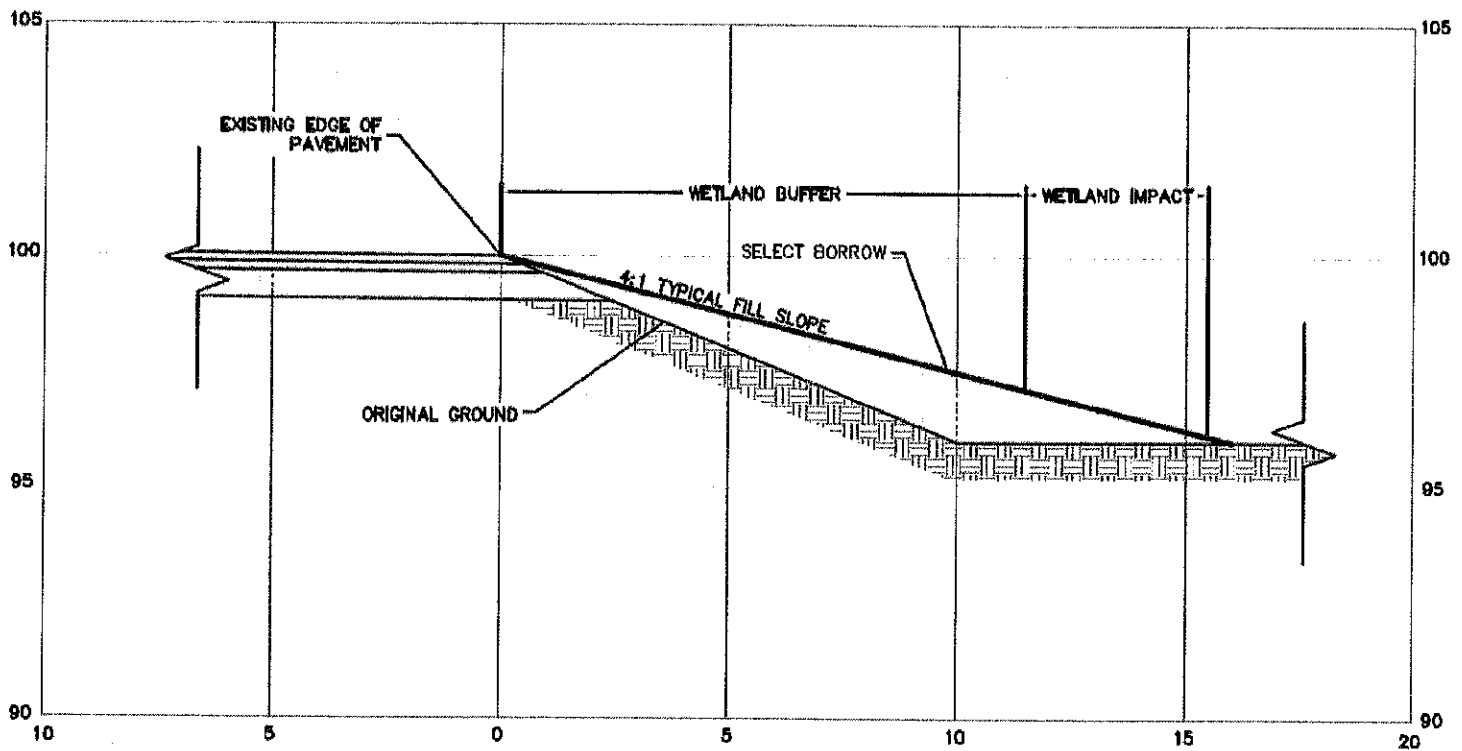


End MP 4.07
Start MP 4.04
End MP 0.74

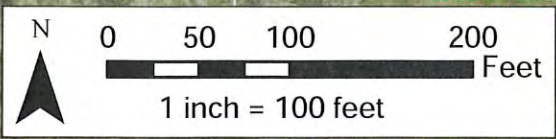




LEONARD RD MP 0.39 LEFT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



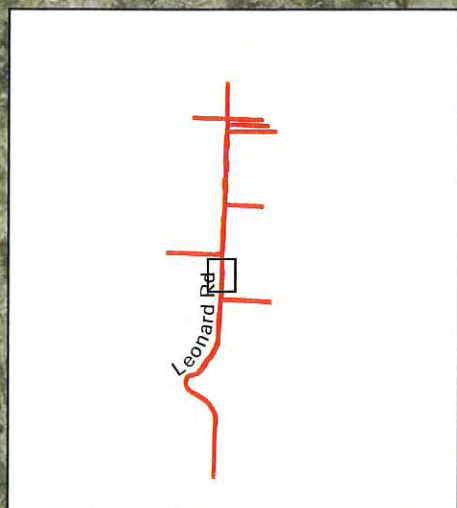
LEONARD RD MP 0.54 RIGHT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



Match Line

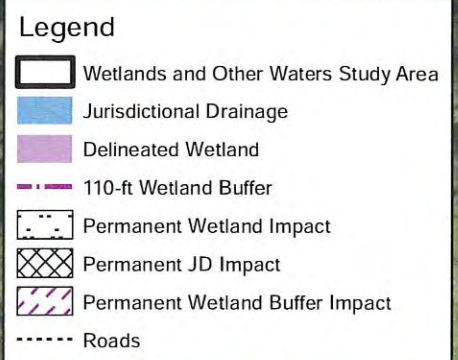
Start MP 0.84

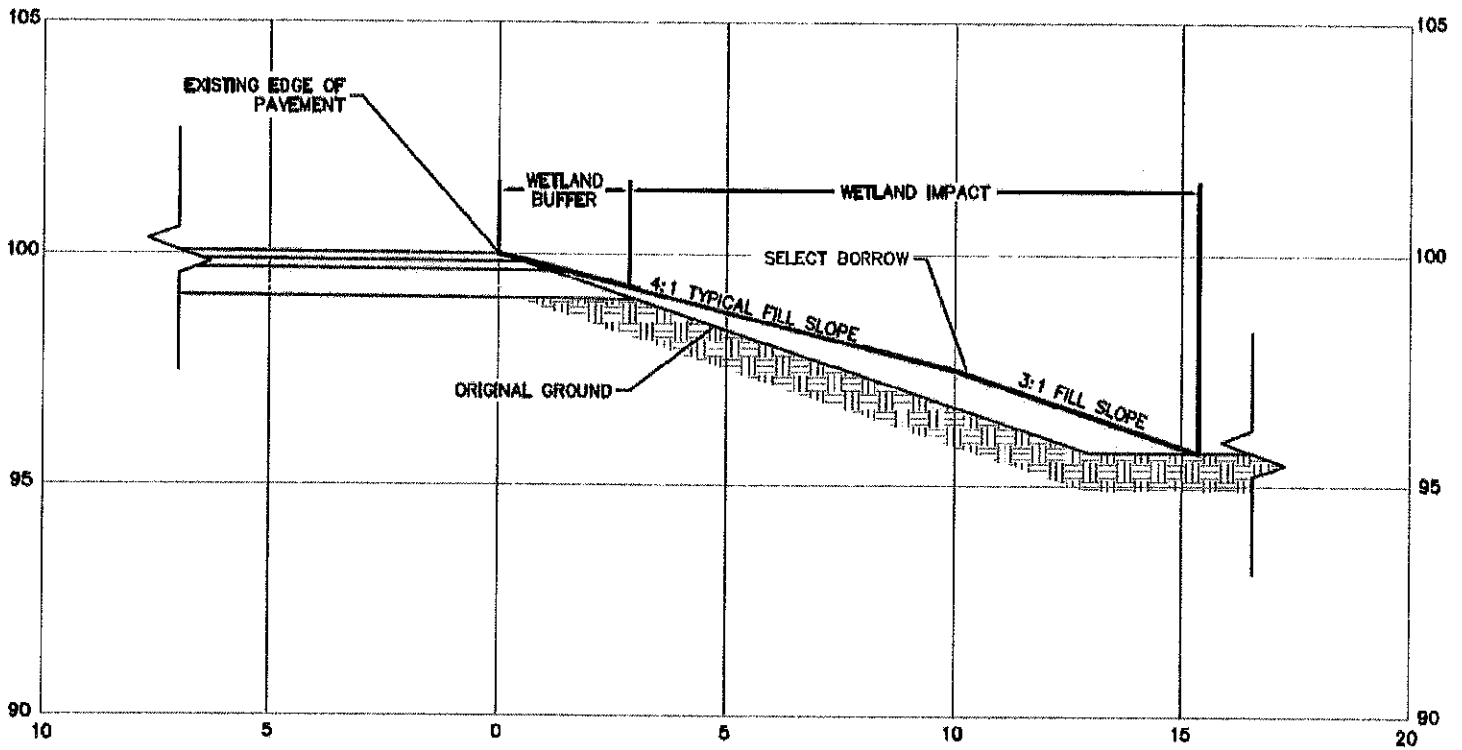
Wetland L5
 (Category III)
 0.058 acres - onsite
 Permanent Wetland Impact 1,007 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 3,770 sq ft



L5 - Ditch 1
 (Regulated)
 0.031 acres
 Permanent Jurisdictional
 Drainage Impact 684 sq ft

Match Line

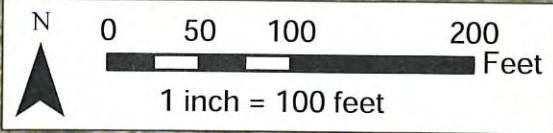




LEONARD RD MP 0.84 RIGHT FILL SLOPE DETAIL

SECTION A-A

VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



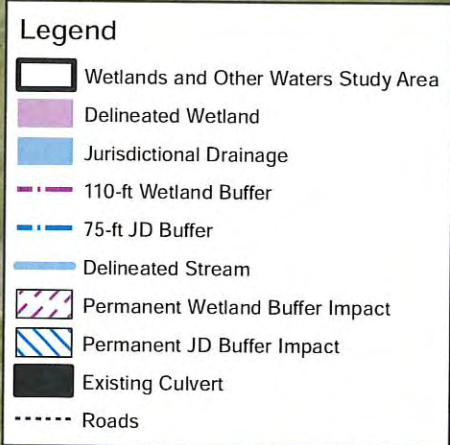
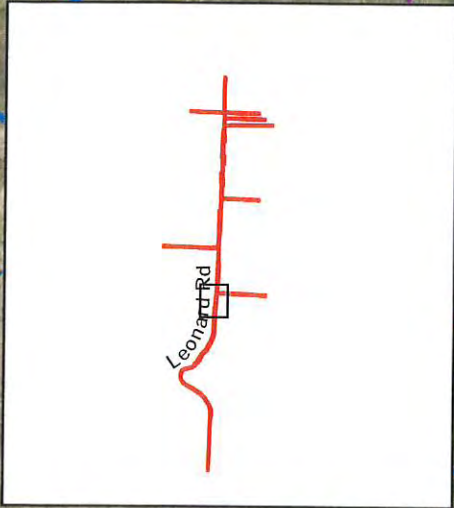
Match Line

End MP 0.99

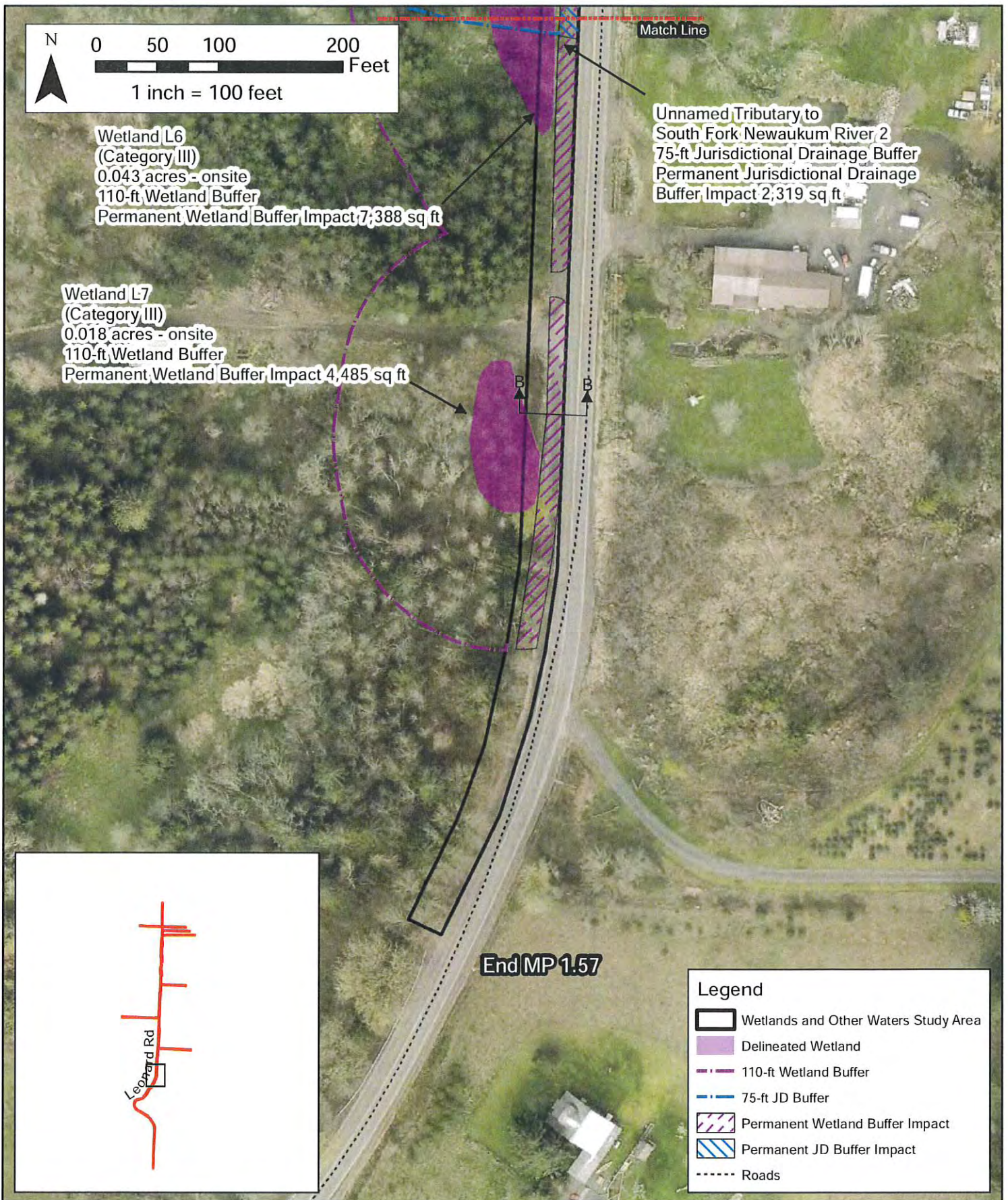
Unnamed Tributary to
South Fork Newaukum River 2
75-ft Jurisdictional Drainage Buffer
Permanent Jurisdictional Drainage
Buffer Impact 2,319 sq ft

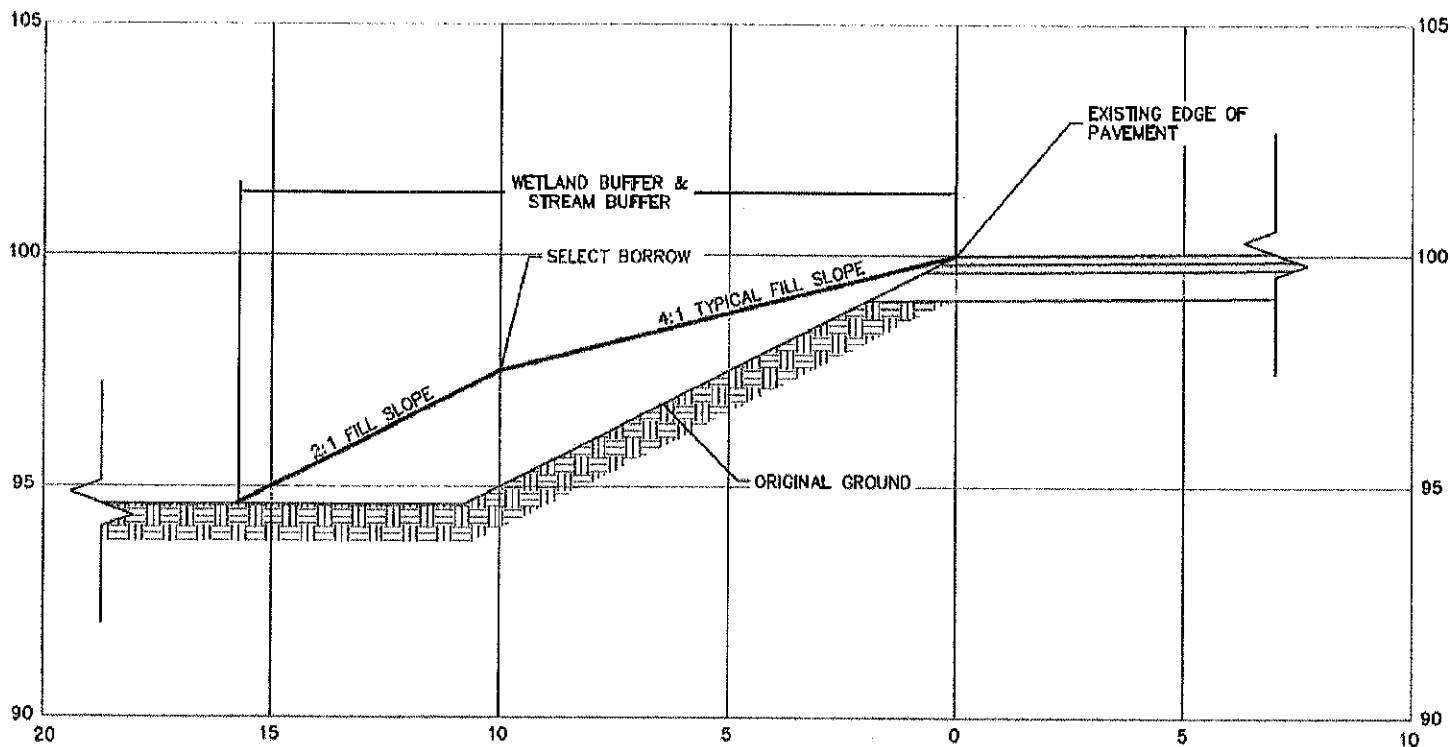
Wetland L6
(Category III)
0.043 acres - onsite
110-ft Wetland Buffer
Permanent Wetland Buffer Impact 7,388 sq ft

Start MP 1.08



Match Line

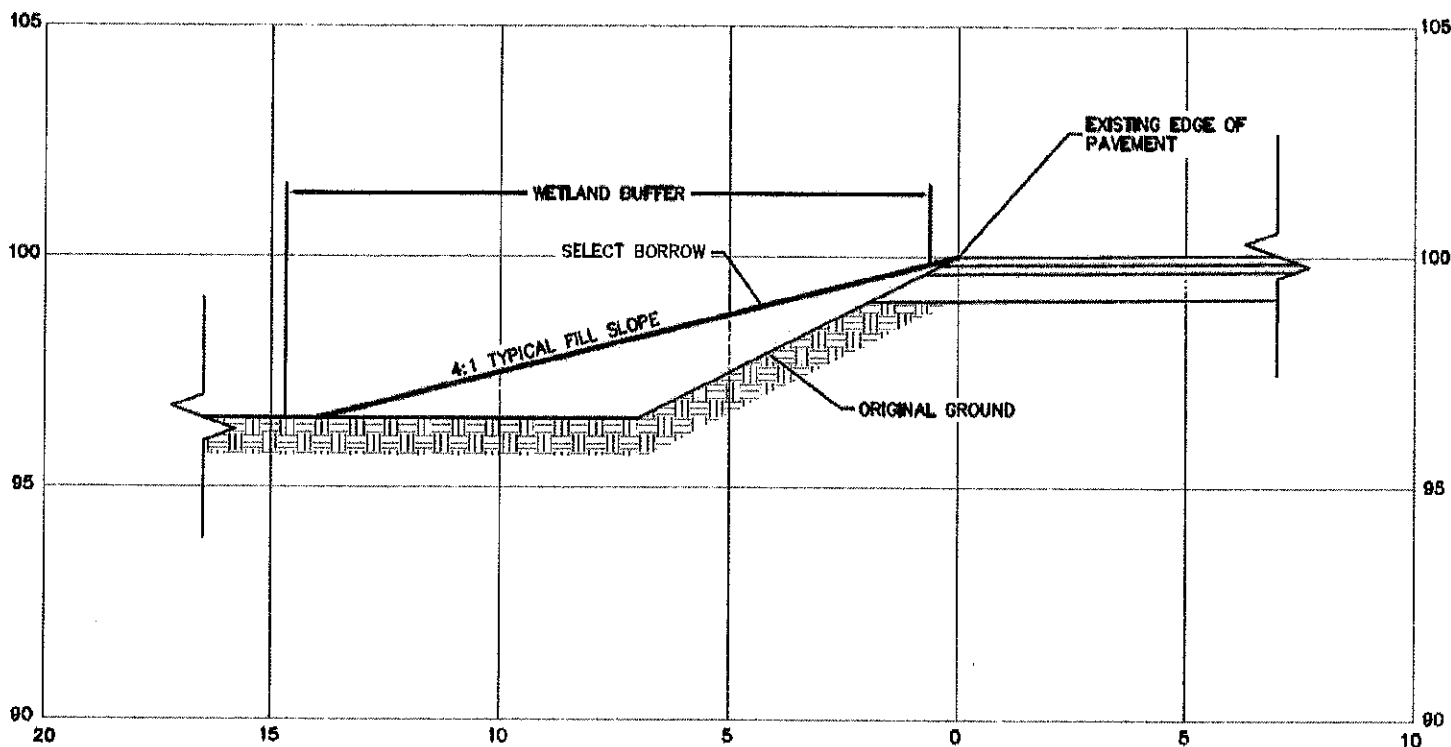




LEONARD RD MP 1.08 RIGHT FILL SLOPE DETAIL

SECTION A--A

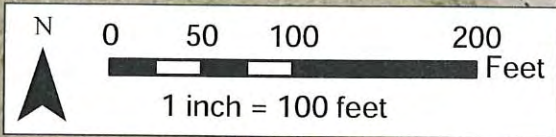
VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



LEONARD RD MP 1.08 RIGHT FILL SLOPE DETAIL

SECTION B--B

VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



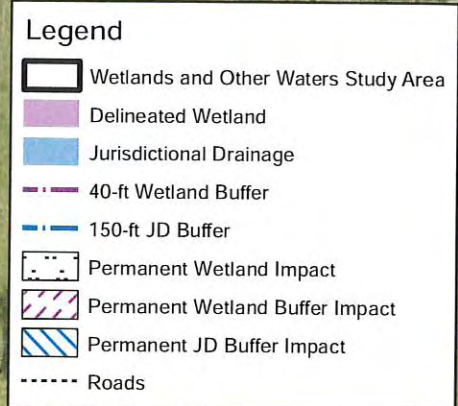
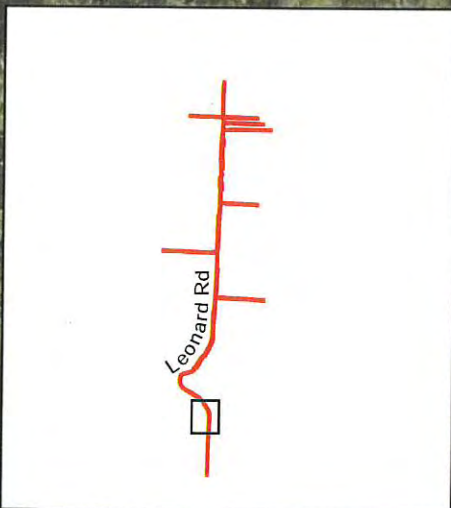
Wetland L8
(Category IV)
0.075 acres - onsite
Permanent Wetland Impact 126 sq ft
40-ft Wetland Buffer
Permanent Wetland Buffer Impact 1,148 sq ft

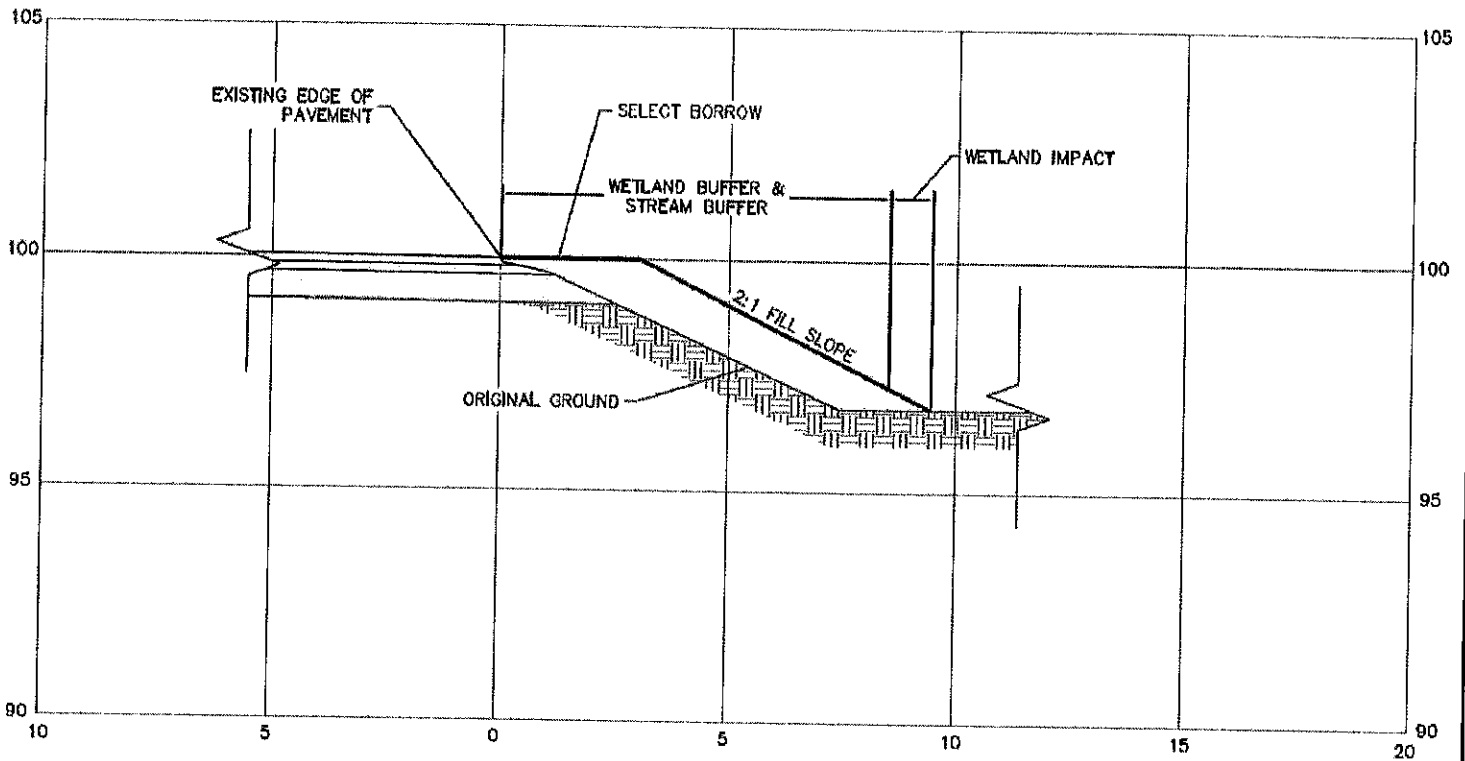
Start MP 1.78

Unnamed Tributary to Baker Creek
150-ft Jurisdictional Drainage Buffer
Permanent Jurisdictional Drainage
Buffer Impact 266 sq ft

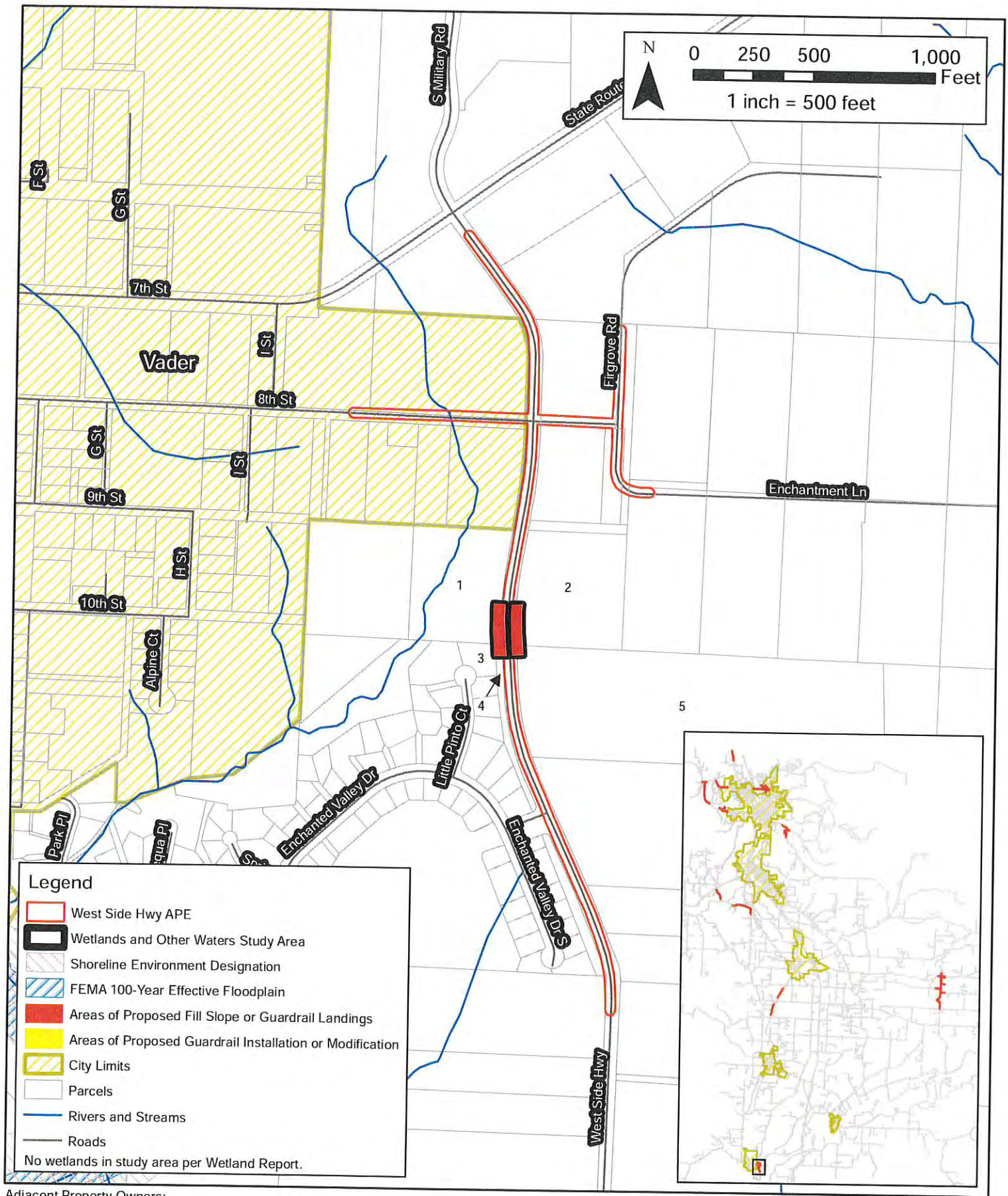
Wetland L9
(Category IV)
0.023 acres - onsite
40-ft Wetland Buffer

End MP 1.85





LEONARD RD MP 1.78 LEFT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



- Adjacent Property Owners:
- 1.) Parcel #012654-002-000 Tilson, Hannah & Orth, Kyle
 - 2.) Parcel #012654-001-000 May, Lowell & Patricia
 - 3.) Parcel #010594-039-000 Peters, Shane
 - 4.) Parcel #010594-068-000 Genuardi, Pellegrino
 - 5.) Parcel #012655-002-000 Lomer, Rose & James



US Army Corps
of Engineers ®
Seattle District

NATIONWIDE PERMIT 14

Terms and Conditions

Effective Date: March 19, 2017



-
- A. Description of Authorized Activities
 - B. U.S. Army Corps of Engineers (Corps) National General Conditions for all NWP
 - C. Corps Seattle District Regional General Conditions
 - D. Corps Regional Specific Conditions for this NWP
 - E. Washington Department of Ecology (Ecology) Section 401 Water Quality Certification (401 Certification): General Conditions
 - F. Ecology 401 Certification: Specific Conditions for this NWP
 - G. Coastal Zone Management Consistency Response for this NWP
-

In addition to any special condition that may be required on a case-by-case basis by the District Engineer, the following terms and conditions must be met, as applicable, for a Nationwide Permit (NWP) authorization to be valid in Washington State.

A. DESCRIPTION OF AUTHORIZED ACTIVITIES

14. Linear Transportation Projects. Activities required for crossings of waters of the United States associated with the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds 1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 32.) (Authorities: Sections 10 and 404)

Note I: For linear transportation projects crossing a single waterbody more than one time at separate and distant locations, or multiple waterbodies at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. Linear transportation projects must

comply with 33 CFR 330.6(d). Note 2: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under section 404(f) of the Clean Water Act (see 33 CFR 323.4). Note 3: For NWP 14 activities that require pre-construction notification, the PCN must include any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings that require Department of the Army authorization but do not require pre-construction notification (see paragraph (b) of general condition 32). The district engineer will evaluate the PCN in accordance with Section D, "District Engineer's Decision." The district engineer may require mitigation to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see general condition 23).

B. CORPS NATIONAL GENERAL CONDITIONS FOR ALL NWPs

To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation. (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States. (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).
7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.
8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.
9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).
10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.
11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.
12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.
13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.
14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.
15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.
16. Wild and Scenic Rivers. (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. (b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management

responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status. (c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

17. Tribal Rights. No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur. (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed activity or that utilize the designated critical habitat that might be affected by the proposed activity. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have "no effect" on listed species or critical habitat, or until ESA section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps. (d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs. (e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required. (g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied. (b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer

determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed. (d) For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps. (e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment. (a) Discharges of dredged or fill material into waters of the United States are not authorized by NWP 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. (b) For NWP 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal: (a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum

extent practicable at the project site (i.e., on site). (b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal. (c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. (d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)). (e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses. (f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation. (2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)). (3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation. (4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). (5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs

to address the baseline conditions at the impact site and the number of credits to be provided. (6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs. (h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management. (i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a

road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature: "When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include: (a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions; (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and (c) The signature of the permittee certifying the completion of the activity and mitigation. The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not

commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is an NWP PCN and must include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals. (d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal. (2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed; (iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes. (3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame

concerning the proposed activity's compliance with the terms and conditions of the NWP, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

District Engineer's Decision: 1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the individual crossings of waters of the United States to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51, 52, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects. For those NWPs that have a waivable 300 linear foot limit for losses of intermittent and ephemeral stream bed and a 1/2-acre limit (i.e., NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52), the loss of intermittent and ephemeral stream bed, plus any other losses of jurisdictional waters and wetlands, cannot exceed 1/2-acre. 2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns. 3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or for impacts to other types of waters (e.g., streams). The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than

minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer. 4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31, or to evaluate PCNs for activities authorized by NWPs 21, 49, and 50), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

Further Information: 1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP. 2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law. 3. NWPs do not grant any property rights or exclusive privileges. 4. NWPs do not authorize any injury to the property or rights of others. 5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31).

C. CORPS SEATTLE DISTRICT REGIONAL GENERAL CONDITIONS: The following conditions apply to all NWPs for the Seattle District in Washington State, unless specified.

1. **Project Drawings**: Drawings must be submitted with pre-construction notification (PCN). Drawings must provide a clear understanding of the proposed project, and how waters of the U.S. will be affected. Drawings must be originals and not reduced copies of large-scale plans. Engineering drawings are not required. Existing and proposed site conditions (manmade and landscape features) must be drawn to scale.

2. **Aquatic Resources Requiring Special Protection**: Activities resulting in a loss of waters of the United States in mature forested wetlands, bogs and peatlands, aspen-dominated wetlands, alkali

wetlands, vernal pools, camas prairie wetlands, estuarine wetlands, wetlands in coastal lagoons, and wetlands in dunal systems along the Washington coast cannot be authorized by a NWP, except by the following NWPs:

- NWP 3 – Maintenance
- NWP 20 – Response Operations for Oil and Hazardous Substances
- NWP 32 – Completed Enforcement Actions
- NWP 38 – Cleanup of Hazardous and Toxic Waste

In order to use one of the above-referenced NWPs in any of the aquatic resources requiring special protection, prospective permittees must submit a PCN to the Corps of Engineers (see NWP general condition 32) and obtain written authorization before commencing work.

3. New Bank Stabilization in Tidal Waters of Puget Sound: Activities involving new bank stabilization in tidal waters in Water Resource Inventory Areas (WRIAs) 8, 9, 10, 11 and 12 (within the areas identified on Figures 1a through 1e on Corps website) cannot be authorized by NWP.

4. Commencement Bay: The following NWPs may not be used to authorize activities located in the Commencement Bay Study Area (see Figure 2 on Corps website):

- NWP 12 – Utility Line Activities (substations)
- NWP 13 – Bank Stabilization
- NWP 14 – Linear Transportation Projects
- NWP 23 – Approved Categorical Exclusions
- NWP 29 – Residential Developments
- NWP 39 – Commercial and Institutional Developments
- NWP 40 – Agricultural Activities
- NWP 41 – Reshaping Existing Drainage Ditches
- NWP 42 – Recreational Facilities
- NWP 43 – Stormwater and Wastewater Management Facilities

5. Bank Stabilization: All projects including new or maintenance bank stabilization activities require PCN to the Corps of Engineers (see NWP general condition 32). For new bank stabilization projects only, the following must be submitted to the Corps of Engineers:

- a. The cause of the erosion and the distance of any existing structures from the area(s) being stabilized.
- b. The type and length of existing bank stabilization within 300 feet of the proposed project.
- c. A description of current conditions and expected post-project conditions in the waterbody.
- d. A statement describing how the project incorporates elements avoiding and minimizing adverse environmental effects to the aquatic environment and nearshore riparian area, including vegetation impacts in the waterbody.

In addition to a. through d., the results from any relevant geotechnical investigations can be submitted with the PCN if it describes current or expected conditions in the waterbody.

6. Crossings of Waters of the United States: Any project including installing, replacing, or modifying crossings of waters of the United States, such as culverts or bridges, requires submittal of a PCN to the Corps of Engineers (see NWP general condition 32). If a culvert is proposed to cross waters of the U.S. where salmonid species are present or could be present, the project must apply the stream simulation design method from the Washington Department of Fish and Wildlife located in the *Water Crossing Design Guidelines* (2013), or a design method which provides passage at all life stages at all flows where the salmonid species would naturally seek passage. If the stream simulation design method is not applied for a culvert where salmonid species are present or could be present, the project proponent must provide a rationale in the PCN sufficient to establish one of the following:

- a. The existence of extraordinary site conditions.

- b. How the proposed design will provide equivalent or better fish passage and fisheries habitat benefits than the stream simulation design method.

If a culvert is proposed to cross waters of the U.S. where salmonid species are present or could be present, project proponents must provide a monitoring plan with the PCN that specifies how the proposed culvert will be assessed over a five-year period from the time of construction completion to ensure its effectiveness in providing passage at all life stages at all flows where the salmonid species would naturally seek passage. Culverts installed under emergency authorization that do not meet the above design criteria will be required to meet the above design criteria to receive an after-the-fact nationwide permit verification.

7. Stream Loss: A PCN is required for all activities that result in the loss of any linear feet of stream beds. No activity shall result in the loss of any linear feet of perennial stream beds or the loss of greater than 300 linear feet of intermittent and/or ephemeral stream beds. A stream may be rerouted if it is designed in a manner that maintains or restores hydrologic, ecologic, and geomorphic stream processes, provided there is not a reduction in the linear feet of stream bed. Streams include brooks, creeks, rivers, and historical waters of the U.S. that have been channelized into ditches. This condition does not apply to ditches constructed in uplands. Stream loss restrictions may be waived by the district engineer on a case-by-case basis provided the activities result in net increases of aquatic resource functions and services.

8. Mitigation: Pre-construction notification is required for any project that will result in permanent wetland losses that exceed 1,000 square feet. In addition to the requirements of General Condition 23 (Mitigation), compensatory mitigation at a minimum one-to-one ratio will be required for all permanent wetland losses that exceed 1,000 square feet. When a PCN is required for wetland losses less than 1,000 square feet, the Corps of Engineers may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation for impacts to marine waters, lakes, and streams will be determined on a case-by-case basis. If temporary impacts to waters of the U.S. exceed six months, the Corps of Engineers may require compensatory mitigation for temporal effects.

9. Magnuson-Stevens Fishery Conservation and Management Act – Essential Fish Habitat

Essential Fish Habitat (EFH) is defined as those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity. If EFH may be adversely affected by a proposed activity, the prospective permittee must provide a written EFH assessment with an analysis of the effects of the proposed action on EFH. The assessment must identify the type(s) of essential fish habitat (i.e., Pacific salmon, groundfish, and/or coastal-pelagic species) that may be affected. If the Corps of Engineers determines the project will adversely affect EFH, consultation with NOAA Fisheries will be required. Federal agencies should follow their own procedures for complying with the requirements of the Magnuson-Stevens Fishery Conservation and Management Act. If PCN is required for the proposed activity, Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements.

10. Forage Fish: For projects in forage fish spawning habitat, in-water work must occur within designated forage fish work windows, or when forage fish are not spawning. If working outside of a designated work window, or if forage fish work windows are closed year round, work may occur if the work window restriction is released for a period of time after a forage fish spawning survey has been conducted by a biologist approved by the Washington State Department of Fish and Wildlife (WDFW). Forage fish species with designated in-water work windows include Pacific sand lance (*Ammodytes hexapterus*), Pacific herring (*Clupea pallasii*), and surf smelt (*Hypomesus pretiosus*). This RGC does not apply to NWP 48, *Commercial Shellfish Aquaculture Activities*. Please see specific regional conditions for NWP 48.

11. Notification of Permit Requirements: The permittee must provide a copy of the nationwide permit authorization letter, conditions, and permit drawings to all contractors and any other parties performing the authorized work prior to the commencement of any work in waters of the U.S. The permittee must ensure all appropriate contractors and any other parties performing the authorized work at the project site have read and understand relevant NWP conditions as well as plans, approvals, and documents referenced in the NWP letter. A copy of these documents must be maintained onsite throughout the duration of construction.

12. Construction Boundaries: Permittees must clearly mark all construction area boundaries before beginning work on projects that involve grading or placement of fill. Boundary markers and/or construction fencing must be maintained and clearly visible for the duration of construction. Permittees should avoid and minimize removal of native vegetation (including submerged aquatic vegetation) to the maximum extent possible.

13. Temporary Impacts and Site Restoration

- a. Temporary impacts to waters of the U.S. must not exceed six months unless the prospective permittee requests and receives a waiver by the district engineer. Temporary impacts to waters of the U.S. must be identified in the PCN.
- b. No more than 1/2 acre of waters of the U.S. may be temporarily filled unless the prospective permittee requests and receives a waiver from the district engineer (temporary fills do not affect specified limits for loss of waters associated with specific nationwide permits).
- c. Native soils removed from waters of the U.S. for project construction should be stockpiled and used for site restoration. Restoration of temporarily disturbed areas must include returning the area to pre-project ground surface contours. If native soil is not available from the project site for restoration, suitable clean soil of the same textural class may be used. Other soils may be used only if identified in the PCN.
- d. The permittee must revegetate disturbed areas with native plant species sufficient in number, spacing, and diversity to restore affected functions. A maintenance and monitoring plan commensurate with the impacts, may be required. Revegetation must begin as soon as site conditions allow within the same growing season as the disturbance unless the schedule is approved by the Corps of Engineers. Native plants removed from waters of the U.S. for project construction should be stockpiled and used for revegetation when feasible. Temporary Erosion and Sediment Control measures must be removed as soon as the area has established vegetation sufficient to control erosion and sediment.
- e. If the Corps determines the project will result in temporary impacts of submerged aquatic vegetation (SAV) that are more than minimal, a monitoring plan must be submitted. If recovery is not achieved by the end of the monitoring period, contingencies must be implemented, and additional monitoring will be required.

This RGC does not apply to NWP 48, *Commercial Shellfish Aquaculture Activities*. Please see specific regional conditions for NWP 48.

D. CORPS REGIONAL SPECIFIC CONDITIONS FOR THIS NWPS:

1. Private residential driveways in waters of the U.S. with footprints wider than 22 feet or longer than 200 feet are not authorized by this NWP. For this requirement, "footprint" refers to the bottom width of the roadway fill prism.
2. A pre-construction notification must be submitted to the district engineer (see NWP general condition 32) for linear transportation project crossings in tidal waters.

E. ECOLOGY 401 CERTIFICATION: GENERAL CONDITIONS

In addition to all the Corps National and Seattle Districts' Regional permit conditions, the following State General Section 401 Water Quality Certification (Section 401) conditions apply to all Nationwide Permits whether **certified** or **partially certified** in the State of Washington.

1. **For in-water construction activities.** Ecology Section 401 review is required for projects or activities authorized under NWP that will cause, or may be likely to cause or contribute to an exceedance of a State water quality standard (Chapter 173-201A WAC) or sediment management standard (Chapter 173-204 WAC). State water quality standards and sediment management standards are available on Ecology's website. Note: In-water activities include any activity within a wetland and/or activities below the ordinary high water mark (OHWM).

2. **Projects or Activities Discharging to Impaired Waters.** Ecology Section 401 review is required for projects or activities authorized under NWP if the project or activity will occur in a 303(d) listed segment of a waterbody or upstream of a listed segment and may result in further exceedances of the specific listed parameter. To determine if your project or activity is in a 303(d) listed segment of a waterbody, visit Ecology's Water Quality Assessment webpage for maps and search tools.

3. **Application.** For projects or activities that will require Ecology Section 401 review, applicants must provide Ecology with a Joint Aquatic Resources Permit Application (JARPA) along with the documentation provided to the Corps, as described in National General Condition 32, Pre-Construction Notification, including, when applicable: (a) A description of the project, including site plans, project purpose, direct and indirect adverse environmental effects the project would cause, best management practices (BMPs), and any other Department of the Army or federal agency permits used or intended to be used to authorize any part of the proposed project or any related activity. (b) Drawings indicating the Ordinary High Water Mark (OHWM), delineation of special aquatic sites and other waters of the state. Wetland delineations must be prepared in accordance with the current method required by the Corps and shall include Ecology's Wetland Rating form. Wetland rating forms are subject to review and verification by Ecology staff. Guidance for determining the OHWM is available on Ecology's website. (c) A statement describing how the mitigation requirement will be satisfied. A conceptual or detailed mitigation or restoration plan may be submitted. See State General Condition 5 for details on mitigation requirements. (d) Other applicable requirements of Corps Nationwide Permit General Condition 32, Corps Regional Conditions, or notification conditions of the applicable NWP. (e) Within 180 calendar days from receipt of applicable documents noted above **and** a copy of the final authorization letter from the Corps providing coverage for a proposed project or activity under the NWP Program Ecology will provide the applicant notice of whether an individual Section 401 will be required for the project. If Ecology fails to act within a year after receipt of **both** of these documents, Section 401 is presumed waived.

4. **Aquatic resources requiring special protection.** Certain aquatic resources are unique, difficult-to-replace components of the aquatic environment in Washington State. Activities that would affect these resources must be avoided to the greatest extent possible. Compensating for adverse impacts to high value aquatic resources is typically difficult, prohibitively expensive, and may not be possible in some landscape settings. Ecology Section 401 review is required for activities in or affecting the following aquatic resources (and not prohibited by Seattle District Regional General Condition): (a) Wetlands with special characteristics (as defined in the Washington State Wetland Rating Systems for western and eastern Washington, Ecology Publications #14-06-029 and #14-06-030):

- Estuarine wetlands.
- Wetlands of High Conservation Value.
- Bogs.
- Old-growth and mature forested wetlands.
- Wetlands in coastal lagoons.
- Interdunal wetlands.

- Vernal pools.
- Alkali wetlands.

(b) Fens, aspen-dominated wetlands, camas prairie wetlands. (c) Marine water with eelgrass (*Zostera marina*) beds (except for NWP 48). (d) Category I wetlands. (e) Category II wetlands with a habitat score ≥ 8 points. This State General Condition does not apply to the following Nationwide Permits: NWP 20 – *Response Operations for Oil and Hazardous Substances*, NWP 32 – *Completed Enforcement Actions*

5. Mitigation. Applicants are required to show that they have followed the mitigation sequence and have first avoided and minimized impacts to aquatic resources wherever practicable. For projects requiring Ecology Section 401 review with unavoidable impacts to aquatic resources, adequate compensatory mitigation must be provided.

(a) Wetland mitigation plans submitted for Ecology review and approval shall be based on the most current guidance provided in *Wetland Mitigation in Washington State, Parts 1 and 2* (available on Ecology's website) and shall, at a minimum, include the following:

i. A description of the measures taken to avoid and minimize impacts to wetlands and other waters of the U.S.

ii. The nature of the proposed impacts (i.e., acreage of wetlands and functions lost or degraded).

iii. The rationale for the mitigation site that was selected.

iv. The goals and objectives of the compensatory mitigation project.

v. How the mitigation project will be accomplished, including construction sequencing, best management practices to protect water quality, proposed performance standards for measuring success and the proposed buffer widths.

vi. How it will be maintained and monitored to assess progress towards goals and objectives. Monitoring will generally be required for a minimum of five years. For forested and scrub-shrub wetlands, 10 years of monitoring will often be necessary.

vii. How the compensatory mitigation site will be legally protected for the long term. Refer to *Wetland Mitigation in Washington State -- Part 2: Developing Mitigation Plans* (Ecology Publication #06-06-011b) and *Selecting Wetland Mitigation Sites Using a Watershed Approach* (Ecology Publications #09-06-032 (Western Washington) and #10-06-007 (Eastern Washington)) for guidance on selecting suitable mitigation sites and developing mitigation plans. Ecology encourages the use of alternative mitigation approaches, including credit/debit methodology, advance mitigation, and other programmatic approach such as mitigation banks and in-lieu fee programs. If you are interested in proposing use of an alternative mitigation approach, consult with the appropriate Ecology regional staff person. Information on alternative mitigation approaches is available on Ecology's website.

(b) Mitigation for other aquatic resource impacts will be determined on a case-by-case basis.

6. Temporary Fills. Ecology Section 401 review is required for any project or activity with temporary fill in wetlands or other waters of the state for more than 90 days, unless the applicant has received written approval from Ecology. Note: This State General Condition does not apply to projects or activities authorized under NWP 33, *Temporary Construction, Access, and Dewatering*

7. Stormwater pollution prevention: All projects that involve land disturbance or impervious surfaces must implement stormwater pollution prevention or control measures to avoid discharge of pollutants in stormwater runoff to waters of the State.

(a) For land disturbances during construction, the applicant must obtain and implement permits (e.g., Construction Stormwater General Permit) where required and follow Ecology's current stormwater manual.

(b) Following construction, prevention or treatment of on-going stormwater runoff from impervious surfaces shall be provided. Ecology's Stormwater Management and Design Manuals and stormwater permit information are available on Ecology's website.

8. State Section 401 Review for PCNs not receiving 45-day response from the Seattle District. In the event the Seattle District Corps does not issue a NWP authorization letter within 45 calendar days of receipt of a **complete** pre-construction notification, the applicant must contact Ecology for Section 401 review prior to commencing work.

F. ECOLOGY 401 CERTIFICATION: SPECIFIC CONDITIONS FOR THIS NWP:

Certified subject to conditions. Ecology Section 401 review is required for projects or activities authorized under this NWP if:

1. The project or activity impacts more than more than 1/3 acre of waters of the state.
2. The project includes fill related to a residential and/or commercial development.
3. The project or activity is in or adjoining a known contaminated or cleanup site.

G. COASTAL ZONE MANAGEMENT CONSISTENCY RESPONSE FOR THIS NWP:

(Note: This is only applies in the following counties: Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Mason, Pacific, Pierce, San Juan, Skagit, Snohomish, Thurston, Wahkiakum and Whatcom)

Response: Ecology concurs that this NWP is consistent with the CZMP, subject to the following condition: An individual Coastal Zone Management Consistency Determination is required for project or activities under this NWP if State Section 401 review is required.

General Conditions: For Non-Federal Permittees

1. Necessary Data and Information. A Coastal Zone Management Program "Certification of Consistency" form is required for projects located within a coastal county. "Certification of Consistency" forms are available on Ecology's website. The form shall include a description of the proposed project or activity and evidence of compliance with the applicable enforceable policies of the Washington Coastal Zone Management Program (CZMP). Also, a map of the site location is required.
2. Timing. Within 6 months from receipt of the necessary data and information, Ecology will provide a federal consistency determination for the proposed project or activity. If Ecology fails to act within the 6 month period, concurrence with the CZMP is presumed.

General Conditions: For Federal Permittees (Agencies)

1. Necessary Data and Information. Federal agencies shall submit the determination, information, and analysis required by 15 CFR 930.39 to obtain a federal consistency determination.
2. Timing. Within 60 days from receipt of the necessary data and information, Ecology will provide a federal consistency determination for the proposed project or activity. If Ecology fails to act within the 60 day period, concurrence with the CZMP is presumed.



US Army Corps
of Engineers ®
Seattle District

CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT



Permit Number: NWS-2019-67

Name of Permittee: Lewis County Public Works

Date of Verification: May 14, 2019

Upon completion of the activity authorized by this permit, please check the applicable boxes below, date and sign this certification, and return it to the following address:

Department of the Army
U.S. Army Corps of Engineers
Seattle District, Regulatory Branch
Post Office Box 3755
Seattle, Washington 98124-3755

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of your authorization, your permit may be subject to suspension, modification, or revocation.

<input type="checkbox"/>	<p>The work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.</p> <p>Date work complete: _____</p> <p><input type="checkbox"/> Photographs and as-built drawings of the authorized work (OPTIONAL, unless required as a Special Condition of the permit).</p>
--------------------------	--

<input type="checkbox"/>	<p>If applicable, the mitigation required (e.g., construction and plantings) in the above-referenced permit has been completed in accordance with the terms and conditions of this permit (not including future monitoring).</p> <p>Date work complete: _____ <input type="checkbox"/> N/A</p> <p><input type="checkbox"/> Photographs and as-built drawings of the mitigation (OPTIONAL, unless required as a Special Condition of the permit).</p>
--------------------------	--

<input type="checkbox"/>	<p>Provide phone number/email for scheduling site visits (must have legal authority to grant property access).</p> <p>Printed Name: _____</p> <p>Phone Number: _____ Email: _____</p>
--------------------------	---

Printed Name: _____

Signature: _____

Date: _____

**LEWIS COUNTY – STATE ENVIRONMENTAL POLICY ACT
THRESHOLD DETERMINATION
DETERMINATION OF NONSIGNIFICANCE (DNS)**

LEAD AGENCY: Lewis County – Community Development Department

PROPONENT: Lewis County – Public Works Department

FILE NUMBERS: SEP19-0002, SHD19-0001, MSR19-0034, FD19-00003, G19-00002, G19-00003, G19-00004, G19-00005 & G19-00006

DESCRIPTION OF PROPOSAL: Lewis County Public Works proposes to install roadway safety improvements that will upgrade signs, improve clear zones (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and replacement of existing guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. Right of Way (ROW) acquisition will occur on Parcels 021970001005 and 021970001004 on Cooks Hill Road MP 3.8 to 3.9, Parcels 017642003004 on Hwy 603 MP 1.87 to 1.92, and Parcels 012654002000 and 012654001000 on West Side Hwy MP 0.32 to 0.36.

This work is proposed to be phased. The first phase of the project is proposed to take place from May 1, 2019 to December 30, 2019; this work is anticipated to include: 1) the replacement of guardrail at Harrison Avenue MP 2.53 to 2.55; 2) placement of fill for slope flattening at Galvin Road MP 1.54 to 1.62; 3) the placement of fill for guardrail landings at Cooks Hill Road from MP 1.70 to 1.76 and Summerside Drive 0.00 to 0.06; 4) the placement of fill for guardrail landings at Cooks Hill Road from to MP 3.15 to 3.28; 5) the placement of fill for slope flattening at Cooks Hill Road MP 3.80 to 3.90; 6) the placement of fill for guardrail landings at Cooks Hill Road from MP 4.08 to 4.20; 7) the placement of fill for slope flattening, along the eastern roadside of Centralia Alpha Road, from MP 0.09 to 0.29, and along the western roadside, from MP 0.17 to 0.25 ; 8) the placement of fill for slope flattening at Highway 603 MP 1.87 to 1.92; 9) the placement of fill for slope flattening at Highway 603 MP 10.37 to 10.47; 10) the placement of fill for slope flattening as well as guardrail landings, installation of new guardrail, and replacement of existing guardrail at Leonard Road MP 0.10 to 0.39; 11) the placement of fill for slope flattening and a guardrail landing, installation of new guardrail, and replacement of existing guardrail at Leonard Road MP 0.54 to 0.74; 12) the placement of fill for slope flattening at Leonard Road MP 0.84 to 0.92; 13) the placement of fill for slope flattening as well as guardrail landings, installation of new guardrail, and replacement of existing guardrail at MP 1.08 to 1.43; and 14) the placement of fill for a guardrail landing, installation of new guardrail, and replacement of existing guardrail at Leonard Road MP 1.78 to 1.85.

All remaining roadway safety work (such as installation of new guardrail, replacement of guardrail, and the placement of fill for either slope flattening or guardrail landings) is anticipated to take place within the subsequent five years. This proposed work is anticipated to include work at Galvin Road MP 1.20 to 1.54; Reynolds Avenue MP 0.33 to 0.71; Centralia Alpha Road, along the western roadside, from MP 0.05 to 0.17; Highway 603 MP 0.27 to 0.36, MP 2.50 to 2.62, MP 2.74 to 2.82, and MP 9.23 to 9.32; and West Side Highway MP 0.32 to 0.36.

For ease of permitting review all proposed work is included in the SEPA checklist, only areas of proposed impacts to aquatic resources are included in the JARPA Application, and individual fill and grade permit applications were filled out for all roads where work is proposed to take place in 2019.

The project proposes to permanently impact 0.322 acres of wetland and 0.053 acres of jurisdictional drainages, impacts to 1.407 acres of wetland and/or jurisdictional drainage buffer. To mitigate for unavoidable impacts to wetlands compensatory mitigation will be implemented in accordance with the Wetland Mitigation in Washington State Interagency Guidance and Lewis County Code. Impacts to 0.209 acres of Category II wetland and 0.11 acres of Category III wetland in the Chehalis Basin will be mitigated for through the purchase/utilization of 0.361 acres of wetland from the Chehalis Basin Mitigation Bank, Hanaford Valley Site. Additionally, impacts to 0.003 acres of Category IV wetland in the Cowlitz Basin will be mitigated for through the purchase/utilization of 0.003 acres of wetland from the Coweeman River Mitigation Bank.

While the project will not require work within any streams approximately 0.053 acres of impact to jurisdictional drainages as the drainages to be impacted are roadside ditches which carry stormwater and no conveyance will be lost as the stormwater culverts under access roads will either be extended to carry these flows or flows are anticipated to relocate to the new toe of the slope. No streams are proposed to be impacted by this project.

Wetland and stream buffers to be impacted by the proposed project area are currently within the right-of-way and are primarily vegetated with weedy roadside grasses or residential lawn providing little habitat value. Since the proposed change in use is not anticipated to significantly affect the change in the function of the buffers no mitigation is proposed for impacts to buffers.

It is anticipated that this work will be authorized by the US Army Corps of Engineers under multiple Nationwide Permit 14's for Linear Transportation Projects. As the Washington Department of Ecology (DOE) certifies Nationwide Permit 14 subject to condition and the project will meet all such conditions it is anticipated that the proposed project will be certified by the DOE under Section 401 after individual review.

No fish streams are to be impacted by the proposed project. Review of the Washington State Department of Fish and Wildlife (WDFW) and Priority Habitat Species (PHS) Database, WDFW PHS GIS data, and the SalmonScape interactive mapper determined portions of the proposed project are within a Section adjacent to an Occurrence Point for the Marbled Murrelet; however, these areas were reviewed by WSDOT and it was determined there is no suitable habitat within 0.25 miles of the proposed work. A signed copy of the NEPA Categorical Exclusion Document used by the Federal Highway Administration (FHWA) will be provided upon receipt.

No cultural resources survey was performed for this project. The Washington Department of Transportation consulted with the Department of Archaeology and Historic Preservation on behalf of FHWA and it was determined that this project meets exemptions A-5, A-16, and A-18 of FHWA's Section 106 Programmatic Agreement. These documents have been attached for your records.

Electronic copies of permit applications and supporting documents, with the exception of Section 106 documentation, are available for review and download at:

<https://cloud.lewiscountywa.gov/owncloud/index.php/s/pcou24Fx9HzpHMn>

LOCATION OF PROPOSAL: The project area includes portions of various roadway segments throughout Lewis County; Harrison Avenue Mile Post [MP] 2.53 to 2.55; Galvin Road MP 1.20 to 1.62; Reynolds Avenue MP 0.33 to 0.71; Cooks Hill Road MP 1.70 to 4.20; Summerside Drive MP 0.00 to 0.06; Centralia Alpha Road MP 0.05 to 0.29; Highway 603 MP 0.27 to 2.82 and MP 9.23 to 10.48; Leonard Road MP 0.08 to 1.85; and West Side Highway MP 0.32 to 0.36, Lewis County, WA on existing County Road Right of Way and on three areas of new ROW acquisition on tax parcel numbers 021970-001-004, 021970-001-005, 017642-003-004, 012654-001-000 & 012654-002-000.

THRESHOLD DETERMINATION:

The lead agency for this proposal has determined that it does not have a probable, significant adverse impact on the environment. An environmental impact statement (EIS) is NOT required under RCW 43.21C.030(2)(c). This decision was made after review by Lewis County of a completed environmental checklist and other information on file with this agency and such information is adopted herein by reference. This information is available for public review upon request.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days from the issue date below. Written comments may be submitted during the 14-day period.

Responsible Official:

Lee Napier, Director
Lewis County Community Development
2025 NE Kresky Avenue
Chehalis, Washington 98532

Contact Person:

Karen A. Witherspoon, AICP, Senior Project Planner


for Responsible Official

Date of Issue:

March 21, 2019

*This SEPA determination may be appealed in writing to the Lewis County Hearings Examiner until 4 pm on **April 11, 2019** at the Lewis County Community Development Permit Center. Appellants should be prepared to make **specific factual objections**. The appeal procedure is established in Lewis County Code (LCC) Section 17.110.130 and LCC Section 2.25.130. The administrative appeal fee is established by Resolution No. 18-349 of the Board of County Commissioners.*



Community Development

2025 NE Kresky Avenue
Chehalis WA 98532

DATE: April 24, 2019

TO: Washington State Department of Ecology – Shorelines
Washington State Attorney General Office - Shorelines

CC: Lewis County Prosecutor's Office – Eric Eisenberg

FROM: *KW* Karen Witherspoon, AICP, Senior Project Planner

SUBJECT: Shoreline Substantial Development Permit – SHD19-0001
Lewis County Public Works – Highway Safety Improvement
Program Phase II

Enclosed please find materials related to the County's final approval of SHD19-0001 permit application. A letter has been sent to the applicant explaining that Ecology has 21 days to review these materials after receiving them as per WAC 173-27-190(1)). Ecology will provide written notification to Lewis County Community Development Department and the applicant of the date of filing (WAC 173-27-130(8)).

Enclosure: Permit Data Sheet
Substantial Development Permit – SHD19-0001
Staff Report
JARPA Application

Shoreline Management Act
Permit Data Sheet and Transmittal Letter

FROM: Lewis County Community Development
Karen Witherspoon, AICP, Senior Planner
2025 NE Kresky Avenue
Chehalis, WA 98532-2626

TO: Department of Ecology
Zach Meyer, Shorelines Specialist
PO Box 47775
Olympia, WA 98504-7775

CC: Lewis County Public Works
Attention: Ann Weckback
2025 NE Kresky Ave
Chehalis, WA 98532

TO: Department of Ecology
Office of the Attorney General
629 Woodland Square Loop
Olympia, WA 98504-0117

CC: Lewis County Prosecutor's Office –
Eric Eisenberg

Date of Transmittal: April 24, 2019 *Date of Receipt (provided by Ecology):* _____

Type of Permit: (Indicate all that apply)

X Substantial Development; Conditional Use; Variance; Revision; _____

Other

Local Government Decision: X Approval; Conditional Approval; _____

Denial:

Applicant Information:

Lewis County Public Works
Attention: Ann Weckback
2025 NE Kresky Ave
Chehalis, WA 98532

Phone(s): (360) 740-1440

Is the applicant the property owner? X Yes; No

Location of Property: (section, township and range)

The activities that are within shoreline jurisdiction include Galvin Road MP 0.90 to 1.91; Reynolds Avenue MP 0.04 to 1.00; Centralia Alpha Road MP 0.00 to 0.60; Highway 603 MP 0.00 to 3.12 and Leonard Road MP 0.00 to 2.14 in Lewis County, WA within County Road right-of-way – Section 35, Township 15N, Range 03W; Sections 5 & 32, Townships 14N & 15N, Range 02W; Sections 15 & 16, Township 14N, Range 02W; Sections 7 & 8, Township 13N, Range 02W; Sections 3 & 9, Township 12N, Range 02W; Sections 5 & 6, Township 12N, Range 01E; and Sections 31 & 32, Township 13N, Range 02W, WM. These activities will be located within the shoreline jurisdictions of the Chehalis River, Coffee Creek, Salzer Creek, and the South Fork Newaukum River and/or their associated wetlands. No Right of Way (ROW) acquisitions will occur within the shoreline jurisdiction.

Water Body Name: Chehalis River, Coffee Creek, Salzer Creek and South Fork Newaukum River

Shoreline of Statewide Significance: X (for Chehalis River only) Yes; ___ No.

Environment Designation: Rural Conservancy, Urban Conservancy and High Intensity

Description of Project: Lewis County Public Works to install road safety improvements that will upgrade signs, improve clear zones (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and replacement of existing guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface.

Notice of Application Date: March 21, 2019

Final Decision Date: April 24, 2019

By: Karen Witherspoon, AICP, Senior Project Planner *Phone:* (360) 740-2637

**LEWIS COUNTY
PERMIT FOR 2017 SHORELINE MASTER PROGRAM**

Lewis County Application: SHD19-0001
Date Application Received: January 11, 2019
Date Permit Issued: April 24, 2019

Approved Denied

Type of Action(s):

- Substantial Development Permit
- Conditional Use Permit
- Variance Permit

Pursuant to RCW 90.58, a permit is hereby granted to:

Lewis County Public Works
Ann Weckback
2025 NE Kresky Ave
Chehalis, WA 98532 (360) 740-1440

to undertake the following development:

Highway Safety Improvement Program – Phase II. Lewis County Public Works to install road safety improvements that will upgrade signs, improve clear zones (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and replacement of existing guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface.

The activities that are within County shoreline jurisdiction include Galvin Road MP 0.90 to 1.91; Reynolds Avenue MP 0.04 to 1.00; Centralia Alpha Road MP 0.00 to 0.60; Highway 603 MP 0.00 to 3.12 and Leonard Road MP 0.00 to 2.14 in Lewis County, WA within County Road right-of-way, Located in Section 35, Township 15N, Range 03W; Sections 5 & 32, Townships 14N & 15N, Range 02W; Sections 15 & 16, Township 14N, Range 02W; Sections 7 & 8, Township 13N, Range 02W; Sections 3 & 9, Township 12N, Range 02W; Sections 5 & 6, Township 12N, Range 01E; and Sections 31 & 32, Township 13N, Range 02W, WM.

These activities will be located within the shoreline jurisdictions of the Chehalis River, Coffee Creek, Salzer Creek, and the South Fork Newaukum River and/or their associated wetlands. No Right of Way (ROW) acquisitions will occur within the shoreline jurisdiction.

Lewis County's Shoreline Master Program designates these areas of the Chehalis River, Coffee Creek, Salzer Creek, and the South Fork Newaukum River as Rural Conservancy, Urban Conservancy and High Intensity Environments.

Development pursuant to this permit shall be undertaken with the following terms and conditions:

1. The applicant shall obtain all other required local, state and federal permits and approvals.
2. The applicant shall employ Best Management Practices for Water Quality prior to and during the project.
3. All development shall comply with the conditions set forth in the Lewis County Land Development Review (LDR19-0016).
4. All disturbed areas of vegetation shall be reseeded or replanted with native plant types. All exposed/unworked soils shall be stabilized with BMPs within 2 days (October-June) and 7 days (July-September).
5. The applicant shall maintain a spill prevention and emergency spill response emergency plan on-site during all phases of construction.
6. Erosion control measures must be in place prior to any clearing grading, or construction.
7. During construction, all releases of oils, hydraulic fluids, fuels, other petroleum products, paints, solvents, and other deleterious materials must be contained and removed in a manner that will prevent their discharge to waters and soils of the state. The clean up of spills should take precedence over other work on site.
8. Notice: In the event any archaeological or historic materials are encountered during project activity, work in the immediate area must stop. The area will be secured, and the project proponent will notify the concerned Tribes and all appropriate county, state, and federal agencies, including the Department of Archaeology and Historic Preservation. If human remains are uncovered, appropriate law enforcement agencies shall be notified first. An Inadvertent Discovery Plan is required to be followed.

This permit is granted pursuant to the Shoreline Management Act of 1971 and nothing in this permit shall excuse the applicant from compliance with any other federal, state, or local statutes, ordinances or regulations applicable to this project, but not inconsistent with the Shoreline Management Act (Chapter 90.58 RCW).

This permit may be rescinded pursuant to RCW 90.58.140(8) in the event the permittee fails to comply with the terms or conditions hereof.

CONSTRUCTION PURSUANT TO THIS PERMIT WILL NOT BEGIN OR IS NOT AUTHORIZED UNTIL TWENTY-ONE (21) DAYS FROM THE DATE OF FILING AS DEFINED IN RCW 90.58.140(6) AND WAC 173-27-130 OR UNTIL ALL REVIEW PROCEEDINGS INITIATED WITHIN TWENTY-ONE (21) DAYS FROM THE DATE OF SUCH FILING HAVE TERMINATED; EXCEPT AS PROVIDED IN RCW 90.58.140(5)(a)(b)(c).

PERMIT AUTHORIZATION SHALL TERMINATE WITHIN FIVE (5) YEARS AFTER THE APPROVAL OF THE PERMIT BY THE LOCAL GOVERNMENT: PROVIDED THAT LOCAL GOVERNMENT MAY AUTHORIZE A SINGLE EXTENSION BEFORE THE END OF THE TIME LIMIT, WITH PRIOR NOTICE TO PARTIES OF RECORD AND THE DEPARTMENT OF ECOLOGY, FOR UP TO ONE YEAR BASED ON REASONABLE FACTORS AS DEFINED IN WAC 173-27-090.

**LEWIS COUNTY COMMUNITY DEVELOPMENT DEPARTMENT
PLANNING DIVISION**



Karen Witherspoon, AICP
Senior Project Planner

APPEALS OF DECISIONS:

Any person aggrieved by the granting or denying of a shoreline substantial development permit, conditional use permit, or variance, or by the rescinding of a permit in accordance with the provision of the SMP, may seek review from the State Shorelines Hearings Board. A request for review may be done by filing a petition for review with the State Shorelines Hearings Board within 21 days of the date of filing of the final decision, as defined by RCW 90.58.140(6) and by concurrently filing copies of such request with the County Clerk, Ecology and the Attorney General's office. State Shorelines Hearings Board regulations are provided in RCW 90.58.180 and Chapter 461-08 WAC.

Lewis County Community Development Staff Report: Findings, Conclusions and Recommendations for: Shoreline Substantial Development Permit (SHD19-0001)

Project Applicant: Lewis County Public Works (Ann Weckback)

Project Description: Lewis County Public Works to install road safety improvements that will upgrade signs, improve clear zones (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and replacement of existing guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. No Right of Way (ROW) acquisitions will occur within the shoreline jurisdiction.

Project Location: The activities that are within County shoreline jurisdiction include Galvin Road MP 0.90 to 1.91; Reynolds Avenue MP 0.04 to 1.00; Centralia Alpha Road MP 0.00 to 0.60; Highway 603 MP 0.00 to 3.12 and Leonard Road MP 0.00 to 2.14 in Lewis County, WA within County Road right-of-way, Located in Section 35, Township 15N, Range 03W; Sections 5 & 32, Townships 14N & 15N, Range 02W; Sections 15 & 16, Township 14N, Range 02W; Sections 7 & 8, Township 13N, Range 02W; Sections 3 & 9, Township 12N, Range 02W; Sections 5 & 6, Township 12N, Range 01E; and Sections 31 & 32, Township 13N, Range 02W, WM.

Project Parcel Number: Within County road right-of-way

Shoreline Stream: Chehalis River, Coffee Creek, Salzer Creek, and the South Fork Newaukum River

Shoreline Environment: Rural Conservancy, Urban Conservancy and High Intensity

Comprehensive Plan Designation: Rural, UGA, Resource and LAMIRD

Zoning Classification: Rural Development District 20 Acre (RDD-20), Urban Growth Area (UGA) City of Centralia, Agricultural Resource Lands (ARL) and Small Town Mixed Use (STMU)

Background Information:

The application was submitted on January 11, 2019. A Land Development Review (LDR19-0016) for critical areas and resource lands was issued on March 18, 2019.

Lewis County is Lead Agency for this proposal. The SEPA Checklist, SEPA Threshold Determination and Shoreline Substantial Development Permit Application were routed internally to county departments and externally to state agencies on March 13, 2019 to

request comments. The SEPA Threshold Determination was published in The Chronicle on March 21, 2019. No appeals of the SEPA threshold determination were submitted within the appeal timeframe. The Determination of Non-Significance (DNS) was retained and is final.

The proposed project was reviewed under the Lewis County 2017 Shoreline Master Program and other applicable Lewis County Codes in effect at the time of complete application.

2017 Lewis County Shoreline Master Program Findings:

Applicability: The project is located within the Shoreline Jurisdiction of the Chehalis River, Coffee Creek, Salzer Creek and the South Fork Newaukum River and/or their associated wetlands. The 2017 Lewis County Shoreline Master Program applies to this project.

Shoreline Jurisdiction: Yes; Rural Conservancy Environment, Urban Conservancy Environment and High Intensity Environment

Shoreline of Statewide Significance: Yes, for the Chehalis River only

Shoreline Environment Designations:

Rural Conservancy Management Policies:

1. Uses in the Rural Conservancy shoreline environment designation should include those that sustain the shoreline area's physical and biological resources and do not substantially degrade ecological functions or the rural or natural character of the shoreline area.
2. Water-dependent and water-enjoyment recreation facilities that do not deplete the resource over time, such as boating and water access facilities, angling, hunting, wildlife viewing trails, and swimming beaches, are preferred uses, provided significant adverse impacts to the shoreline are mitigated.
3. Agriculture, aquaculture, forest practices, and low-intensity residential development when consistent with provisions of the SMP are preferred uses.
4. Low-intensity, water-oriented commercial and industrial uses are limited to areas where those uses have located in the past or at sites that possess conditions and services to support the development.
5. Mining and related uses may be appropriate within the rural conservancy environment when conducted in a manner consistent with the environment policies and the provisions of WAC 173-26-241(3)(h) and when located consistent with mineral resource lands designation criteria in accordance with RCW 36.70A.170 and WAC 365-190-070.
6. Developments and uses that would substantially degrade or permanently deplete the biological resources of the area should not be allowed.

7. Construction of new structural shoreline stabilization and flood control works should be allowed when the documented need exists to protect an existing primary structure or ecological functions. Mitigation may be necessary for such construction. New development should be designed and located to preclude the need for such work. Shoreline stabilization measures shall infringe on private property rights to the minimum extent necessary.
8. Proposed residential development should be designed to ensure no net loss of shoreline ecological functions and preserve the existing character of the shoreline.

Staff Response: The portion of the project that is located in the Rural Conservancy Environment consists of Galvin Road MP 0.90 to MP 1.92 guardrail installation and areas of fill slope or guardrail landings; Centralia Alpha Road MP 0.00 to MP 0.60 guardrail installation and areas of fill slope or guardrail landings; HWY 603 MP 0.00 to MP 3.12 guardrail installation and areas of fill slope or guardrail landings; and Leonard Road MP 0.00 to MP 2.14 guardrail installation and areas of fill slope or guardrail landings. The purpose of the project is improvements to highway/road safety and is entirely within the existing county road right of way. As proposed, the project meets the applicable policies.

Urban Conservancy Management Policies:

1. Allow uses that preserve the natural character of the shoreline environment, promote preservation of open space, floodway, floodplain, or critical areas directly, or over the long-term as the primary allowed uses. Allow uses that result in restoration of ecological functions if the use is otherwise compatible with the purpose of the environment and setting.
2. Implement public access and public recreation objectives whenever feasible and significant ecological impacts can be mitigated.
3. Give preferred water-oriented uses priority instead of non-water-oriented uses. Water-dependent and recreational development should be given highest priority.
4. Ensure that standards for new development for shoreline stabilization measures, vegetation conservation, water quality, and shoreline modifications do not result in a net loss of ecological functions or degrade other shoreline values.

Staff Response: The portion of the project that is located in the Urban Conservancy Environment consists of Reynolds Avenue MP 0.10 to MP 0.35 and MP 0.55 to MP 0.61 guardrail installation and areas of fill slope or guardrail landings. The purpose of the project is improvements to highway/road safety and is entirely within the existing county road right of way. As proposed, the project meets the applicable policies.

High Intensity Management Policies:

1. Prioritize uses on sites with physical access the water in the following order of preference:
 - a. Water-dependent
 - b. Water-related
 - c. Water-enjoyment
2. Allow for non-water-related uses within this designation where water-dependent uses are not feasible, because a lake, river, or stream is unnavigable, or where there is a developed roadway between the OHWM and the proposed use or this designation is used as a parallel designation that is not adjacent to the OHWM.
3. Allow the development of new non-water-oriented uses either as part of a mixed-use development or where the applicant can demonstrate that the use will not conflict with or limit opportunities for water-oriented uses.
4. Design new development located in shoreline jurisdiction to result in no net loss of ecological function.
5. Restore and remediate shoreline areas within new development sites consistent with State and Federal laws.
6. Require visual and physical access where feasible with physical access prioritized over visual access.
7. Require full use of existing urban lands in shoreline jurisdiction before expanding intensive development.

Staff Response: The portion of the project that is located in the High Intensity Environment consists of Reynolds Avenue MP 0.46 to MP 0.55 guardrail installation and areas of fill slope or guardrail landings. The purpose of the project is improvements to highway/road safety and is entirely within the existing county road right of way. As proposed, the project meets the applicable policies.

General Regulations:

Environmental Impacts and Mitigation:

Regulations:

- A. The environmental impacts of development proposals shall be analyzed and include measures to mitigate environmental impacts not otherwise avoided or mitigated by compliance with the SMP and other applicable regulations.
- B. Mitigation measures shall be considered and applied in the following sequence of steps, listed in order of priority:
 1. Avoiding the impact altogether by not taking a certain action or parts of an action;
 2. Minimizing impacts by limiting the degree or magnitude of the action and its implementation by using appropriate technology or by taking affirmative steps to avoid or reduce impacts;
 3. Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;

4. Reducing or eliminating the impact over time by preservation and maintenance operations;
 5. Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and
 6. Monitoring the impact and the compensation projects and taking appropriate corrective measures.
- C. In determining appropriate mitigation measures applicable to development in shoreline jurisdiction, lower priority measures should be applied only where higher priority measures are determined to be infeasible or inapplicable.
 - D. Mitigation shall not be required that exceeds what is necessary to assure the development will result in no net loss of ecological functions in shoreline jurisdiction.
 - E. When compensatory measures are appropriate pursuant to the mitigation priority sequence above, preferential consideration shall be given to measures that replace the impacted functions directly and in the immediate vicinity of the impact. However, alternative compensatory mitigation measures that have been identified within a watershed plan, and address limiting factors or other critical resource conservation needs in the shoreline jurisdiction may be authorized. Authorization of compensatory mitigation measures may require appropriate safeguards, terms, or conditions as necessary to ensure no net loss of ecological functions.

Staff Response: The project includes roadway safety improvements within the existing road right-of-way, such as installation and replacement of guardrail, as well as installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. Impact to 0.209 acres of Category II wetland and 0.11 acres of Category III wetland in the Chehalis Basin will be mitigated for through the purchase/utilization of 0.361 acres of wetland from the Chehalis Basin Mitigation Bank, Hanford Valley Site. Additionally, impacts to 0.003 acres of Category IV wetland in the Cowlitz Basin will be mitigated for through the purchase/utilization of 0.003 acres of wetland from the Coweeman River Mitigation Bank. As proposed, the project meets the applicable policies.

Critical Areas and Shoreline Vegetation Conservation:

Regulations:

- A. Critical Areas Ordinance Adopted and Modified.
 1. Whether or not a shoreline permit or written statement of exemption is required, the provisions of this section shall apply to all uses, alterations, or developments within shoreline jurisdiction or shoreline buffers. All shoreline uses and activities shall be located, designed, constructed, and managed to protect the ecological functions and ecosystem wide processes provided by critical areas and shoreline vegetation.

Staff Response: As proposed, the project meets these regulations.

B. Shoreline Buffers.

1. The required critical area buffers for Type S streams, as established in LCC 17.35A.680 and modified by SMP Table 4-1: Shoreline Buffers, shall be considered shoreline buffers.
4. New uses and development that are not water-dependent, water-related, or water-enjoyment, accessory to water-dependent, water-related, or water-enjoyment uses or development, or that do not facilitate public access to waters of the State generally will not be authorized in shoreline buffers. Some uses or developments not meeting the criteria above may be authorized through buffer averaging or through issuance of a shoreline variance.
5. SMP Table 4-1: Shoreline Buffers establishes shoreline buffers by shoreline environment designation.

Staff Response: Table 4-1 lists transportation Facilities (expansion of roads within existing right-of-way) as not having a shoreline buffer if located within existing road right-of-way. As proposed, the project meets these regulations.

Flood Hazard Management:

Regulations:

- A. All proposed flood hazard management measures shall comply with the County's Comprehensive Flood Hazard Management Plan.

Staff Response: Some of the proposed project at Galvin Road, Reynolds Avenue and Centralia Alpha Road will occur within the 100 year floodplain, but is not located in the Floodway or the mapped Channel Migration Zone (CMZ). Flood Development Permit (FD19-00003) was reviewed and issued for this project. SMP 4.05.02 F5 allows for transportation structures where no other feasible alternative existing and SMP 4.05.02 F6 allows for the repair and maintenance of existing legal uses. The regulations have been met.

Public Access:

Regulations:

- A. Shoreline public access shall be required for the following shoreline developments and uses:
 1. Shoreline recreation in accordance with SMP Section 5.13;
 2. New structural public flood hazard reduction measures, such as dikes and levees;
 3. Shoreline development by public entities, including the County, port districts, State agencies, and public utility districts;
 4. New marinas when water-enjoyment uses are associated with the marina; and

5. All other development and use types that are required to incorporate shoreline public access as identified in the SMP, or other State or Federal requirements.

Staff Response: The proposed project is a transportation facility is used for public access. The regulations have been met.

Specific Shoreline Use Regulations:

General Shoreline Use:

Regulations:

- A. Use and development standards shall not apply retroactively to existing, legally established structures, or uses and developments in place at the time of the adoption of the SMP update. Existing structures, uses and developments, including residential appurtenances, may be maintained, repaired, and operated within shoreline jurisdiction and the shoreline buffers established in the SMP.
- B. Development shall comply with the most restrictive bulk and dimensional requirements in LCC Title 17 or SMP Section 5.04.
- C. Accessory uses, such as parking, stormwater management facilities, and utilities shall be located outside of shoreline and critical area buffers, and associated building setbacks, unless authorized in SMP Section 4.04.02(D) .
- D. Shoreline uses and developments shall be designed to complement the setting of the property and minimize glare. Shoreline applicants shall demonstrate efforts to minimize potential impacts to the extent feasible.

Staff Response: The project includes maintenance, repair and safety improvements to existing transportation facilities within existing road right-of-way. As proposed, the project meets these regulations.

Allowed Shoreline Uses:

Staff Response: Table 5-1 lists expansion of roads within the existing road right of way as a permitted use. As proposed, the project meets these regulations.

Transportation Facilities:

Regulations:

- A. New transportation facilities shall only be placed within shoreline jurisdiction, when no other option for the location of the facility exists.
- B. When located within the shoreline jurisdiction, new and expanded transportation facilities shall:
 1. Be set back from the OHWM as far as feasible and locate any new water crossings as near to perpendicular with the waterbody as feasible, unless

- an alternate path would minimize the disturbance of native vegetation or result in the avoidance of critical areas;
2. Be designed with the minimum pavement area required;
 3. Minimize adverse effects to unique or fragile shoreline features;
 4. Implement the mitigation sequence in SMP Section 4.03 and ensure no net loss of shoreline ecological functions;
 5. Include a mitigation plan prepared by a qualified professional consistent with the provisions of Section 4.04;
 6. Avoid adverse impacts on existing or planned water-dependent uses;
 7. Allow the joint use of the right-of-way with nonmotorized uses and existing or planned primary utility facilities to consolidate the crossings of waterbodies and minimize adverse impacts to shoreline jurisdiction, where feasible; and
 8. Provide and/or maintain visual access to scenic vistas on public roads, where feasible. Visual access may include, but is not limited to turnouts, rest areas, and picnic areas.
- C. Crossings of waterbodies, such as bridges, shall be designed to minimize impacts to aquatic habitat, allow for fish passage, and permit the passage of flood debris.
- D. Existing roads that are of a non-paved surface, such as gravel, may be paved, if the facilities comply with all applicable mitigation, water quality, stormwater, and landscaping standards, as well as other requirements of the SMP and local regulations.
- E. Seasonal work windows may be required for construction projects to minimize impacts to shoreline functions.
- F. Where public access to shorelines across transportation facilities is intended, facility designs must provide safe pedestrian and non-motorized vehicular crossings.

Staff Response: The project includes maintenance, repair and safety improvements to existing transportation facilities within existing road right-of-way, such as installation and replacement of guardrail, as well as installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. As proposed, the project meets these regulations.

Shoreline Modification Regulations:

Shoreline Modification Table:

Staff Response: Table 6-1 lists clearing and grading, and the placement of fill landward of the ordinary high water mark (OHWM) as permitted uses in the Rural Conservancy Environment, Urban Conservancy Environment and in the High Intensity Environment. As, proposed these activities are allowed.

Shoreline Modification Provisions:

Regulations:

- A. Structural shoreline modifications may be allowed if they are demonstrated to be necessary to support or protect a legally permitted shoreline structure or use that is in danger of loss or substantial damage or are necessary for mitigation or enhancement.
- B. Shoreline modifications shall be limited in number and extent.
- C. The Shoreline Administrator shall base all decisions regarding shoreline modification on available scientific and technical information and a comprehensive analysis of site-specific conditions provided by the applicant.
- D. Shoreline modifications must be designed and located to ensure that they will not result in a net loss of shoreline ecological functions and will not have significant adverse impacts to shoreline uses, resources, and values provided for in RCW 90.58.020.
- E. Shoreline modifications and uses shall be designed and managed to prevent degradation of water quality and alteration of natural hydrographic conditions.
- F. Shoreline modification standards shall not apply retroactively to existing, legally established shoreline modifications. Existing structures may be maintained, repaired, and operated within shoreline jurisdiction and within the shoreline buffers established in the SMP. Repair and replacement provisions in later sections of this chapter may apply to specific modifications.
- G. All disturbed upland areas shall be restored and protected from erosion by using native vegetation or other means.
- H. All shoreline modifications are subject to the mitigation sequence in SMP Section 4.03, with appropriate mitigation required for unavoidable impacts to ecological functions. If critical areas in shoreline jurisdiction are impacted, the project is also subject to relevant requirements of SMP Section 4.04.

Staff Response: The project includes maintenance, repair and safety improvements to existing transportation facilities within existing road right-of-way, such as installation and replacement of guardrail, as well as installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. As proposed, the project meets these regulations.

Clearing, Grading and Fill:

Regulations:

- A. Clearing, grading, and the placement of fill shall be minimized to the extent feasible and only allowed when necessary to accommodate an approved shoreline use or development.
- B. All clearing, grading, and the placement of fill shall be located, designed, and constructed to protect shoreline ecological functions and ecosystem-wide processes, including channel migration.
- C. Speculative clearing, grading, and the placement of fill are prohibited.

- D. When clearing, grading, or the placement of fill will cause adverse impacts to ecological functions, a mitigation plan, prepared by a qualified professional, must be completed consistent with the provisions of SMP Section 4.04.
- E. Clearing, grading, and the placement of fill within wetlands, floodways, or CMZs, and/or the placement of fill waterward of the OHWM, is only allowed when:
 - 1. Due consideration has been given to the site specific conditions;
 - 2. All impacts have been mitigated;
 - 3. All required State and Federal permits, and necessary approvals from WDNR for State-owned aquatic lands, have been obtained; and
 - 4. The shoreline use or development is one of the following:
 - a. A water-dependent use or public access to the shoreline;
 - b. The cleanup and disposal of contaminated sediments as part of an interagency environmental clean-up plan;
 - c. The disposal of dredged material considered suitable under, and conducted in accordance with, the WDNR's Dredged Material Management Program and the United States Army Corps of Engineers' (USACE) Dredged Material Management Office. See also SMP Section 6.04;
 - d. The expansion or alteration of transportation facilities of statewide significance that are currently located in the shoreline, where alternatives to fill are infeasible;
 - e. Ecological enhancement, restoration or mitigation, when consistent with an approved plan; or
 - f. The protection of historic or cultural resources when fill is the most feasible method to avoid continued degradation, disturbance, or erosion of a site. Such fill must be coordinated with any affected tribes and comply with applicable provisions of SMP Section 4.02.
- F. Upland clearing, grading and the placement of fill outside of wetlands, floodways, and CMZs is permitted provided it:
 - 1. Is the minimum necessary to implement the approved use or modification;
 - 2. Does not significantly change the topography of the landscape in a manner that affects hydrology or increases the risk of slope failure, consistent with the applicable provisions of SMP Section 4.04; and
 - 3. Is conducted outside required shoreline buffers, unless specifically authorized by the SMP, or is necessary to provide protection to historic or cultural resources.
- G. Grading, the placement of fill, and beach nourishment shall be designed to blend physically and visually with the existing topography whenever feasible, so as not to interfere with lawful access and enjoyment of scenery.
- H. Clearing, grading, and the placement of fill shall not be located where shoreline stabilization will be necessary to protect the materials placed or removed, except when part of an approved plan for the protection of historic or cultural resources, or as part of an approved environmental cleanup plan or project.

- I. Cut and fill slopes shall generally be sloped no steeper than one foot vertical for every two feet horizontal (1:2) unless a specific engineering analysis has been provided that demonstrates the stability of a steeper slope.
- J. A temporary erosion and sediment control plan, including BMPs, consistent with the County's stormwater manual, shall be submitted to and approved by the Shoreline Administrator prior to commencement of all clearing, grading, and fill activities.
- K. To prevent a loss of flood storage, compensatory storage shall be provided commensurate with the amount of fill placed in the floodway per SMP Section 4.05.
- L. The placement of fill on State-owned aquatic lands must comply with WDNR and WDFW standards and regulations.

Staff Response: The project includes maintenance, repair and safety improvements to existing transportation facilities within existing road right-of-way, such as installation and replacement of guardrail, as well as installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. The project activities are all located landward of the OHWM and outside the shoreline buffer. Standard erosion control techniques will be used during construction. Vegetation removal will be kept to a minimum and temporary staging areas will be located outside wetland and shoreline buffers. As described above, impacts to wetlands and wetland buffers will be will be mitigated with compensatory mitigation through purchase of wetland from the mitigation banks. As proposed, the project meets these regulations.

Staff Report Conclusions:

After review of the shoreline permit application, its drawings, designs, reports, studies and mitigation plans, the following are staff conclusions regarding the proposed project.

The project is in compliance with the State Environmental Policy Act, the Lewis County Code (LCC) Chapter 17.35A (Critical Areas) and the applicable elements of the 2017 Lewis County Shoreline Master Program.

Shoreline Permit Recommendation:

Staff recommendation is to approve the shoreline substantial development permit with appropriate conditions citing specific regulations from the above referenced master program elements.



Lewis County Department of Public Works

Josh S. Metcalf, PE, Director
Tim D. Fife, PE, County Engineer

January 11, 2019

Karen Witherspoon
Lewis County Community Development
2025 Kresky Avenue
Chehalis, WA 98532

RE: Highway safety Improvements Project – Phase II

Dear Ms. Witherspoon,

Lewis County Public Works proposes to install roadway safety improvements along portions of Harrison Avenue Bridge No 32 at MP 2.54, Galvin Road (MP 1.52 to 1.62), Reynolds Avenue (MP 0.33 to 0.71), Cooks Hill Road (MP 1.70 to 4.20), Summerside Drive (MP 0.00 to 0.06), Centralia Alpha Road (MP 0.05 to 0.29), Highway 603 (MP 0.28 to 2.82 and MP 9.23 to 10.47), Leonard Road (MP 0.10 to 1.83), and, West Side Highway (MP 0.32 to 0.36). The proposed safety improvements will include the installation and replacement of guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface.

This work is proposed to be phased. The first phase of the project is proposed to take place from May 1, 2019 to December 30, 2019; this work is anticipated to include: 1) the replacement of guardrail at Harrison Avenue MP 2.53 to 2.55; 2) placement of fill for slope flattening at Galvin Road MP 1.54 to 1.62; 3) the placement of fill for guardrail landings at Cooks Hill Road from MP 1.70 to 1.76 and Summerside Drive 0.00 to 0.06; 4) the placement of fill for guardrail landings at Cooks Hill Road from to MP 3.15 to 3.28; 5) the placement of fill for slope flattening at Cooks Hill Road MP 3.80 to 3.90; 6) the placement of fill for guardrail landings at Cooks Hill Road from MP 4.08 to 4.20; 7) the placement of fill for slope flattening, along the eastern roadside of Centralia Alpha Road, from MP 0.09 to 0.29, and along the western roadside, from MP 0.17 to 0.25 ; 8) the placement of fill for slope flattening at Highway 603 MP 1.87 to 1.92; 9) the placement of fill for slope flattening at Highway 603 MP 10.37 to 10.47; 10) the placement of fill for slope flattening

Road Maintenance &
Fleet Services

426 West Main St
Chehalis, WA 98531
360.740.3380
360.740.2741

Administration, Engineering, Utilities,
Real Estate Services & Traffic

2025 NE Kresky Ave
Chehalis, WA 98532
360.740.1123
360.740.1479

Solid Waste Services

Post Office Box 140
Chehalis, WA 98531
360.740.1451
360.330.7805

anticipated to significantly affect the change in the function of the buffers no mitigation is proposed for impacts to buffers.

It is anticipated that this work will be authorized by the US Army Corps of Engineers under multiple Nationwide Permit 14's for Linear Transportation Projects. As the Washington Department of Ecology (DOE) certifies Nationwide Permit 14 subject to condition and the project will meet all such conditions it is anticipated that the proposed project will be certified by the DOE under Section 401 after individual review.

No fish streams are to be impacted by the proposed project. Review of the Washington State Department of Fish and Wildlife (WDFW) and Priority Habitat Species (PHS) Database, WDFW PHS GIS data, and the SalmonScape interactive mapper determined portions of the proposed project are within a Section adjacent to an Occurrence Point for the Marbled Murrelet; however, these areas were reviewed by WSDOT and it was determined there is no suitable habitat within 0.25 miles of the proposed work. A signed copy of the NEPA Categorical Exclusion Document used by the Federal Highway Administration (FHWA) will be provided upon receipt.

No cultural resources survey was performed for this project. The Washington Department of Transportation consulted with the Department of Archaeology and Historic Preservation on behalf of FHWA and it was determined that this project meets exemptions A-5, A-16, and A-18 of FHWA's Section 106 Programmatic Agreement. These documents have been attached for your records.

Please contact me at 360-740-1440 or by e-mail Ann.Weckback@lewiscoutywa.gov should you have any questions or require additional information.

Sincerely,



Ann Weckback,
Environmental Planner

Enclosures: SEPA checklist, Hazardous Materials Memorandum, Environmental Justice Memorandum, Hydraulic Impacts Evaluation, Wetland Delineation, Wetland Mitigation Plan, JARPA Permit Application, Section 106 Data, and Fill and Grade Permit Applications for Galvin Road, Cooks Hill Road, Centralia Alpha Road, Highway 603 and Leonard Road



WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) Form^{1,2} [\[help\]](#)

USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.



US Army Corps
of Engineers
Seattle District

AGENCY USE ONLY

Date received: 01/11/2019

Agency reference #:

SHD19-0001

FD19-00003

Tax Parcel #(s):

JAN 2019
Received
Community Development

Part 1–Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]
Highway Safety Improvement Project (HSIP) Phase II – CRP 2185B

Part 2–Applicant

The person and/or organization responsible for the project. [\[help\]](#)

2a. Name (Last, First, Middle)			
Weckback, Ann M			
2b. Organization (If applicable)			
Lewis County Public Works			
2c. Mailing Address (Street or PO Box)			
2025 NE Kresky Ave			
2d. City, State, Zip			
Chehalis, WA, 98532			
2e. Phone (1)	2f. Phone (2)	2g. Fax	2h. E-mail
360-740-1440		360-740-1479	Ann.Weckback@lewiscountywa.gov

¹Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at <http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PermitGuidebook/EndangeredSpecies.aspx>.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

²To access an online JARPA form with [\[help\]](#) screens, go to

http://www.epermitting.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx

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

Part 3—Authorized Agent or Contact

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

3a. Name (Last, First, Middle)			
None			
3b. Organization (If applicable)			
3c. Mailing Address (Street or PO Box)			
3d. City, State, Zip			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h. E-mail

Part 4—Property Owner(s)

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

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

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

Part 5--Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

- There are multiple project locations (e.g. linear projects). Complete the section below and use [JARPA Attachment B](#) for each additional project location.

5a. Indicate the type of ownership of the property. (Check all that apply.) [\[help\]](#)

- Private
- Federal
- Publicly owned (state, county, city, special districts like schools, ports, etc.)
- Tribal
- Department of Natural Resources (DNR) – managed aquatic lands (Complete [JARPA Attachment E](#))

5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [\[help\]](#)

The project area includes portions of various roadway segments throughout Lewis County; Harrison Avenue (Milepost [MP] 2.53 to 2.55), Galvin Road (MP 1.52 to 1.62), Reynolds Avenue (MP 0.33 to 0.71), Cooks Hill Road (MP 1.70 to 1.76, MP 3.15 to 3.28, MP 3.80 to 3.90, and MP 4.07 to 4.20), Summerside Drive (MP 0.00 to 0.06), Centralia Alpha Road (MP 0.05 to 0.29), Highway 603 (MP 1.87 to 1.92, MP 2.50 to 2.62, 2.74 to 2.82, MP 9.23 to 9.32, and 10.37 to 10.48), Leonard Road (MP 0.08 to 0.39, MP 0.54 to 0.74, MP 0.84 to 0.99, MP 1.08 to 1.57, and MP 1.78 to 1.85); West Side Highway (MP 0.32 to 0.36).

5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [\[help\]](#)

Chehalis, WA, 98532; Centralia, WA, 98531; Napavine, WA 98565; Onalaska, WA 98570; and Vader, WA 98593

5d. County [\[help\]](#)

Lewis County

5e. Provide the section, township, and range for the project location. [\[help\]](#)

Project Location	¼ Section		Section	Township	Range
Harrison Avenue	NW		25	15N	3W
Galvin Road	SE		35	15N	3W
Reynolds Avenue	NW	NE	5	14N	2W
	SW		32	15N	
Cooks Hill Road	SE		34	15N	3W
	NE	SE	3	14N	3W
	NW		12		
Centralia Alpha Road	NW	SW	15	14N	2W
	NE	SE	16		
Highway 603	NW		7	13N	2W
	NW	NE	8		
	NW	SW	3	12N	2W
	NE	SE	9		

Leonard Road	SW		5	12N	1E
	NE	SE	6		
	NE	SE	31	13N	
	NW	SW	32		
West Side Highway	NW		33	11N	2W

5f. Provide the latitude and longitude of the project location. [\[help\]](#)

- Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83)

The project area includes portions of various roadway segments throughout Lewis County; Harrison Avenue (46.764359, -123.004215), Galvin Road (46.736523, -123.022265), Reynolds Avenue (46.735329, -122.964039), Cooks Hill Road (46.73648, -123.0406; 46.73223, -123.0407; 46.72318, -123.0389; and 46.71422, -123.0135), Summerside Drive (46.71512, -123.014), Centralia Alpha Road (46.699342, -122.929193), Highway 603 (46.6312, -122.9893; 46.62952, -122.9756; 46.6284, -122.9715; 46.55487, -122.9272; and 46.53957, -122.9375), Leonard Road (46.571001, -122.719418; 46.56615, 122.7196; 46.56227, -122.7194; 46.55844, -122.7198; 46.55169, -122.7197); West Side Highway (46.39848, -122.9457).

5g. List the tax parcel number(s) for the project location. [\[help\]](#)

- The local county assessor's office can provide this information.

Lewis County Right of Way (ROW)

5h. Contact information for all adjoining property owners. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
Harrison Avenue - MP 2.53 to 2.53		
Gregg A Reichert	3701 Northpark Dr	023732001000
	Centralia, WA 98531	
Joel R Johnson	1218 N Washington Ave	023730001000
	Centralia, WA 98531	
Damon & Derek Johnson	6401 Skookumchuck Rd SE	023725001000
	Tenino, WA 98589	

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

Twelve jurisdictional wetlands were identified within the project study area boundary. These include CH1 at Cooks Hill Road MP 3.21, CA1 at Centralia Alpha Road MP 0.17, H2 at Highway 603 MP 9.28, and nine wetlands along Leonard Road (L1 at MP 0.11, L2 at MP 0.27, L3 0.361, L4 at MP 0.641, L5 at MP 0.885, L6 at MP 1.124, L7 at MP 1.191, L8 at MP 1.778, and L9 at MP 1.846)

Two additional wetlands (R1 at Reynolds Avenue MP 0.52 and H1 at Highway 603 MP 2.55) were determined to be offsite with buffers in the study area.

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

Twenty-two jurisdictional drainages were identified within or adjacent to the project study area. These include an unnamed tributary to Dry Creek at Harrison Avenue MP 2.54; two waterbodies along Galvin Road (Chehalis River at MP 1.55 and an unnamed tributary to the Chehalis River [1] at MP 1.60); eight waterbodies along Reynolds Avenue (R1 – Ditch 1 from MP 0.65 to 0.71, R1 – Ditch 8 from 0.61 to 0.66, Coffee Creek at MP 0.52, R1 – Ditch 3 from MP 0.50 to 0.51, R1 – Ditch 4 from MP 0.42 to 0.45, R1 – Ditch 5 from MP 0.40 to 0.41, R1 – Ditch 6 from MP 0.34 to 0.39, and R1 – Ditch 7 at MP 0.38); two waterbodies along Cooks Hill Road (unnamed tributaries to the Chehalis River 2 and 3 at MP 1.73 and MP 3.21); two waterbodies along Centralia Alpha Road (Salzer Creek at MP 0.17 and CA- Ditch 1 from MP 0.21 to 0.24); an unnamed tributary to Stearns Creek at Highway 603 MP 9.27; and six waterbodies along Leonard Road (L2 – Ditch 1 from MP 0.21 to 0.25, the South

Fork Newaukum River at MP 0.32, an unnamed tributary to South Fork Newaukum River [1] at MP 0.74, L5 – Ditch 1 from MP 0.90 to 0.93, an unnamed tributary to South Fork Newaukum River [2] at MP 1.12, and an unnamed tributary to Baker Creek at MP 1.79).

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

Yes No Don't know

5l. Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

Vegetation within the project study area consists primarily of disturbance tolerant roadside grasses including reed canarygrass, spike bentgrass, tall false rye grass, orchard grass, and sweet vernal grass; forbs such as hairy cat's ear, ox-eye daisy, thistle, slough sedge and giant horsetail. Scattered shrubs were present such as willows, common snowberry, clustered rose, salmonberry, salal, and blackberries along with a few scattered red alder, Oregon ash and western red cedar.

5m. Describe how the property is currently used. [\[help\]](#)

The properties within the study area are currently primarily used as undeveloped road right-of-way with small portions being used as residential lawns, agricultural fields and designated forest lands.

5n. Describe how the adjacent properties are currently used. [\[help\]](#)

Properties within the project area are currently being used as residential, agricultural, designated forest, and undeveloped lands.

5o. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [\[help\]](#)

Existing structures within and immediately adjacent to the study area, include a 69-foot concrete cast-in-place bridge (Bridge #32) on Harrison Avenue spanning the Unnamed Tributary to Dry Creek at MP 2.54; two structures on Galvin Road (a 400-foot long concrete cast-in-place bridge [Bridge #75] spanning the Chehalis River at MP 1.55 and an 18-inch diameter corrugated steel pipe conveying the Unnamed Tributary to the Chehalis River 1 at MP 1.60); three structures on Reynolds Avenue (a rectangular box cast-in-place 10 x 8 foot culvert at MP 0.49, a 24-foot concrete cast-in-place bridge [Bridge # 64] spanning Coffee Creek at MP 0.52, and a 5-foot diameter round galvanized corrugated steel culvert at MP 0.65); six structures on Cooks Hill Road (a 2-foot diameter pipe of unknown material conveying the Unnamed Tributary to the Chehalis River 2 at MP 1.73 , a 12-inch diameter corrugated steel pipe at MP 1.75; an 18-inch diameter precast concrete pipe conveying the Unnamed Tributary to the Chehalis River 3 at MP 3.21, an 18-inch diameter corrugated steel pipe at MP 3.24, an 18-inch diameter corrugated steel pipe at MP 3.80, and a 12-inch diameter precast concrete pipe at MP 4.12); two structures on Centralia Alpha Road (a precast concrete 18-inch diameter pipe at MP 0.06 and a 69-foot concrete cast-in-place bridge [Bridge # 68] spanning Salzer Creek at MP 0.17); six structures on Highway 603 (an 18-inch diameter pipe of unknown material at MP 1.87, an 18-inch diameter high-density polyethylene [HDPE] pipe at MP 1.88, an 18-inch diameter HDPE pipe at MP 2.55, an 18-inch diameter HDPE pipe at MP 2.77, a 3-foot diameter precast concrete pipe conveying the Unnamed Tributary to Stearns Creek at MP 9.27, and 1-foot diameter precast concrete pipe at MP 10.37), and nine structures on Leonard Road (an 18-inch diameter precast concrete pipe at MP 0.27, a 150-foot concrete cast-in-place bridge (Bridge # 70) spanning the South Fork Newaukum River at MP 0.32, a 3-foot diameter corrugated steel pipe with bituminous coating conveying the Unnamed Tributary to South Fork Newaukum River 1 at MP 0.74, a 2-foot diameter precast concrete pipe at MP 0.99, an 18-inch diameter corrugated steel pipe conveying the Unnamed Tributary to South Fork Newaukum River 2 at MP 1.12, a 2-foot diameter precast concrete culvert at MP 1.13, an 18-inch diameter corrugated steel pipe at MP 1.25, a 5-foot diameter corrugated steel pipe with tar emulsion coating at MP 1.38, and a 6-foot diameter corrugated steel pipe at MP 1.79).

Various smaller culverts (12-inches to 3-ft in diameter) are also present within the study area within the road approaches.

All culverts convey flows through the project area.

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

For Harrison Avenue take exit 82 for Harrison Avenue from I-5. Turn West onto Harrison Avenue and follow 2.54 miles to your destination.

For Galvin Road take exit 82 for Harrison Avenue from I-5. Turn west onto Harrison Avenue and follow for 0.8 miles. Turn left onto Galvin Road and follow for 1.21 miles until you've reached your destination.

For Reynolds Avenue take exit 82 for Harrison Avenue from I-5. Turn west onto Harrison Avenue and follow for 0.2 miles. Turn right onto Johnson Road and follow for 0.4 miles. Turn right onto Reynolds Avenue and follow for 0.33 miles until you've reached your destination.

For Cooks Hill Road take exit 82 for Mellen Street from I-5 and follow signs for Mellen Street for 0.9 miles. Turn west onto Mellen Street and follow for 0.2 miles. Mellen Street turns right and becomes Cooks Hill Road. Follow for 1.7 miles until you've reached your first destination.

For Centralia Alpha Road take exit 82 for Harrison Avenue from I-5. Turn east onto Harrison Avenue and follow for 0.8 miles then continue onto Main Street and follow for another 0.6 miles. Turn right onto Pearl Street and follow for 0.4 miles. Use any left lane to turn slightly onto Southbound Viaduct and follow for 0.3 miles. Take a slight right onto Gold Street and follow for 98 feet. Turn left at the 1st cross street onto E Summa Street and follow for 0.2 miles then continue onto Salzer Valley Road and follow for 1.1 miles. Take the first right onto Centralia Alpha Road and follow for 0.05 miles until you've reached your destination.

For Highway 603 take exit 77 for WA-6 W toward Raymond/Pe Ell from I-5. Turn west onto WA-6 W/Main Street and follow for 0.1 miles then continue to follow WA-6 W for 2.1 miles. Turn left onto Highway 603 and follow for 0.28 miles until you've reached your first destination. (Note: turn right onto SW Birch Avenue in Napavine and follow as this continues as Highway 603).

For Leonard Road take exit 71 for WA-508 E toward Napavine/Onalaska from I-5. Turn east onto WA-508 E/W Forest Napavine Road and follow for 8.5 miles. Turn right onto Leonard Road and follow for 0.10 miles until you've reached your destination.

For West Side Highway take exit 59 for WA-506 W toward Vader/Ryderwood from I-5. Turn west onto WA-506 W and follow for 3 miles. Turn left onto West Side Highway and follow for 0.32 miles until you've reached your destination.

Part 6—Project Description

6a. Briefly summarize the overall project. You can provide more detail in 6b. [\[help\]](#)

Lewis County Public Works proposes to install roadway safety improvements along portions of Harrison Avenue Bridge No 32 at MP 2.54, Galvin Road (MP 1.52 to 1.62), Reynolds Avenue (MP 0.33 to 0.71), Cooks Hill Road (MP 1.70 to 4.20), Summerside Drive (MP 0.00 to 0.06), Centralia Alpha Road (MP 0.05 to 0.29), Highway 603 (MP 0.28 to 2.82 and MP 9.23 to 10.47), Leonard Road (MP 0.10 to 1.83), Gish Road (MP 4.04 to 4.07), West Side highway (MP 0.32 to 0.36). The proposed safety improvements will include the installation and replacement of guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. For the purposes of this report only areas of proposed guardrail landings and slope flattening were investigated for potential impacts to "Waters of the US as all other activities will occur within the existing roadway surface.

6b. Describe the purpose of the project and why you want or need to perform it. [\[help\]](#)

The purpose of the proposed project is to improve efficiency and safety along various roads in the county.

6c. Indicate the project category. (Check all that apply) [\[help\]](#)

- Commercial Residential Institutional Transportation Recreational
 Maintenance Environmental Enhancement

6d. Indicate the major elements of your project. (Check all that apply) [help]

<input type="checkbox"/> Aquaculture	<input type="checkbox"/> Culvert	<input type="checkbox"/> Float	<input type="checkbox"/> Retaining Wall (upland)
<input type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Dam / Weir	<input type="checkbox"/> Floating Home	<input checked="" type="checkbox"/> Road
<input type="checkbox"/> Boat House	<input type="checkbox"/> Dike / Levee / Jetty	<input type="checkbox"/> Geotechnical Survey	<input type="checkbox"/> Scientific Measurement Device
<input type="checkbox"/> Boat Launch	<input type="checkbox"/> Ditch	<input type="checkbox"/> Land Clearing	<input type="checkbox"/> Stairs
<input type="checkbox"/> Boat Lift	<input type="checkbox"/> Dock / Pier	<input type="checkbox"/> Marina / Moorage	<input type="checkbox"/> Stormwater facility
<input type="checkbox"/> Bridge	<input type="checkbox"/> Dredging	<input type="checkbox"/> Mining	<input type="checkbox"/> Swimming Pool
<input type="checkbox"/> Bulkhead	<input type="checkbox"/> Fence	<input type="checkbox"/> Outfall Structure	<input type="checkbox"/> Utility Line
<input type="checkbox"/> Buoy	<input type="checkbox"/> Ferry Terminal	<input type="checkbox"/> Piling/Dolphin	
<input type="checkbox"/> Channel Modification	<input type="checkbox"/> Fishway	<input type="checkbox"/> Raft	

Other: Safety

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

Best management practices (BMP's) shall be implemented including, but not limited to, installation of straw wattles, compost socks, or equivalent at the toe of slopes adjacent to wetland, jurisdictional drainages and their buffers where fill or excavation is proposed. Spill response kits will be in vehicles on site.

Lewis County is proposing to add fill along the roadway within the project area for construction of guardrail landings or slope flattening to provide a recoverable surface. Existing vegetation is anticipated to be mowed prior to the placement of fill; however, grubbing is not proposed as part of this project and excavation is only anticipated to occur for the placement of new culverts and/or culvert extensions. One roadway cross culvert will be lengthened at and West Side Highway MP 0.34. Culverts within road approaches/driveways will be lengthened at Reynolds Road at MP 0.34, MP 0.38, MP 0.40, MP 0.41, and MP 0.71, as well as at Highway 603 MP 2.61. New culverts will be installed within road approaches/driveways at Cooks Hill Road MP 4.12, Highway 603 MP 2.52, and Highway 603 MP 2.59.

Prior to any culvert work occurring sandbag cofferdams lined with plastic, triangular silt dikes, or equivalent will be placed outside of the limits of the proposed work to ensure turbid water does not enter the surrounding waterbody. If flowing water is anticipated to be present during work pumps and hoses will be placed in the drainage to bypass water around the zone of isolation.

Any/all disturbed soil that is not being worked, whether at final grade or not, shall be hydroseeded within 2 to 7 days as appropriate (within 2 days from October 1st through April 30th and within 7 days from May 1st through September 30th).

Construction equipment proposed to be used in the completion of the project includes the following: excavators, backhoes, guardrail post driver, dump trucks, roller, compactor, water truck, generators, pumps, and small tools.

Some work at Galvin Road, Reynolds Avenue and Centralia Alpha Road will occur within the 100-year floodplain.

It is not anticipated that any staging areas will be needed as part of this project.

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

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

Start Date: May 1, 2019

End Date: December 31, 2019

See JARPA Attachment D

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [help]
\$930,000
6h. Will any portion of the project receive federal funding? [help]
<ul style="list-style-type: none"> If yes, list each agency providing funds.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know Federal Highway Administration (FHWA)

Part 7–Wetlands: Impacts and Mitigation

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

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]
<input type="checkbox"/> Not applicable
<p>The proposed installation of fill for guardrail landings or slope flattening is necessary to bring the roadway into current safety standards. The location of the project is based on the existing roadway; rerouting the road alignments around wetlands would be cost prohibitive, would require additional property acquisition, would likely be opposed by the public, and would likely result in even greater environmental impacts when considering the increase in impervious surface areas and the amount and quality of vegetation to be removed.</p> <p>In order to minimize impacts to wetlands, standard erosion techniques will be used during construction. Vegetation removal will be kept to a minimum and staging areas will be located at least 50 feet from any wetlands.</p>
7b. Will the project impact wetlands? [help]
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
7c. Will the project impact wetland buffers? [help]
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
7d. Has a wetland delineation report been prepared? [help]
<ul style="list-style-type: none"> If Yes, submit the report, including data sheets, with the JARPA package.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [help]
<ul style="list-style-type: none"> If Yes, submit the wetland rating forms and figures with the JARPA package.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
7f. Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [help]
<ul style="list-style-type: none"> If Yes, submit the plan with the JARPA package and answer 7g. If No, or Not applicable, explain below why a mitigation plan should not be required.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
The <i>Wetland Mitigation Report, Highway Safety Improvements Program – Phase II</i> , dated December 28, 2018, has been prepared and is included with this submittal.

7g. Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [\[help\]](#)

Compensatory mitigation will be implemented in accordance with the *Wetland Mitigation in Washington State Interagency Guidance* and the *Lewis County Code*. Impacts to 0.209 acres of Category II wetland and 0.11 acres of Category III wetland in the Chehalis Basin will be mitigated for through the purchase/utilization of 0.361 acres of wetland from the Chehalis Basin Mitigation Bank, Hanaford Valley Site. Additionally, impacts to 0.003 acres of Category IV wetland in the Cowlitz Basin will be mitigated for through the purchase/utilization of 0.003 acres of wetland from the Coweeman River Mitigation Bank.

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

Activity (fill, drain, excavate, flood, etc.)	Wetland Name ¹	Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)
Fill – CSBC	Wetland R1 Buffer	-	64 sq ft	Permanent	N/A*	-
Fill - CSBC	Wetland CH1 Buffer	-	1,191 sq ft	Permanent	N/A*	-
Fill – 3-inch minus or CSBC	Wetland CA1	Riverine, Category II	8,262 sq ft	Permanent	Mitigation Bank	9,914 sq ft
Fill – 3-inch minus or CSBC	Wetland CA1 Buffer	-	18,144 sq ft	Permanent	N/A*	-
Fill – CSBC	Wetland H2 Buffer	-	1,494 sq ft	Permanent	N/A*	-
Fill – 3-inch minus	Wetland L1 Buffer	-	2,770 sq ft	Permanent	N/A*	-
Fill – 3-inch minus	Wetland L2 Buffer	-	1,508 sq ft	Permanent	N/A*	-
Fill – 3-inch minus	Wetland L3	Riverine, Category II	830 sq ft	Permanent	Mitigation Bank	996 sq ft
Fill – 3-inch minus	Wetland L3 Buffer	-	1,533 sq ft	Permanent	N/A*	-
Fill – CSBC	Wetland L4	Slope, Category III	3,777 sq ft	Permanent	Mitigation Bank	3,777 sq ft
Fill – CSBC	Wetland L4 Buffer	-	11,450 sq ft	Permanent	N/A*	-
Fill - CSBC	Wetland L5	Slope, Category III	1,007 sq ft	Permanent	Mitigation Bank	1,007 sq ft
Fill - CSBC	Wetland L5 Buffer	-	3,770 sq ft	Permanent	N/A*	-
Fill - CSBC	Wetland L6 Buffer	-	7,388 sq ft	Permanent	N/A*	-
Fill - CSBC	Wetland L7 Buffer	-	4,485 sq ft	Permanent	N/A*	-
Fill - CSBC	Wetland L8	Slope, Category IV	126 sq ft	Permanent	Mitigation Bank	107 sq ft
Fill - CSBC	Wetland L8 Buffer	-	1,148 sq ft	Permanent	N/A*	-

¹ If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

² Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

³ Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

⁴ Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: 48, 61, 69, 73, 75, 83, 87, 89, 91, 93, 95, 97, 99, and 101

* The 54,945 square feet of wetland buffer to be permanently impacted by the proposed project area are currently within the right-of-way and are primarily vegetated with weedy roadside grasses or residential lawn providing little habitat value. Since the proposed change in use is not anticipated to significantly affect the change in the function of the buffers no mitigation is proposed for impacts to buffers.

7i. For all filling activities identified in 7h, describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

Wetland Impacts

Approximately 460 cubic yards (CY) of either 3-inch minus or crushed surface base coarse (CSBC) will be placed in Wetland CA1 for slope flattening; 15 CY of 3-inch minus will be placed in Wetland L3 for slope flattening, 85 CY of CSBC will be placed in Wetland L4 for slope flattening and a guardrail landing; 21 CY of CSBC will be placed in Wetland L5 for slope flattening; and 2 CY of CSBC will be placed in Wetland L8 for slope flattening and a guardrail landing.

Wetland Buffer Impacts

Approximately 1 cubic yard (CY) of CSBC will be permanently placed in the buffer of Wetland R1 for a guardrail landing; 41 CY of CSBC will be placed in the buffer of Wetland CH1 for guardrail landings; 697 CY of either 3-inch minus or CSBC will be placed in the buffer of Wetland CA1 for slope flattening; 27 CY of CSBC will be placed in the buffer of Wetland H2 for guardrail landings; 104 CY of 3-inch minus will be placed in the buffer of Wetland L1 for slope flattening; 41 CY of 3-inch minus will be placed in the buffer of Wetland L2 for slope flattening; 23 CY of 3-inch minus will be placed in the buffer of Wetland L3 for slope flattening; 148 CY of CSBC will be placed in the buffer of Wetland L4 slope flattening and a guardrail landing; 60 CY of CSBC will be permanently placed in the buffer of Wetland L5 due to slope flattening; 320 CY of CSBC will be placed in the buffer of Wetland L6 due to slope flattening; 199 CY of CSBC will be placed in the buffer Wetland L7 due to slope flattening; 27 CY of CSBC will be placed in the buffer of Wetland L8 for a guardrail landing.

All proposed fill is anticipated to be from a commercial source.

7j. For all excavating activities identified in 7h, describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

No excavation within wetlands is anticipated as part of this project.

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

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

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

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

Not applicable

BMP's shall be implemented including, but not limited to, installation of straw wattles, compost socks, or equivalent, at the toe of slopes adjacent to wetland, jurisdictional drainages and their buffers where fill or excavation is proposed. Spill response kits will be in vehicles on site.

Prior to any culvert work occurring sandbag cofferdams lined with plastic, triangular silt dikes, or equivalent will be placed outside of the limits of the proposed work to ensure turbid water does not enter the surrounding waterbody. If flowing water is anticipated to be present during work pumps and hoses will be placed in the drainage to bypass water around the zone of isolation.

Any/all disturbed soil that is not being worked, whether at final grade or not, shall be hyroseeded within 2 to 7 days as appropriate (within 2 days from 10/1 through 4/30 and within 7 days from 5/1 through 9/30).

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

Yes No

8c. Have you prepared a mitigation plan to compensate for the project's adverse impacts to non-wetland waterbodies? [\[help\]](#)

- If Yes, submit the plan with the JARPA package and answer 8d.
- If No, or Not applicable, explain below why a mitigation plan should not be required.

Yes No Don't know

The *Wetland Mitigation Report, Highway Safety Improvements Program – Phase II*, dated December 28, 2018, has been prepared and is included with this submittal.

8d. Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g you do not need to restate your answer here. [\[help\]](#)

No mitigation is proposed for the 0.053 acres of impact to jurisdictional drainages as the drainages to be impacted are roadside ditches which carry stormwater and no conveyance will be lost as the stormwater culverts under access roads will either be extended to carry these flows or flows are anticipated to relocate to the new toe of the slope. No streams are proposed to be impacted by this project.

Wetland and stream buffers to be impacted by the proposed project area are currently within the right-of-way and are primarily vegetated with weedy roadside grasses or residential lawn providing little habitat value. Since the proposed change in use is not anticipated to significantly affect the change in the function of the buffers no mitigation is proposed for impacts to buffers.

8e. Summarize impact(s) to each waterbody in the table below. [\[help\]](#)

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name ¹	Impact location ²	Duration of impact ³	Amount of material) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Fill – CSBC	Chehalis River	Above OHW within the 100-year floodplain	Permanent	40 CY	1,902 sq ft
Fill – CSBC	Chehalis River	Adjacent, outside of 100-year floodplain but within shoreline/stream buffer	Permanent	49 CY	935 sq ft
Fill – CSBC	Unnamed Tributary to the Chehalis River	Above OHW	Permanent	93 CY	2,828 sq ft
Fill – CSBC	R1 – Ditch 1	Below OHW	Permanent	1 CY	37 sq ft
Fill – CSBC	Coffee Creek	Above OHW within the 100-year floodplain	Permanent	25 CY	1144 sq ft
Fill – CSBC	R1 – Ditch 3	Below OHW	Permanent	1 CY	17 sq ft
Excavation – Native Material	R1 – Ditch 4	Below OHW	Permanent	<1 CY	8.5 sq ft

Fill – CSBC	R1 – Ditch 4	Below OHW	Permanent	4 CY	256 sq ft
Excavation – Native Material	R1 – Ditch 5	Below OHW	Permanent	<1 CY	31.5 sq ft
Fill – CSBC	R1 – Ditch 5	Below OHW	Permanent	2 CY	34 sq ft
Excavation – Native Material	R1 – Ditch 6	Below OHW	Permanent	<1 CY	16.5 sq ft
Fill – CSBC	R1 – Ditch 6	Below OHW	Permanent	3 CY	108 sq ft
Fill – CSBC	Unnamed Trib to Chehalis River 2	Above OHW; no designated 100-year floodplain	Permanent	6 CY	171 sq ft
Fill – CSBC and/or 3-inch minus	Salzer Creek	Above OHW within the 100-year floodplain	Permanent	588 CY	13,704 sq ft
Fill – CSBC and/or 3-inch minus	Salzer Creek	Adjacent, outside of 100-year floodplain	Permanent	5 CY	144 sq ft
Fill – CSBC	CA 1 – Ditch 1	Below OHW	Permanent	15 CY	413 sq ft
Fill – CSBC	Unnamed Trib to Stearns Creek	Above OHW; no designated 100-year floodplain	Permanent	29 CY	1,581 sq ft
Fill – 3 In. Minus	L2 – Ditch 1	Below OHW	Permanent	14 CY	803 sq ft
Fill – 3 In. Minus	South Fork Newaukum River	Above OHW outside the 100-year floodplain	Permanent	17 CY	1,147 sq ft
Fill - CSBC	Unnamed trib to South Fork Newaukum River 1 (Ditched)	Above OHW; no designated 100-year floodplain	Permanent	1 CY	347 sq ft
Fill – CSBC	L5 – Ditch 1	Below OHW	Permanent	16 CY	684 sq ft
Fill – CSBC	Unnamed Tributary to the South Fork Newaukum River 2	Above OHW; no designated 100-year floodplain	Permanent	110 CY	2,319 sq ft
Fill - CSBC	Unnamed Tributary to Baker Creek	Above OHW; no designated 100-year floodplain	Permanent	3 CY	266 sq ft

¹ If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided.

² Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

³ Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

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

Within the Galvin Road roadway segment MP 1.52 to 1.62 approximately 40 CY of CSBC will be placed within the 100-year floodplain of the Chehalis River and 49 CY of CSBS will be placed outside of the 100-year floodplain within the designated shoreline/buffer of the Chehalis River. Additionally, 93 CY of CSBC will be placed within the buffer of the Unnamed Tributary to the Chehalis River 1. All fill will be placed for slope flattening.

Within the Reynolds Avenue roadway segment MP 0.33 to 0.71 approximately 1 CY of CSBC will be placed in R1 –Ditch 1, 1 CY of CSBC will be placed in R1 –Ditch 3, 4 CY of CSBC will be placed in R1 –Ditch 4, 2 CY of CSBC will be placed in R1 –Ditch 5, 3 CY of CSBC will be placed in R1 –Ditch 6, and 1 CY of CSBC will be placed in buffer and 100-year floodplain of Coffee Creek. Additionally, approximately 11 CY of CSBC will be placed within the 100-year floodplain of Coffee Creek within the designated shoreline and 23 CY of CSBC will be placed within the 100-year floodplain of Coffee Creek outside of the designated shoreline. All fill will be placed for guardrail landings.

Within the Cooks Hill Road roadway segment MP 1.70 to 1.76 approximately 6 CY of CSBC will be placed within the buffer of the Unnamed Tributary to the Chehalis River 2 for guardrail landings.

Within the Centralia Alpha Road roadway segment MP 0.05 to 0.29 approximately 588 CY of either 3-inch minus or CSBC will be placed within the 100-year floodplain of Salzer Creek (40 CY of which is also within the designated shoreline/buffer of Salzer Creek). An additional 5 CY of either 3-inch minus or CSBC will be placed outside of the 100-year floodplain of Salzer Creek within the designated shoreline/buffer. Approximately 15 CY of CSBC will also be placed within CA1 - Ditch 1. All fill will be placed for slope flattening.

Within the Highway 603 roadway segment MP 9.23 to 9.32 approximately 29 CY of CSBC will be placed within the buffer of the Unnamed Tributary to Stearns Creek for guardrail landings.

Within the Leonard Road roadway segment MP 0.08 to 0.39 approximately 14 CY of 3-inch minus will be placed in L2 – Ditch 1 and 17 CY of 3-inch minus will be placed in the designated shoreline/buffer of the Unnamed Tributary to the South Fork Newaukum River for slope flattening; within the Leonard Road roadway segment MP 0.54 to 0.74 approximately 1 CY of CSBC will be placed in the buffer of the South Fork Newaukum River 1 for slope flattening; within the Leonard Road roadway segment MP 0.84 to 0.99 approximately 16 CY of CSBC will be placed in L5 – Ditch 1 for slope flattening; within the Leonard Road roadway segment MP 1.08 to 1.57 approximately 110 CY of CSBC will be placed in the buffer of the South Fork Newaukum River 2 for slope flattening; within the Leonard Road roadway segment MP 1.78 to 1.85 approximately 3 CY of CSBC will be placed in the buffer of the Unnamed Tributary to Baker Creek for a guardrail landing.

All proposed fill is anticipated to be from a commercial source.

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

Minor excavation will occur in R1 - Ditch 4, R1 - Ditch 5 and R1- Ditch 6 for the installation of culvert extensions. Total excavation will be < 1.25 CY.

Part 9–Additional Information

9a. If you have already worked with any government agencies on this project, list them below. [\[help\]](#)

Agency Name	Contact Name	Phone	Most Recent Date of Contact
Lewis County Community Development	Brianna Teitzel	(360) 740-2602	December 12, 2018
U.S. Army Corps of Engineers	Evan Carnes	(360) 553-6978	October 31, 2018

9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 of this JARPA on the Washington Department of Ecology's 303(d) List? [\[help\]](#)

- If Yes, list the parameter(s) below.
- If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: <https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d>.

Yes No

9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [\[help\]](#)

- Go to <http://cfpub.epa.gov/surf/locate/index.cfm> to help identify the HUC.

Harrison Avenue: 171001030404

Galvin Road: 171001030404 and 171001030403

Reynolds Avenue: 171001030305

Cooks Hill Road: 171001030403, 171001030404

Centralia Alpha Road: 171001030401

Highway 603: 171001030110

Leonard Road: 171001030205, 170800050305

9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [\[help\]](#)

- Go to <https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up> to find the WRIA #.

All roadway segments in the project area are within WRIA 23 with the exception of both Leonard Road MP 1.78 to 1.85 and West Side Highway MP 0.32 to 0.36 which are within WRIA 26

9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [\[help\]](#)

Yes No Not applicable

9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [\[help\]](#)

Urban Natural Aquatic Conservancy Other: High Intensity

9g. What is the Washington Department of Natural Resources Water Type? [\[help\]](#)

Shoreline Fish Non-Fish Perennial Non-Fish Seasonal

9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [\[help\]](#)

Yes No

Name of manual: 2012 Stormwater Management Manual for Western Washington, as amended 2014

9i. Does the project site have known contaminated sediment? [\[help\]](#)

- If Yes, please describe below.

Yes No

9j. If you know what the property was used for in the past, describe below. [\[help\]](#)

Harrison Avenue roadway segment MP 2.53 to 2.55 has been a roadway since 1926; the road ROW was also established at this time.

Galvin Road roadway segment MP 1.52 to 1.62 has been a roadway since 1898; the road ROW was also established at this time.

Reynolds Avenue roadway segment MP 0.33 to 0.71 has been a roadway since 1913; the road ROW was also established at this time.

Cooks Hill Road roadway segment MP 1.70 to 1.76 has been a roadway since 1884; the road ROW was also established at this time. Road segments MP 3.15 to 3.28, MP 3.80 to 3.90, and MP 4.07 to 4.20 were established in 1884 and 1907; the road ROW was also established at this time.

Summerside Drive has been a roadway since 1976; the road ROW was also established at this time.

Centralia Alpha Road roadway segment MP 0.05 to 0.29 has been a roadway since 1914; the road ROW was also established at this time.

Highway 603 roadway segments MP 1.87 to 1.92, MP 2.50 to 2.62, and MP 2.74 to 2.82, were established in 1877 and 1936; the road ROW was also established at this time. Roadway segments MP 9.23 to 9.32 and 10.37 to 10.48 were established in 1927; the road ROW was also established at this time.

Leonard Road roadway segments MP 0.08 to 0.39, MP 0.54 to 0.74, and MP 0.84 to 0.99 were established in 1915; the road ROW was also established at this time. Roadway segments MP 1.08 to 1.57 and MP 1.78 to 1.85 were established in 1915 and 1984; the road ROW was also established at this time.

West Side Highway roadway segment MP 0.32 to 0.36 was established in 1903 and 1945; the road ROW was also established at this time.

9k. Has a cultural resource (archaeological) survey been performed on the project area? [\[help\]](#)

Yes No

No cultural resources survey was performed for this project. The Washington Department of Transportation consulted with the Department of Archaeology and Historic Preservation on behalf of FHWA and it was determined that this project meets exemptions A-5, A-16, and A-18 of FHWA's Section 106 Programmatic Agreement.

9l. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [\[help\]](#)

Review of the Washington State Department of Fish and Wildlife (WDFW) Priority Habitats and Species (PHS) Database, WDFW PHS GIS data, and the SalmonScape interactive mapper determined portions of the proposed project are within a Section adjacent to Occurrence Point for the Marbled Murrelet; however, these areas were reviewed by WSDOT and it was determined there is no suitable habitat within 0.25 miles of the proposed work.

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

According to the WDFW priority habitat and species database priority species potentially within the project vicinity include the big brown bat, cavity-nesting ducks, eastern wild turkey, purple martin, osprey, and Vaux's swift. None of these species are anticipated to be adversely impacted by the project.

Part 10–SEPA Compliance and Permits

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

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

- A copy of the SEPA determination or letter of exemption is included with this application.
- A SEPA determination is pending with Lewis County Community Development (lead agency). The expected decision date is March 31, 2019.
- I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [\[help\]](#)
- This project is exempt (choose type of exemption below).
- Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?

- Other: _____
- SEPA is pre-empted by federal law.

10b. Indicate the permits you are applying for. (Check all that apply.) [\[help\]](#)

LOCAL GOVERNMENT

Local Government Shoreline permits:

- Substantial Development Conditional Use Variance
- Shoreline Exemption Type (explain): _____

Other City/County permits:

- Floodplain Development Permit Critical Areas Ordinance

STATE GOVERNMENT

Washington Department of Fish and Wildlife:

- Hydraulic Project Approval (HPA) Fish Habitat Enhancement Exemption – [Attach Exemption Form](#)

Washington Department of Natural Resources:

- Aquatic Use Authorization

Washington Department of Ecology:

- Section 401 Water Quality Certification

FEDERAL GOVERNMENT

United States Department of the Army permits (U.S. Army Corps of Engineers):

- Section 404 (discharges into waters of the U.S.) Section 10 (work in navigable waters)

United States Coast Guard permits:

- General Bridge Act Permit Private Aids to Navigation (for non-bridge projects)

Part 11—Authorizing Signatures

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

11a. Applicant Signature (required) [\[help\]](#)

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

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. _____ (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. AW (initial)

Ann Weckback
Applicant Printed Name

[Signature]
Applicant Signature

1/10/19
Date

11b. Authorized Agent Signature [\[help\]](#)

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

Authorized Agent Printed Name

Authorized Agent Signature

Date

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

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

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

Property Owner Printed Name

Property Owner Signature

Date

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

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 07/2017



WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) [help]



US Army Corps
of Engineers
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

TO BE COMPLETED BY APPLICANT [help]

Project Name:

Highway Safety Improvement Project
(HSIP) Phase II- CRP 2185B _____

Location Name (if applicable): Various
locations countywide _____

Attachment C:
Contact information for adjoining
property owners. [help]

Use this attachment only if you have more than four adjoining property owners.

Use black or blue ink to enter answers in white spaces below.

1. Contact information for all adjoining property owners. [help]

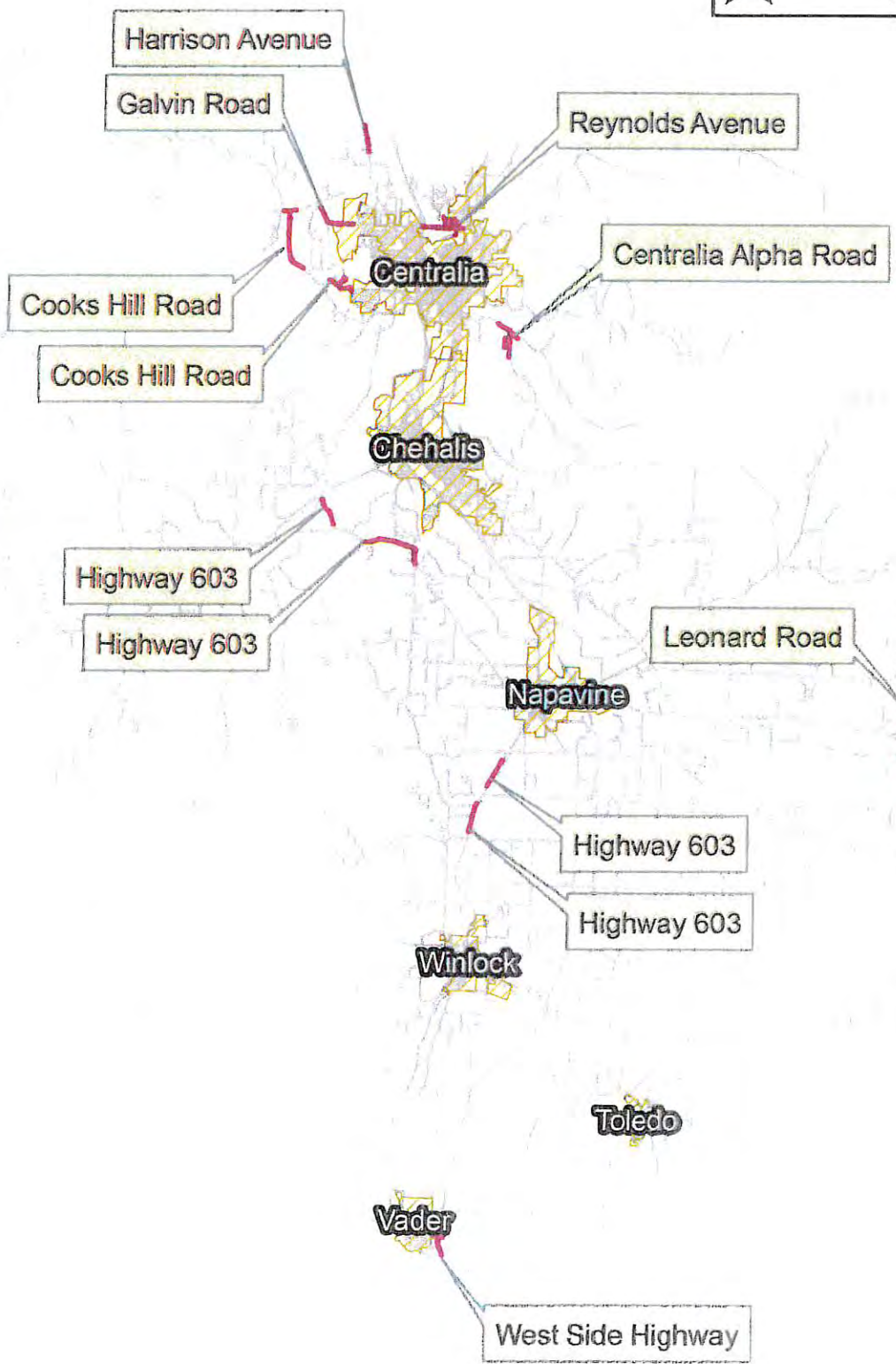
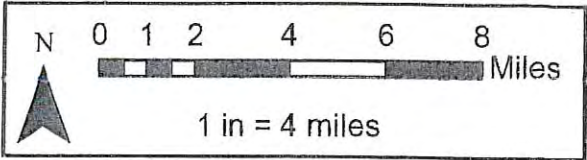
Name	Mailing Address	Tax Parcel # (if known)
Galvin Rd - 1.52 to 1.62		
Leo H Pope	PO Box 51	023915001003
	023915001003	
Port of Centralia	3508 Galvin Rd	021900001003 and 023890010000
	Centralia, WA 98531	
Reynolds Ave - MP 0.33 to 0.71		
Lewis County	360 NW North St	023619001004
	Chehalis, WA 98532	
William Kode and Dayna Morris	858 Independence Rd	021044002000 and 023619001002
	Rochester, WA 98579	
Jieres and Deborah Saade, et al	7404 191 st St	023619001003 and 023619001002
	Rochester, WA 98579	
Joseph B and Kerrie R Gillum	PO Box 1220	021035017001
	Forks, WA 98331	
Jeremy Ashbeck	11012 NE 68 th St Apt 512	021033001002
	Kirkland, WA 98033	
Lewis and Clark Property, LLC	117 W Magnolia St	023622002000
	Centralia, WA 98531	
John A and Clara Milton	808 W Reynolds Ave	021033003000
	Centralia, WA 98531	

Name	Mailing Address	Tax Parcel # (if known)
Reynolds Ave - MP 0.33 to 0.71, continued		
John A and Barbara Ann Milton	720 W Reynolds Ave	021033004000
	Centralia, WA 98531	
Rickie D and Lana A Callies	704 W Reynolds Ave	021033002000
	Centralia, WA 98531	
606 Reynolds, LLC	PO Box 293	021023002000
	Centralia, WA 98531	
Cooks Hill Rd MP 1.70 to 1.76 and Summerside Dr MP 0.00 to 0.06		
Robert I and Kristen A Bond	29672 Novacella	022118003001
	Laguna Niguel, CA 92677	
Jeffrey D and Chelsie L Bass	114 Summerside Dr	010907049003
	Centralia, WA 98531	
Cooks Hill Rd MP 3.15 to 3.28		
Dale W Scott	3889 Cooks Hill Rd	021980000000
	Centralia, WA 98531	
Cooks Hill Rd MP 3.8 to 3.9		
Alana R and Janete C Nieman	PO Box 184	021970001004 and 021970001005
	Galvin, WA 98544	
Duane W and Terri J Lantau	520 W River Rd	021970002003
	Centralia, WA 98531	
Cooks Hill Rd MP 4.07 to 4.20		
Paul A and Kristen F Erickson	148 Mattson Rd	023883000000
	Centralia, WA 98531	
Yvonne Johnson	4088 Cooks Hill Rd	023882002000
	Centralia, WA	
Centralia Alpha Rd MP 0.05 to 0.29		
Columbia Regional Asset Investment Group	PO Box 1056	021424015004
	Rainier, OR 97048	
John and Marlo Braun	1955 Salzer Valley Rd	021408002000 and 021424017000
	Centralia, WA 98531	
Hwy 603 MP 0.28 to 0.36		
Jeffrey Elliott	PO Box 360	018535000000
	McKenna, WA 98558	
John H and Rebecca S Breen	499 Hwy 603	017640003000
	Chehalis, WA 98532	

Name	Mailing Address	Tax Parcel # (if known)
Hwy 603 MP 1.87 to 1.92		
Derek and Corinna Burger	474 Hwy 603	017642003005
	Chehalis, WA 98532	
Patrick D and Shannon L Sauter	510 Hwy 603	017643003004
	Chehalis, WA 98532	
Hwy 603 MP 2.50 to 2.82		
Jeffrey W and Donna L Martin	599 Hwy 603	017628002002
	Chehalis, WA 98532	
Taylor Living Trust, dated 6/12/12	1214 Buena Vista Ave	017635002000
	Fircrest, WA 98466	
Wenda Marie Coronel, et al Trust	PO Box 95	017635000000
	Onalaska, WA 98570	
Serene A Johnson, et al	643 Hwy 603	017636000000
	Chehalis, WA 98532	
Donald B Baxter	648 Hwy 603	017635004000
	Chehalis, WA 98532	
Mary Webster	124 Home Pl	017620000000
	Chehalis, WA 98532	
Michael K and Terri L Herring	661 Hwy 603	017635006000
	Chehalis, WA 98532	
Fred R and Rexanna A Inanbit	667 Hwy 603	017673000000
	Chehalis, WA 98532	
Hwy 603 MP 9.23 to 9.32		
Todd Lawrence Morrison	PO Box 645	014910000000
	Napavine, WA 98565	
Patricia Morrison	PO Box 116	014897000000
	Winlock, WA 98596	
Hwy 603 MP 10.37 to 10.48		
David John Jr and Sarah Ann McFarland	1526 Naches Ct	015040021001
	Richland, WA 99352	
Evaline School District	111 Schoolhouse Rd	015040002003
	Winlock, WA 98596	
Christel Field	148 Schoolhouse Rd	015011005000
	Winlock, WA 98596	

Name	Mailing Address	Tax Parcel # (if known)
Leonard Rd 0.08 to 0.39		
Christopher Chandler	PO Box 234	032843001002
	Onalaska, WA 98570	
Cheryl A Rosen	128 Leonard Rd	032843001004
	Onalaska, WA 98570	
David Littleton	855 Trosper Rd SW Ste 108	032843001003
	Tumwater, WA 98512	
Onalaska Assembly of God Church	PO Box 246	032843001000
	Onalaska, WA 98570	
Arlene Ann Lowry	PO Box 14	032803001004
	Onalaska, WA 98570	
Robert B and Diana Blair	138 Leonard Rd	032803001006
	Onalaska, WA 98570	
Bob and Carlana Morgan	939 Burnt Ridge Rd	032844004000
	Onalaska, WA 98570	
Edwin and Lisa Moss	153 Leonard Rd	032844003000
	Onalaska, WA 98570	
Mike Zelick	178 Leonard Rd	032806002005
	Onalaska, WA 98570	
Dave and Nancy Hall	175 Leonard Rd	032845012000
	Onalaska, WA 98570	
Leonard Rd MP 0.54 to 0.74		
Mary Starkel	PO Box 585	032825000000
	Onalaska, WA 98570	
Leonard Rd 0.84 to 0.99		
Carl Binion	265 Leonard Rd	032853001000
	Onalaska, WA 98570	
Jim and Shirley K Lucas	110 Burchett Rd	032853001000
	Onalaska, WA 98570	
Leonard Rd MP 1.08 to 1.57		
Timber Services, Inc	PO Box 891	027691002000, 027693000000, and 027694000000
	Chehalis, WA 98532	
Whylo and Rachel Lyons	PO Box 672	027697011001
	Onalaska, WA 98570	

Name	Mailing Address	Tax Parcel # (if known)
Leonard MP 1.78 to 1.85		
John Conroy	PO Box 747	027681002001
	Onalaska, WA 98570	
Anthony S and Carol B Long	PO Box 933	027681002002
	Onalaska, WA 98570	
West Side Hwy MP 0.32 to 0.36		
Hanna C Tilson and Kyle Orth	160 West Side Hwy	012654002000
	Vader, WA 98593	
Lowell T and Patricia May	159 West Side Hwy	012654001000
	Vader, WA 98593	
Pellegrino Ben Genuardi	110 Little Pinto Ct	010594068000
	Vader, WA	
Shane Peters	112 Little Pinto Ct	010594039000
	Vader, WA 98593	
Rose A and James D Lomer	185 West Side Hwy	012655002000
	Vader, WA 98593	
<p>If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-014 rev. 10/2016</p>		



REFERENCE NUMBER: NWS-2018-

APPLICANT: LEWIS COUNTY PUBLIC WORKS

ADJACENT PROPERTY OWNERS: N/A

PROJECT LOCATION: COUNTYWIDE

LAT/LONG: N/A

DATUM: NAD_83

SHEET 1 OF 41

DATE: 12/20/2018

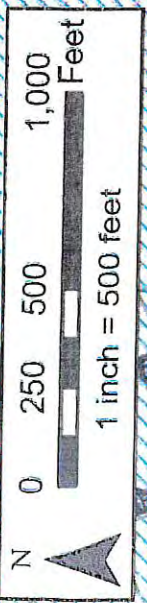
PROPOSED PROJECT:
HSIP II- CRP2185B

IN: N/A

NEAR/AT: N/A

COUNTY: LEWIS

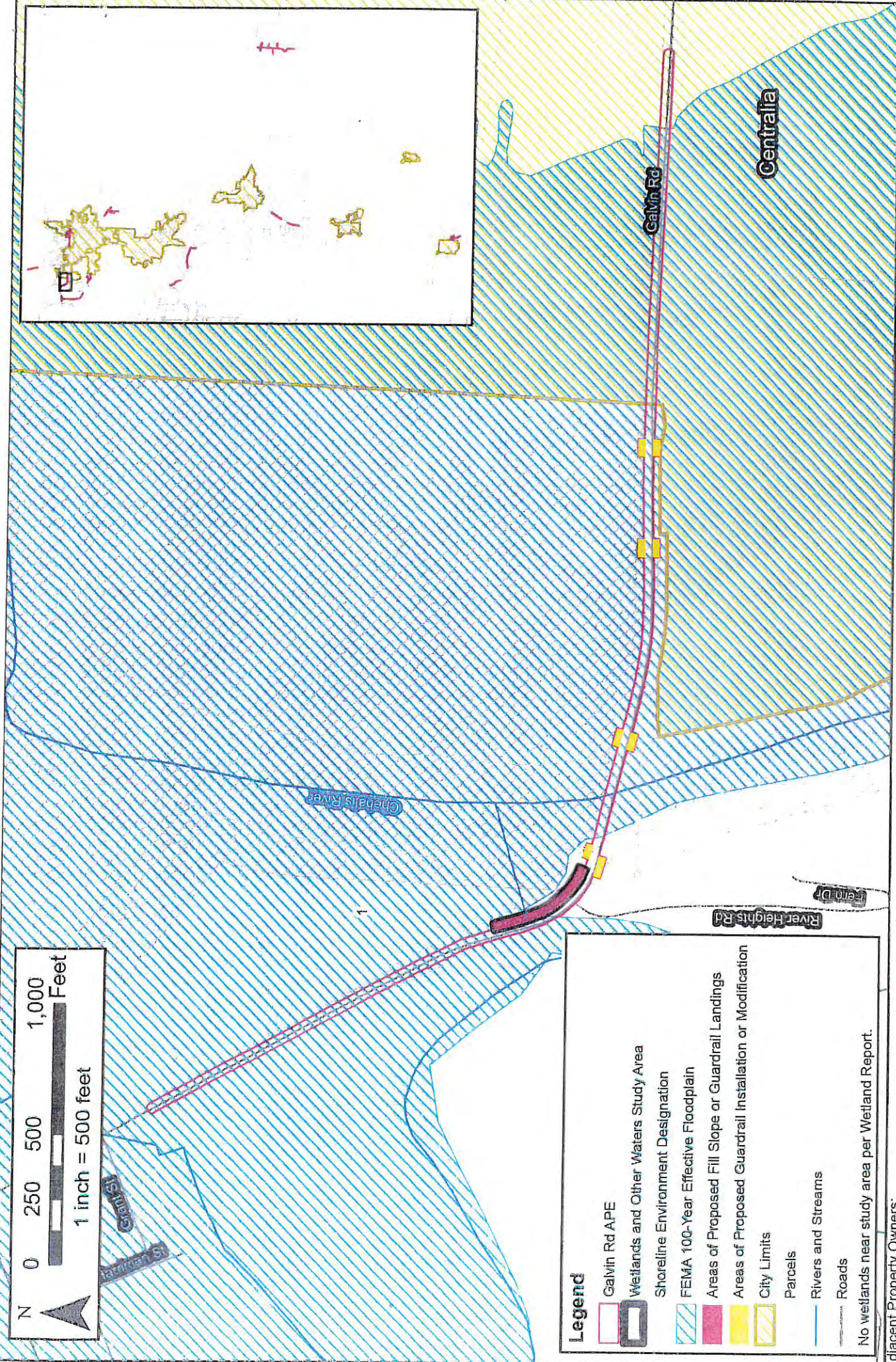
STATE: WA



Legend

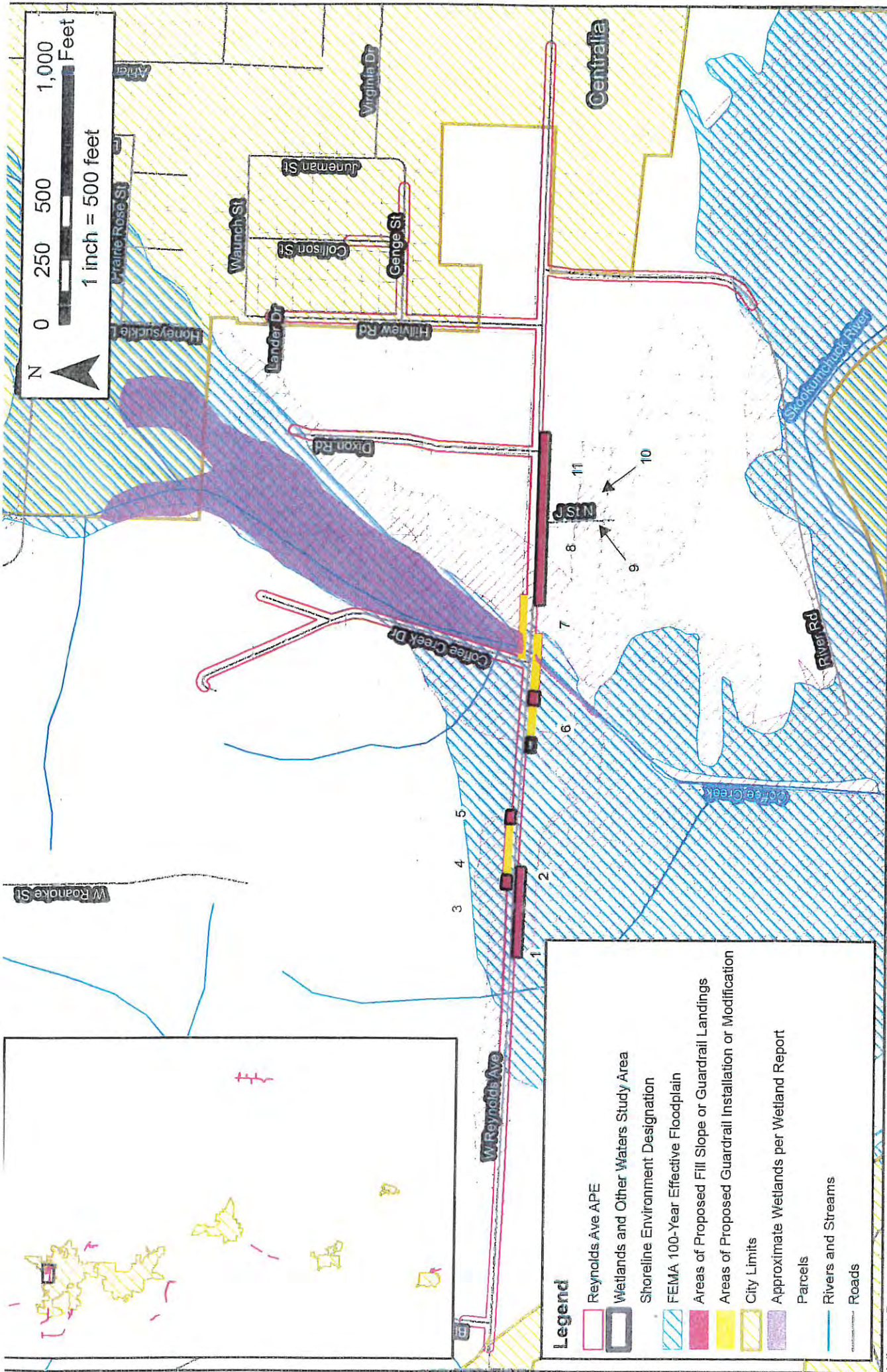
- Galvin Rd APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Parcels
- Rivers and Streams
- Roads

No wetlands near study area per Wetland Report.



Adjacent Property Owners:

1.) Parcel #023915-001-003 Pope, Leo

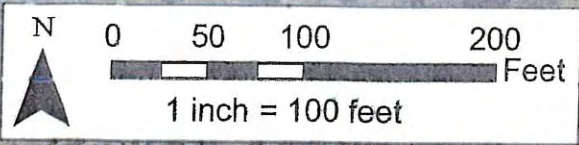


Legend

- Reynolds Ave APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Approximate Wetlands per Wetland Report
- Parcels
- Rivers and Streams
- Roads

Adjacent Property Owners:

- 1.) Parcel #021044-002-000 Kode, William & Morris, Dayna
- 2.) Parcel #021044-003-000 Kode, William & Morris, Dayna
- 3.) Parcel #023619-001-004 Lewis County
- 4.) Parcel #023619-001-003 Saade, Jieres & Deborah, et al
- 5.) Parcel #023619-001-002 Saade, Jieres & Deborah, et al
- 6.) Parcel #021035-017-001 Gillum, Joseph & Kerrie
- 7.) Parcel #021033-001-002 Ashbeck, Jeremy
- 8.) Parcel #021033-003-000 Milton, John & Clara
- 9.) Parcel #021033-004-000 Milton, John & Barbara Ann
- 10.) Parcel #021033-002-000 Callies, Rickie & Lana
- 11.) Parcel #021023-002-000 606 Reynolds, LLC

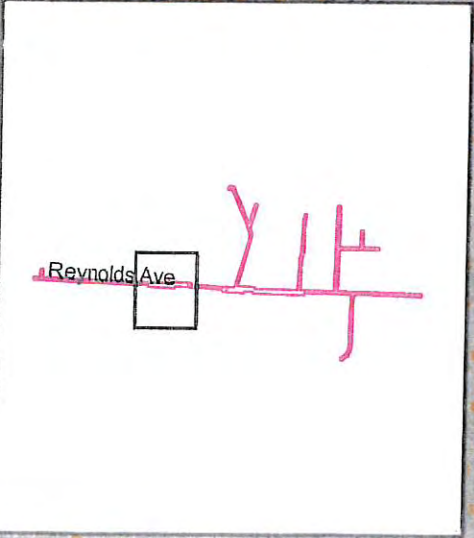


End MP 0.71

R1 - Ditch 8
(Regulated)
0.006 acres - onsite

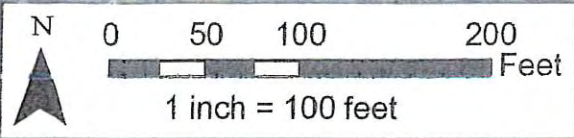
R1 - Ditch 1
(Regulated)
0.051 acres
Permanent Jurisdictional
Drainage Impact 37 sq ft

Match Line



Legend

- Wetlands and Other Waters Study Area
- Jurisdictional Drainage
- Shoreline
- Permanent Jurisdictional Drainage Impact
- Roads



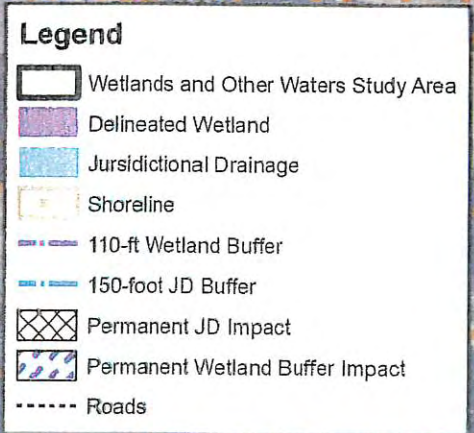
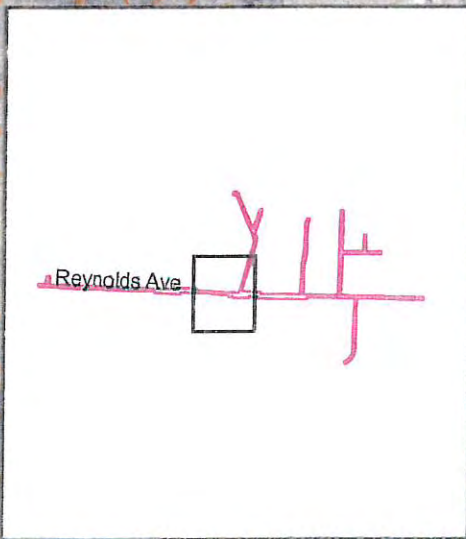
Wetland R1
 Category II
 11.829 acres
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 64 sq ft

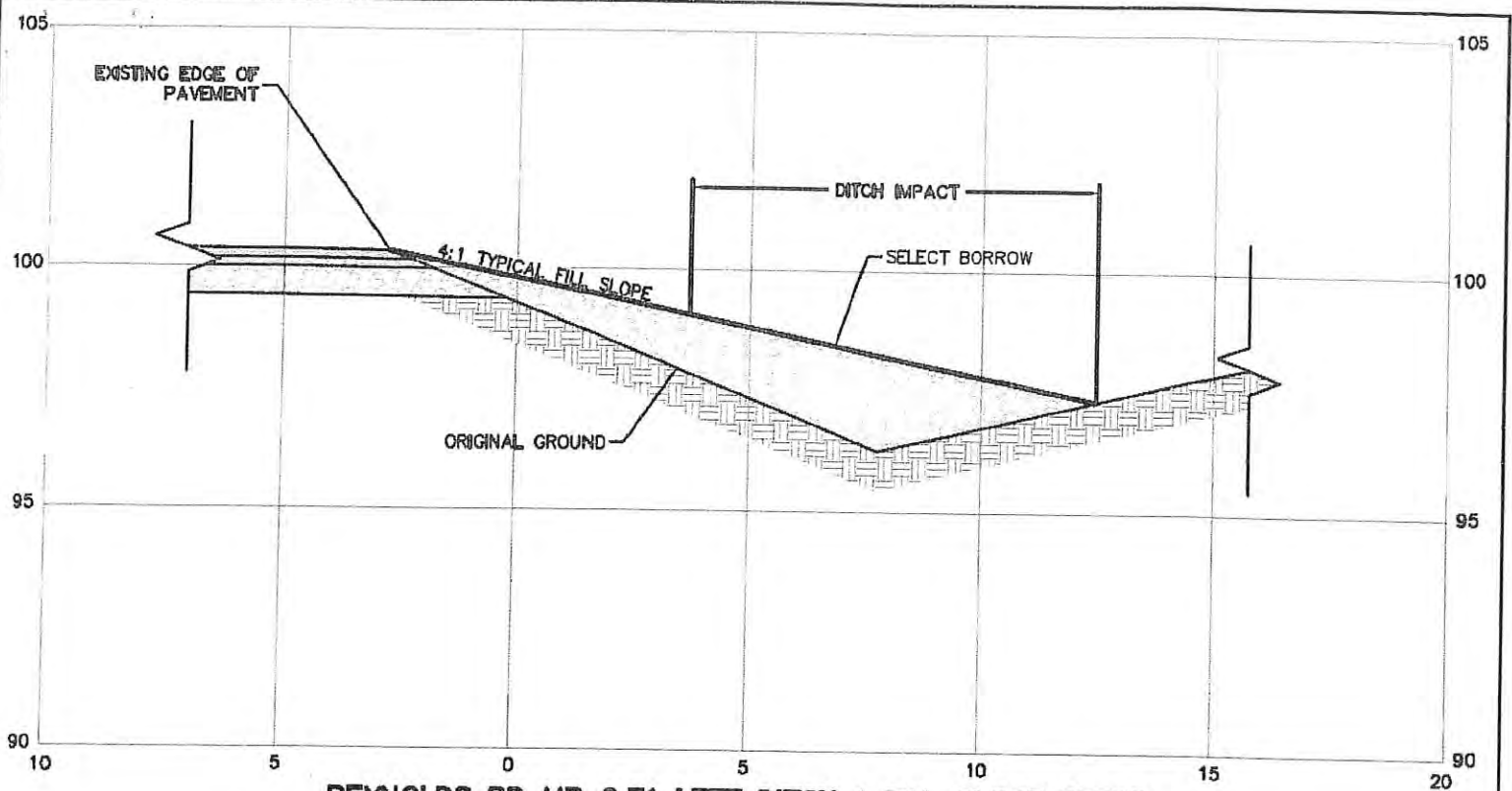
Coffee Creek
 150-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 64 sq ft

R1 - Ditch 8
 (Regulated)
 0.006 acres - onsite

R1 - Ditch 2
 (Not Regulated)
 0.005 acres

R1 - Ditch 3
 (Regulated)
 0.002 acres - onsite
 Permanent Jurisdictional
 Drainage Impact 17 sq ft

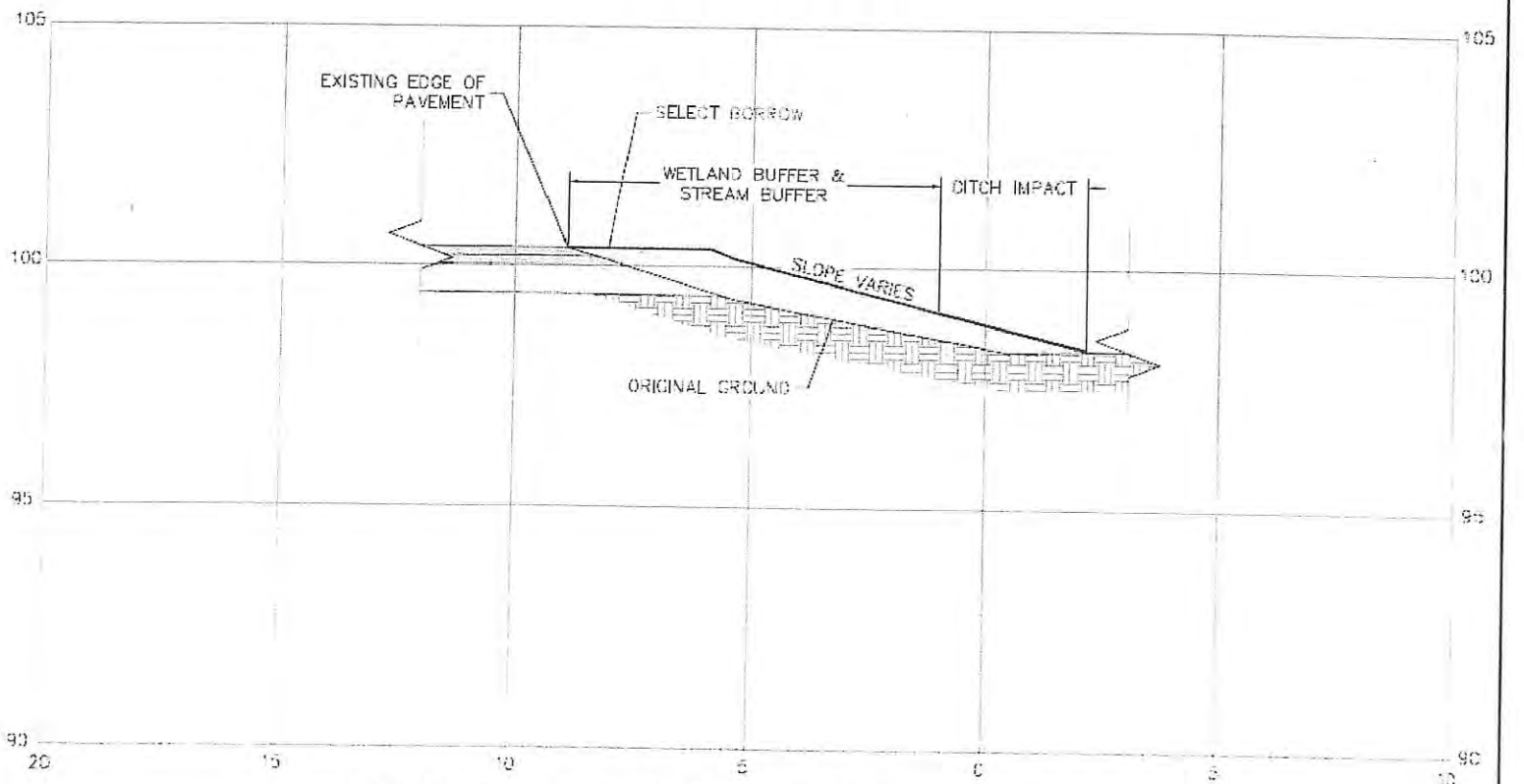




REYNOLDS RD MP 0.71 LEFT DITCH 1 FILL SLOPE DETAIL

SECTION A-A

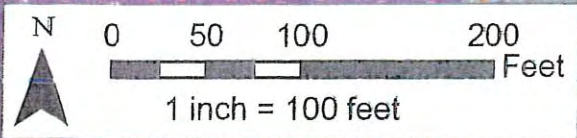
VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



REYNOLDS RD MP 0.33 DITCH 3 LEFT FILL SLOPE DETAIL

SECTION B-B

VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



Wetland R1
 Category II
 11.829 acres
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 64 sq ft

Coffee Creek
 150-ft Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 64 sq ft

R1 - Ditch 4
 (Regulated)
 0.029 acres - onsite
 Permanent Jurisdictional
 Drainage Impact 256 sq ft

R1 - Ditch 5
 (Regulated)
 0.007 acres
 Permanent Jurisdictional
 Drainage Impact 34 sq ft

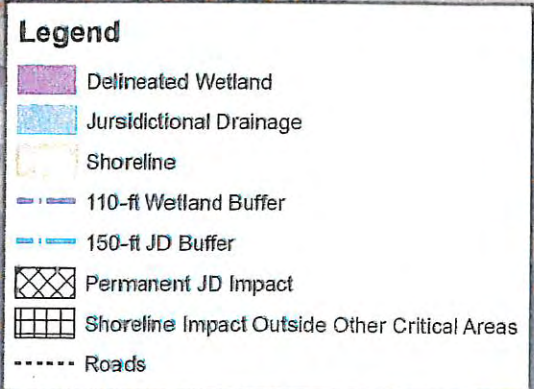
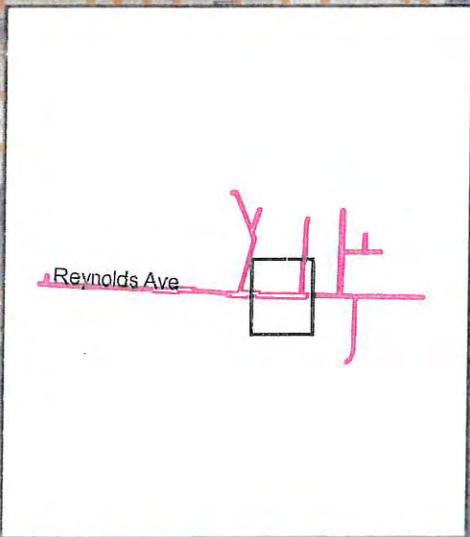
R1 - Ditch 6
 (Regulated)
 0.023 acres
 Permanent Jurisdictional
 Drainage Impact 108 sq ft

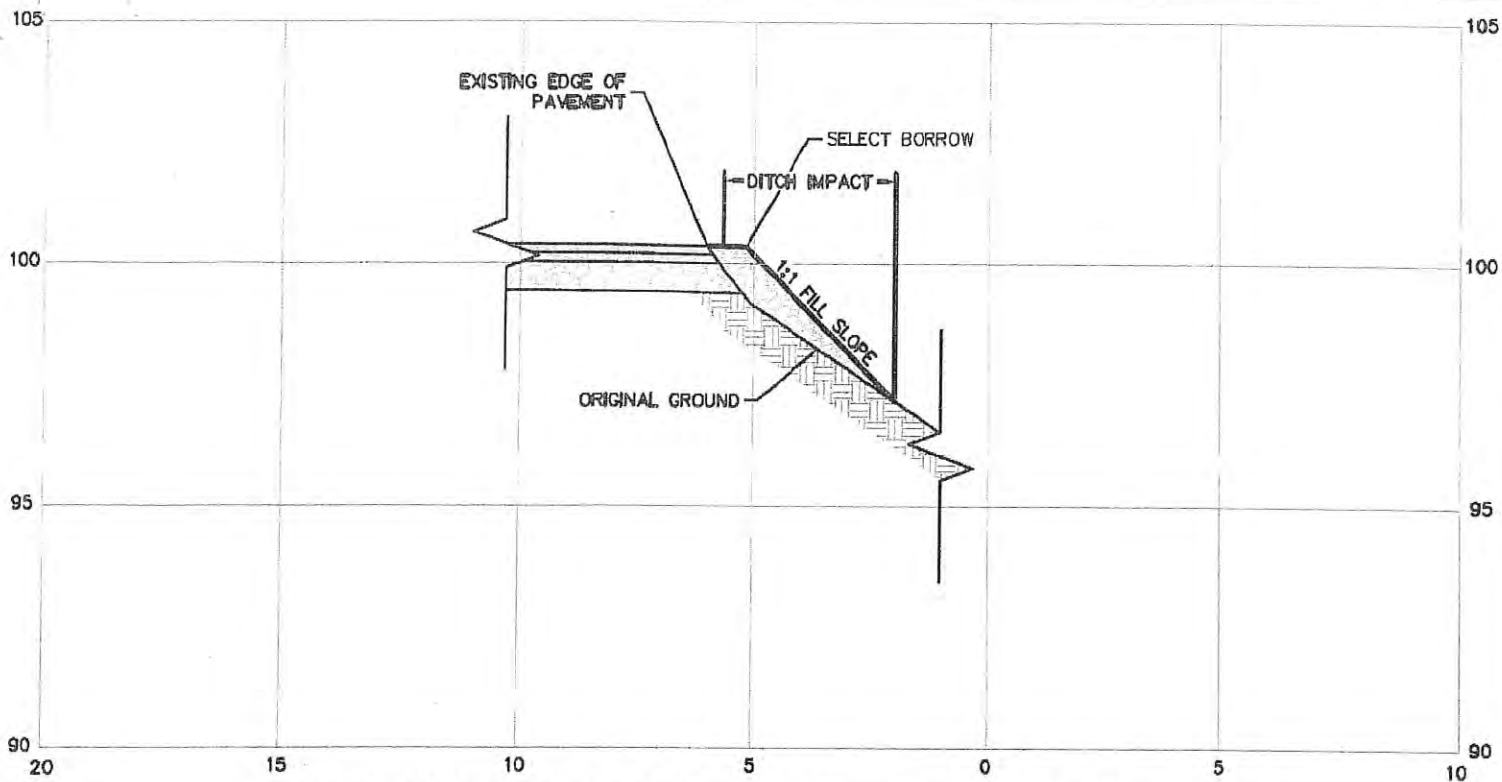
R1 - Ditch 7
 (Regulated)
 0.003 acres

Shoreline Outside Other Critical Areas
 Permanent Shoreline Impact 220 sq ft

Start MP 0.33

Match Line

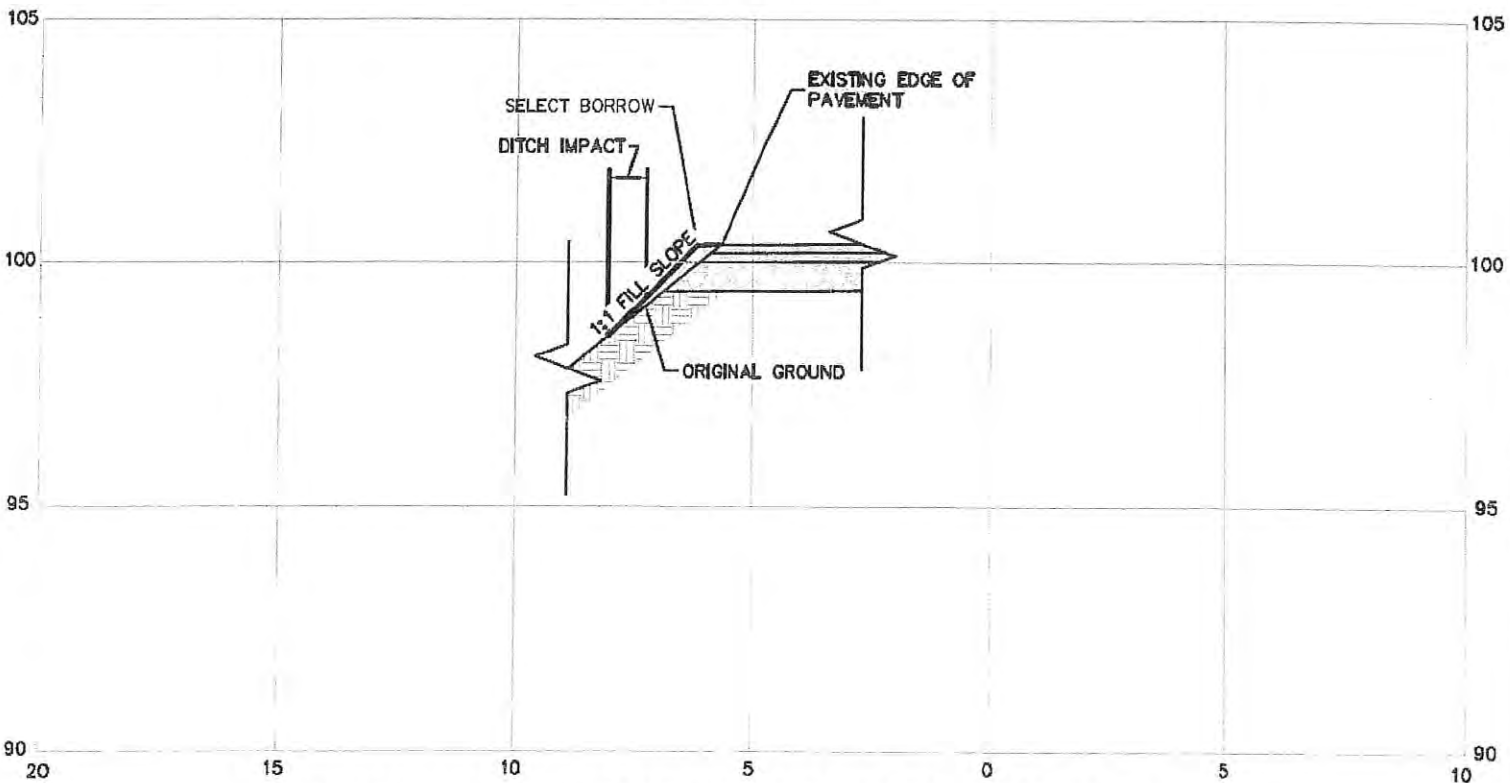




REYNOLDS RD MP 0.33 LEFT DITCH 4 FILL SLOPE DETAIL

SECTION C-C

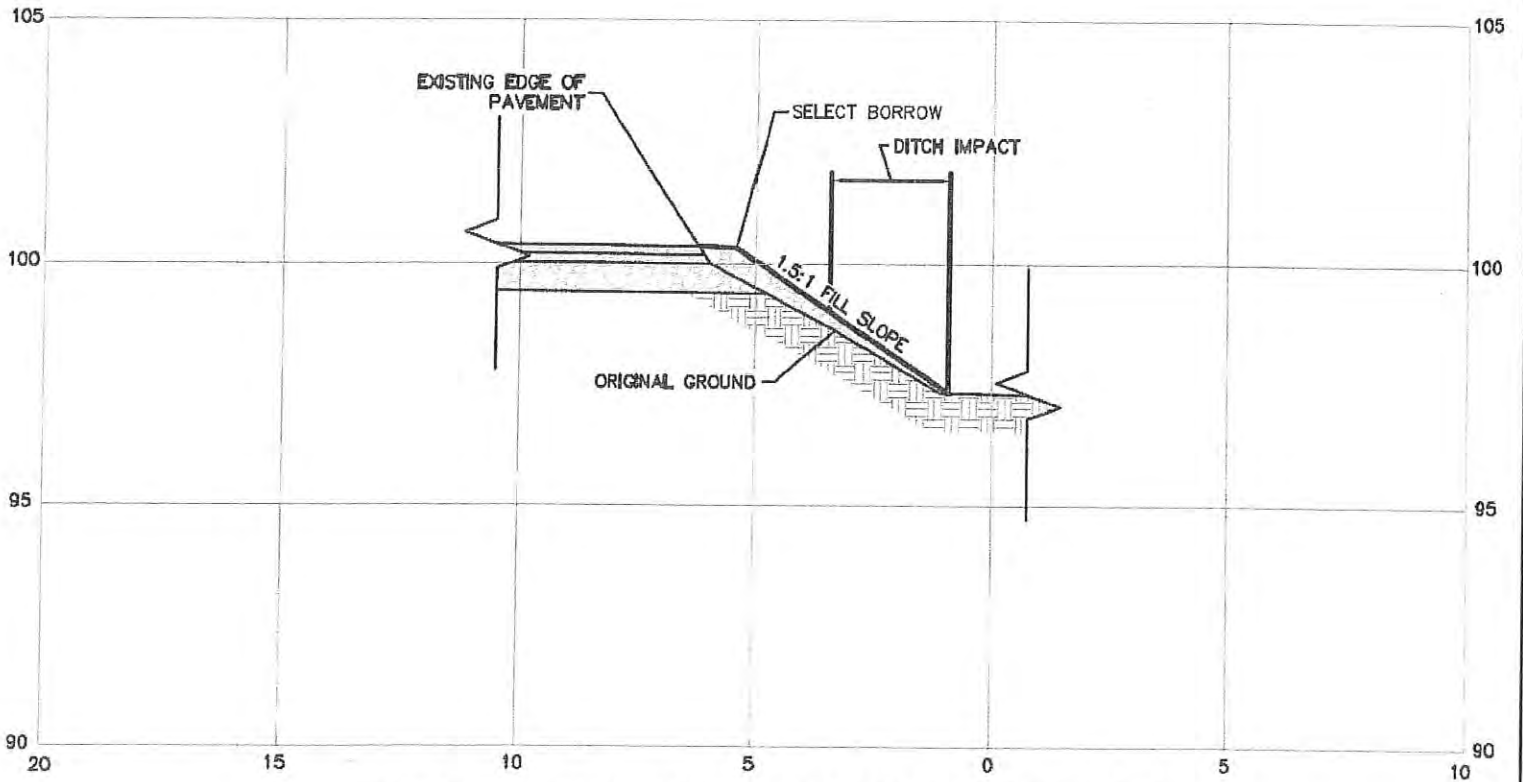
VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



REYNOLDS RD MP 0.33 DITCH 5 LEFT FILL SLOPE DETAIL

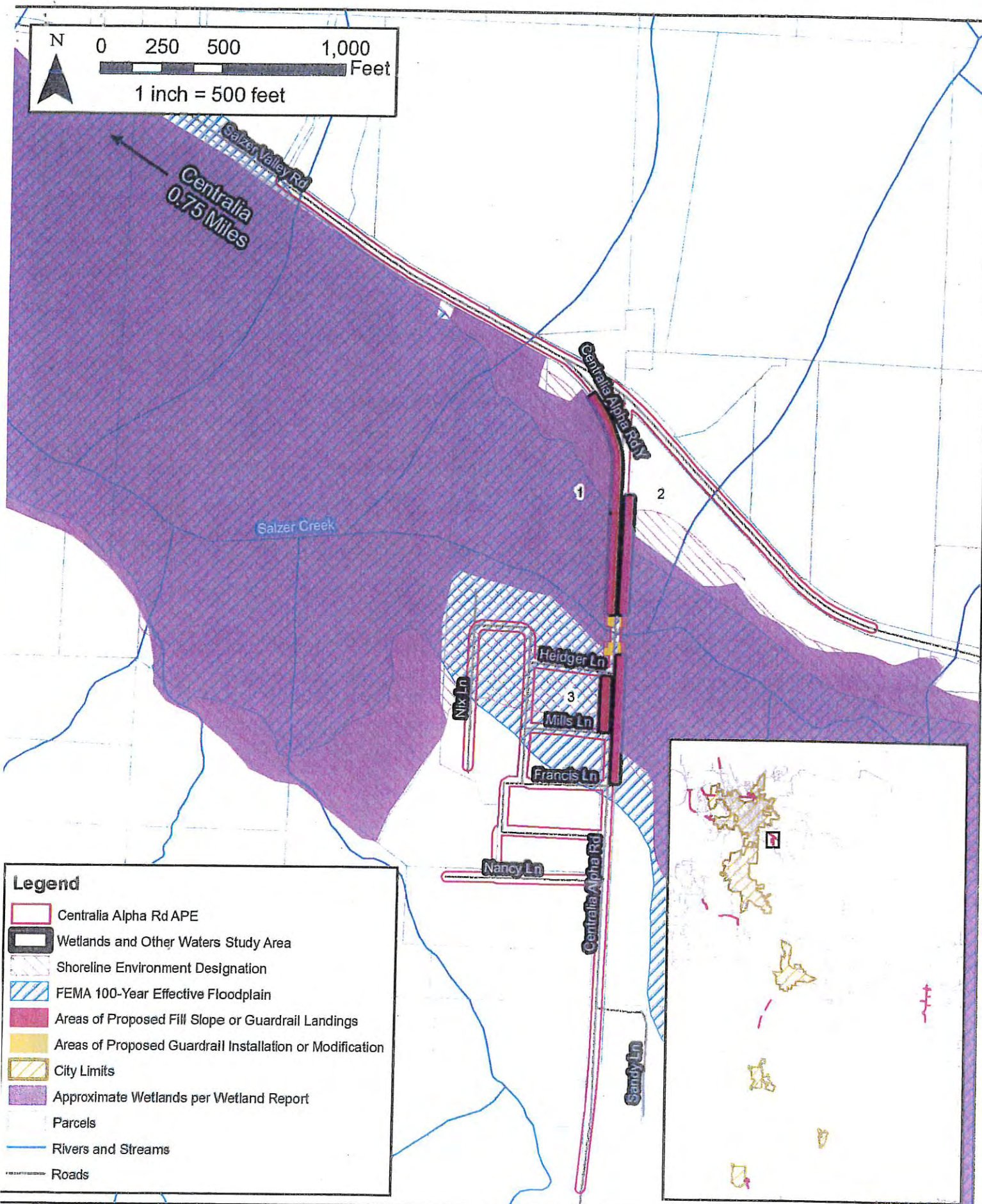
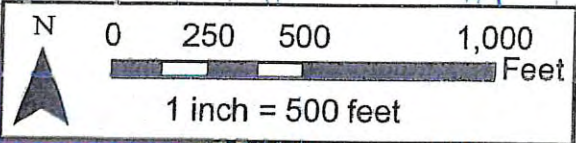
SECTION D-D

VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



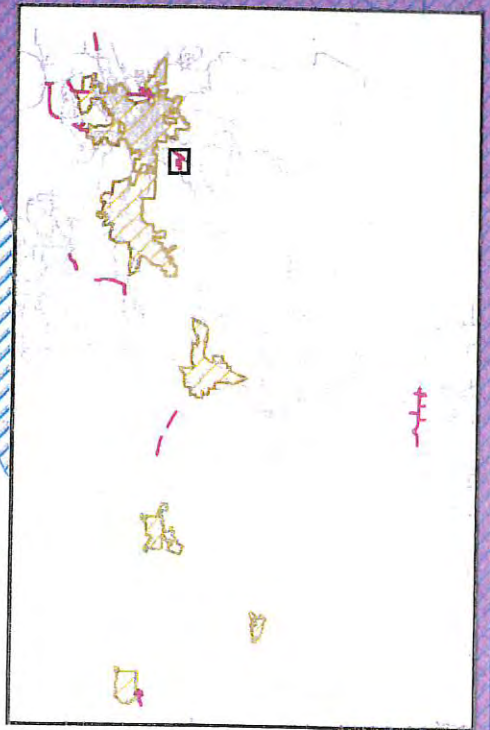
REYNOLDS RD MP 0.33 DITCH 6 LEFT FILL SLOPE DETAIL
SECTION E-E

VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED

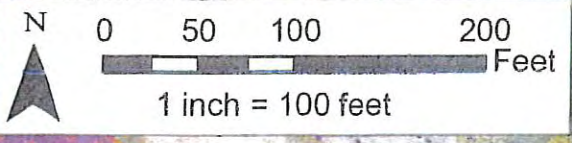


Legend

- Centralia Alpha Rd APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Approximate Wetlands per Wetland Report
- Parcels
- Rivers and Streams
- Roads



Adjacent Property Owners:
 Parcel #021424-017-000 Braun, John and Marlo
 Parcel #021408-002-000 Braun, John and Marlo
 Parcel #021424-002-000 Columbia Regional Asset Management Group

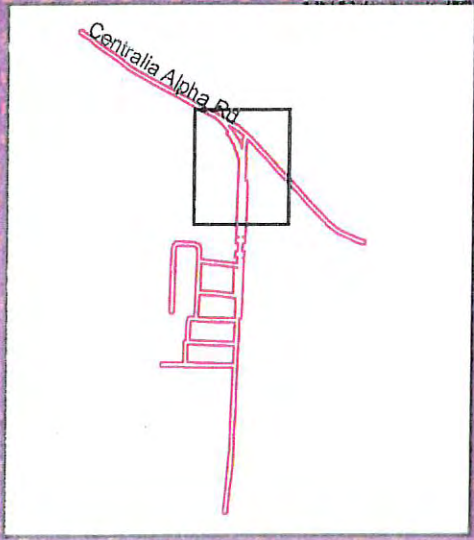


Start MP 0.05

Wetland CA1 (West)
 (Category II)
 0.268 acres - onsite
 Permanent Wetland Impact 300 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 12,075 sq ft

Salzer Creek
 Shoreline Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 6,994 sq ft

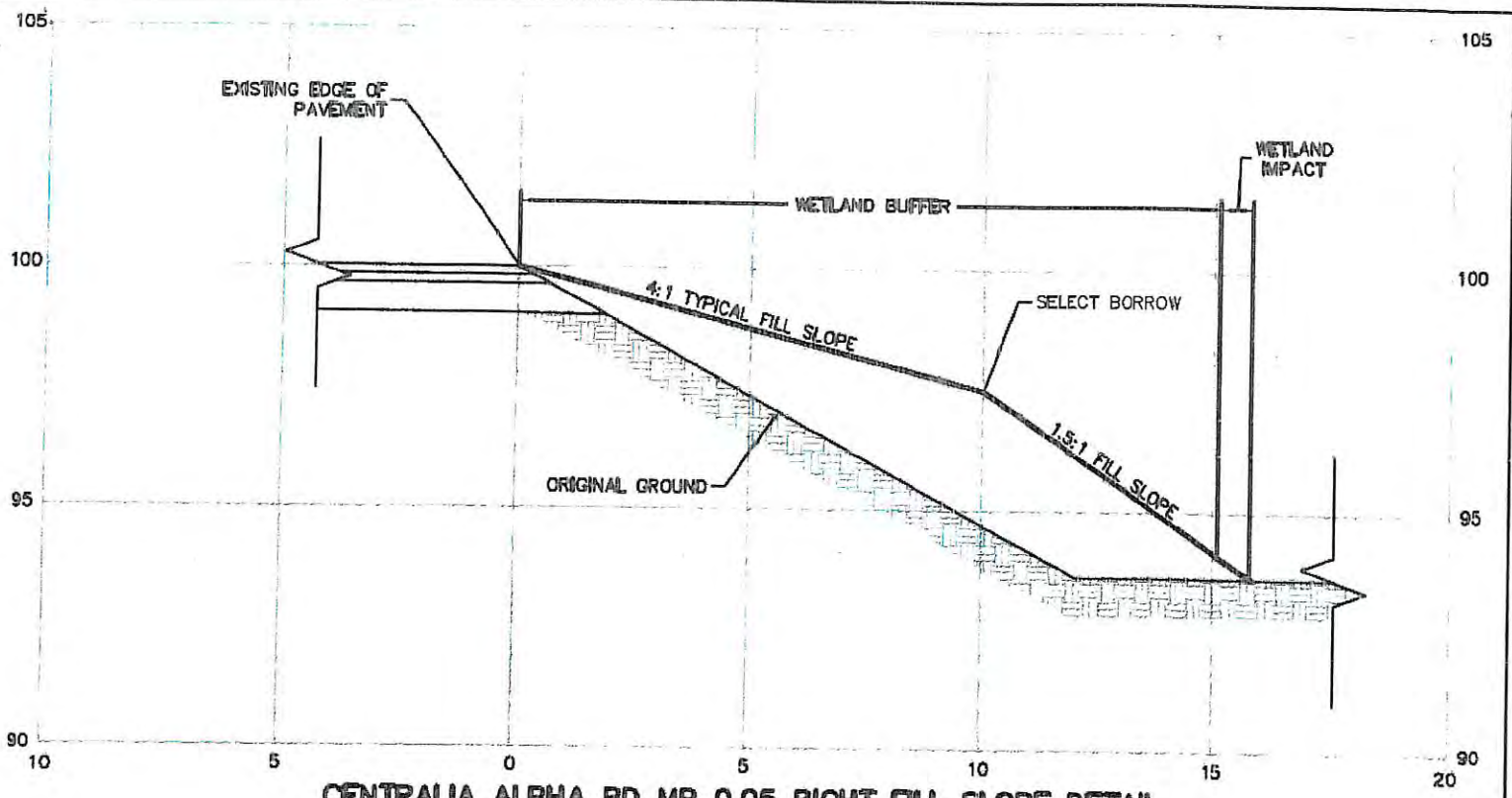
Wetland CA1 (East)
 (Category II)
 East: 0.443 acres - onsite
 Permanent Wetland Impact 7,962 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 6,069 sq ft



Match Line

Legend

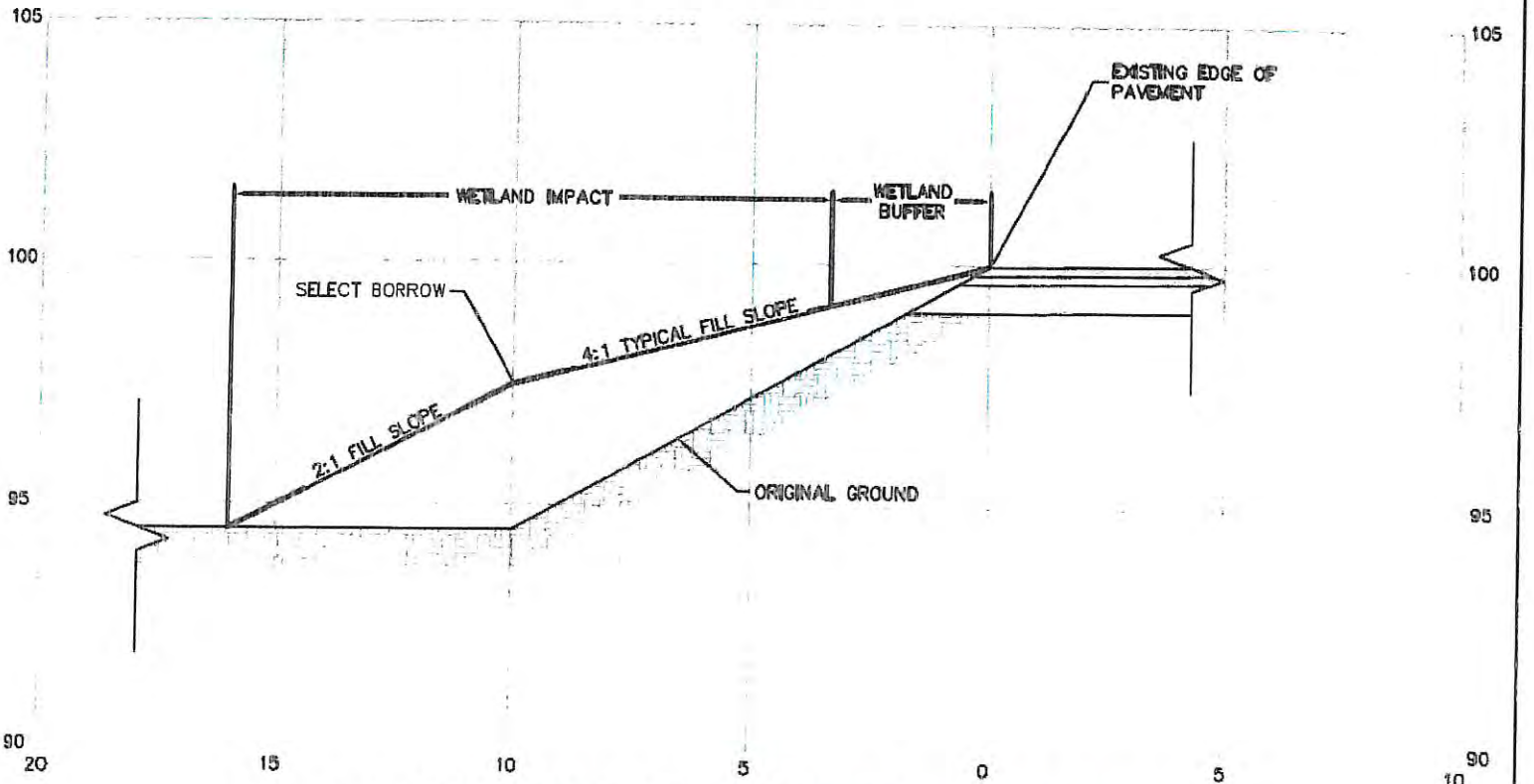
- Wetlands and Other Waters Study Area
- Delineated Wetland
- Shoreline-JD Buffer
- 110-ft Wetland Buffer
- Permanent Wetland Impact
- Permanent Wetland Buffer Impact
- Permanent JD Impact
- Roads



CENTRALIA ALPHA RD MP 0.05 RIGHT FILL SLOPE DETAIL

SECTION A-A

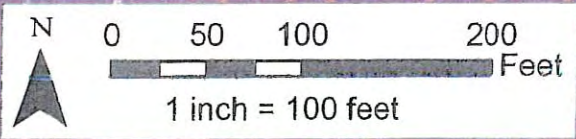
VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED



CENTRALIA ALPHA RD MP 0.05 LEFT FILL SLOPE DETAIL

SECTION B-B

VERTICAL AND HORIZONTAL SCALE = 1:1
ELEVATIONS ARE ASSUMED

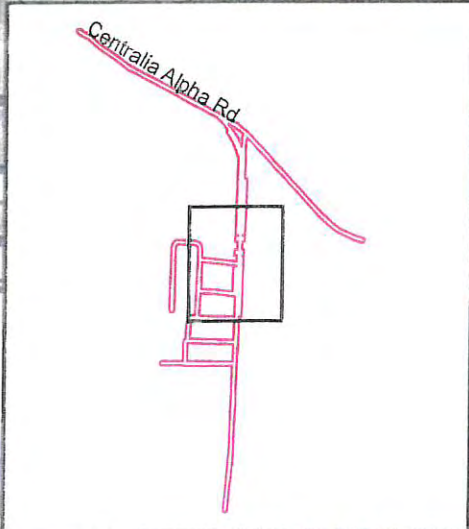
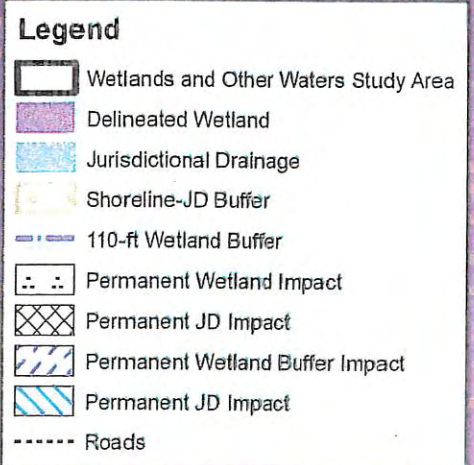


Wetland CA1 (West)
 (Category II)
 0.268 acres - onsite
 Permanent Wetland Impact 300 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 12,075 sq ft

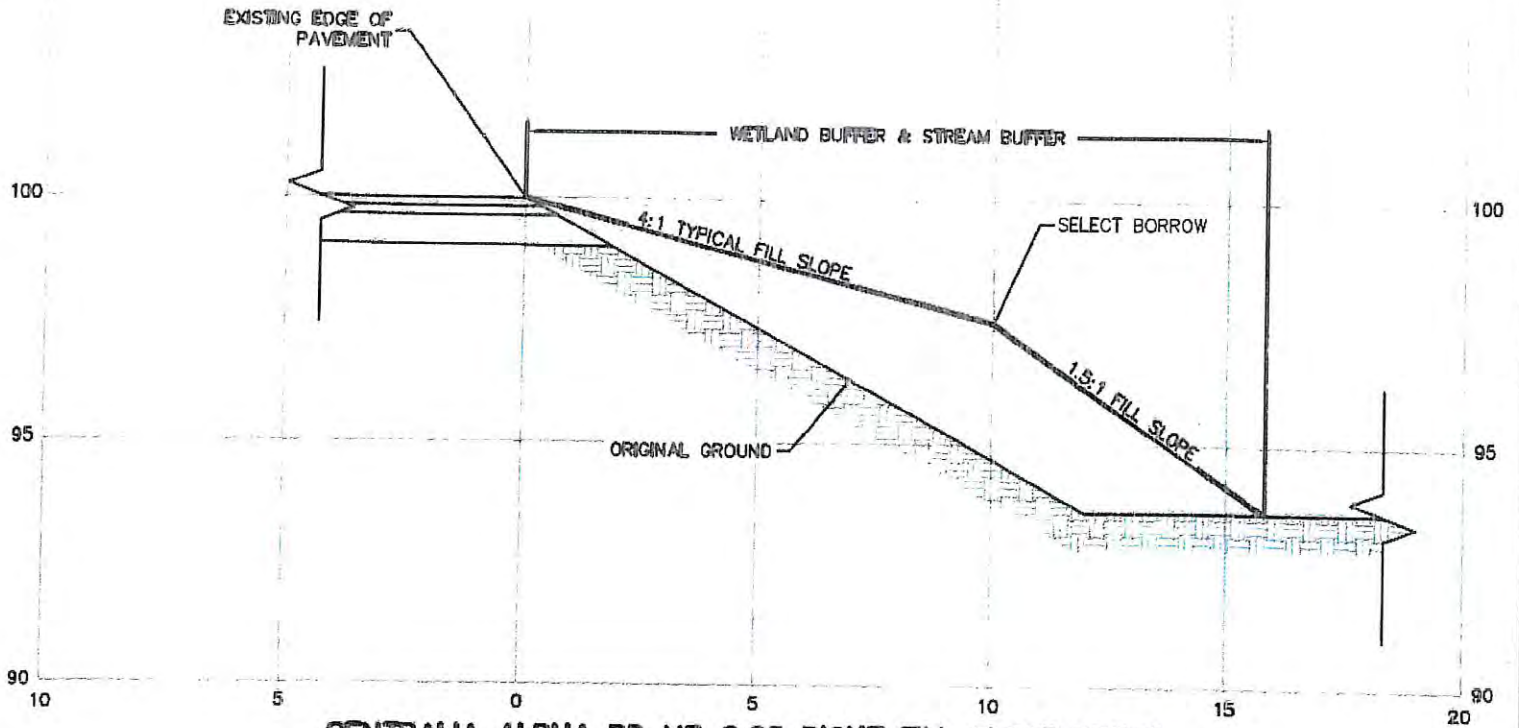
Salzer Creek
 Shoreline Jurisdictional Drainage Buffer
 Permanent Jurisdictional Drainage
 Buffer Impact 6,994 sq ft

CA1 - Ditch 1
 (Regulated)
 0.018 acres
 Permanent Jurisdictional
 Drainage Impact 413 sq ft

Wetland CA1 (East)
 (Category II)
 0.443 acres - onsite
 Permanent Wetland Impact 7,962 sq ft
 110-ft Wetland Buffer
 Permanent Wetland Buffer Impact 6,069 sq ft

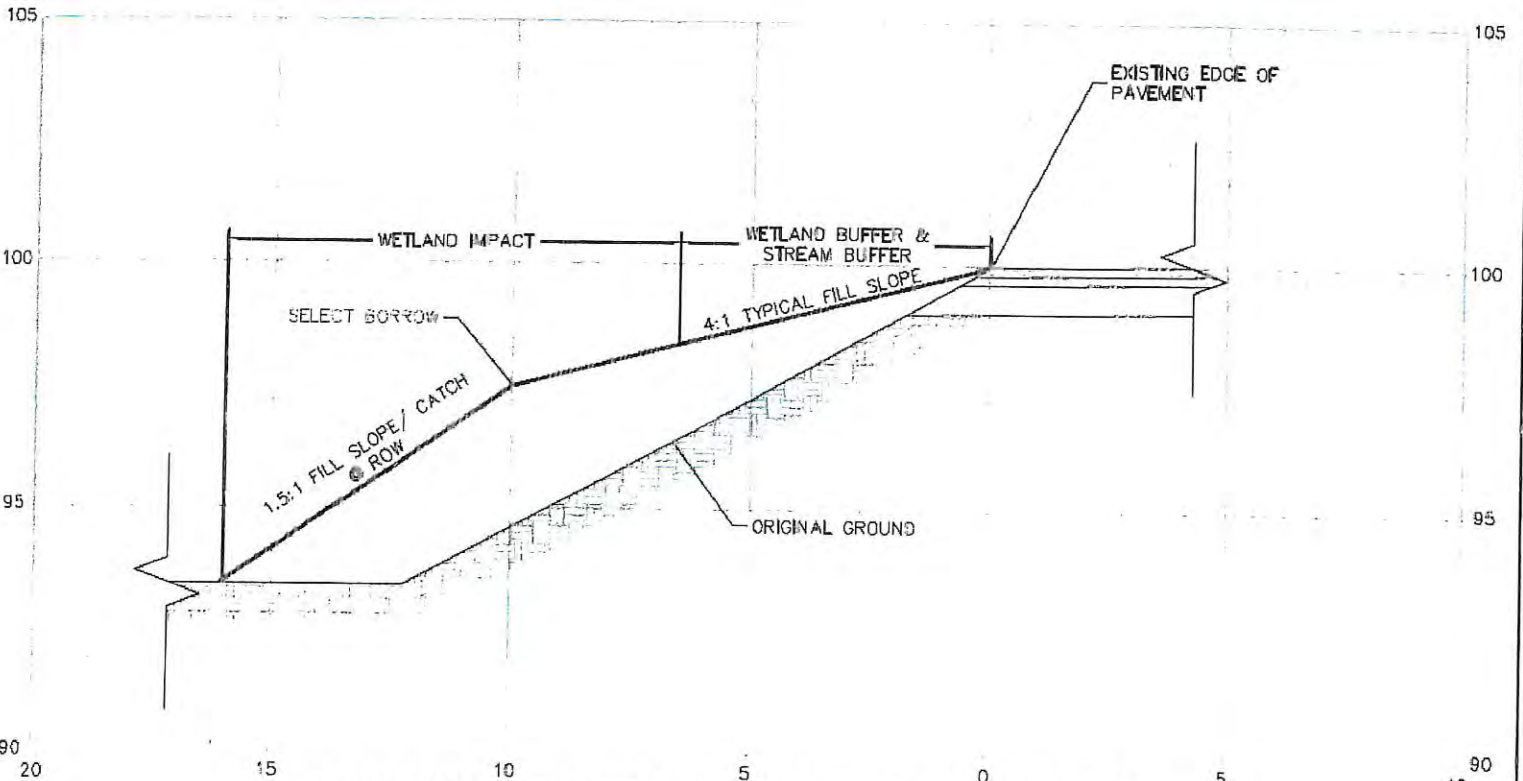


End MP 0.29



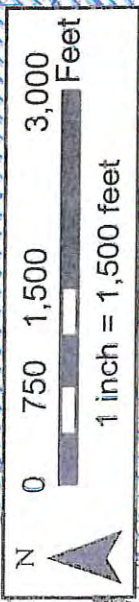
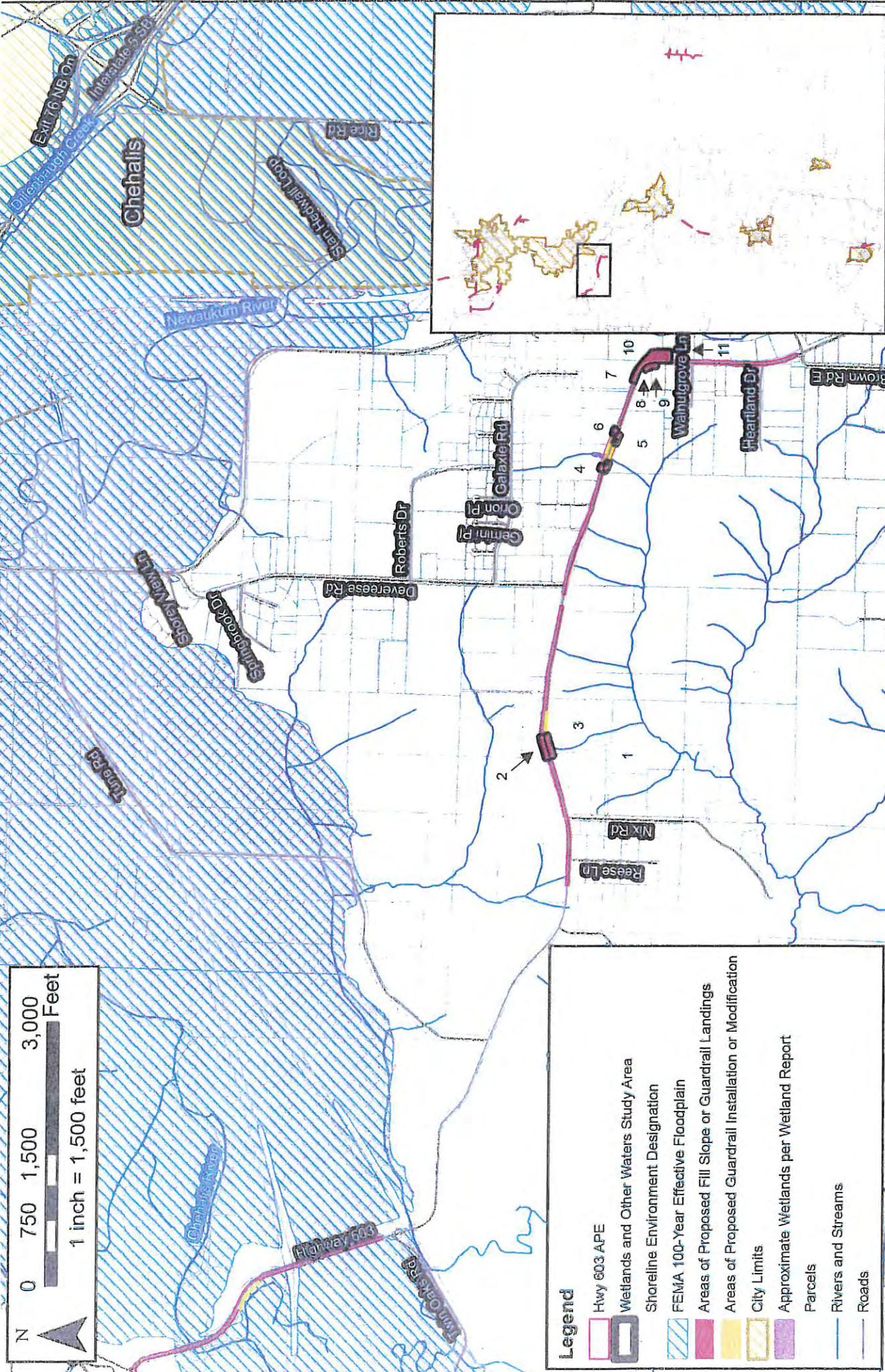
CENTRALIA ALPHA RD MP 0.05 RIGHT FILL SLOPE DETAIL
SECTION C-C

VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



CENTRALIA ALPHA RD MP 0.05 LEFT FILL SLOPE DETAIL
SECTION D-D

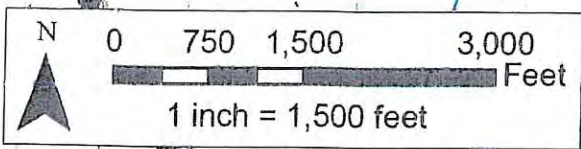
VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



- Legend**
- Hwy 603 APE
 - Wetlands and Other Waters Study Area
 - Shoreline Environment Designation
 - FEMA 100-Year Effective Floodplain
 - Areas of Proposed Fill Slope or Guardrail Landings
 - Areas of Proposed Guardrail Installation or Modification
 - City Limits
 - Approximate Wetlands per Wetland Report
 - Parcels
 - Rivers and Streams
 - Roads

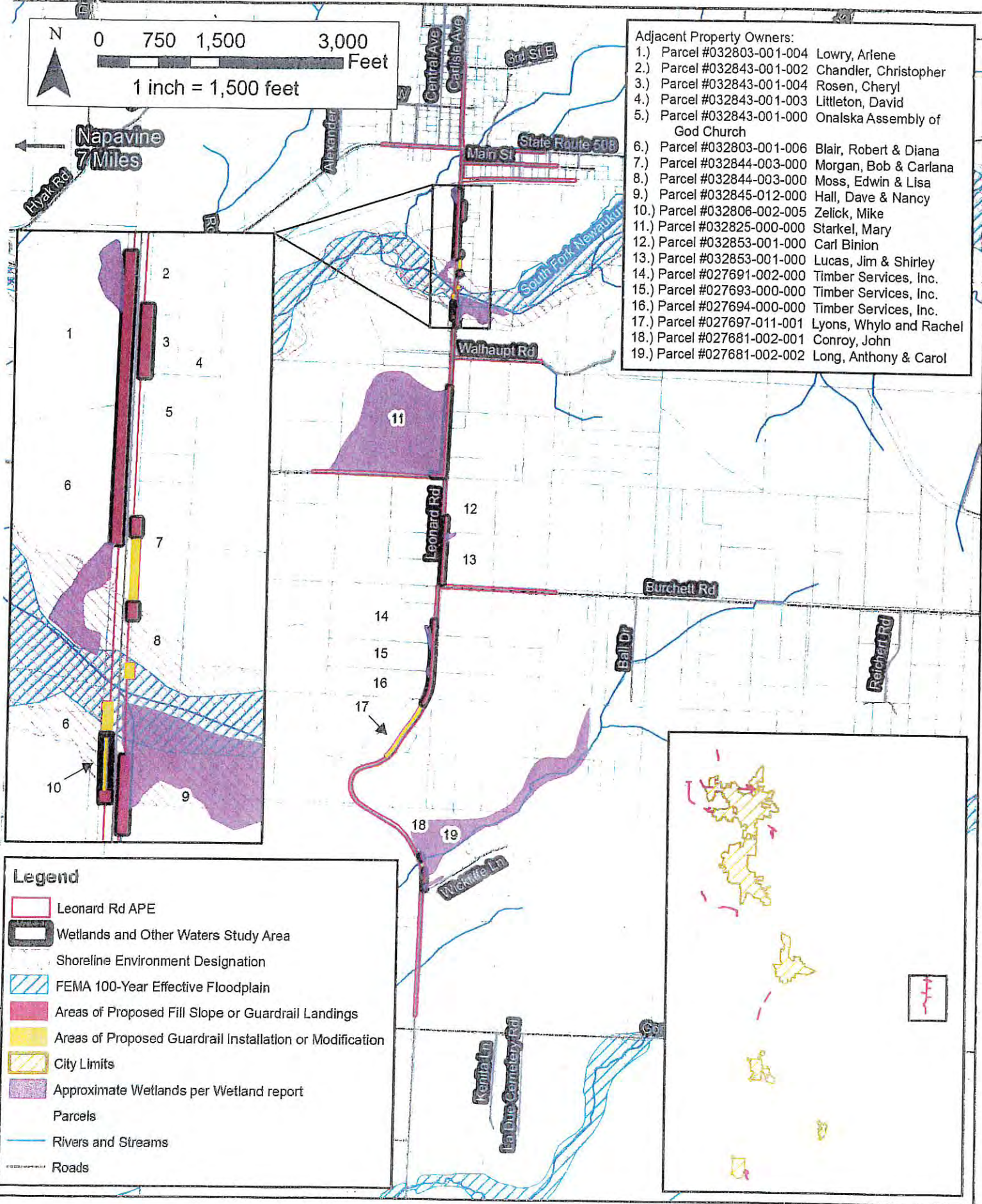
- Adjacent Property Owners:**
- 1.) Parcel #017642-003-005 Burger, Derek & Corinna
 - 2.) Parcel #017640-003-000 Green, John & Rebecca
 - 3.) Parcel #017643-003-004 Sauter, Patrick & Shannon
 - 4.) Parcel #017628-002-002 Martin, Jeffrey & Donna
 - 5.) Parcel #017635-002-000 Taylor Living Trust, Dtd 6/12/12
 - 6.) Parcel #017635-000-000 Colonel, Wenda Marie Trust, et al
 - 7.) Parcel #017636-000-000 Johnson, Serene, et al
 - 8.) Parcel #017635-004-000 Baxter, Donald
 - 9.) Parcel #017635-006-000 Herring, Michael & Terri
 - 10.) Parcel #017620-000-000 Webster, Mary
 - 11.) Parcel #017678-000-000 Inanbit, Fred & Rexanna

NWS-2018-
 Lewis County Public Works
 HSIP II - CRP 2185B
 Hwy 603 MP 0.00 to 3.12
 Sheet 22 of 41 12/20/18



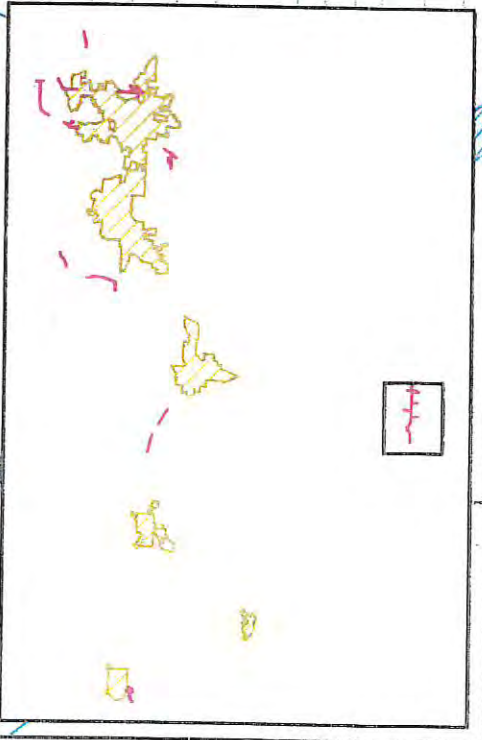
- Adjacent Property Owners:
- 1.) Parcel #032803-001-004 Lowry, Arlene
 - 2.) Parcel #032843-001-002 Chandler, Christopher
 - 3.) Parcel #032843-001-004 Rosen, Cheryl
 - 4.) Parcel #032843-001-003 Littleton, David
 - 5.) Parcel #032843-001-000 Onalska Assembly of God Church
 - 6.) Parcel #032803-001-006 Blair, Robert & Diana
 - 7.) Parcel #032844-003-000 Morgan, Bob & Carlana
 - 8.) Parcel #032844-003-000 Moss, Edwin & Lisa
 - 9.) Parcel #032845-012-000 Hall, Dave & Nancy
 - 10.) Parcel #032806-002-005 Zelick, Mike
 - 11.) Parcel #032825-000-000 Starkel, Mary
 - 12.) Parcel #032853-001-000 Carl Binion
 - 13.) Parcel #032853-001-000 Lucas, Jim & Shirley
 - 14.) Parcel #027691-002-000 Timber Services, Inc.
 - 15.) Parcel #027693-000-000 Timber Services, Inc.
 - 16.) Parcel #027694-000-000 Timber Services, Inc.
 - 17.) Parcel #027697-011-001 Lyons, Whylo and Rachel
 - 18.) Parcel #027681-002-001 Conroy, John
 - 19.) Parcel #027681-002-002 Long, Anthony & Carol

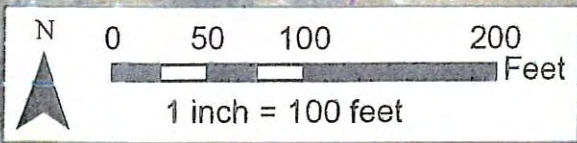
Napavine
7 Miles



Legend

- Leonard Rd APE
- Wetlands and Other Waters Study Area
- Shoreline Environment Designation
- FEMA 100-Year Effective Floodplain
- Areas of Proposed Fill Slope or Guardrail Landings
- Areas of Proposed Guardrail Installation or Modification
- City Limits
- Approximate Wetlands per Wetland report
- Parcels
- Rivers and Streams
- Roads





Start MP 0.08

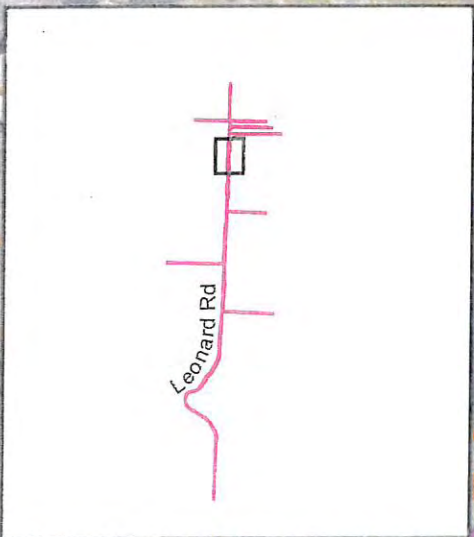
Wetland L1
(Category III)
0.005 acres - onsite
110-ft Wetland Buffer
Permanent Wetland Buffer Impact 2,770 sq ft

L1 - Ditch 1
(Not Regulated)
0.028 acres

Wetland L2
(Category III)
0.001 acres - onsite
110-ft Wetland Buffer
Permanent Wetland Buffer Impact 1,508 sq ft

L2 - Ditch 1
(Regulated)
0.053 acres
Permanent Jurisdictional
Drainage Impact 803 sq ft

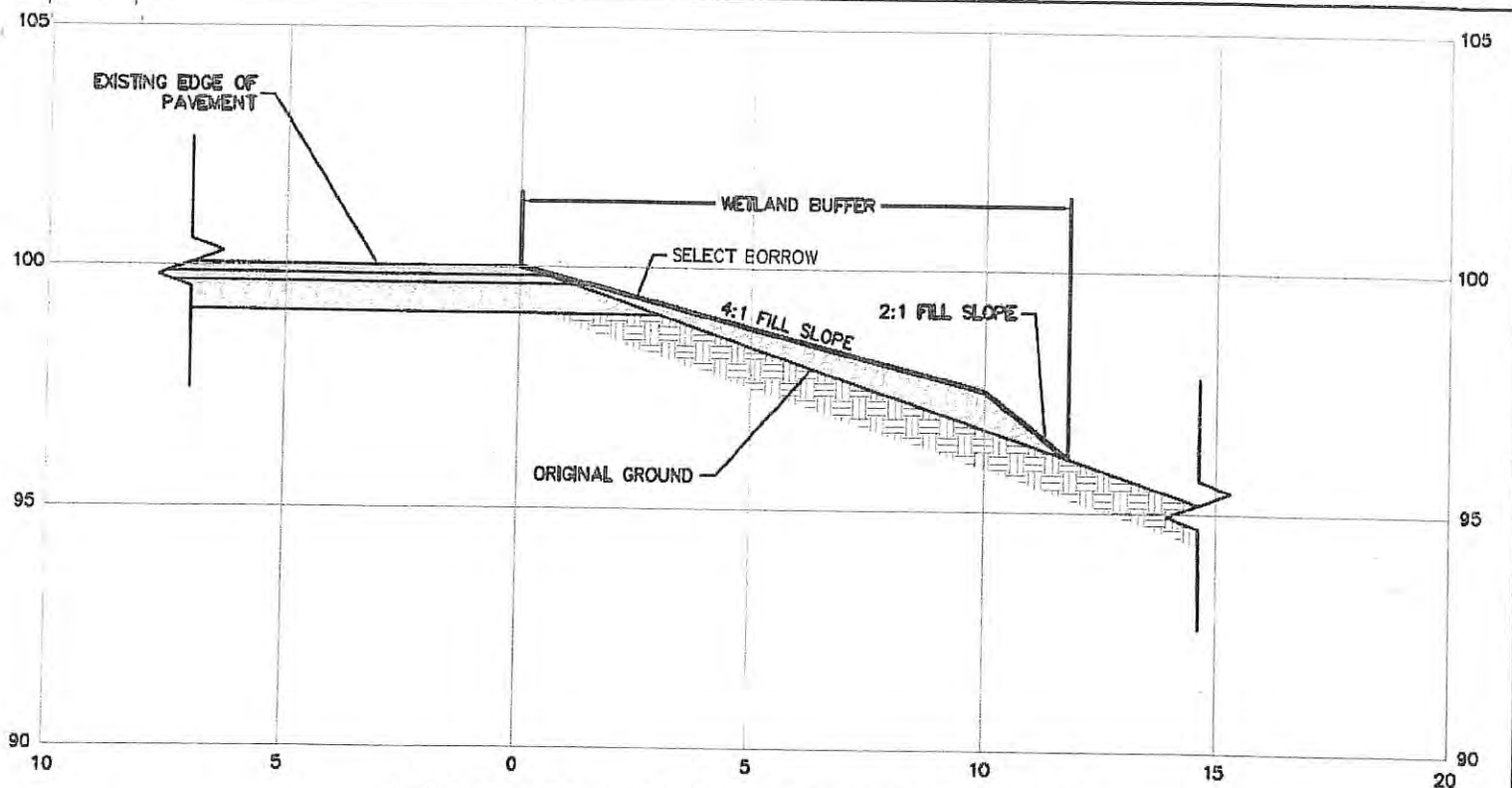
South Fork Newaukum River
Shoreline Jurisdictional Drainage Buffer
Permanent Jurisdictional Drainage
Buffer Impact 1,147



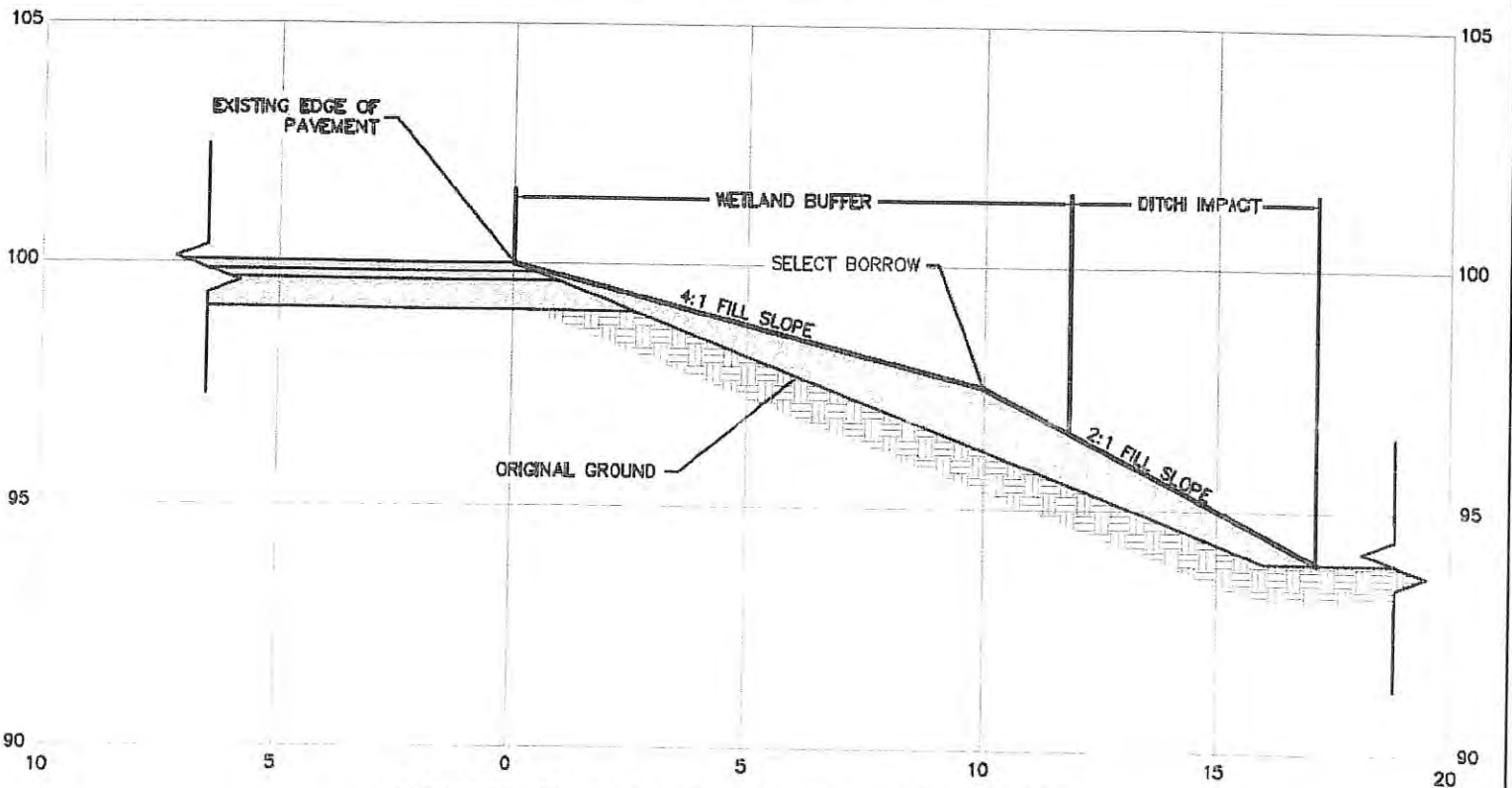
Legend

- Wetlands and Other Waters Study Area
- Delineated Wetland
- Jurisdictional Drainage
- Shoreline-JD Buffer
- 110-ft Wetland Buffer
- Permanent Jurisdictional Drainage Impact
- Permanent Wetland Buffer Impact
- Roads

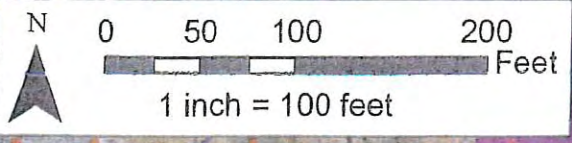
Match Line



LEONARD RD MP 0.08 LEFT FILL SLOPE DETAIL
SECTION A-A
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED



LEONARD RD MP 0.08 LEFT FILL SLOPE DETAIL
SECTION B-B
 VERTICAL AND HORIZONTAL SCALE = 1:1
 ELEVATIONS ARE ASSUMED

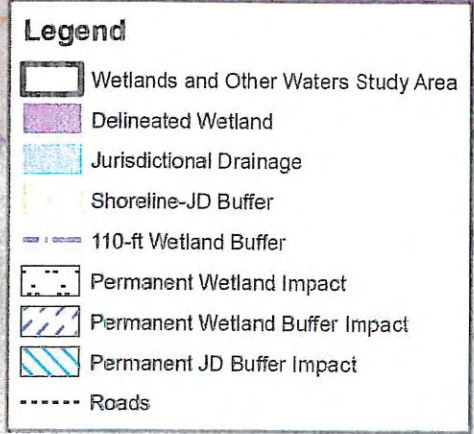
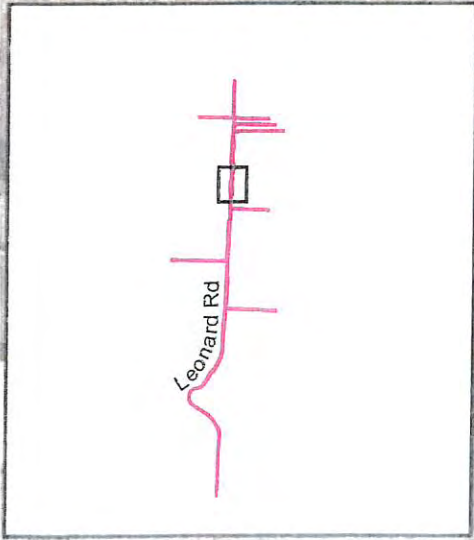


Wetland L2
(Category III)
0.001 acres - onsite
110-ft Wetland Buffer
Permanent Wetland
Buffer Impact 1,508 sq ft

L2 - Ditch 2
(Not Regulated)
0.003 acres

South Fork Newaukum River
Shoreline Jurisdictional Drainage Buffer
Permanent Jurisdictional Drainage
Buffer Impact 1,147

Wetland L3
(Category II)
0.073 acres - onsite
Permanent Wetland Impact 830 sq ft
110-ft Wetland Buffer
Permanent Wetland Buffer Impact 1,533 sq ft



End MP 0.39

Match Line

FLOODPLAIN DEVELOPMENT PERMIT

Lewis County Community Development

2025 NE Kresky Avenue

Chehalis, WA 98532

360-740-1133 – Inspection line

www.lewiscountywa.gov – web site

360-740-1146 – Office

360-740-1245 - Fax

PERMIT NO.: FD19-00003

TYPE: FLOOD PLAIN

ISSUED: 06/10/2019

Grading Permit: G19-00002/G19-00003/

G19-00004/G19-00005/G19-00006

PROJECT DESCRIPTION: Highway Safety Improvement Project - Phase II

BASE FLOOD ELEVATION:

LOWEST POSSIBLE BLDG ELEVATION:

SITE ADDRESS: VARIOUS LEWIS COUNTY ROW

Tax Parcel No: 021650002002

Legal Description: Section 20 Township 14N Range 02W PT NW4 SE4 SE KRESKY AVE EX
PT SLY 80' WLY 232'

APPLICANT: LEWIS COUNTY PUBLIC WORKS
2025 NE KRESKY AVE
CHEHALIS, WA 98532

OWNER: LEWIS COUNTY PUBLIC WORKS
2025 NE KRESKY AVE
CHEHALIS, WA 98532

SURVEYOR/ENGINEER NAME:

CONDITIONS OF PERMIT

1. All work shall conform to the requirements of the Lewis County Code and any other applicable laws and ordinances.
2. This permit becomes invalid upon the expiration date of the Fill & Grade permit associated with it.

ASBESTOS NORTHWEST



30620 Pacific Hwy S, #103,
Federal Way, WA 98003
(253) 941-4343



Attn: Edwards Environmental

Enclosed please find the analytical report for one or more samples submitted for analysis by Polarized Light Microscopy.

The six types of asbestos fibers are chrysotile, amosite, crocidolite, tremolite, anthophyllite and actinolite. A sample which contains more than 1% asbestos is considered positive and is defined by the EPA as an Asbestos Containing Material (ACM).

The samples were analyzed in accordance with EPA method 600/R-93/116 and 600/M4-82-020. The analyst used a stereomicroscope to visually inspect the sample to determine homogeneity and material descriptions. The sample was then viewed under a polarized light microscope to determine the presence and percentage of asbestos and non-asbestos fibers.

After analysis is complete, all paperwork will be filed together, and kept in a secure locked filing cabinet away from other clients and laboratory staff. Asbestos Northwest ensures that the files will not be tampered with at any time, and will be removed from the filing cabinet only if the client requests a modification on the report or reanalysis. If you have any concerns or comments, contact us at feedback@asbestosnw.com or fill out our survey at asbestosnw.com/survey

Thank you,

Cathy Butler

-These results are only applicable to the samples enclosed, and may not be reproduced, except in full, without the approval of the laboratory. This report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.-



30620 Pacific Hwy S. #103, Federal Way, WA 98003
 (253) 941-4343 NVLAP Lab Code: 200993-0

Asbestos NW Batch# 202015074

Bulk Samples Chain of Custody (EPA 600/R-93/116)

Name/Company: Edwards Environmental LLC Date: 12-9-20
 Address: P.O. Box 953 Phone #: 360-701-3562
Tenino, WA 98589 E-mail: edenvirollc@gmail.com
 Project Manager: Leanne County Public Works Project # _____
 Project Location: 363 Powers RD Number of Samples: 1
Citrus in use. Turn around time: 24 hr

#	Customer Sample ID	Description	Location/Condition
1	<u>E1</u>	<u>Black Asphalitic Coating</u>	<u>INSIDE METAL</u>
2			<u>CULVERT</u>
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

	Print	Sign	Company	Date	Time
Sampled by:	<u>Blaine Edwards</u>		<u>Edwards Environmental</u>	<u>12-9</u>	
Relinquished by:	<u>Blaine Edwards</u>		<u>Edwards Environmental</u>	<u>12-10</u>	
Delivered by:	<u>Stan Rhee</u>		<u>ANW</u>	<u>12-10</u>	
Accepted by:	<u>Cathy Butler</u>		<u>ANW</u>	<u>12-10</u>	<u>1pm</u>



Asbestos Northwest, LLC
 30620 Pacific Hwy S, #103, Federal Way, WA 98003
 Ph: (253) 941-4343 Fax: (253) 941-4175



Batch Number: 202015074

PLM Analysis by EPA Method 600/M4-82-020 and 600/R-93/116

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Attn: Blaine Edwards
Edwards Environmental
PO Box 953 Tenino WA 98589

Date Received: 12/10/2020
Date Analyzed: 12/11/2020
Samples Received: 1
Samples Analyzed: 1

Location: 363 Rogers Rd Centralia WA

Client Sample ID	Lab Sample ID	Layer	Description	Matrix	% Non-Asbestos Fibers	% Asbestos Fibers and Type
1		1	Black asphaltic material	Asphalt/binder	2% Cellulose, Glass fibers, Polyethylene	None Detected

Analyzed by: Cathy Butler

AHERA

BUILDING INSPECTOR REFRESHER CERTIFICATE

This is to certify that

Blaine Edwards

has attended and satisfactorily completed all requirements to
maintain accreditation as an AHERA Building Inspector in
accordance with the Toxic Substance Control
Act Title (Section 206) and 40 CFR 763.

Accreditation No. BIR-NES-09-11-2020-3

Course Date: September 11, 2020

Valid through: September 11, 2021



Instructor: Patricia "PJ" Journey

NOW Environmental Services, Inc.
34004 – 9th Avenue South, Suite # 12
Federal Way, Washington 98003
(253) 927-5233

PLAN AND PROCEDURES FOR THE UNANTICIPATED DISCOVERY OF CULTURAL RESOURCES AND HUMAN SKELETAL REMAINS

2019 County Safety Program - Phase II PROJECT, Lewis COUNTY WASHINGTON

1. INTRODUCTION

The Lewis County Public Works plans to construct the 2019 County Safety Program - Phase II project. The purpose of this project is to improve roadway safety along various section of county roads. The following Unanticipated Discovery Plan (UDP) outlines procedures to follow, in accordance with state and federal laws, if archaeological materials or human remains are discovered.

2. RECOGNIZING CULTURAL RESOURCES

A cultural resource discovery could be prehistoric or historic. Examples include:

- An accumulation of shell, burned rocks, or other food related materials
- Bones or small pieces of bone,
- An area of charcoal or very dark stained soil with artifacts,
- Stone tools or waste flakes (i.e. an arrowhead, or stone chips),
- Clusters of tin cans or bottles, logging or agricultural equipment that appears to be older than 50 years,
- Buried railroad tracks, decking, or other industrial materials.

When in doubt, assume the material is a cultural resource.

3. ON-SITE RESPONSIBILITIES

STEP 1: STOP WORK. If any Lewis County Public Works employee, contractor or subcontractor believes that he or she has uncovered any cultural resource at any point in the project, all work adjacent to the discovery must stop. The discovery location should not be left unsecured at any time.

STEP 2: NOTIFY MONITOR. If there is an archaeological monitor for the project, notify that person. If there is a monitoring plan in place, the monitor will follow its provisions.

STEP 3: NOTIFY PROJECT MANAGEMENT AND WSDOT LOCAL PROGRAMS OFFICE. Contact the Lewis County Public Works Project Manager and the Local Programs Archaeologist:

Lewis County Public Works

Project Manager:

Name Ann Weckback

Number (360) 740-1440

email Ann.Weckback@lewiscountywa.gov

Locals Programs Archaeologist:

Trent de Boer

360-705-7879

deboert@wsdot.wa.gov

The Local Programs Archaeologist will make all other calls and notifications.

If human remains are encountered, treat them with dignity and respect at all times. Cover the remains with a tarp or other materials (not soil or rocks) for temporary protection in place and to shield them from being photographed. Do not call 911 or speak with the media.

4. FURTHER CONTACTS AND CONSULTATION

A. Project Manager's Responsibilities:

- Protect Find: The Project Manager is responsible for taking appropriate steps to protect the discovery site. All work will stop in an area adequate to provide for the total security, protection, and integrity of the resource. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site. Work in the immediate area will not resume until treatment of the discovery has been completed following provisions for treating archaeological/cultural material as set forth in this document.
- Direct Construction Elsewhere On-site: The Project Manager may direct construction away from cultural resources to work in other areas prior to contacting the concerned parties.
- Contact Local Programs Archaeologist: If the Local Programs Archaeologist has not yet been contacted, the Project Manager will do so.

B. Local Programs Archaeologist Responsibilities:

- Identify Find: The Local Programs Archaeologist will ensure that a qualified individual examines the find to determine if it is archaeological.
 - If it is determined not archaeological, work may proceed with no further delay.
 - If it is determined to be archaeological, the Local Programs Archaeologist will continue with notification.

- If the find may be human remains or funerary objects, the Local Programs Archaeologist will ensure that a qualified individual examines the find. If it is determined to be human remains, the procedure described in Section 5 will be followed.
- Notify DAHP: The Local Programs Archaeologist will contact the involved federal agency(s) and the Department of Archaeology and Historic Preservation (DAHP).
- Notify Tribes: If the discovery may relate to Native American interests, the Local Programs Archaeologist will notify the affected Indian tribes.

Federal Agencies:

Federal Highway Administration

Name Liana Liu
 Area Engineer Olympia Region
 Number (360) 753-9553
 Email Liana.Liu@dot.gov

Agency: US Army Corps of Engineers

Name Evan Carnes
 Title Senior Project Manager
 Number (360) 553-6978
 Email Evan.G.Carnes@usace.army.mil

Department of Archaeology and Historic Preservation:

Dr. Allyson Brooks
 Washington State Historic
 Preservation Officer
 360-586-3066

or
 Dennis Wardlaw
 Transportation Archaeologist
 360-586-3085

Tribes consulted on this project are:

Tribe: Chehalis Confederated Tribes
 Name Dan Penn
 Title Cultural Resources
 Number (360) 709-1747
 Email dpenn@chehalistribe.org

Tribe: Quinalt Indian Nation
 Name Naomi Brandenfels
 Title Cultural Resources
 Number (360) 276-8215 Ext. 7309
 Email Naomi.Brandenfels@quinalt.org

Tribe: Cowlitz Indian Tribe
 Name Nathan Reynolds
 Title Cultural Resources
 Number (360) 575-6226
 Email NReynolds@cowlitz.org

Tribe: Squaxin Island Tribe
 Name Rhonda Foster
 Title Cultural Resources
 Number (360) 432-3850
 Email rfoster@squaxin.us

Tribe: Nisqually Tribe
 Name Brad Beach
 Title THPO
 Number (260) 456-5221 Ext. 2180
 Email Beach.Brad@nisqually-nsn.gov

Tribe:
 Name
 Title
 Number
 Email

5. SPECIAL PROCEDURES FOR THE DISCOVERY OF HUMAN SKELETAL MATERIAL

Any human skeletal remains, regardless of ethnic origin, will at all times be treated with dignity and respect.

If the project occurs on federal lands (e.g., National Forest or Park, military reservation) the provisions of the Native American Graves Protection and Repatriation Act of 1990 apply, and the responsible federal agency will follow its provisions. Note that state highways that cross federal lands are on an easement and are not owned by the state.

If the project occurs on non-federal lands, the Lewis County Public Works will comply with applicable state and federal laws, and the following procedure:

A. Notify Law Enforcement Agency or Coroner's Office:

In addition to the actions described in Sections 3 and 4, the Project Manager will immediately notify the local law enforcement agency or coroner's office.

The coroner (with assistance of law enforcement personnel) will determine if the remains are human, whether the discovery site constitutes a crime scene, and will notify DAHP.

Agency
Number (360) 740-1376

B. Participate in Consultation:

Per RCW 27.53.030, RCW 68.50, and RCW 68.60, DAHP will have jurisdiction over non-forensic human remains. The Local Programs Archaeologist will participate in consultation.

If ground disturbing activities encounter human skeletal remains during the course of construction, then all activity will cease that may cause further disturbance to those remains. The area of the find will be secured and protected from further disturbance until the State provides notice to proceed. The finding of human skeletal remains will be reported to the county medical examiner/coroner and local law enforcement in the most expeditious manner possible. The remains will not be touched, moved, or further disturbed. The county medical examiner/coroner will assume jurisdiction over the human skeletal remains and make a determination of whether those remains are forensic or non-forensic. If the county medical examiner/coroner determines the remains are non-forensic, then they will report that finding to the Department of Archaeology and Historic Preservation (DAHP) who will then take jurisdiction over the remains. The DAHP will notify any appropriate cemeteries and all affected tribes of the find. The State Physical Anthropologist will make a determination of whether the remains are Indian or Non-Indian and report that finding to any appropriate cemeteries and the affected tribes. The DAHP will then handle all consultation with the affected parties as to the future preservation, excavation, and disposition of the remains.

6. DOCUMENTATION OF ARCHAEOLOGICAL MATERIALS

Archaeological deposits discovered during construction will be assumed eligible for inclusion in the National Register of Historic Places under Criterion D.

The Local Programs Archaeologist will ensure the proper documentation and assessment of any discovered cultural resources in cooperation with the federal agency(s), DAHP, affected tribes, and a contracted consultant (if any).

All prehistoric and historic cultural material discovered during project construction will be recorded by a professional archaeologist on State of Washington cultural resource site or isolate form using standard techniques. Site overviews, features, and artifacts will be photographed; stratigraphic profiles and soil/sediment descriptions will be prepared for subsurface exposures. Discovery locations will be documented on scaled site plans and site location maps.

Cultural features, horizons and artifacts detected in buried sediments may require further evaluation using hand-dug test units. Units may be dug in controlled fashion to expose features, collect samples from undisturbed contexts, or interpret complex stratigraphy. A test excavation unit or small trench might also be used to determine if an intact occupation surface is present. Test units will be used only when necessary to gather information on the nature, extent, and integrity of subsurface cultural deposits to evaluate the site's significance. Excavations will be conducted using state-of-the-art techniques for controlling provenience.

Spatial information, depth of excavation levels, natural and cultural stratigraphy, presence or absence of cultural material, and depth to sterile soil, regolith, or bedrock will be recorded for each probe on a standard form. Test excavation units will be recorded on unit-level forms, which include plan maps for each excavated level, and material type, number, and vertical provenience (depth below surface and stratum association where applicable) for all artifacts recovered from the level. A stratigraphic profile will be drawn for at least one wall of each test excavation unit.

Sediments excavated for purposes of cultural resources investigation will be screened through 1/8-inch mesh, unless soil conditions warrant 1/4-inch mesh.

All prehistoric and historic artifacts collected from the surface and from probes and excavation units will be analyzed, catalogued, and temporarily curated. Ultimate disposition of cultural materials will be determined in consultation with the federal agency(s), DAHP, and the affected tribes.

Within 90 days of concluding fieldwork, a technical report describing any and all monitoring and resultant archaeological excavations will be provided to the Project Manager, who will

forward the report to the Local Programs Archaeologist for review and delivery to the federal agency(s), SHPO, and the affected tribe(s).

If assessment activity exposes human remains (burials, isolated teeth, or bones), the process described in Section 7 below will be followed.

7. PROCEEDING WITH CONSTRUCTION

Project construction outside the discovery location may continue while documentation and assessment of the cultural resources proceed. The Local Programs Archaeologist must determine the boundaries of the discovery location. In consultation with DAHP and affected tribes, Project Manager and the Local Programs Archaeologist will determine the appropriate level of documentation and treatment of the resource. The federal agency(s) will make the final determinations about treatment and documentation.

Construction may continue at the discovery location only after the process outlined in this plan is followed and the Local Programs Archaeologist (and the federal agency(s)) determines that compliance with state and federal laws is complete.

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS													
Contract Provisions		U.S. Army Corps of Engineers																				
		The Contractor shall retain a copy of the most recent U.S. Army Corps of Engineers Nationwide Permit Verification Letter, conditions, and permit drawings on the work site for the life of the Contract (See Special Provision titled <u>Permits and Licenses</u>). The Contractor shall provide copies of the items above listed to all Sub-Contractors involved with the authorized work prior to their commencement of any work.																				
		The following provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon Lewis County by the U.S. Army Corps of Engineers. Throughout the work, the Contractor shall comply with the following requirements: <ul style="list-style-type: none"> Temporary structures and dewatering of areas under the jurisdiction of the U.S. Army Corps of Engineers must maintain normal downstream flows and prevent upstream and downstream flooding to the maximum extent practicable. Any temporary fills placed must be removed in their entirety and the affected areas returned to their pre-construction elevation. 																				
		Permits and Licenses																				
		Lewis County has or will obtained the below-listed permit(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. Copies of these permits, including a copy of the Transfer of Coverage form, when applicable, are required to be onsite at all times. Contact with the permitting agencies, concerning the below-listed permit(s), shall be made through the Engineer with the exception of when the Construction Stormwater General Permit coverage is transferred to the Contractor, direct communication with the Department of Ecology is allowed. The Contractor shall be responsible for obtaining Ecology’s approval for any Work requiring additional approvals (e.g. Request for Chemical Treatment Form). The Contractor shall obtain additional permits as necessary. All costs to obtain and comply with additional permits shall be included in the applicable Bid items for the Work involved.																				
	<table border="1"> <thead> <tr> <th>NAME OF DOCUMENT</th> <th>PERMITTING AGENCY</th> <th>PERMIT REFERENCE NO.</th> </tr> </thead> <tbody> <tr> <td>National Environmental Policy Act (NEPA) – Documented Categorical Exclusion (CE)</td> <td>Federal Highway Administration</td> <td>HSIP-0005(479), HSIP-0005(553)</td> </tr> <tr> <td>Department of the Army Section 404 Nationwide 14</td> <td>Corps of Engineers Seattle District</td> <td>NWS-2019-067, NWS-2021-65</td> </tr> <tr> <td>Section 106 Concurrence</td> <td>Corps of Engineers Seattle District</td> <td>Certified under NWS-2019-067, NWS-2021-65</td> </tr> <tr> <td>Section 401 Water Quality Certification</td> <td>Department of Ecology</td> <td>Certified under NWS-2019-067, NWS-2021-65</td> </tr> </tbody> </table>	NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.	National Environmental Policy Act (NEPA) – Documented Categorical Exclusion (CE)	Federal Highway Administration	HSIP-0005(479), HSIP-0005(553)	Department of the Army Section 404 Nationwide 14	Corps of Engineers Seattle District	NWS-2019-067, NWS-2021-65	Section 106 Concurrence	Corps of Engineers Seattle District	Certified under NWS-2019-067, NWS-2021-65	Section 401 Water Quality Certification	Department of Ecology	Certified under NWS-2019-067, NWS-2021-65						
NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.																				
National Environmental Policy Act (NEPA) – Documented Categorical Exclusion (CE)	Federal Highway Administration	HSIP-0005(479), HSIP-0005(553)																				
Department of the Army Section 404 Nationwide 14	Corps of Engineers Seattle District	NWS-2019-067, NWS-2021-65																				
Section 106 Concurrence	Corps of Engineers Seattle District	Certified under NWS-2019-067, NWS-2021-65																				
Section 401 Water Quality Certification	Department of Ecology	Certified under NWS-2019-067, NWS-2021-65																				

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK			YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS	
		NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.								
Contract Provisions		Hydraulic Permit Approval	Washington Department of Fish and Wildlife	TBD								
		State Environmental Policy Act (SEPA) – Determination of Non-Significance (DNS)	Lewis County Community Development (LCCD)	SEP19-0002, SEP20-0032								
		Shoreline Development Permit	LCCD	SHD19-0001, SHD20-0006								
		Floodplain Permit	LCCD	FD19-00003, FD20-00076								
		Fill and Grade Permit	LCCD	G20-00040, G20-00041, G20-00042, G20-00043, G20-00044, G20-00045, G20-00046, G20-00047								
		The contractor shall ensure that all permit conditions outlined in the Environmental Commitments Spreadsheet are complied with.										
		Clearing, Grubbing, and Roadside Cleanup										
		Clearing on this project shall be performed within the limits of the area staked in the field by the Engineer prior to the bid opening.										
		Removal of Structures and Obstructions										
		Hazardous material is suspected to exist on this project. Approximate limits of contamination are identified in the Plans. The site history, prior to studies and test results indicate a potential for encountering ***contaminated soils from petroleum leaks and other fluids from hulk automobiles***.										
	Copies of environmental reports are available for review at the Engineer’s office. All necessary permits for this work will be furnished by Lewis County. The Contractor is responsible for all work, records, and reports required to perform the work described in this section. Lewis County will perform all testing of suspected hazardous or contaminated material.											
	The Contractor shall notify the Engineer 10 working days prior to beginning work in the area identified in the Plans as contaminated. The Contractor shall notify the Engineer immediately if contamination is discovered in areas other than those identified in the Plans, or is suspected through observations such as an oily sheen or discolored soils that may or may not emit strong chemical odors.											

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS
Contract Provisions		The Engineer will determine the limits of excavation required. All material that is designated by the Engineer to be removed shall be handled and stored in a manner that prevents the spread of contamination to adjacent soil or water. Separate stockpiles shall be maintained for known hazardous or contaminated material and for suspected hazardous or contaminated material. The Contractor shall transport hazardous or contaminated material and dispose of it at a permitted facility. The Contractor shall provide the Engineer with a copy of the shipping manifest or bill of lading indicating the amount of material hauled to disposal, and bearing the disposal site operator’s confirmation for receipt of the material.							
		All water that is removed from the areas of contamination, including free water that leaches from contaminated soil stockpiles or water that is suspected of being contaminated, shall be collected, handled and stored in a manner that prevents the spread of contamination to adjacent soil or water. The Contractor shall transport contaminated water and dispose of it at a permitted facility. The Contractor shall provide the Engineer with a copy of the shipping manifest or bill of lading indicating the amount of material hauled to disposal, and bearing the disposal site operator’s confirmation for receipt of the material.							
		Structure Excavation							
		Temporary Stream Diversion for Structure & Channel Excavation work shall consist of installation and maintenance of stream diversion/bypass for the creek during all in-water construction. Temporary Stream Diversion for Structure Excavation shall be conducted in a manner that does not violate State Water Quality Standards. This work also consists of adjustments to the location of the dewatering systems as deemed necessary by the Contractor to complete the project and comply with all environmental regulations, permits, specifications and special provisions for this project.							
		Upon completion of in-water construction, the Contractor shall promptly remove all stream diversion materials and equipment as directed by the Engineer. Disposal of surplus material and debris remaining from dewatering operations shall be incidental to and included in this item of work. The Stream Diversion Plan is an integral component of stormwater management for this site. If work is required above the ordinary high water mark after the in-water work window has expired, additional BMPs not shown in the Contract Plans shall be proposed by the Contractor for approval by the Engineer. BMPs installed and maintained after the in-water work window has expired shall control stormwater generated from the site during final construction activities.							

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS
Contract Provisions		One week prior to beginning stream diversion/bypass and dewatering work, the Contractor shall submit the following in writing to the Engineer for approval: 1. Plans for the installation and commissioning of the dewatering system throughout the duration of the structure excavation a. Drawings for information: Show arrangement, locations, and details of temporary diversion structure, pump locations and discharge line, discharge point, temporary erosion control, and removal of stranded fish. b. Include a written report outlining control procedures to be adopted if stream bypass problems arise. Photograph or videotape, in sufficient detail, existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by stream bypass operations. 2. Method of stream diversion/bypass throughout the duration of the structure excavation.							
		Protect facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by stream diversion operations.							
		Install the stream diversion system to ensure minimum interference with the existing streambed, and other facilities surrounding the dewatering site.							
		Disturbance of the bed and banks should be limited to that necessary to place the structure, embankment protection, and any required channel modification associated with the installation. All disturbed areas should be protected from erosion within seven (7) calendar days of completion using vegetation or other means.							
		Isolation of the construction site from stream flow shall be accomplished using techniques such as: By pumping the stream flow around the site. The installation of a sheet pile or sandbag wall. The use of a water-filled cofferdam. Exception may be granted is siltation or turbidity is reduced to acceptable levels by means approved by the Engineer.							
		Install the stream diversion system utilizing pipes, pumps, culverts, flexible hose or similar methods complete with pump equipment, standby power and pumps, valves, appurtenances, water disposal, and surface water controls.							
		It is anticipated that a pump bypass system will be utilized to by-pass stream around the excavation area.							
		Provide standby equipment on site available for immediate operation, to maintain stream bypass on continuous basis if any part of system becomes inadequate or fails. At a minimum the Contractor shall provide and have on hand additional pumps as a backup to the stream bypass system. If stream bypass requirements are not satisfied due to inadequacy or failure of stream bypass system, restore damaged structures and foundation soils at no additional expense to the County.							

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK			Initials of Inspector	Date	Initials of Environmental Planner		Date	COMMENTS
			YES	NO						
Contract Provisions		The stream diversion/bypass shall be sufficiently maintained to avoid significant leaks that may result in flows through the work zone. All in-water work shall be in strict conformance with permits obtained for this project.								
		Any wastewater from project activities and dewatering shall be routed to an area outside the ordinary high water line to allow settling of fine sediments and other contaminants prior to being discharged back into the subject stream. Do not permit open sump pumping that leads to loss of fines, soil piping, subgrade softening, and slope instability. Dewatering operations shall comply with regulatory water disposal requirements of authorities having jurisdiction. The stream diversion/bypass shall be sufficiently maintained to avoid significant leaks that may result in flows through the work zone. All in-water work shall be in strict conformance with permits obtained for this project.								
		Remove and dispose of the stream bypass system from project site once the new stream channel has been constructed and approved by the Engineer. Upon decommissioning, flows shall be reintroduced gradually so as to minimize the mobilization of sediments.								
NEPA CE HSIP-0005(479), HSIP-0005(553)	2/27/19, 2/22/21	Limit vegetation removal to retain large trees to the extent practicable. Protect root zones of the trees that would be retained by installing silt fencing at the dripline of each tree to create equipment exclusion zones.								
		No contractor staging areas will be allowed within 50 feet of any Waters of the State, including wetlands. Refueling or storage of hazardous substances shall occur at least 200 feet away from any Waters of the State, including wetlands. All staging, stockpiling, and refueling areas shall be within the limits of the Area of Potential Effect depicted on the attached APE Map.								
		If, over the course of the project, human skeletal remains are discovered notify the Lewis County Project Inspector as the Lewis County Sheriff and DAHP must be notified immediately. If archaeological materials are uncovered, Public Works or their contractors must immediately stop work, and the Public Works project manager must contact the WSDOT cultural resource specialist. Refer to the attached Inadvertent and Unanticipated Discoveries Plan.								
Corps NWP Authorization NWS-2019-067, NWS-2021-65	5/14/19, TBD	Implement and Abide by the Wetland Mitigation Report (<i>2019 County Safety Program – Phase II</i>) dated December 21, 2020, the County will obtain mitigation bank credits from the Chehalis Basin Mitigation Bank, Hanaford Valley Site in accordance with Sections 9 and 10 of the Bank Use Plan.								
		The County will obtain from the Chehalis Basin Mitigation Bank Hanaford Valley Site sponsor documentation of the completed mitigation bank transaction. The County shall submit to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch documentation on the completed mitigation bank transaction prior to performing work in waters of the United States authorized by this permit. All submittals must prominently display the reference number NWS-2021-065.								

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS	
Corps NWP Authorization NWS-2019-067, NWS-2021-65	5/14/19, TBD	Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g. roads, highways, railways, trails, airport runways and taxiways) in water of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than ½-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to minimum necessary to construct or protect the linear transportation project: such modification must be in the immediate vicinity of the project.								
		This NWP also authorizes temporary structures, fills and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimized flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering or construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.								
		No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity’s primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitable culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.								
		Activities in spawning areas during spawning season must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are no authorized.								
		Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.								
		No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Materials used for construction or discharged must be free from toxic pollutants in toxic amounts.								
		No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.								
		If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.								
		Appropriate soil erosion and sediment controls must be used and maintained in effective operation condition during construction, and all exposed soils and other fills, as well as any work below ordinary high water mark, must be permanently stabilized at the earliest practicable date. Lewis County is encouraged to preform work within waters of the United States during periods of low-flow or no flow.								

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS
Corps NWP Authorization NWS-2019-067, NWS-2021-65	5/14/19, TBD	To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of activities to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location to open waters if it benefits the aquatic environments (e.g., stream restoration or relocation activities).							
		The activity must comply with applicable FEMA-approved state or local floodplain management requirements.							
		Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.							
		Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.							
		Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.							
		No activity or its operation may impair reserved tribal rights, including, but no limited to, reserved water rights and treaty fishing and hunting rights.							
		No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitats or such species. No activity is authorized under any NWP which "may effect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.							
		Lewis County is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. Lewis County should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.							
If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, Lewis County must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.									

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES		NO		Initials of Inspector	Date	Initials of Environmental Planner		Date	COMMENTS
Corps NWP Authorization NWS-2019-067, NWS-2021-65	5/14/19, TBD	Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP and CWA Section 401, individual 401 Water Quality Certification must be obtained or waved. The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does no result in more than minimal degradation of water quality.										
WDFW HPA TBD	TBD	Timing Limitation										
		Work below the ordinary high water line (OHWL) must only occur between ***TBD*** and ***TBD***.										
		Approved Plans										
		You must accomplish the work per plans and specifications submitted with the application and approved by the Washington Department of Fish and Wildlife, except as modified by this Hydraulic Project Approval. You must have a copy of these plans available on site during all phases of the project construction.										
		Invasive Species Control										
		Follow Method 1 for low risk locations (i.e. clean/drain/dry). Thoroughly remove visible dirt and debris from all equipment and gear (including drive mechanisms, wheels, tires, tracks, buckets, and undercarriage) before arriving and leaving the job site to prevent the transport and introduction of invasive species. For contaminated or high risk sites please refer to the Method 2 Decontamination protocol. Properly dispose of any water and chemicals used to clean gear and equipment. You can find this and additional information in the Washington Department of Fish and Wildlife's "Invasive Species Management Protocols", available online at https://wdfw.wa.gov/species-habitats/invasive/prevention .										
		Pre- and Post-Construction Notification										
		Lewis County must contact the Washington Department of Fish and Wildlife at least three business days before starting work, and again within seven days after completing the work. The notification must include the permittee's name, project location, starting date for work or date the work was completed, and the permit number.										
		Fish Kill/Water Quality Problem Notification										
		If a fish kill occurs or a fish are observed in distress at the job site, immediately stop all activities causing harm. Lewis County must immediately notify the Washington Department of Fish and Wildlife of the problem. If the likely cause of the fish kill or fish distress is related to water quality, also notify the Washington Military Department Emergency Management Division at 1-800-258-5990. Activities related to the fish kill or fish distress must not resume until the Washington Department of Fish and Wildlife gives approval. The Washington Department of Fish and Wildlife may require additional measures to mitigate impacts.										
Staging, Job Site Access, and Equipment												
Design and locate new temporary access roads to prevent erosion and sediment delivery to waters of the state.												
Clearly mark boundaries to establish the limit of work associated with site access and construction.												

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK			Initials of Inspector	Date	Initials of Environmental Planner		Date	COMMENTS		
			YES	NO								
WDFW HPA TBD	TBD	Limit the removal of native bankline vegetation to the minimum amount needed to construct the project										
		Remove soil or debris from the drive mechanisms (wheels, tires, tracks, etc.) and undercarriage of equipment prior to operating the equipment waterward of the ordinary high water line.										
		Check equipment daily for leaks and complete any required repairs in an upland location before using the equipment in or near the water.										
		Use environmentally acceptable lubricants composed of biodegradable base oils such as vegetable oils, synthetic esters, and polyalkylene glycols in equipment operated in or near the water.										
		Construction-Related Sediment, Erosion, and Pollution Containment										
		Work in the dry watercourse (when no natural flow is occurring in the channel, or when flow is diverted around the job site).										
		Protect all disturbed areas from erosion. Maintain erosion and sediment control until all work and cleanup of the job site is complete										
		Stop all hydraulic project activities except those needed to control erosion and siltation, if flow conditions arise that will result in erosion or siltation of waters of the state.										
		Prevent project contaminates, such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials, from entering or leaching into the waters of the state.										
		Construction Materials										
		Use only clean, suitable material as fill material (no trash, debris, car bodies, tires, asphalt, concrete, etc.)										
		Angular rock, the rock must be large enough and installed to withstand the 100-year peak flow.										
		Remove fish screens on dewatering pumps in the isolated work area only after all fish are safe and excluded from the work area.										
		In-Water Work Area Isolation Using a Cofferdam Structure										
		Use a cofferdam, dike, or similar structure to exclude water from the work area.										
		Maintain water quality when installing and removing the cofferdam, dike or similar structure.										
		Install the cofferdam, dike or similar structure and remove fish prior to the start of other work in the wetted perimeter.										
		Route the construction water (wastewater) from the project to an upland area above the limits of anticipated floodwater. Remove fine sediment and other contaminants before discharging the construction water to waters of the state.										
		Sequence the work to minimize the duration of dewatering.										
		If the bypass is a pumped diversion, once started it must run continuously until it is no longer necessary to bypass flows. This requires back-up pumps on-site and twenty-four-hour monitoring for overnight operation.										

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS
WDFW HPA TBD	TBD	If the diversion inlet is a pump diversion in a fish-bearing stream, the pump intake structure must have a fish screen installed, operated, and maintained in accordance with RCW 77.57.010 and 77.57.070. Screen the pump intake with one of the following: a) Perforated plate: 0.094 inch (maximum opening diameter); b) Profile bar: 0.069 inch (maximum width opening); or c) Woven wire: 0.087 inch (maximum opening in the narrow direction). The minimum open area for all types of fish screens is twenty-seven percent. The screened intake facility must have enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Maintain fish screens to prevent injury or entrapment of fish.							
		Fish Life Removal							
		All persons participating in capture and removal must have training, knowledge, and skills in the safe handling of fish life.							
		If electrofishing is conducted, a person with electrofishing training must be on-site to conduct or direct all electrofishing activities.							
		Capture and safely move fish life from the work area to the nearest suitable free-flowing water.							
		Demobilization and Cleanup							
		Before the end of the in-water work period specified in the timing limitations provision, abandon temporary roads in wet or flood-prone areas.							
		Upon completion of the project, restore the disturbed bed, banks, and riparian zone to preproject condition to the extent possible.							
		Completely remove any temporary fill before the end of the in-water timing window if the fill material could erode and deliver sediment-laden water into waters of the state.							
		To prevent fish from stranding, backfill trenches, depressions, and holes in the bed that may entrain fish during high water or wave action.							
		Seed areas disturbed by construction activities with a native seed mix suitable for the site that has at least one quick-establishing plant species.							
		Replant the job site with the plant species composition and planting densities as provided in the project plans.							
Return water flow slowly to the in-water work area to prevent the downstream release of sediment laden water. If necessary, install silt fencing above the bypass outlet to capture sediment during re-watering of the channel.									
Remove temporary erosion and sediment control methods after job site is stabilized or within three months of project completion, whichever is sooner.									
SEPA – DNS SEP19-0002, SEP20-0032	3/21/19, 2/16/21	The DNS is issued under WAC 197-11-340(2); Lewis County will not act on this proposal until April 11, 2019 for Highway Safety Improvements Program – Phase II (SEP19-0002) and March 25, 2021 for 2019 County Safety Program – Phase II (SEP20-0032).							

2019 County Safety Program – Phase 2, CRP 2191B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS	
Shoreline Permit SHD19-0001, SHD20-0006	5/21/20, TBD	The applicant shall employ Best Management Practices for Water Quality prior to and during the project.								
Shoreline Permit SHD19-0001, SHD20-0006	5/21/20, TBD	All development shall comply with the conditions set forth in the Lewis County Land Development Review (LDR19-0016)								
		All disturbed areas of vegetation shall be reseeded or replanted with native plant types. All exposed/unworked soils shall be stabilized with BMPs within 2 days (October-June) and 7 days (July-September).								
		The applicant shall maintain a spill prevention and emergency response emergency plan on-site during all phases of construction.								
		Erosion control measures must be in place prior to any clearing, grading, or construction.								
		During construction, all releases of oils, hydraulic fluids, fuels, other petroleum products, paints, solvents, and other deleterious materials must be contained and removed in a manner that will prevent their discharge to waters and soils of the state. The cleanup of spills should take precedence over other work on the site.								
		Notice: In the event any archaeology or historic materials are encounters during project activity, work in the immediate area must stop. The area will be secured, and the Lewis County Environmental Planner will notify the concerned Tribes and all appropriate county, state, and federal agencies, including the Department of Archaeology and Historic Preservation. If human remains are uncovered, appropriate law enforcement agencies shall be notified first. An Inadvertent Discovery Plan is required to be followed. No Photos shall be taken of the site.								
Floodplain Permit FD19-00003, FD20-00076	6/10/19, TBD	All work shall conform the requirements of the Lewis County Code and any other applicable laws and ordinances								
		Certificate of Elevation to lowest supporting member required prior to final inspection.								
Fill and Grade Permit G20-00040, G20-00041, G20-00042, G20-00043, G20-00044, G20-00045, G20-00046, G20-00047	TBD	Fill material is required to be clean earth material (rock, natural soil, or a combination of both)								
		All work shall conform to the requirements of the Lewis County code and any other applicable laws and ordinances.								
		This permit includes stockpiling of stripped/excavated material from site preparation activities, but does not include the exportation of materials. All excavated material that is not utilized on site or included in the permitted stockpile are will be taken off site to a government-approved pit or fill site, or to a permitted location. If there will be exportation of fill material in excess of 50 cubic yards to any one site this activity shall require a separate permit and an approved location for each site receiving 50 cubic yards or more.								

APPENDIX F

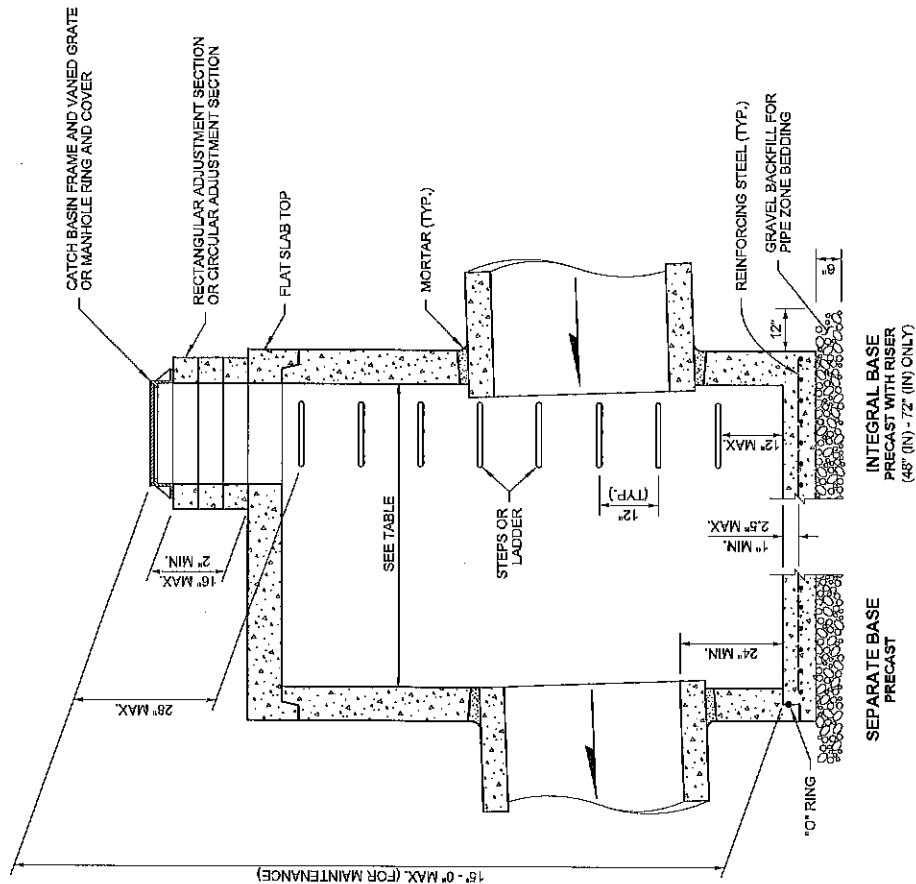
STANDARD PLANS

CONTRACT PLANS

TRAFFIC CONTROL PLAN

NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" (n) minimum to 2.5" (n) maximum. Provide a 1.5" (n) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.



CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER			PROFILE WALL PVC ③
	CONCRETE	ALL METAL	CPSSP ① PP ④	
48"	24"	30"	24"	30"
54"	30"	36"	30"	36"
60"	36"	42"	36"	42"
72"	42"	54"	42"	48"
84"	54"	60"	54"	48"
96"	60"	72"	60"	48"
120"	66"	84"	60"	48"
144"	78"	96"	60"	48"

- ① Corrugated Polyethylene Storm Sewer Pipe (See Standard Specification Section 9-05.20)
- ② (See Standard Specification Section 9-05.12(1))
- ③ (See Standard Specification Section 9-05.12(2))
- ④ Polypropylene Pipe (See Standard Specification Section 9-05.24)



Julie Heilman
 Heilman, Julie
 Feb 20 2018 12:49 PM
 design

CATCH BASIN TYPE 2

STANDARD PLAN B-10.20-02

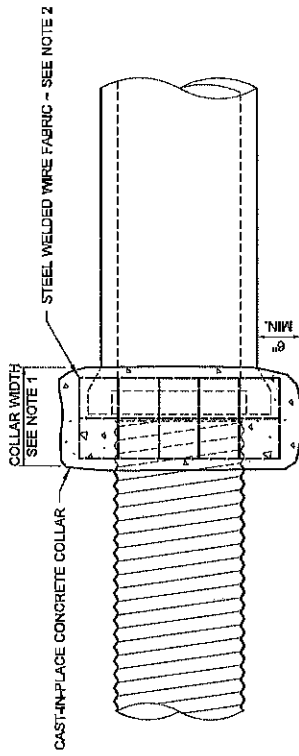
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
 1/17/18
 1:11 PM
 1/17/2018 10:01 AM

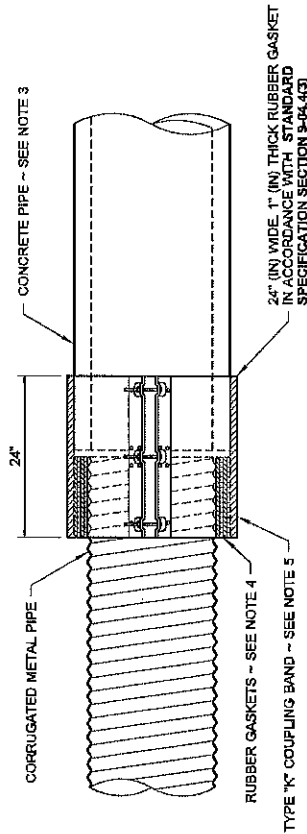
STATE DESIGN ENGINEER
 Washington State Department of Transportation

NOTES

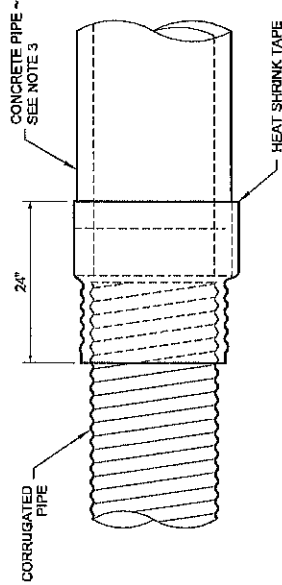
- The Concrete Collar width shall be one half of the outside pipe diameter of the largest pipe. The minimum Concrete Collar width shall be 12" (in). Concrete Collars may be used with all pipe materials and diameters. The Concrete Collar option shall only be used to extend existing pipes. Concrete shall be Commercial Concrete in accordance with Standard Specification Section 6-02.3(2).
- Steel Welded Wire Fabric shall be in accordance with Standard Specification Section 9-07.7. Install two wraps for size 6 x 6 W1.4 x W1.4 (10 Gage) Steel Welded Wire Fabric or one wrap for any of the following sizes:
 - 6 x 6 W2.1 x W2.1 (8 Gage)
 - 6 x 6 W2.9 x W2.9 (6 Gage)
 - 4 x 4 W2.9 x W2.9 (6 Gage)
 - 4 x 4 W4.0 x W4.0 (4 Gage)
 Provide 1 1/2" min. covering over wire fabric.
- When a Coupling Band connection requires attachment to the bell end of a concrete pipe, the bell end of the pipe shall be removed before the connection is installed.
- Increase the outside diameter of the metal pipe to match the outside diameter of the concrete pipe by installing 1/2" (in) wide rubber gaskets, thickness as required (Coupling Band only). The rubber gaskets shall be in accordance with Standard Specification Section 9-04.4(3).
- Use a flat Type K Coupling Band, Type K Coupling Bands with dimples are not allowed for the installation detail shown. The Coupling Band option shall only be used for extending existing pipes that have an inside diameter of 36" (in) or less.
- Heat shrink shall have a width of 24" (in). The material shall be wrapped around the outside of the pipe with a 2" (in) minimum overlap. There shall also be a 4" (in) minimum closure patch of material centered along the entire length of the seam.



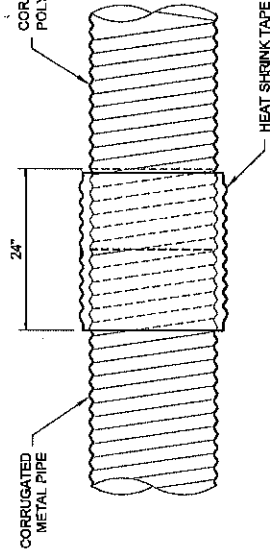
CONCRETE COLLAR OPTION



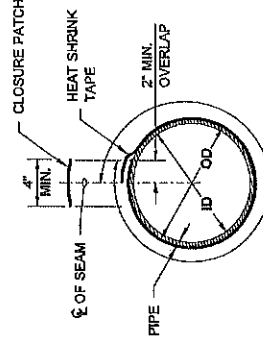
COUPLING BAND OPTION



HEAT SHRINK OPTION
CORRUGATED PIPE TO CONCRETE PIPE



HEAT SHRINK OPTION
CORRUGATED METAL PIPE TO CORRUGATED POLYETHYLENE PIPE



SECTION DETAIL



Julie Heilmann
2020.09.01 07:54:03 -0700

CONNECTION DETAILS FOR DISSIMILAR CULVERT PIPE
STANDARD PLAN B-60.20-02

SHEET 1 OF 1 SHEET

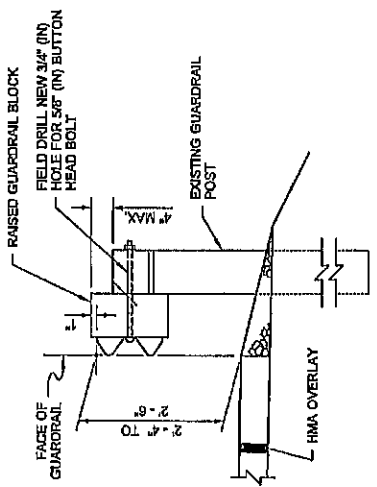
APPROVED FOR PUBLICATION

Roark, Steve
STATE LICENSED ENGINEER

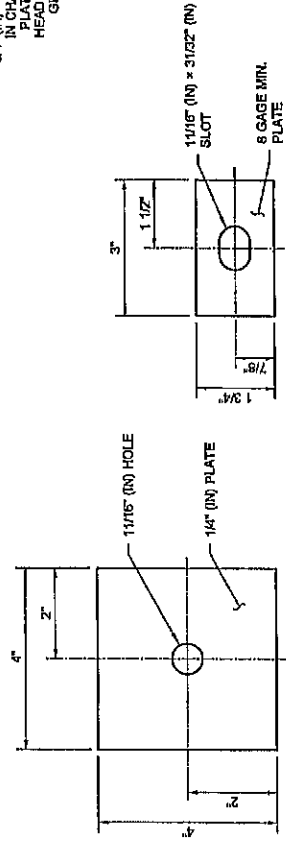
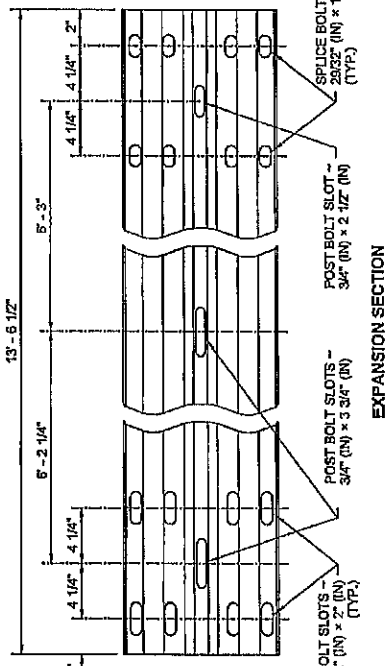
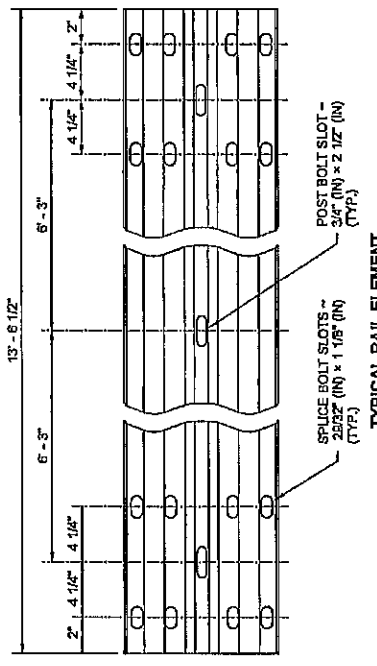
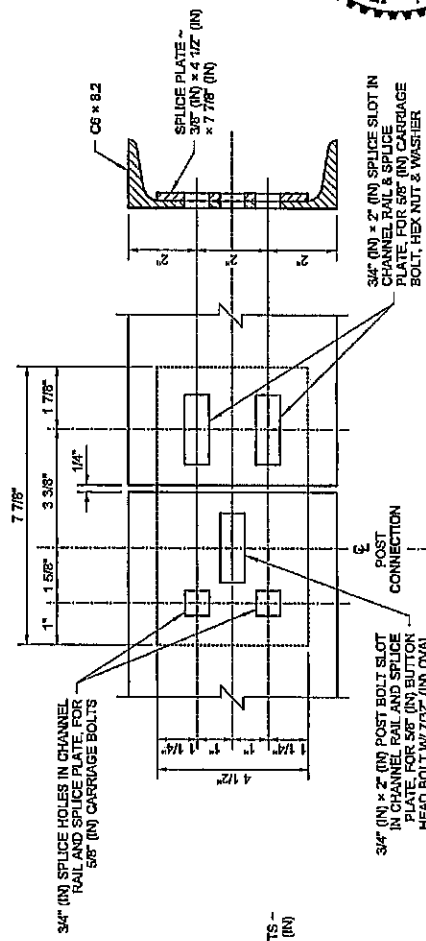
Digitally signed by Roark, Steve
DN: cn=2020.08.08 09:22:35 -0700



Washington State Department of Transportation



BEAM GUARDRAIL RAISING FOR
HMA OVERLAYS



DRAWN BY: FERN LIDDELL



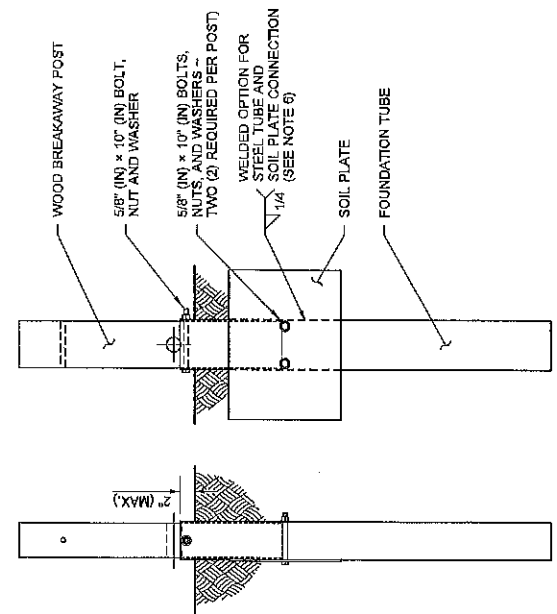
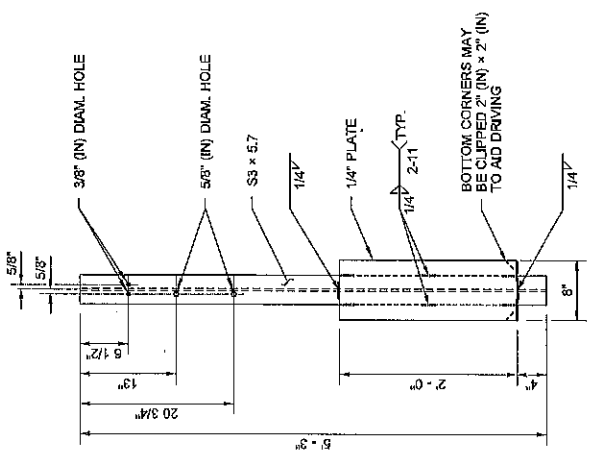
Professional Engineer
No. 36937
July 13, 2011
Approved for Publication
Comptroller Jeff
Coyne, Act
July 13, 2011 11:59 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

BEAM GUARDRAIL
TYPES 1 - 4 (W-BEAM)
STANDARD PLAN C-1

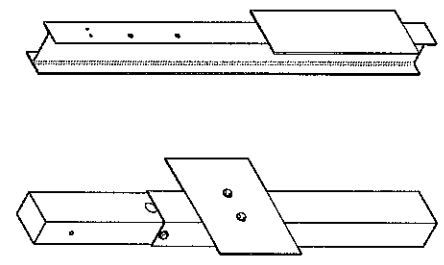
SHEET 2 OF 2 SHEETS

NOTES

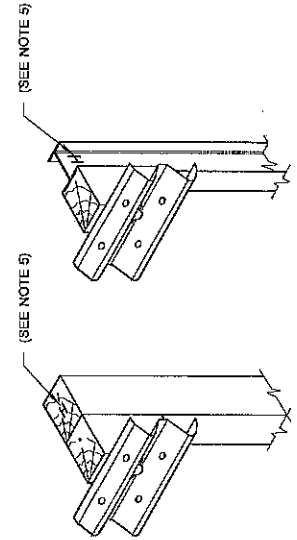
1. Wood posts for all guardrail placement plans shall be 6 x 8 except where noted otherwise.
2. Lower hole is for Rub Rail of Type 2 and Type 3 Beam Guardrail.
3. W6x8.5 or W6x9 steel posts and timber blocks are alternates for 6x8 timber posts and blocks. W6x15 steel posts and timber blocks are alternates for 10x10 timber posts and blocks.
4. Attach blockouts to steel posts using bolt holes on approaching traffic side of post web.
5. When "Beam Guardrail Type - Ft. Long Post" is specified in the Contract, the post length shall be stamped with numbers, 1 1/2" (in) min. high and 3/4" (in) wide at the location where the letter "H" is shown in the ASSEMBLY DETAIL. For wood post applications, the letter shall be stamped to a minimum depth of 1/4" (in). For steel post applications, the letter shall be legible after the post is galvanized. After post installation, it shall be the Contractor's responsibility to ensure the stamped numbers remain visible.
6. Soil plate may be welded to foundation tube. If so, holes in soil plate and foundation tube may be omitted.



FRONT VIEW
SIDE VIEW
ANCHOR POST ASSEMBLY



G-2 POST
ANCHOR POST
ISOMETRIC



TIMBER POST
STEEL POST
PARTIAL ASSEMBLY DETAIL

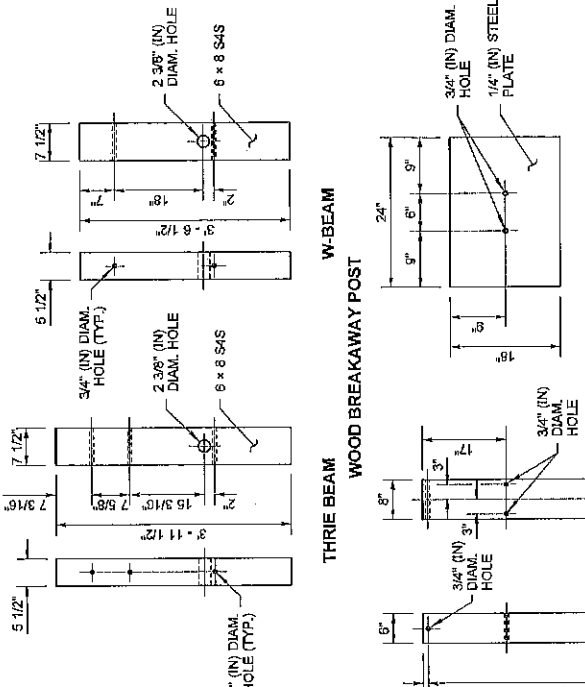
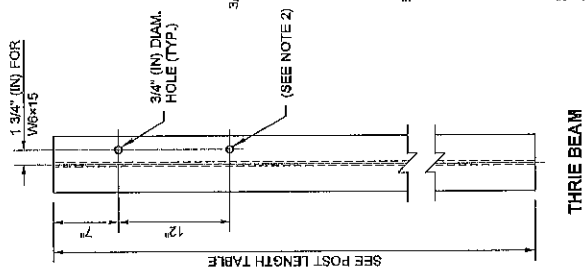
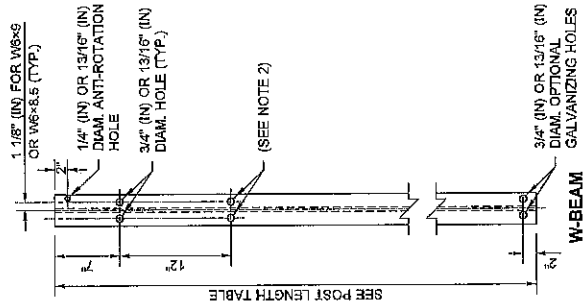
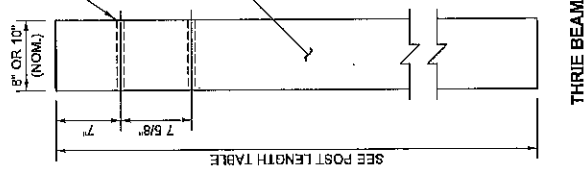
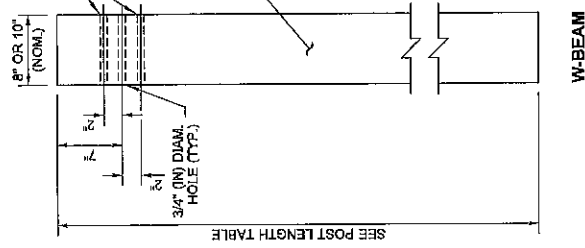


2020.08.27 09:45:39
-0700

**BEAM GUARDRAIL
POSTS AND BLOCKS
STANDARD PLAN C-1b**

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION Date: 2020.09.09 09:58:10
STATE DESIGN ENGINEER -0700
Washington State Department of Transportation



W-BEAM

THRIE BEAM

W-BEAM

THRIE BEAM

THRIE BEAM
WOOD BREAKAWAY POST
W-BEAM

POST LENGTH TABLE

GUARDRAIL TYPE	LENGTH
1 through 4 & 31	6' - 0" *
10 or 11	6' - 6"

STEEL POST
(SEE NOTES 3 AND 4)

* SEE CONTRACT FOR "BEAM GUARDRAIL TYPE" - FT. LONG POST LENGTHS. (SEE NOTE 9)

WOOD POST

W-BEAM

THRIE BEAM



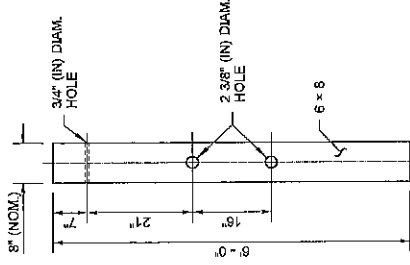
2020.09.11 13:57:54
-0700

**BEAM GUARDRAIL
POSTS AND BLOCKS
STANDARD PLAN C-16**

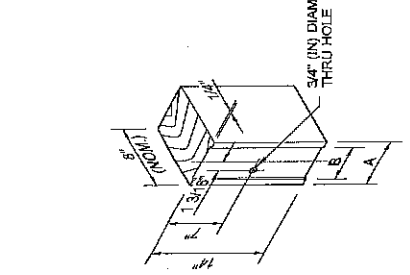
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Date: 2020.09.09
08:59:16 -0700

STATE ENGINEER
Washington State Department of Transportation



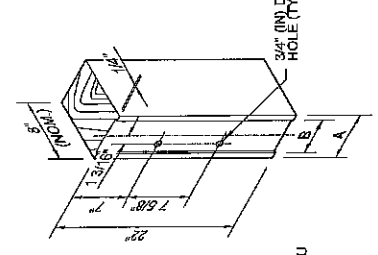
FOUNDATION TUBE



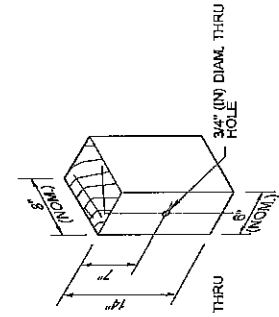
W-BEAM WOOD BLOCK FOR STEEL POST

POST	A	B
WB x 8.5	8" * *	6 1/4"
WB x 15	8" * *	6 1/4"
WB x 9	6" * *	4 1/4"

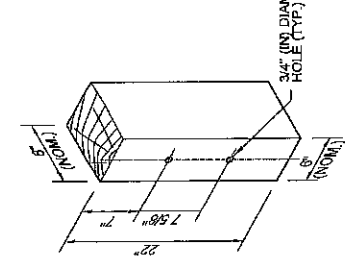
* * NOMINAL (NOM.)



THRIE BEAM WOOD BLOCK FOR STEEL POST



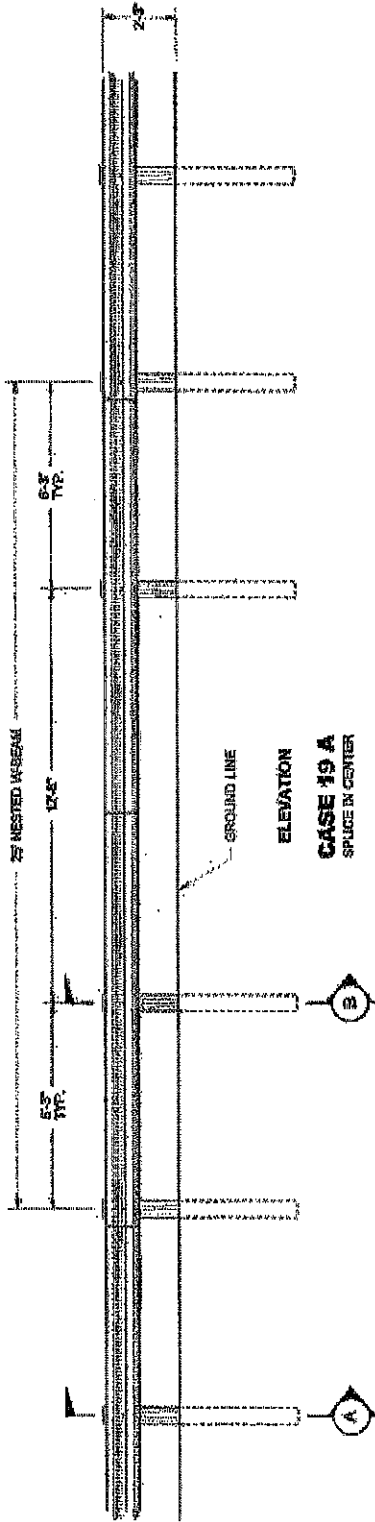
W-BEAM WOOD BLOCK FOR WOOD POST



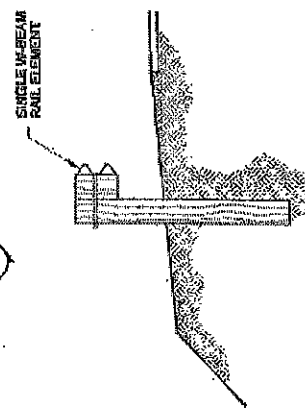
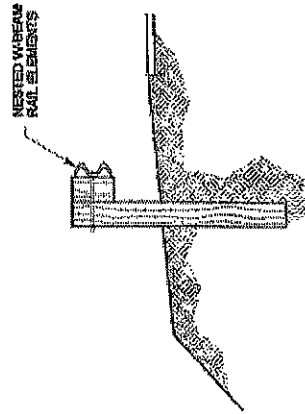
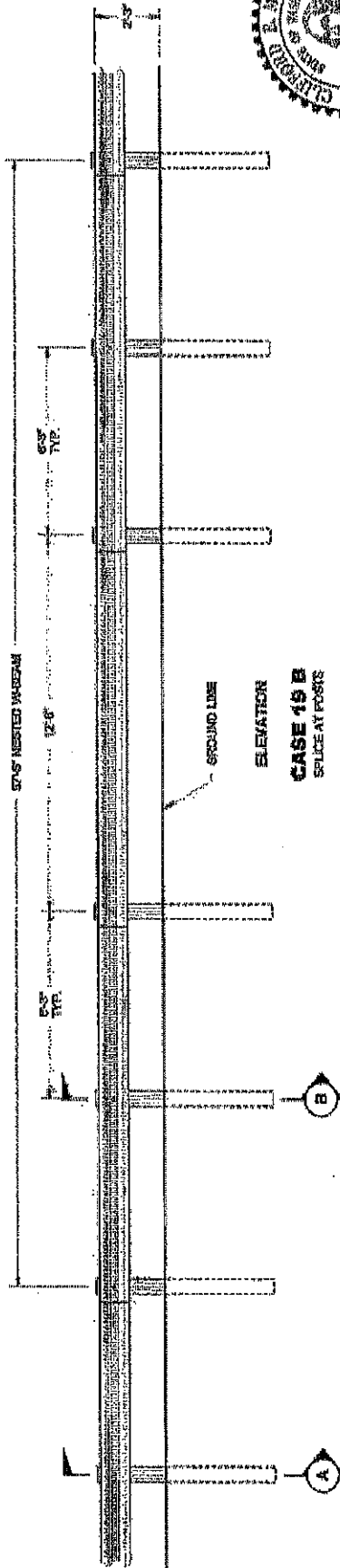
THRIE BEAM WOOD BLOCK FOR WOOD POST

CONTROLLED RELEASING TERMINAL (CRT) POST

BEAM GUARDRAIL PAY LIST



BEAM GUARDRAIL PAY LIST

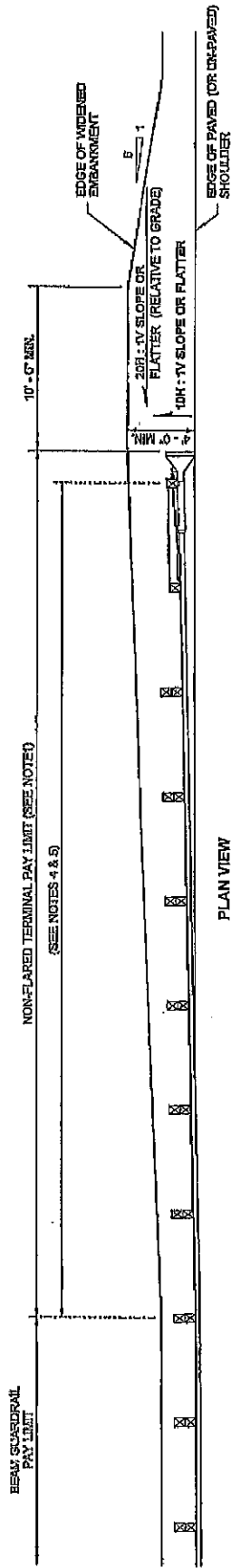


GUARDRAIL PLACEMENT
12'-6" SPAN
STANDARD PLAN C-2K

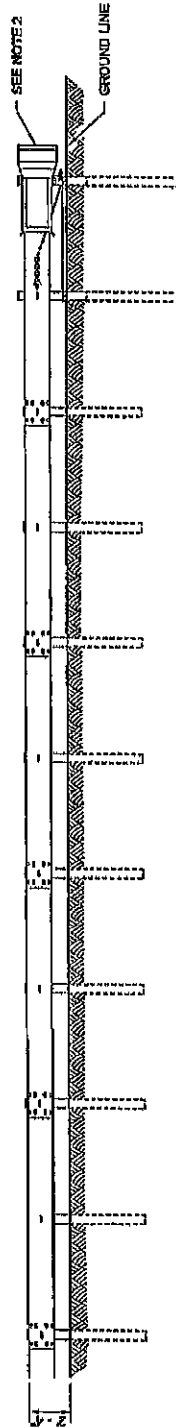
APPROVED FOR PUBLICATION
Clifford E. Mansfield 97-27-01
REGISTERED ENGINEER
Washington State Department of Transportation

NOTES

1. An SKT-350 as manufactured by Road Systems, Inc. shall be installed according to manufacturer's recommendations. When a TL2 terminal is specified in the Contract or SKT-TL2 as manufactured by Road Systems, Inc. shall be installed according to the manufacturer's recommendations.
2. A reflectorized object marker shall be installed according to manufacturer's recommendations.
3. When snow load post washers and snow load rail washers are required by the Contract, the snow load rail washers must not be installed within the terminal limits.
4. Terminal shall be installed as a taper, ensuring that end piece is entirely off the shoulder.
5. Length for SKT-350 is 50' (R). Length for SKT-TL2 is 25' (R).



PLAN VIEW



ELEVATION VIEW



Jeffrey K. Prepperson
 License No. 14570 (Design)
 Exp. 01/20/2017 AM
**BEAM GUARDRAIL
 NON-FLARED TERMINAL**
STANDARD PLAN C-4e

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

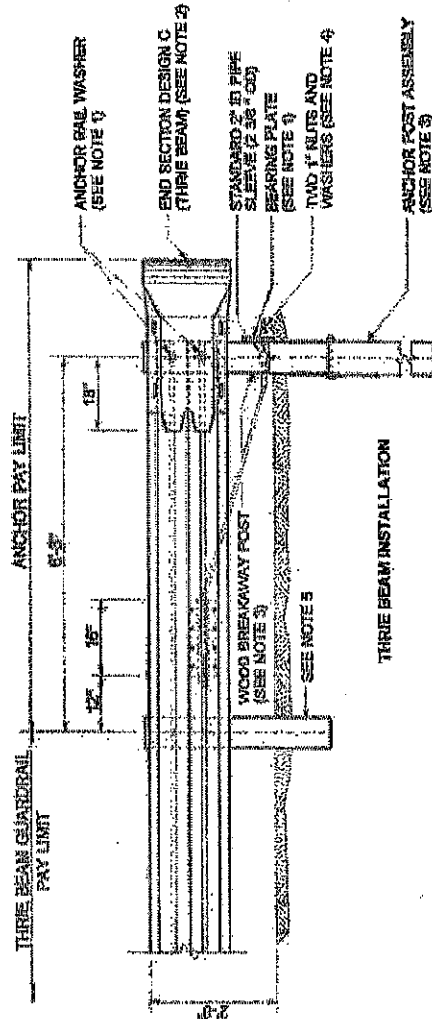
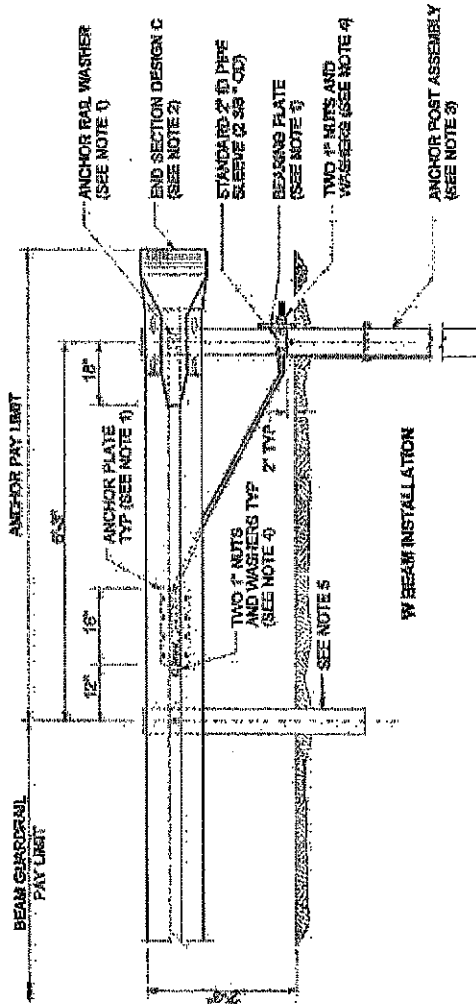
Completed: JKL on 12/21/2017 AM

STATE DESIGN ENGINEER

Washington State Department of Transportation

NOTES

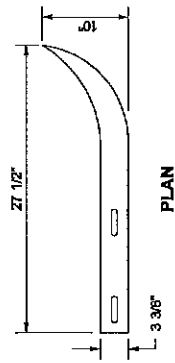
1. For details, see Standard Plan C-4.
2. For end section details see Standard Plan C-7 or C-7e.
3. For details, see Standard Plan C-11.
4. Outside nuts shall be spaced against inside nut a minimum of 100 ft-lbs.
5. Post and block shall match beam guardrail posts.



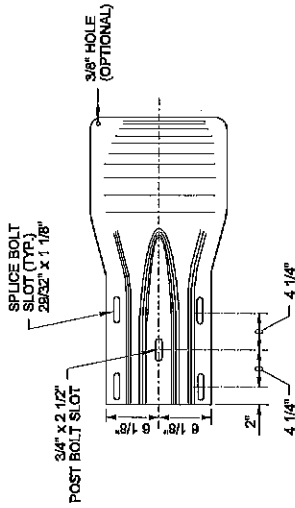
BEAM GUARDRAIL ANCHOR TYPE 4

STANDARD PLAN C-6c

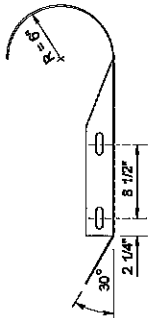
APPROVED FOR PUBLICATION	
DATE	BY
01/05/09	CEM
Clifford E. Mansfield DESIGN ENGINEER/ENGINEER IN CHARGE	
MANSFIELD ENGINEERING & ARCHITECTURE, P.A. 10000 GREENBERRY ROAD, SUITE 100 GREENBELT, MARYLAND 20814	



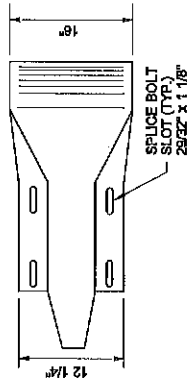
PLAN



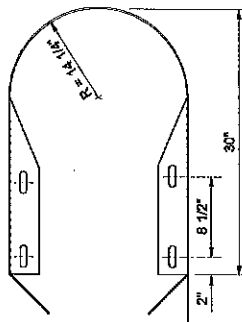
ELEVATION
DESIGN A



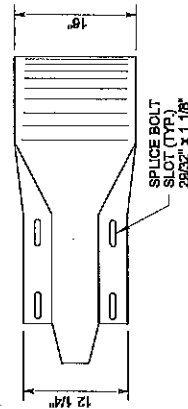
PLAN



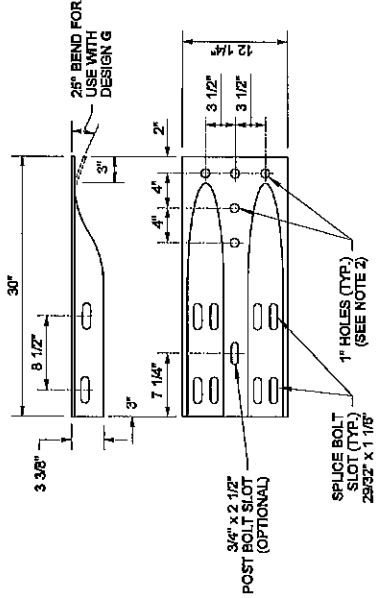
ELEVATION
DESIGN C



PLAN



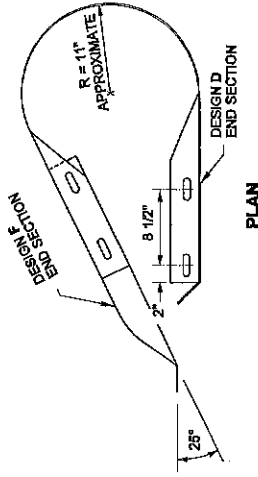
ELEVATION
DESIGN D



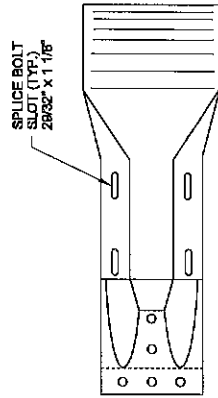
ELEVATION
DESIGN F
(SEE NOTE 4)

NOTES

1. End Section Design G shall be used except where noted on the plans or contract.
2. Attach guardrail to bridge rail or concrete barrier with 7/8" diameter bolts (five minimum) Standard Spec. 9-46.5(4), with thin slab ferrule inserts or resin bonded anchors. See the Contract Plans.
3. A single piece having similar dimensional shape to Design G and mating with the W-beam guardrail is an alternate.
4. In cases where Design "F" end section is lapped on the outside of the guardrail, a galvanized 1" ID, 2" OD, 0.134" thick, narrow Type A Plain Washer or an anchor rail washer shall be placed under the splice bolt heads.



PLAN



ELEVATION
DESIGN G
(SEE NOTE 3)



NOTES: THIS PLAN IS NOT A FINAL, ENGINEERING DOCUMENT. IT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM THE REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT. A COPY MAY BE OBTAINED UPON REQUEST.

**BEAM GUARDRAIL
END SECTIONS
STANDARD PLAN C-7**

SHEET 1 OF 1 SHEET

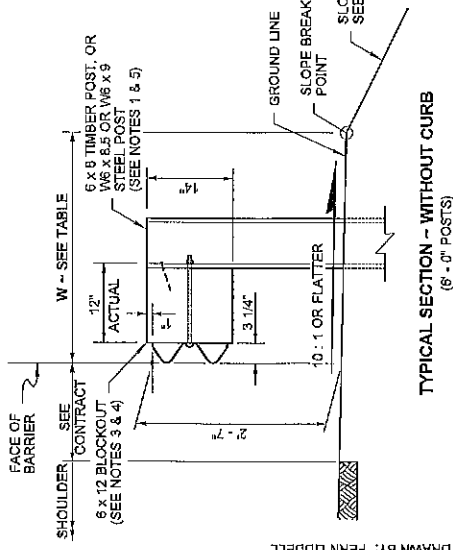
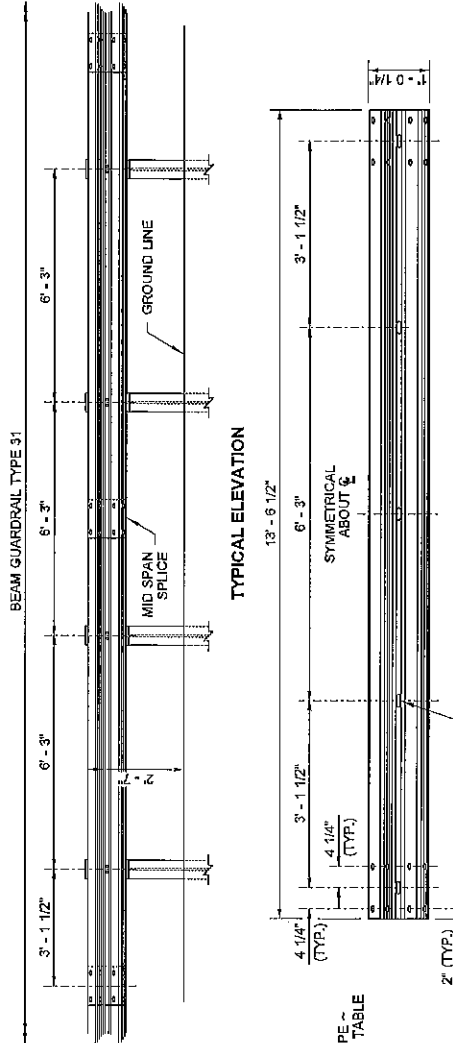
APPROVED FOR PUBLICATION

Pasco Bakofich III 06-16-11

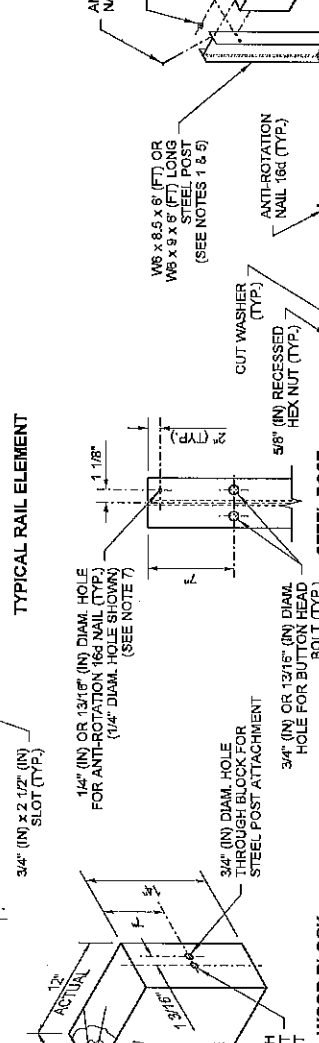
STATE DESIGN ENGINEER

Washington State Department of Transportation

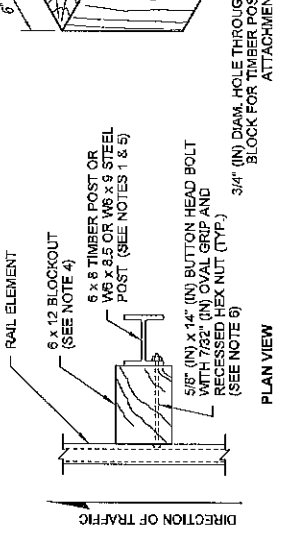
BEAM GUARDRAIL TYPE 31



TYPICAL RAIL ELEMENT

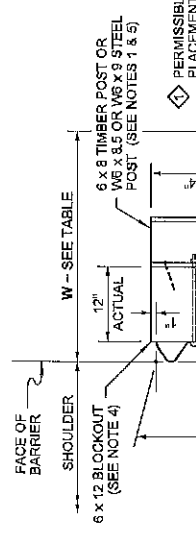


TYPICAL SECTION - WITHOUT CURB (6'-0" POSTS)



SLOPE \ EMBANKMENT TABLE
FOR STD. 6 POSTS

SLOPE	W (FT)
2H:1V OR FLATTER	2.5 MIN.
STEEPER THAN 2H:1V BUT NOT STEEPER THAN 1H:1V	4.0 MIN.



NOTES

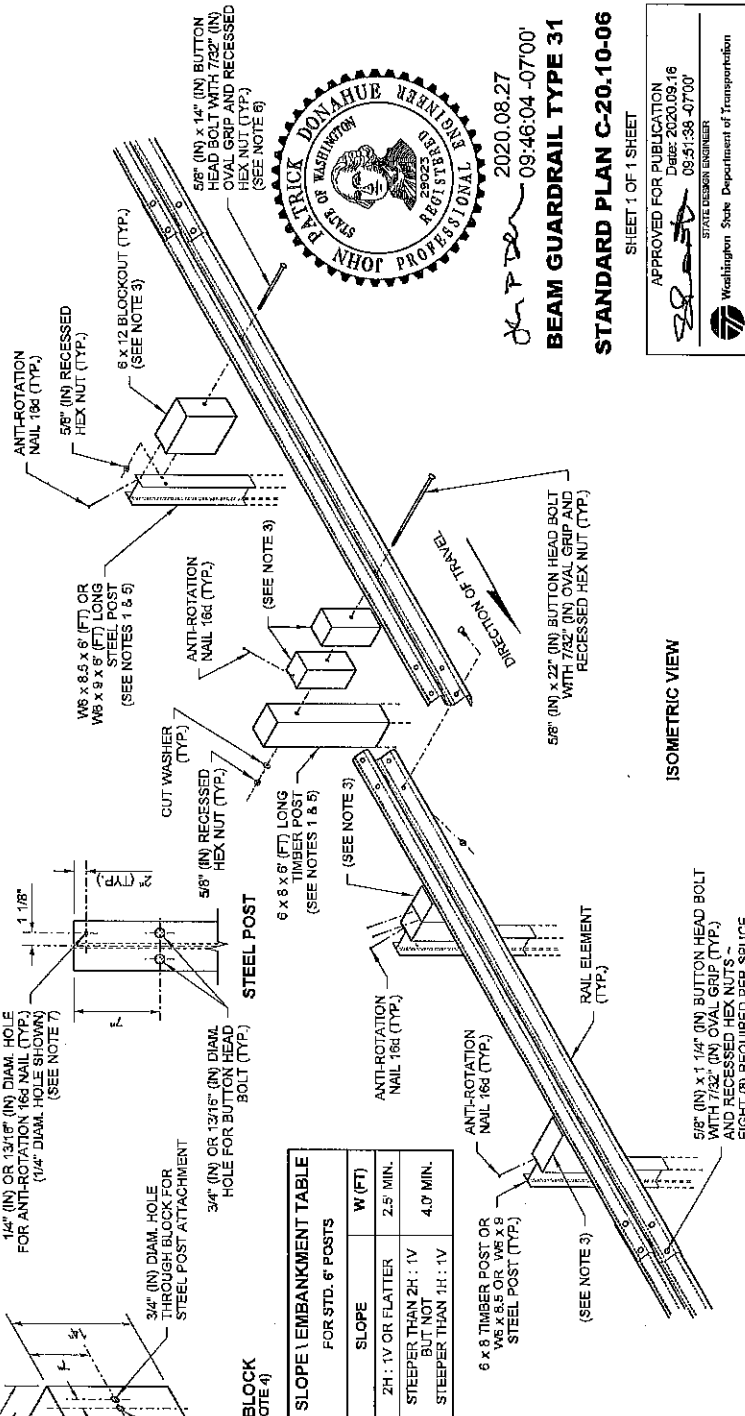
1. Refer to Standard Plan C-1b and C-20.11 for additional details not shown on this plan.
2. Extend shoulder pavement to provide a base for the extruded curb. See Contract Plans for exceptions to distances shown.
3. Use a single block or combination of blocks (no more than two (2) to achieve the actual 12" (in) offset. See Standard Specification, Section 9-16.3(2). Wood blocks shall be secured to the posts with anti-rotation nails. If combination blocks are used, the adjacent blocks shall be torqued with two 1/6d galvanized nails to prevent block rotation.
4. Wood blocks are shown. Blocks of an approved alternative material may be used. See Standard Specification, Section 9-16.3(2).
5. All posts for any standard barrier run shall be of the same type: timber or steel.
6. Attach blockouts to steel posts using bolt holes on approaching traffic side of post web.
7. Anti-rotation holes in steel posts are not required when using blocks with anti-rotation features (e.g., routed blocks).



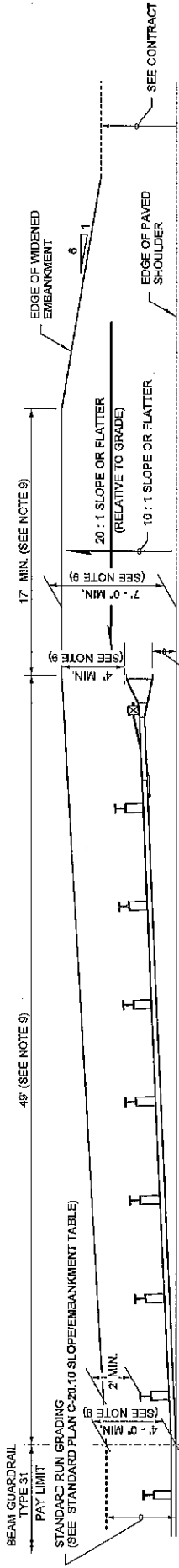
2020.08.27
09:46:04 -0700
BEAM GUARDRAIL TYPE 31
STANDARD PLAN C-20.10-06
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.16
08:51:38 -0700
STATE DESIGN ENGINEER
Washington State Department of Transportation

ISOMETRIC VIEW

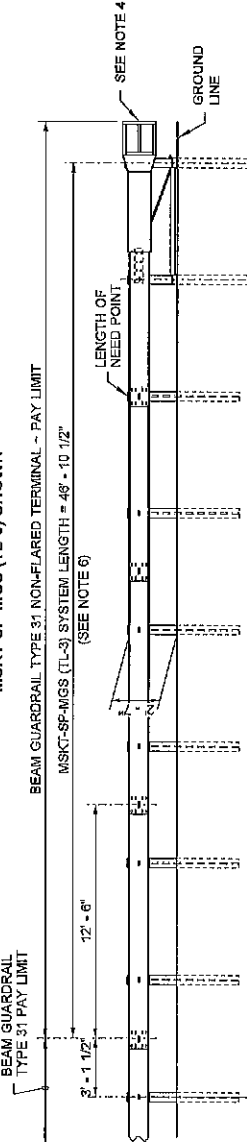


EXTRUDED CURB TYPE 1, 2, 3, 4, 5, OR 6 (SEE CONTRACT FOR TYPE). FOR EXTRUDED CURB DETAILS, SEE STANDARD PLAN F-10A2
ELEVATION VIEW (6'-0" LONG POSTS)

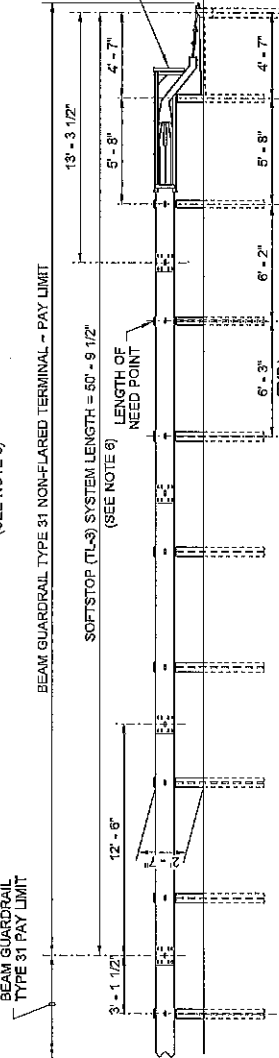


DRAWN BY: FERN LIDDELL

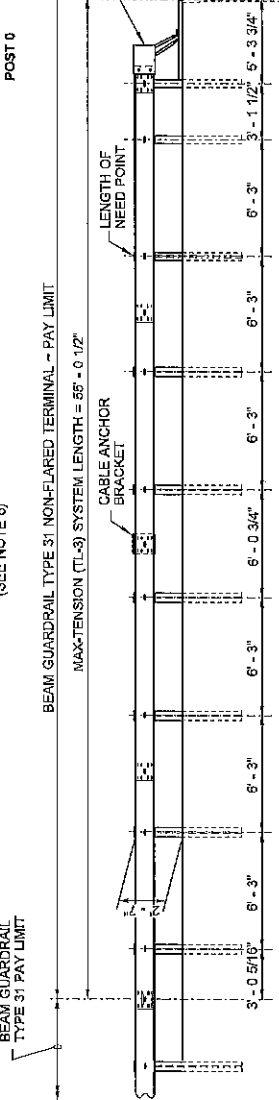
PLAN VIEW
MSKT-SP-MGS (TL-3) SHOWN



ELEVATION VIEW
MSKT-SP-MGS (TL-3)
(SEE NOTE 8)



ELEVATION VIEW
SOFTSTOP (TL-3)
(SEE NOTE 8)



ELEVATION VIEW
MAX-TENSION (TL-3)
(SEE NOTE 8)

NOTES

- The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDQT Request for Approval of Materials (RAM) process.
- This terminal is MASH compliant at Test Level Three (TL-3) and may be used for all posted speeds.
- An MSKT-SP-MGS (TL-3) as manufactured by Road Systems, Inc, SOFTSTOP (TL-3) as manufactured by Trinity Highway Products, LLC, or MAX-TENSION (TL-3) as manufactured by Lindsay Transportation Solutions, shall be installed according to manufacturer's recommendations.
- A reflectorized object marker shall be installed according to manufacturer's recommendations.
- Snow load rail washers shall not be installed within the terminal limits.
- Provide an offset between 0 to 2 feet so that the impact head does not encroach onto the paved shoulder. This offset is provided over the length of the terminal system from the center of the last post splice to either:
 - The face of the impact head at its leading edge (MSKT-SP-MGS), or
 - The center of Anchor Post 0 (Softstop or Max-Tension). Provide maximum offset where practicable.
- For terminal details, see WSDOT approved manufacturer's drawings.
- These terminals are supplied with steel posts only. They can be used with beam guardrail Type 31 runs composed of steel or wood guardrail posts.
- The widened embankment dimensions shown on this plan will satisfy the installation requirements of all 3 guardrail terminal systems shown on this plan.

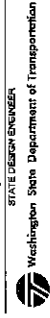


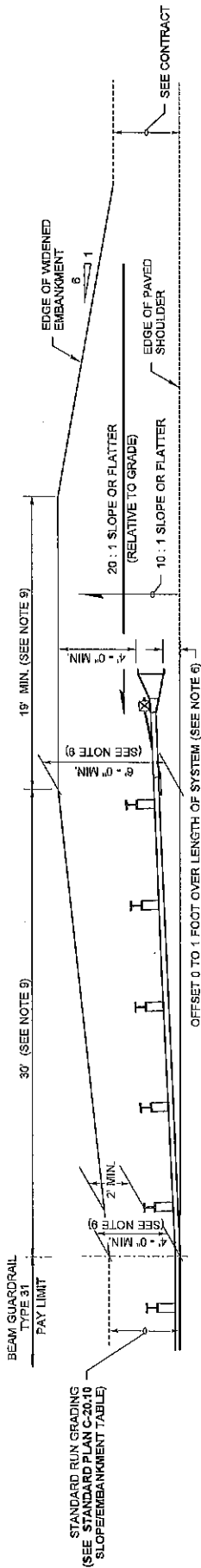
2020.08.27 09:46:51
-07:00

**BEAM GUARDRAIL TYPE 31
NON-FLARED TERMINAL
(ALL POSTED SPEEDS)
STANDARD PLAN C-22.40-08**

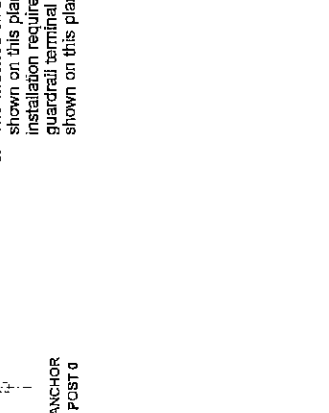
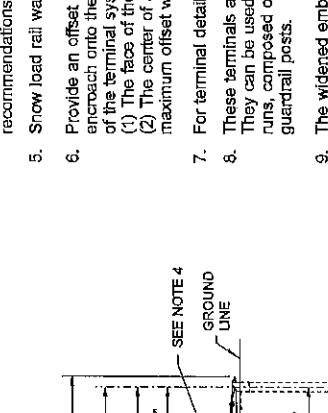
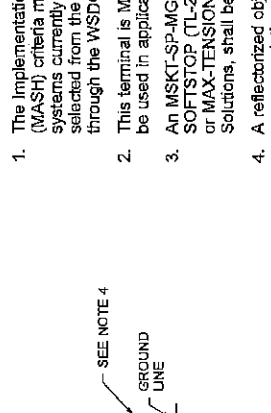
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.08.16
DS:53-50 -07'00"





PLAN VIEW
(MSKT-SP-MGS (TL-2) SHOWN)



NOTES

- The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDOT Request for Approval of Materials (RAM) process.
- This terminal is MASH compliant at Test Level Two (TL-2) and may be used in applications with posted speed of 45 mph or less.
- An MSKT-SP-MGS (TL-2) as manufactured by Road Systems, Inc., SOFTSTOP (TL-2) as manufactured by Trinity Highway Products, LLC, or MAX-TENSION (TL-2) as manufactured by Lindsay Transportation Solutions, shall be installed according to manufacturer's recommendations.
- A reflectorized object marker shall be installed according to manufacturer's recommendations.
- Snow load rail washers shall not be installed within the terminal limits.
- Provide an offset between 0 to 1 foot so that the impact head does not encroach onto the paved shoulder. The offset is provided over the length of the terminal system from the center of the last post splice to either:
 - The face of the impact head at its leading edge (MSKT-SP-MGS), or
 - The center of anchor Post 0 (Softstop or Max-Tension). Provide the maximum offset where practicable.
- For terminal details, see WSDOT approved manufacturer's drawings.
- These terminals are supplied with steel posts only. They can be used with beam guardrail type 31 runs, composed of steel or wood guardrail posts.
- The widened embankment dimensions shown on this plan will satisfy the installation requirements of all 3 guardrail terminal systems shown on this plan.



2020.08.27 09:47:19
-07'00"

**BEAM GUARDRAIL TYPE 31
NON-FLARED TERMINAL
(POSTED SPEED
45 MPH AND BELOW)
STANDARD PLAN C-22.45-05**

SHEET 1 OF 1 SHEET

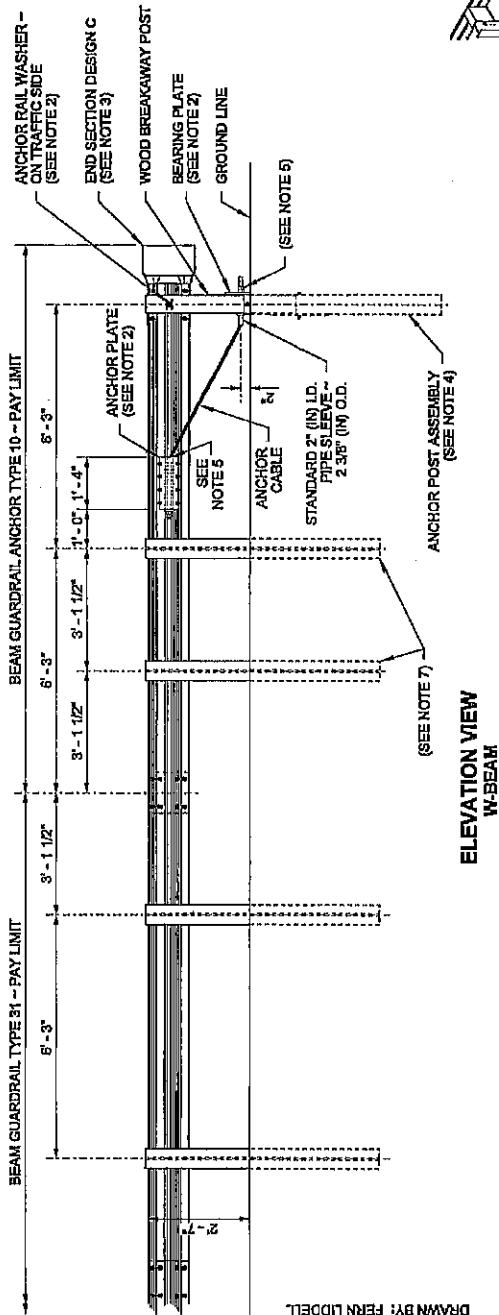
APPROVED FOR PUBLICATION
Date: 2020.09.16
09:54:40 -07'00"

STATE DESIGN ENGINEER

Washington State Department of Transportation

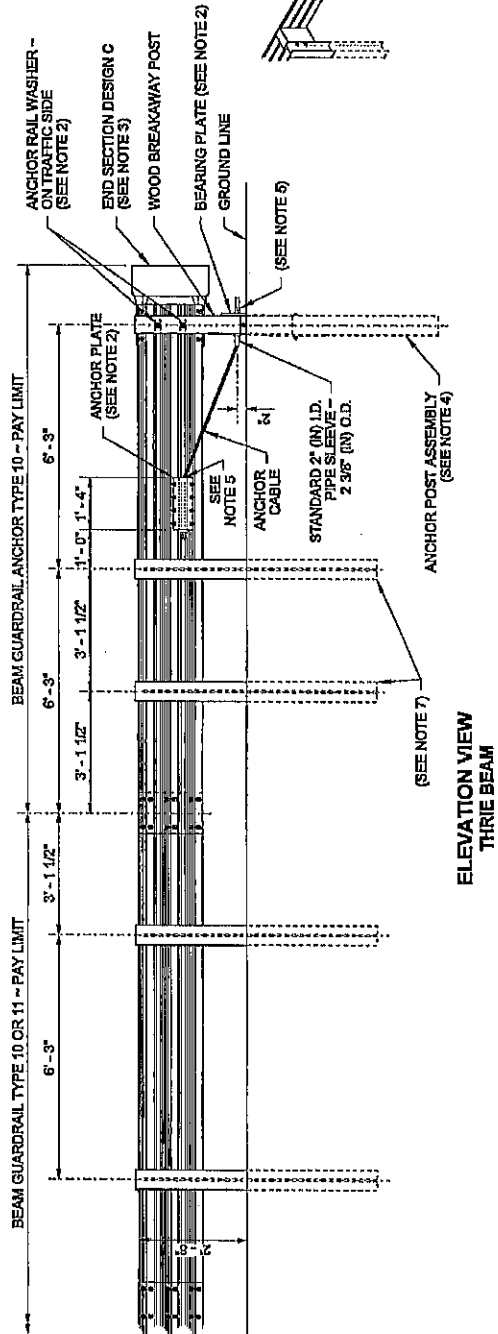
NOTES

1. For use on the end of guardrail runs when a crashworthy terminal is not required.
2. For additional details not shown, see **Sheet 2** of this Plan.
3. For end section details, see **Standard Plans C-7 and C-7a**.
4. Use details for Wood Breakaway post shown on this plan and components shown on **Standard Plan C-1b**.
5. Fasten the Anchor Cable using two 1" (in) nuts and washer, at both ends of cable. Outside nut shall be torqued against inside nut a minimum of 100 ft.-lbs.
6. Wood blocks shown. Blocks of alternate material may be used. See **Standard Specification, Section 9-16.3(2)**.
7. Posts shall match those of the connecting run: timber or steel.
8. Anchor plate may be constructed from 1/4" (in) plates welded to equal strength and dimensions as shown.
9. Eight 5/8" (in) x 1 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.

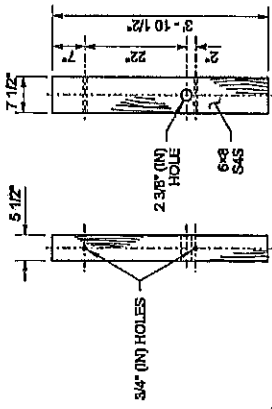


**ELEVATION VIEW
W-BEAM**

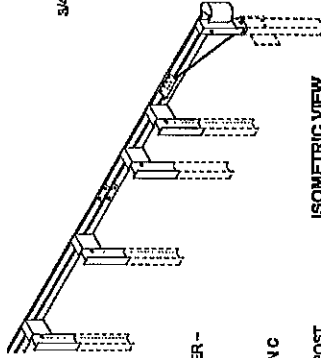
DRAWN BY: FERN LIDDELL



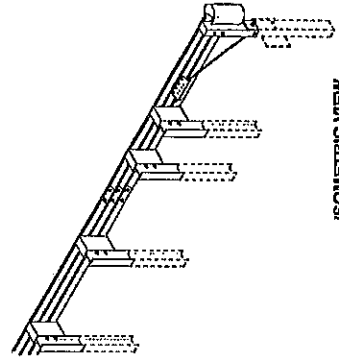
**ELEVATION VIEW
THIRIE BEAM**



**WOOD BREAKAWAY
POST DETAIL**



ISOMETRIC VIEW



ISOMETRIC VIEW



Jeff Peterson
Peterson, Jeff (IQ Design)
July 6, 2017 3:45 PM

**BEAM GUARDRAIL (TYPE 31)
ANCHOR TYPE 10**

STANDARD PLAN C-23.60-04

SHEET 1 OF 2 SHEETS

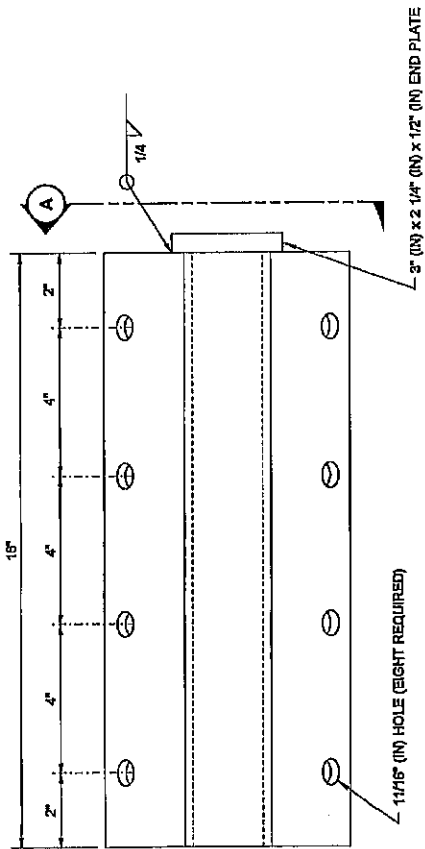
APPROVED FOR PUBLICATION

Checked by: *[Signature]*
Date: 07/27/2016

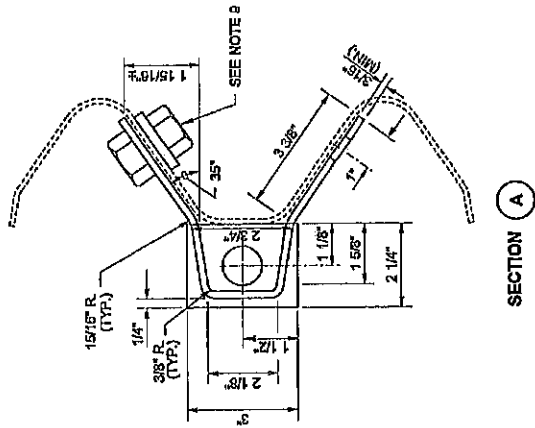
STATE DESIGN ENGINEER

Washington State Department of Transportation

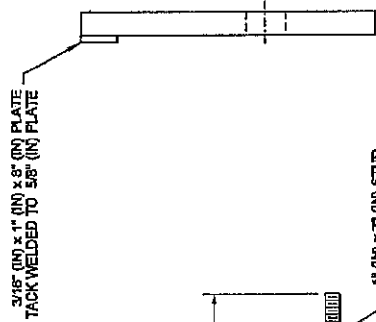
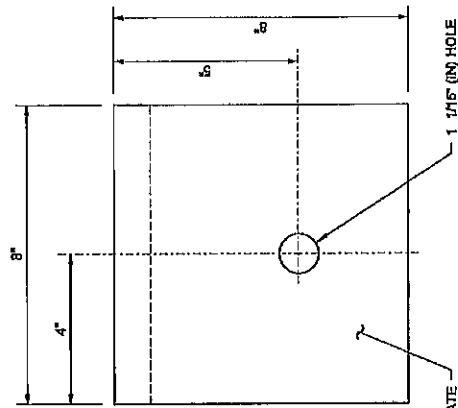
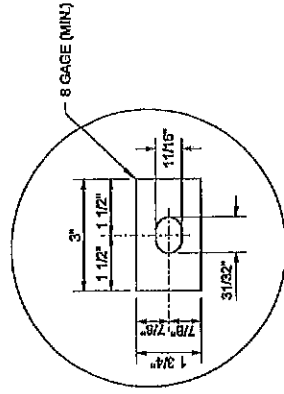




ANCHOR PLATE
(SEE NOTE 8)



SECTION A



ANCHOR CABLE



Jeffrey L. Petterson
Professional Engineer
No. 35003
State of Washington
Jul 6, 2017 3:15 PM

**BEAM GUARDRAIL (TYPE 31)
ANCHOR TYPE 10**

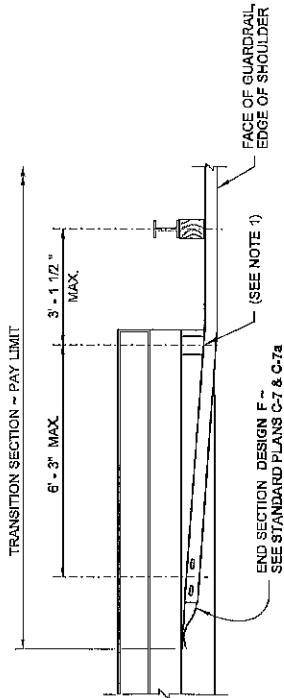
STANDARD PLAN C-23.60-04

SHEET 2 OF 2 SHEETS

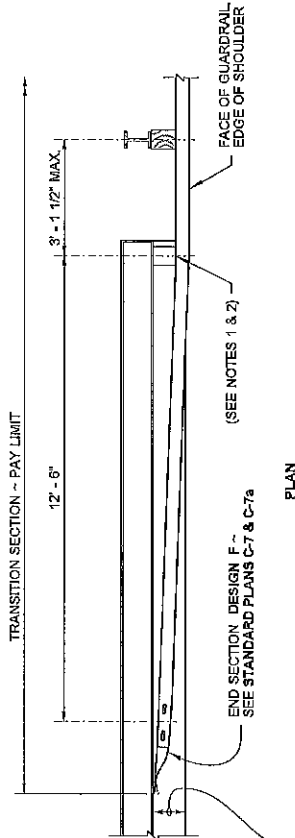
APPROVED FOR PUBLICATION
Copper: Jeff
Jul 27, 2017 10:51 AM
STATE ENGINEER
Washington State Department of Transportation

NOTES

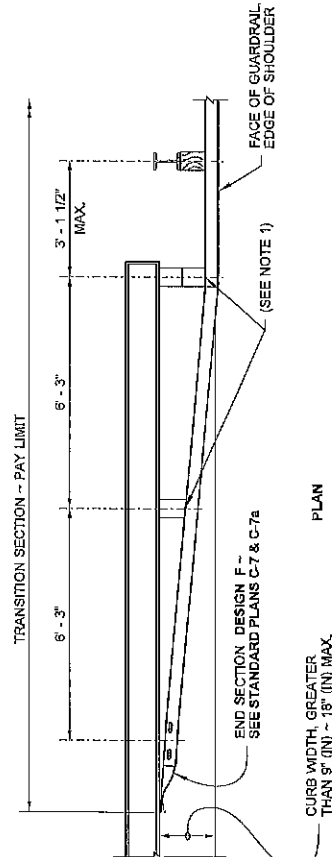
1. Attach guardrail to bridge rail or concrete barrier with 7/8" (in) diameter bolts in accordance with **Standard Specification, Section 9-05.6(4)** with thin slab ferrule inserts or resin-bonded anchors. See Contract Plans.
2. If the last guardrail post is 3" (in) or less from the end of the bridge barrier, this attachment and breakout is not necessary.
3. See Bridge Plans for additional connection details.
4. Wood blocks shown. Blocks of alternate material may be used. See **Standard Specification, Section 9-16.3 (2)**.
5. Steel posts shown. Timber posts may be used.



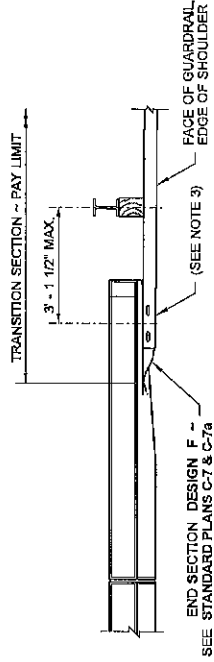
A CONNECTION
(FOR UNRESTRAINED PRECAST CONCRETE BARRIER)



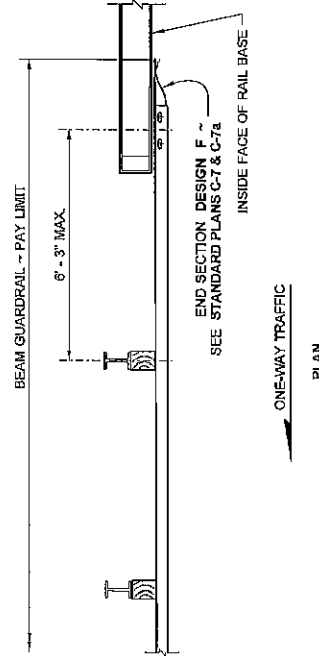
B CONNECTION
(FOR BRIDGE RAILS WITH CURBS 9" (IN) OR LESS, OR SAFETY SHAPE (TYPE F, TYPE 2) BRIDGE RAIL AND CONCRETE BARRIERS)



C CONNECTION
(FOR BRIDGE RAILS WITH CURBS BETWEEN 9" (IN) AND 18" (IN))



D CONNECTION
(FOR VERTICAL WALLS, SINGLE SLOPE BRIDGE RAIL AND CONCRETE BARRIER, OR TAPERED SAFETY SHAPE (TYPE F, TYPE 2) BARRIER)

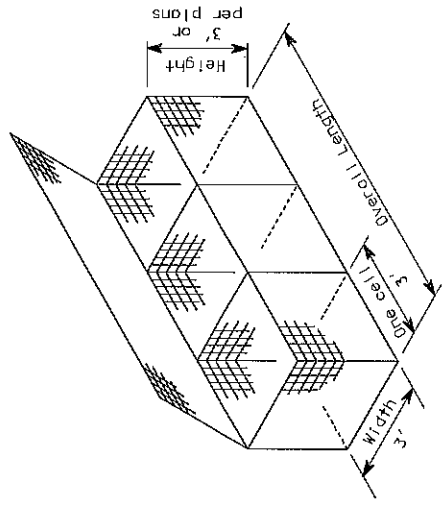
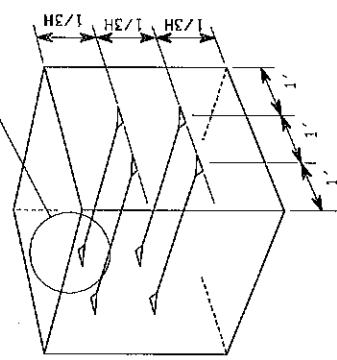
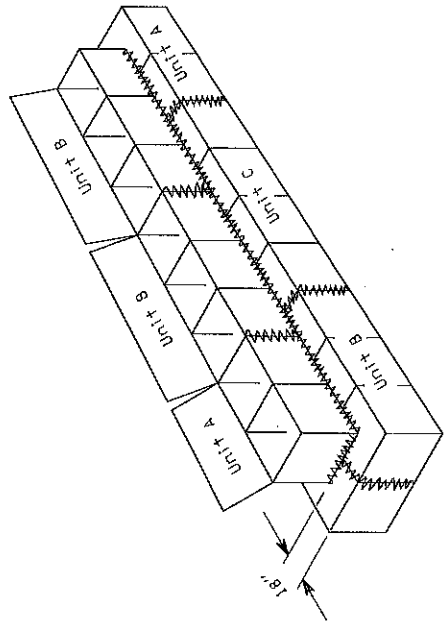
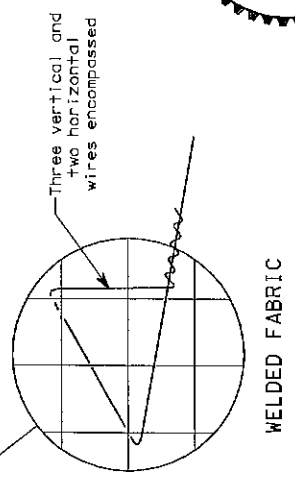
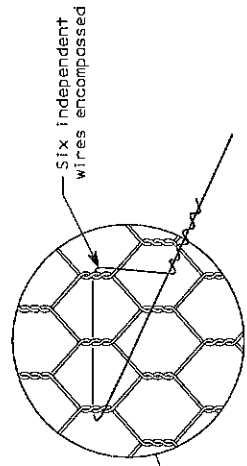
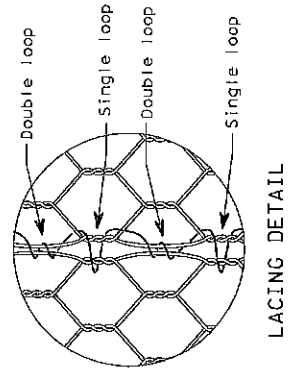


F CONNECTION
(FOR ALL BRIDGE RAIL AND CONCRETE BARRIER TYPES LOCATED ON TRAILING ENDS OF ONE-WAY TRAFFIC ROADWAYS)

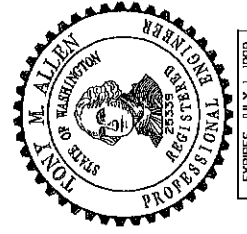
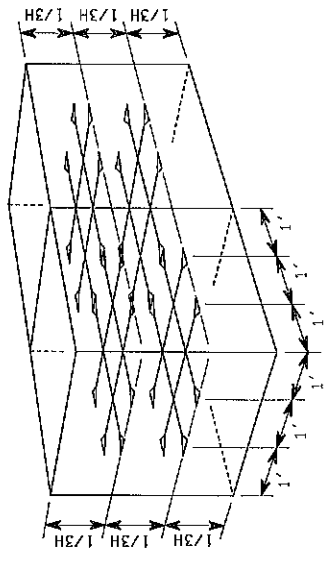


GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER STANDARD PLAN C-24.10-02
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 12/15/19
By: [Signature]
August 12, 2019 11:51 AM
SINCE DESIGN ENGINEER
Washington State Department of Transportation



Unit A - 2 cell gabion = 6'
 Unit B - 3 cell gabion = 9'
 Unit C - 4 cell gabion = 12'



EXPIRES JULY 1, 1989

GABIONS

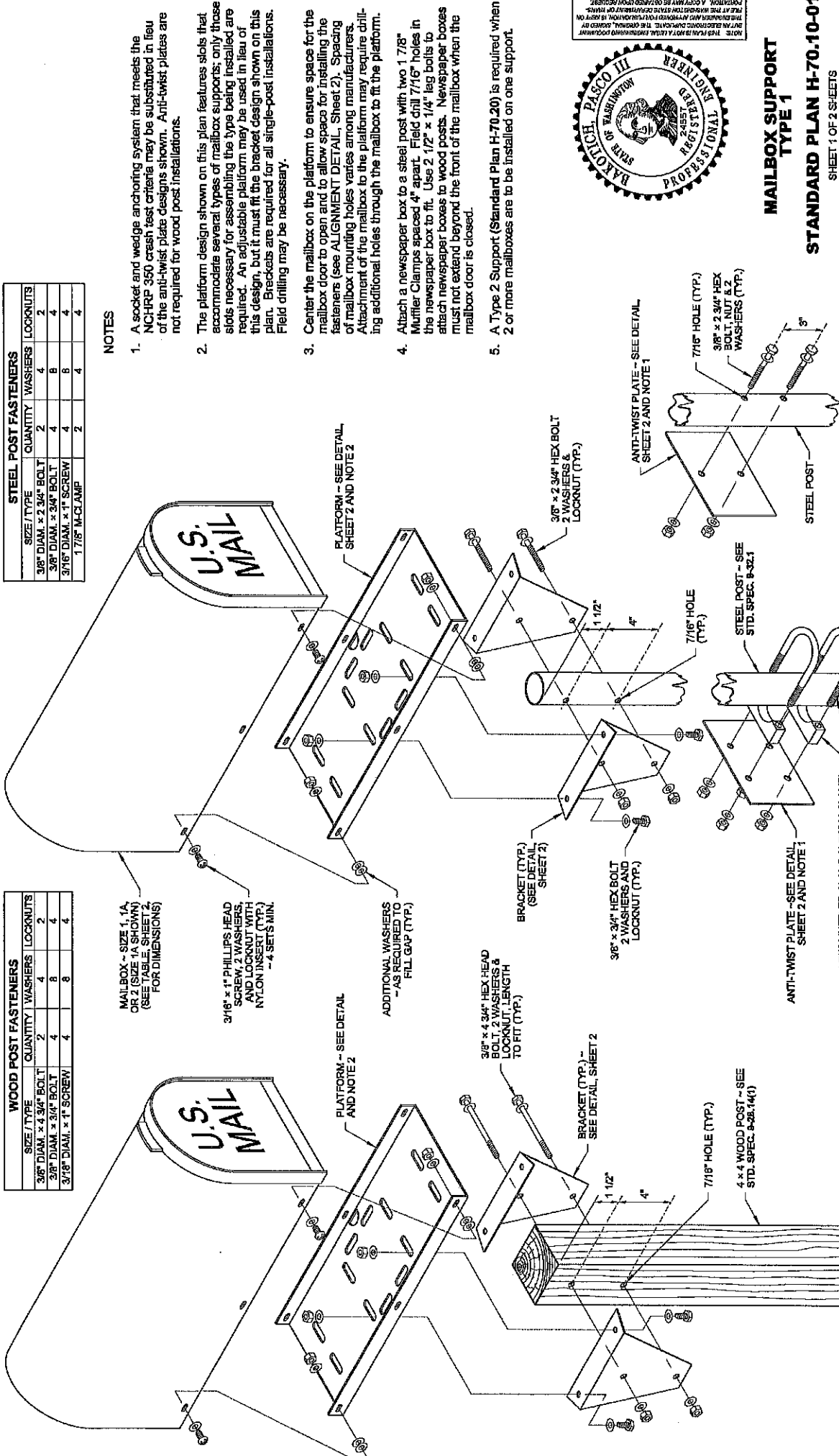
STANDARD PLAN D-6

APPROVED FOR PUBLICATION
Clifford E. Mansfield 6/19/98
 DEPUTY STATE DESIGN ENGINEER DATE
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
 OLYMPIA, WASHINGTON

NOTE: THIS PLAN IS NOT A LEGAL INSTRUMENT AND DOES NOT CONSTITUTE A CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.

WOOD POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. x 4 3/4" BOLT	2	4	2
3/8" DIAM. x 3/4" BOLT	4	8	4
3/16" DIAM. x 1" SCREW	4	8	4

STEEL POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. x 2 3/4" BOLT	2	4	2
3/8" DIAM. x 3/4" BOLT	4	8	4
3/16" DIAM. x 1" SCREW	4	8	4
1 7/8" M-CLAMP	2	4	4



NOTES

1. A socket and wedge anchoring system that meets the NCHRP 350 crash test criteria may be substituted in lieu of the anti-twist plate designs shown. Anti-twist plates are not required for wood post installations.
2. The platform design shown on this plan features slots that accommodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this design, but it must fit the bracket design shown on this plan. Brackets are required for all single-post installations. Field drilling may be necessary.
3. Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL, Sheet 2). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to the platform may require drilling additional holes through the mailbox to fit the platform.
4. Attach a newspaper box to a steel post with two 1 7/8" Muffler Clamps spaced 4" apart. Field drill 7/16" holes in the newspaper box to fit. Use 2 1/2" x 1/4" lag bolts to attach newspaper boxes to wood posts. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.
5. A Type 2 Support (Standard Plan H-70.20) is required when 2 or more mailboxes are to be installed on one support.



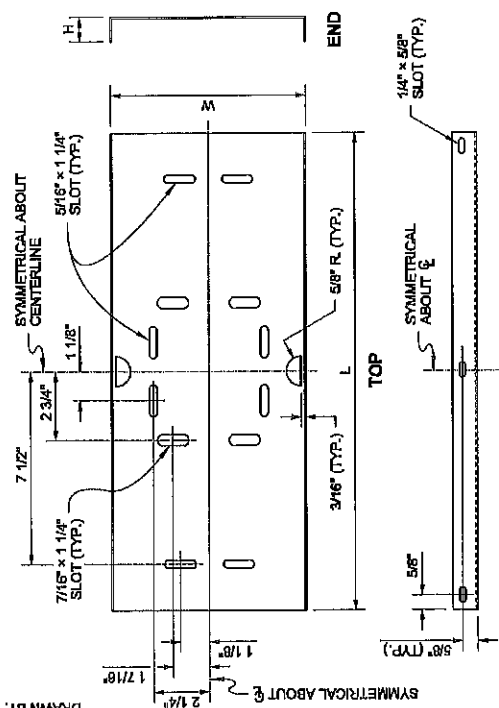
MAILBOX SUPPORT TYPE 1
STANDARD PLAN H-70.10-01
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Pasco Bakofich III DATE **02-07-12**
STATE DESIGN ENGINEER
Washington State Department of Transportation

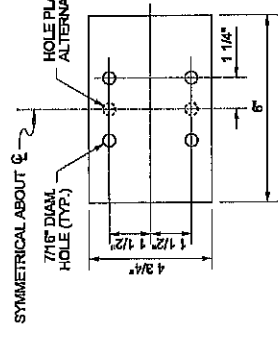
NOTE: THIS PLAN IS A PERMANENT RECORD. THE ORIGINAL, STORED BY THE ARCHITECT, MUST BE KEPT FOR RECORD. NO OTHER COPIES OF THIS PLAN OR ANY PART THEREOF SHALL BE MADE OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. A COPY MAY BE OBTAINED UPON REQUEST.

MAILBOX & PLATFORM DIMENSIONS

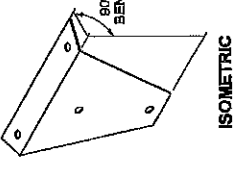
SIZE	L	W	H	L	W	H
1	19"	6 1/2"	8 1/2"	17"	6"	1"
1A	21"	8"	10 1/2"	19"	7 1/2"	1"
2	24"	11 1/2"	13 1/2"	21"	11"	1"



PLATFORM DETAIL

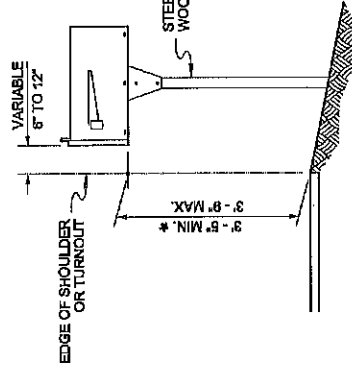
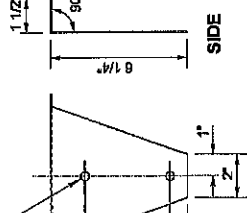


ANTI-TWIST PLATE DETAIL

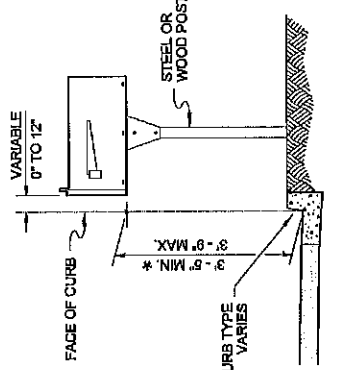


ISOMETRIC

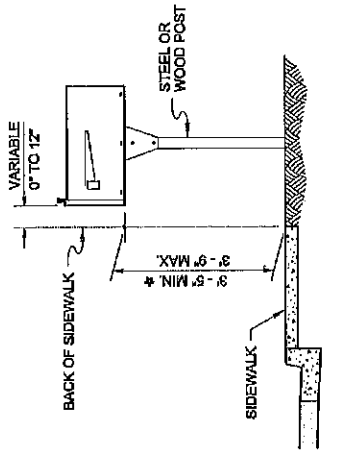
BRACKET DETAIL



AT EDGE OF SHOULDER

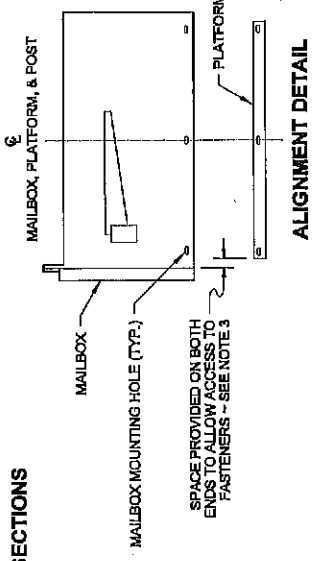


BEHIND CURB



BEHIND SIDEWALK

* UNLESS OTHERWISE SHOWN IN THE PLANS
MAILBOX PLACEMENT SECTIONS



ALIGNMENT DETAIL



MAILBOX SUPPORT TYPE 1

STANDARD PLAN H-70.10-01

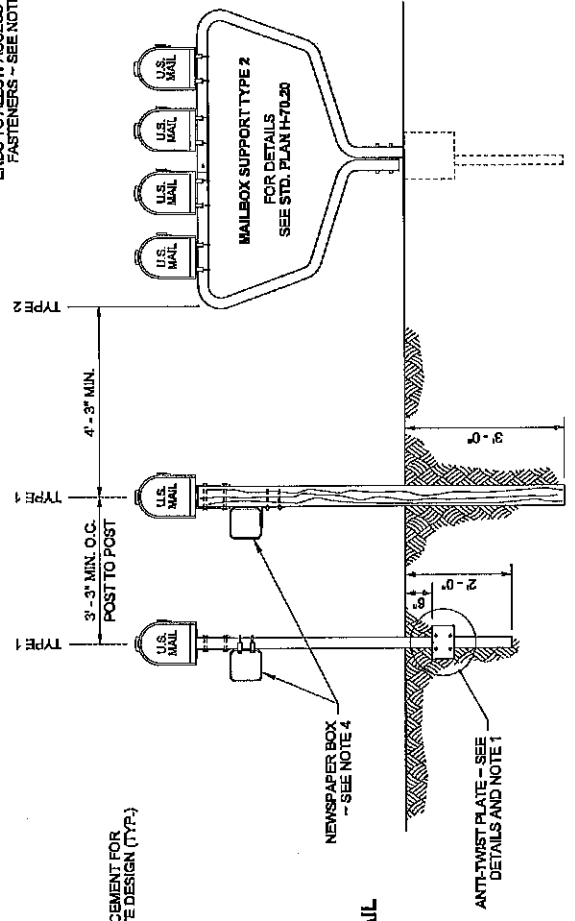
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakotich III
STATE DESIGN ENGINEER

DATE
02-07-12

Washington State Department of Transportation



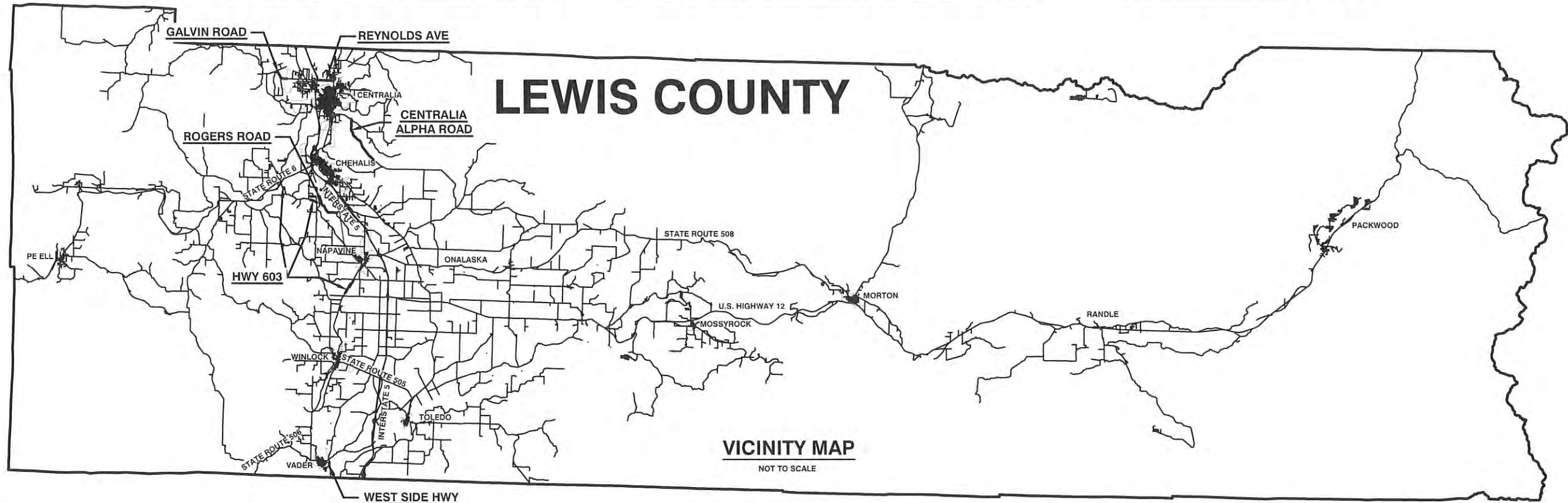
POST PLACEMENT DETAIL

2019 COUNTY SAFETY PROGRAM PHASE II

COUNTY ROAD PROJECT NO: 2191B

FEDERAL AID PROJECT NO. HSIP-000S (553)

F.A. CONTRACT # TA 6895



COMMISSIONERS:

SEAN SWOPE, DISTRICT 1
LINDSAY R. POLLOCK, DVM, DISTRICT 2
GARY STAMPER, DISTRICT 3



**ENGINEERING-
DESIGN SECTION**

LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:

[Signature] 3/1/2021
Assistant County Engineer Date



ROADWAY SECTIONS INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES & LEGEND
3	TYPICAL SECTIONS
4	GUARDRAIL LANDING & POST INSTALLATION DETAILS
CA1	CENTRALIA ALPHA ROAD SUMMARY OF QUANTITIES
CA2 - CA4	CENTRALIA ALPHA ROAD SITE 1
CA5	CENTRALIA ALPHA ROAD SITE 2
CA6	CENTRALIA ALPHA ROAD CATCH BASIN DETAIL
CA7	CENTRALIA ALPHA ROAD SITE 3
CA8	CENTRALIA ALPHA ROAD SITE 4
CA9	CENTRALIA ALPHA ROAD SITE 5
CA10	CENTRALIA ALPHA ROAD SITE 6
G1	GALVIN ROAD SUMMARY OF QUANTITIES
G2	GALVIN ROAD SITE 1 & 2
G3	GALVIN ROAD HMA SIDEWALK RAMP DETAIL
HY1	HWY 603 SUMMARY OF QUANTITIES
HY2	HWY 603 SITE 2 & 3

ROADWAY SECTIONS INDEX

SHEET NO.	DESCRIPTION
HY3	HWY 603 SITE 5
HY4	HWY 603 SITE 6 NORTH APPROACH
HY5	HWY 603 SITE 6 SOUTH APPROACH
HY6	HWY 603 SITE 6 GUARDRAIL
HY7	HWY 603 SITE 6 GABION DETAIL
HY8	HWY 603 SITE 6 SOUTH APPROACH TYPICAL SECTION
R1	REYNOLDS ROAD SUMMARY OF QUANTITIES
R2	REYNOLDS ROAD SITE 1 & 2
R3	REYNOLDS ROAD SITE 3 & 4
R4	REYNOLDS ROAD SITE 5 & 6
R5	REYNOLDS ROAD SITE 7
RG1	ROGERS ROAD SUMMARY OF QUANTITIES
RG2	ROGERS ROAD SITE 1
RG3 - RG4	ROGERS ROAD SITE 2
RG5	ROGERS ROAD GABION WALL DETAIL
RG6	ROGERS ROAD SITE 2 DEWATERING PLAN
W1	WEST SIDE HWY SUMMARY OF QUANTITIES
W2	WEST SIDE HWY SITE 1

2019 COUNTY SAFETY PROGRAM PHASE II

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	3	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	10	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	600	C.Y.
8	0408	SELECT BORROW INCL. HAUL	390	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	158	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	34	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	72	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	8	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	1	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	10	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	35	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	2800	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	110	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	6	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	2240	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	156.25	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	506.25	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	62.50	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	862.5	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	918.75	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	606.25	L.F.
27	6755	BEAM GUARDRAIL BLOCK	100	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	2	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	11	EACH
30	6751	BEAM GUARDRAIL TYPE 1	43.75	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	150	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	6	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	3	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	11	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	2287.50	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	12.50	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	329	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	150	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	20	C.Y.
41	7150	GABION CRIBBING	33	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	2	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM

LEGEND

<p>EXISTING FEATURES</p> <ul style="list-style-type: none"> CULVERT/STORM SEWER FLOW (DITCH) CENTERLINE EDGE OF ROADWAY GUARDRAIL APPROACH BRIDGE/SIDEWALK FOG LINE FENCE SHOULDER STREAM BUILDING SIGN MAILBOX 	<p>SURVEY FEATURES</p> <ul style="list-style-type: none"> RIGHT OF WAY PROPERTY LINE PERMANENT SLOPE EASEMENT TEMPORARY CONSTRUCTION EASEMENT ROGERS ROAD PRESCRIPTIVE RIGHT OF WAY <p>NEW CONSTRUCTION FEATURES</p> <ul style="list-style-type: none"> CALLOUT CULVERT/ CULVERT EXTENSION LANDINGS & FILL SLOPES GUARDRAIL FILL CUT WATTLE
--	---

GENERAL NOTES

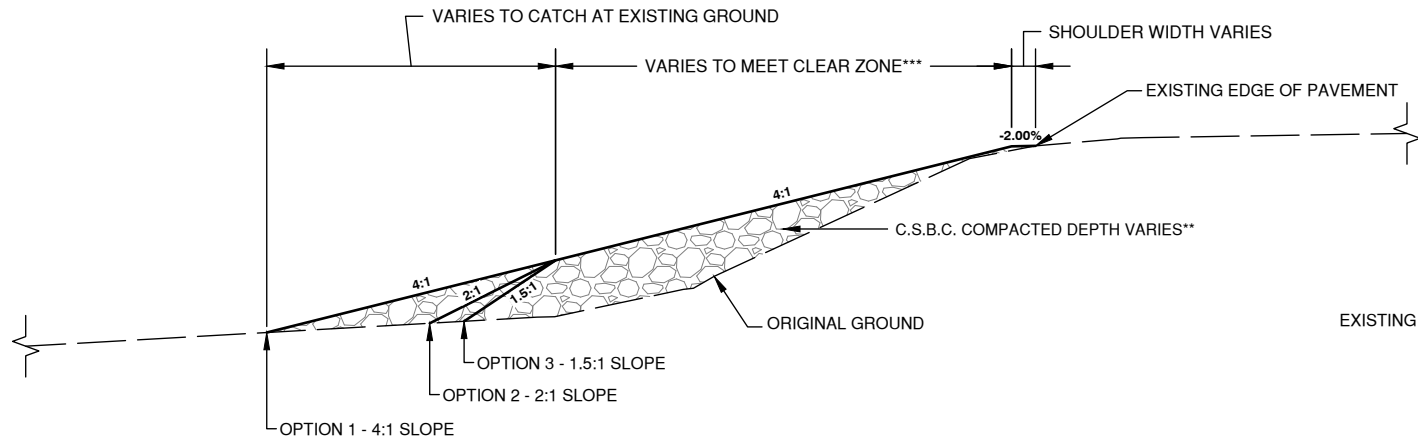
- AT ALL TIMES FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL HAVE ON HAND, THE PROJECT CONTRACT PROVISIONS AND PLANS, AND A CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (M 41-10).
- THE CONTRACTOR WILL COORDINATE, COOPERATE AND ASSIST IN THE INSPECTION PROCESSES THAT IS REQUIRED FOR THE COMPLETION OF THE PROJECT.
- AT NO COST TO THE CONTRACTOR, ALL NECESSARY CONSTRUCTION SURVEY REQUESTS SHALL BE GIVEN A 3 DAY IN ADVANCE NOTICE. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING NEEDED SURVEY STAKES DESTROYED THROUGH NORMAL OPERATIONS, NEGLIGENCE, OR INATTENTION.
- AT THE END OF EACH DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT FREE OF DEBRIS AND UNUSED MATERIAL.
- THE CONTRACTOR IS TO MAINTAIN INGRESS AND EGRESS FROM THE PROJECT SITE, AND PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.
- AT A MINIMUM, THE CONTRACTOR IS TO MAINTAIN ALTERNATING ONE WAY TRAFFIC CONTROL UNLESS APPROVED TRAFFIC CONTROL PLAN ALLOWS OTHERWISE.

2/18/2021 8:25 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

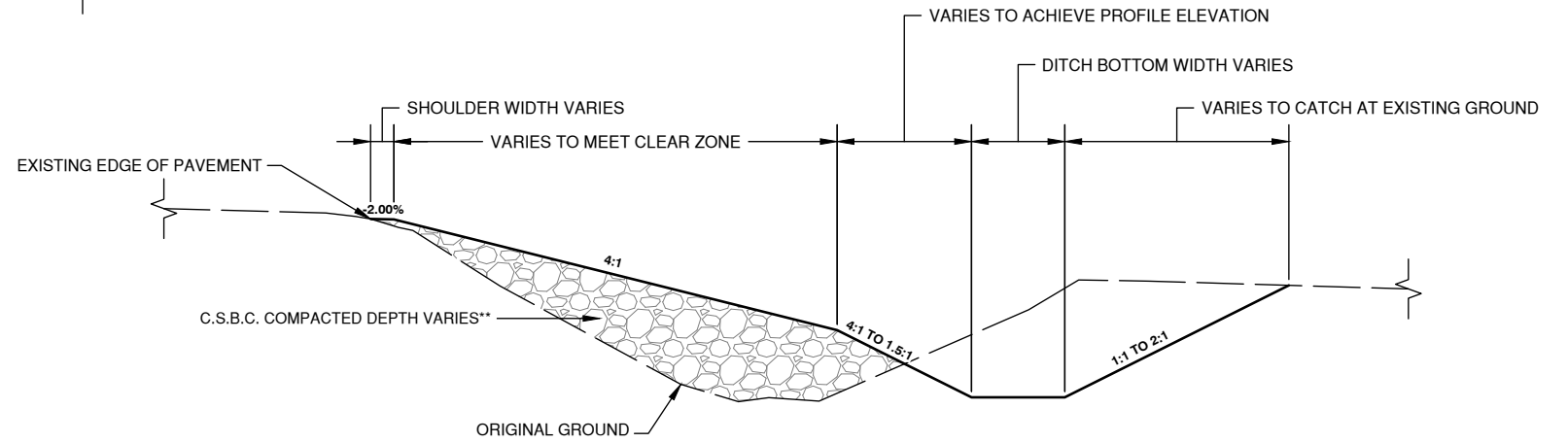
	2025 NE KRESKY AVE. CHEHALIS WA 98532 PHONE # (360) 740-1123 FAX # (360) 740-2719	DESIGNED BY : DJC DRAWN BY : KLP CHECKED BY : DATE :	NO.	DATE	REVISION	BY	APP.	2019 COUNTY SAFETY PROGRAM PHASE II	FEDERAL-AID NO: HSIP-000S (553) COUNTY ROAD PROJECT NO: 2191B	SHEET 2 OF 4	CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 "It's the Law" Utilizes Underground Location Center	Donald J. Carney, P.E. Senior Engineer/Design Date: <u>2/17/21</u>	

** ALL SITES SHALL USE C.S.B.C. EXCEPT FOR THE FOLLOWING SITES.
 - CENTRALIA ALPHA ROAD SITE 1 (APPROACH TO BRIDGE)
 - REYNOLDS ROAD (ALL SITES)
 THEY SHALL USE SELECT BORROW UP TO 1' BELOW FINISH GRADE



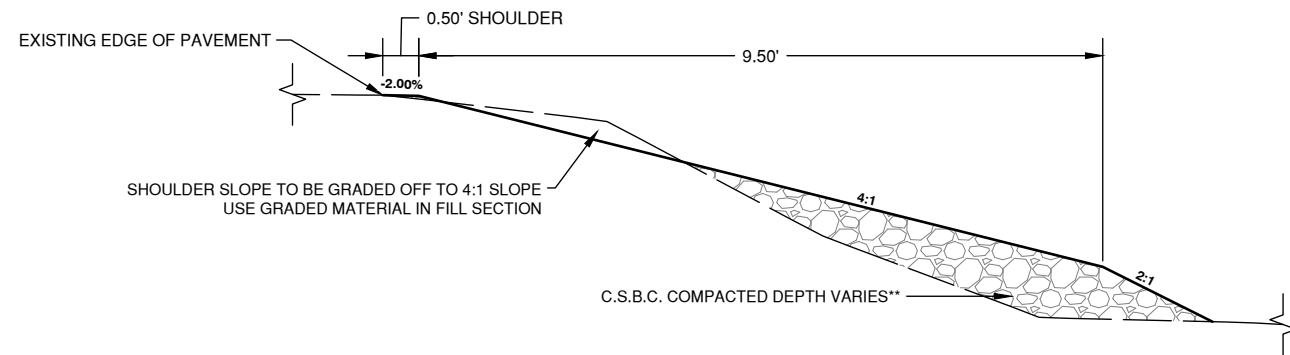
FILL SLOPE TYPICAL SECTION A-A (1-3)
 NOT TO SCALE

*** CLEAR ZONE LENGTHS SHALL BE 10.00' OFF OF THE EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
 NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE 10' BEYOND EDGE OF ASPHALT.



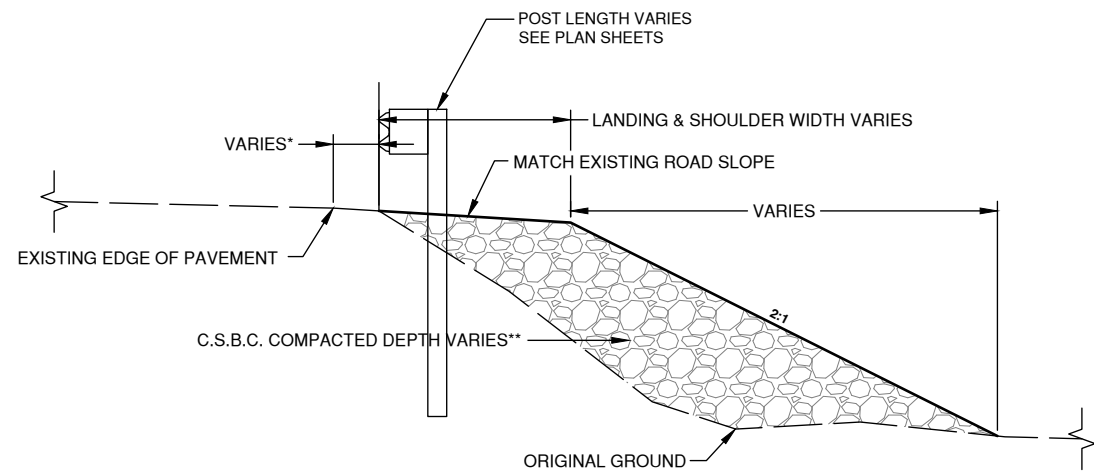
FILL SLOPE TYPICAL SECTION B-B
 NOT TO SCALE

NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE 10' BEYOND EDGE OF ASPHALT.



SHOULDER GRADING TYPICAL SECTION
 NOT TO SCALE

NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE 10' BEYOND EDGE OF ASPHALT.



GUARDRAIL TYPICAL SECTION
 NOT TO SCALE

* 0.5' MIN @ ALL TYPE 31 GUARDRAIL LOCATIONS

NOTE: POST LENGTHS ARE LISTED FOR ESTIMATE PURPOSES ONLY. ACTUAL LENGTH OF POSTS WILL BE DICTATED BY ACTUAL FIELD CONDITIONS AND BEAM GUARDRAIL POST INSTALLATION DETAIL ON SHEET 4 OF 4. SHOULDER WIDENING MAY BE REQUIRED AS SHOWN IN THE PLANS TO MEET BEAM GUARDRAIL POST INSTALLATION DETAIL ON SHEET 4 OF 4.

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : DJC
 DRAWN BY : KLP
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
 PHASE II**

FEDERAL AID NO:
 COUNTY ROAD PROJECT NO: 2191B

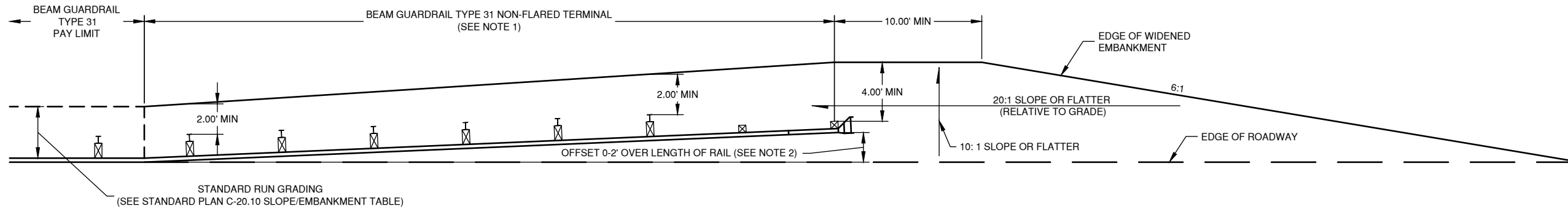
TYPICAL SECTIONS

SHEET
3
 OF
4



Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 2/17/21



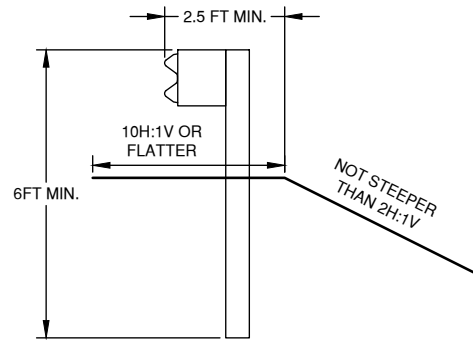


GUARDRAIL LANDING DETAIL

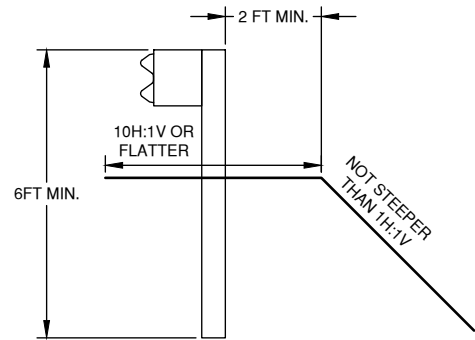
NOT TO SCALE

NOTE: CRUSHED SURFACING TOP COURSE (KEYSTONE) SHALL BE PLACED PER CONTRACT SPECIAL PROVISION 4-04.3(6). KEYSTONE EXTENTS SHALL BE ENTIRE HORIZONTAL SURFACE OF LANDING.

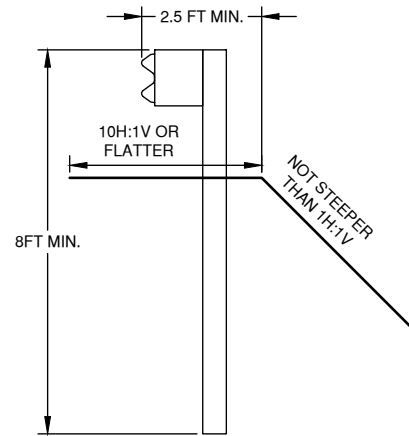
1. BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (ALL POSTED SPEEDS) LENGTH = 46' - 10 1/2"
 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (45MPH AND BELOW) LENGTH = 34' - 4 1/2"
 AN MSKT-SP-MGS (TL-2 OR TL-3) AS MANUFACTURED BY ROAD SYSTEMS, INC, SOFTSTOP (TL-2 OR TL-3) AS MANUFACTURED BY TRINITY HIGHWAY PRODUCTS, LLC, OR MAX-TENSION (TL-2 OR TL-3) AS MANUFACTURED BY LINDSAY TRANSPORTATION SOLUTIONS, SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE AN OFFSET BETWEEN 0 TO 2 FEET FOR BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (ALL POSTED SPEEDS) AND BETWEEN 0 TO 1 FOOT FOR BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (45MPH AND BELOW) SO THAT THE IMPACT HEAD DOES NOT ENCR OACH ONTO THE PAVED SHOULDER. THE OFFSET IS PROVIDED OVER THE LENGTH OF THE TERMINAL SYSTEM FROM THE CENTER OF THE LAST POST SPLICE TO EITHER:
 (1) THE FACE OF THE IMPACT HEAD AT ITS LEADING EDGE (MSKT-SP-MGS), OR
 (2) THE CENTER OF ANCHOR POST 0 (SOFTSTOP OR MAX-TENSION). PROVIDE THE MAXIMUM OFFSET WHERE PRACTICABLE.
3. A REFLECTORIZED OBJECT MARKER SHALL BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
4. SNOW LOAD RAIL WASHERS SHALL NOT BE INSTALLED WITHIN THE TERMINAL LIMITS.



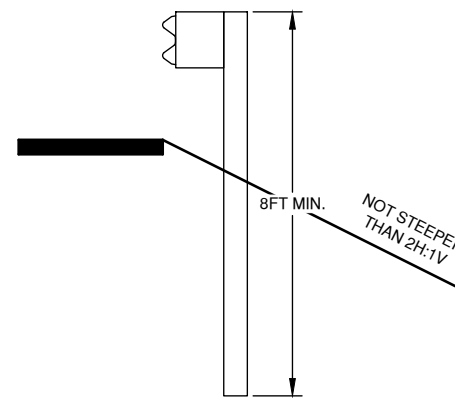
CASE 1



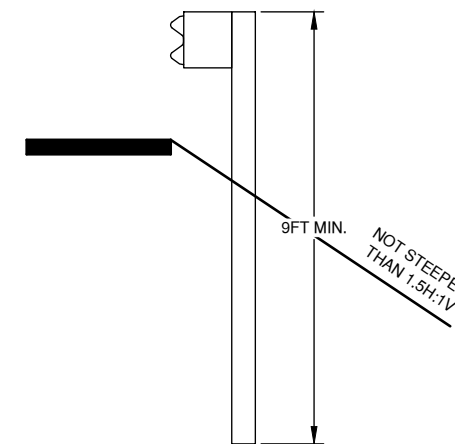
CASE 2



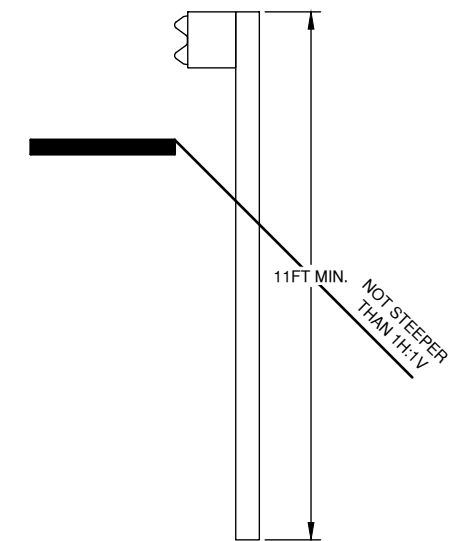
CASE 3



CASE 4



CASE 5



CASE 6

BEAM GUARDRAIL POST INSTALLATION

NOT TO SCALE

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : DJC
 DRAWN BY : KLP
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
 PHASE II**

FEDERAL-AID NO:
 COUNTY ROAD PROJECT NO: 2191B

GUARDRAIL LANDING DETAILS

SHEET
4
 OF
4



Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 2/17/21

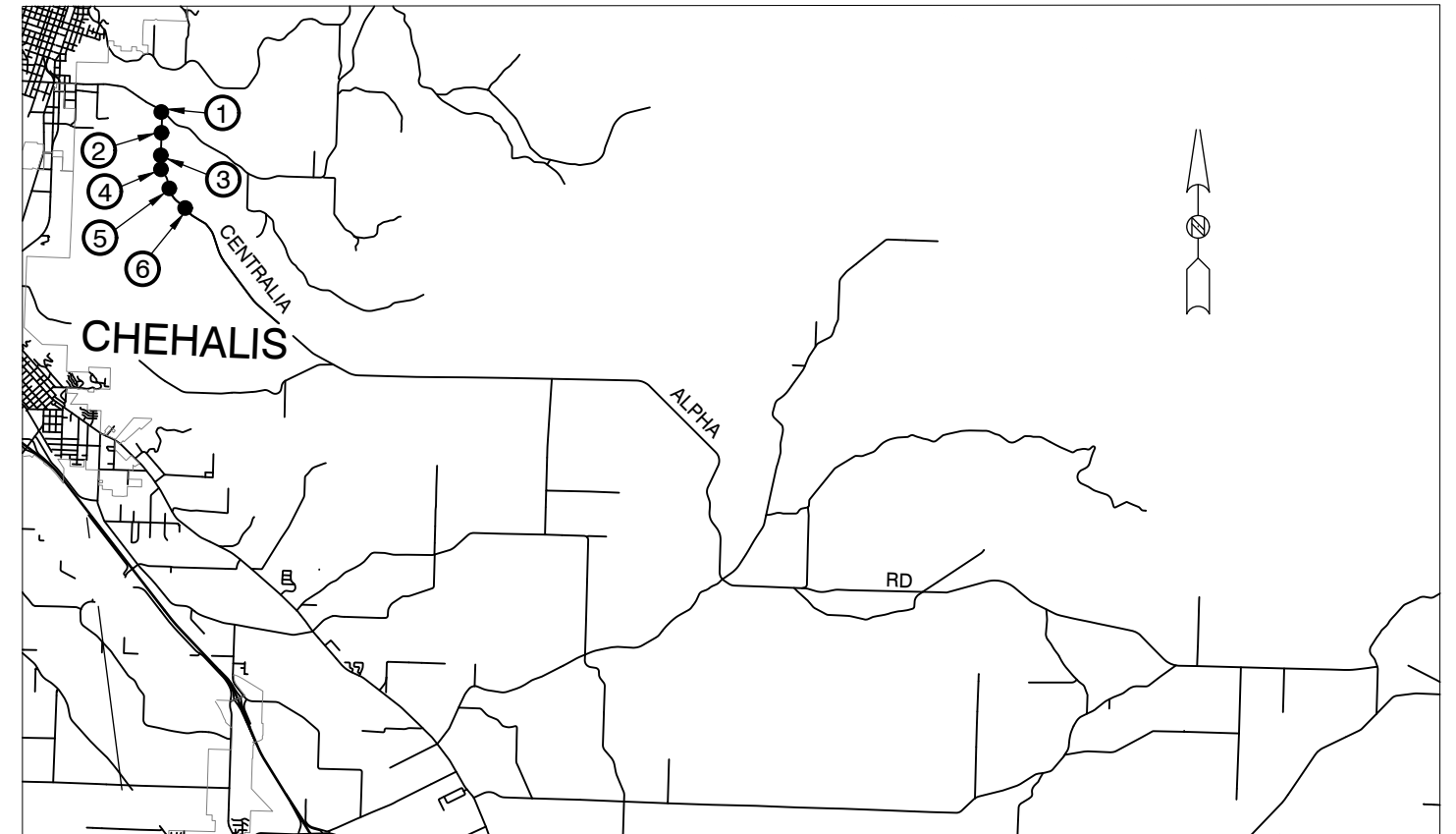


CENTRALIA ALPHA ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	2	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	65	C.Y.
8	0408	SELECT BORROW INCL. HAUL	388	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	0	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	40	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	0	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	1	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	10	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	0	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	997	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	50	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	1785	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	150	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	262.50	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	462.50	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	4	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	4	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	1587.50	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	86	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	30.50	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	0	C.Y.
41	7150	GABION CRIBBING	0	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	0	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2/18/2021 8:39 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD
SUMMARY OF QUANTITIES

SHEET
CA1
OF
CA10



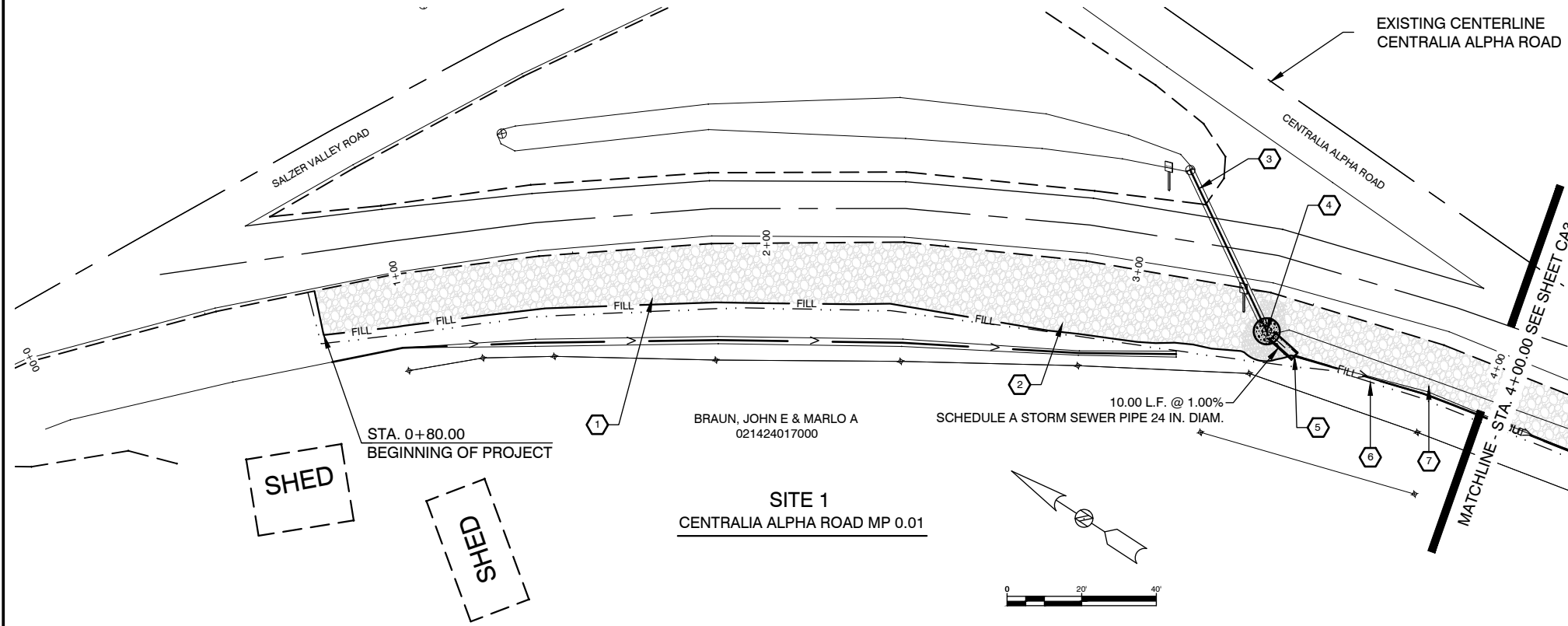
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEAR LIMITS AT TOP OF PROPOSED DITCH BACKSLOPE OR TOE OF FILL SLOPE SEWER LINE NOT LOCATED

2/18/2021 1:24 PM

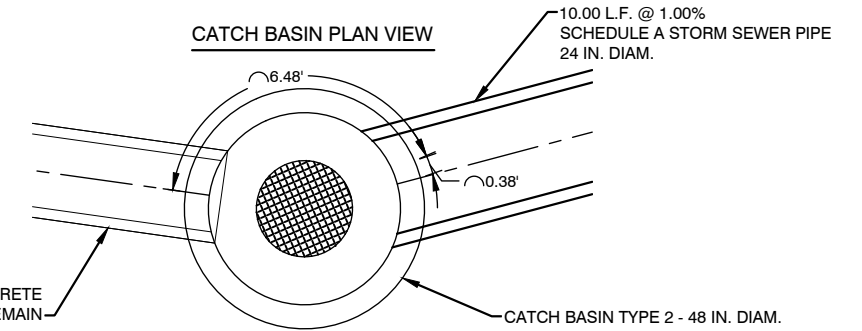


CONSTRUCTION NOTES

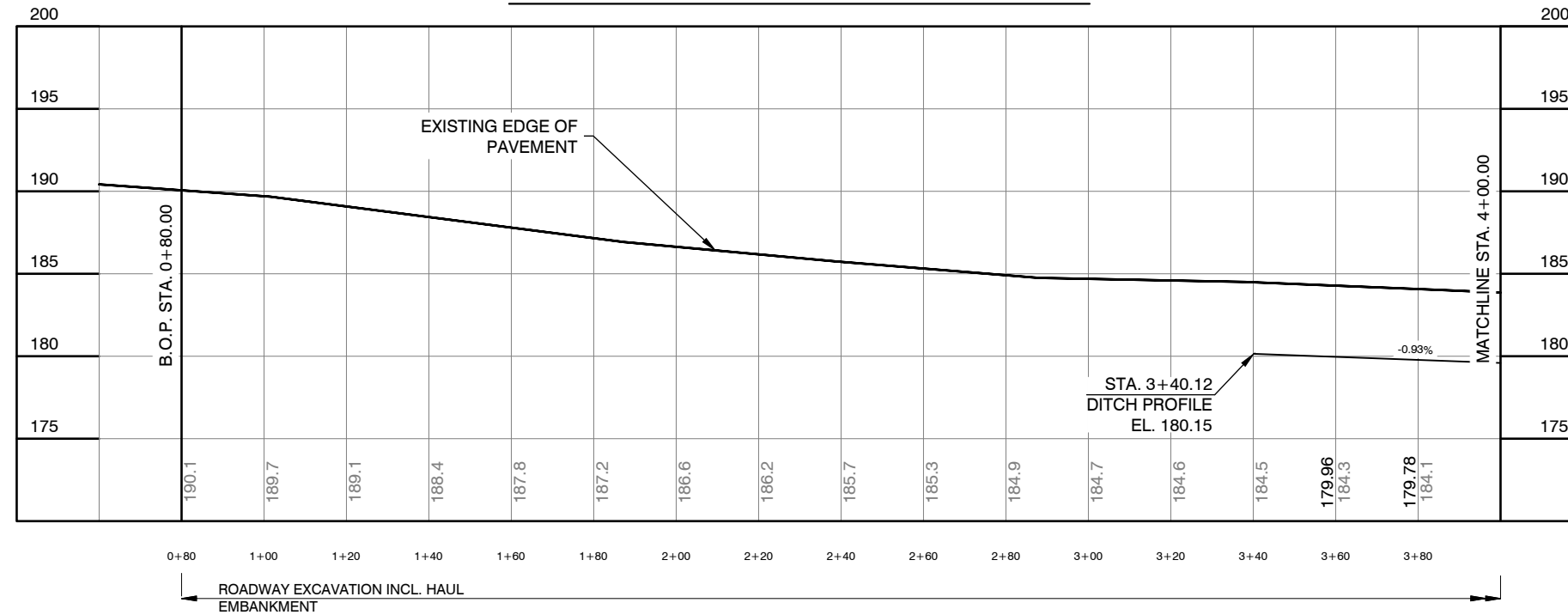
- 1 STA. 0+80.00 TO STA. 2+80.00 CONSTRUCT EMBANKMENT SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 2) ON SHEET 3 OF 4
- 2 STA. 2+80.00 TO STA. 3+40.12 CONSTRUCT EMBANKMENT SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
- 3 EXISTING 18" CONCRETE CULVERT TO REMAIN
- 4 STA. 3+40.12, 10.24' RIGHT (DISTANCE MEASURED TO CENTER OF BASIN) CONSTRUCT CATCH BASIN TYPE 2 - 48 IN. DIAM., WITH CIRCULAR FRAME (RING) AND COVER SEE WSDOT STANDARD PLAN CATCH BASIN TYPE 2 48 IN DIAM., B-10.20 AND CIRCULAR FRAME (RING) AND COVER, B-30.70 SEE CATCH BASIN TYPICAL SECTION ON SHEET CA5 OF CA10 6 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL 25 TON CRUSHED SURFACING BASE COURSE
- 5 STA. 3+42.09 CONSTRUCT SCHEDULE A STORM SEWER PIPE 24" DIAM., 10 L.F. SEE WSDOT STANDARD PLAN B-60.20 INLET INVERT EL. = 180.15 (STA. 3+42.09) 11.15' RT OUTLET INVERT EL. = 180.05 (STA. 3+49.20) 14.47' RT SEE CENTRALIA ALPHA ROAD CULVERT AND BASIN DETAIL ON THIS SHEET 0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

CONSTRUCTION NOTES

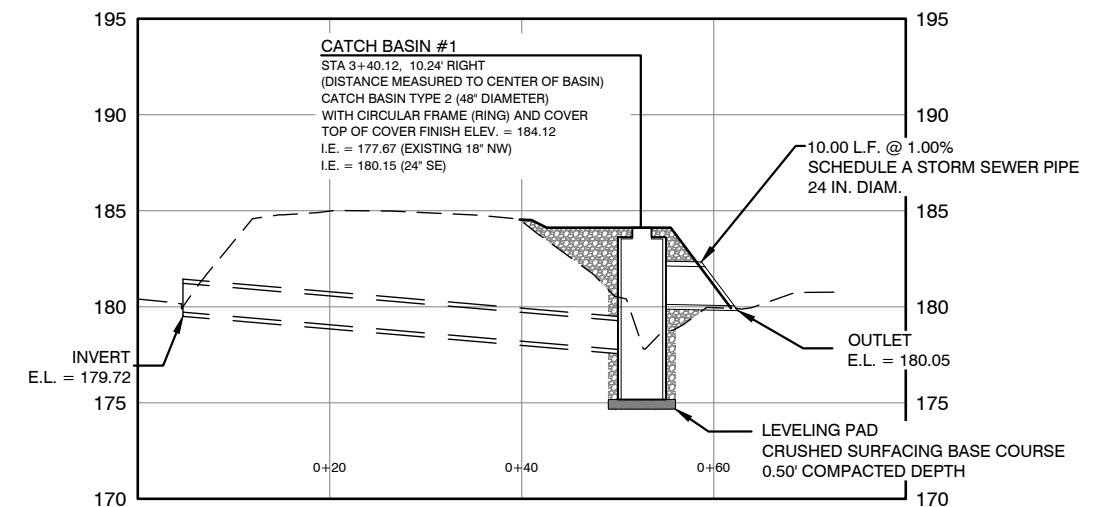
- 6 WATTLE 1060 L.F.
- 7 STA. 3+42.12 TO STA. 10+64.11 CONSTRUCT EMBANKMENT SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 4



CENTRALIA ALPHA ROAD EDGE OF PAVEMENT RIGHT



CENTRALIA ALPHA ROAD CULVERT AND BASIN



VERTICAL: 1" = 5'
SCALE IS FOR FULL SIZE SHEETS

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

Lewis County
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719
Department of Public Works

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY - PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 1

SHEET
CA2
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



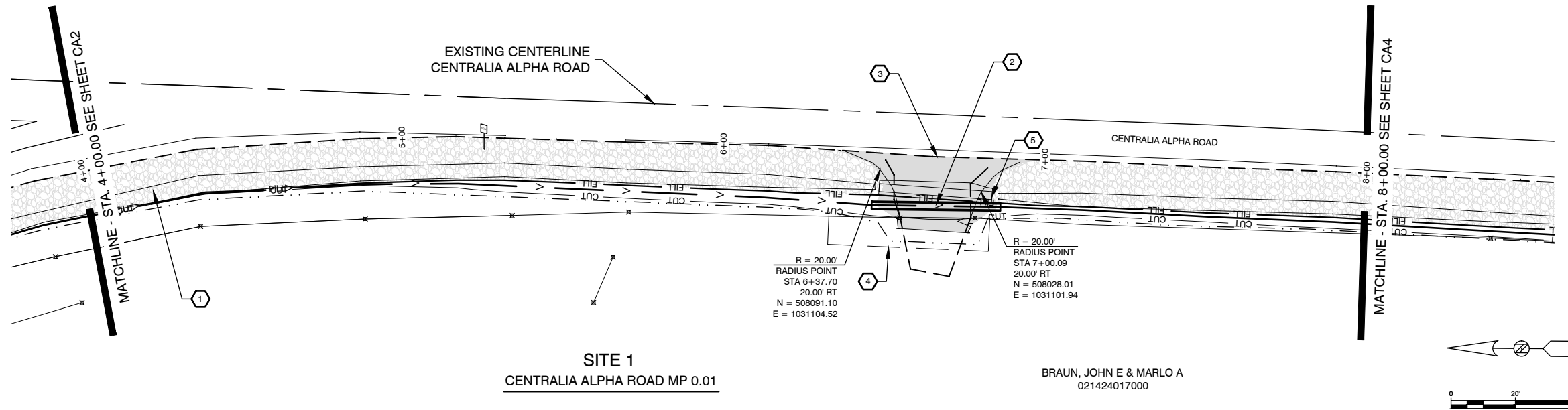
TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEAR LIMITS AT TOP OF PROPOSED DITCH BACKSLOPE OR TOE OF FILL SLOPE SEWER LINE NOT LOCATED

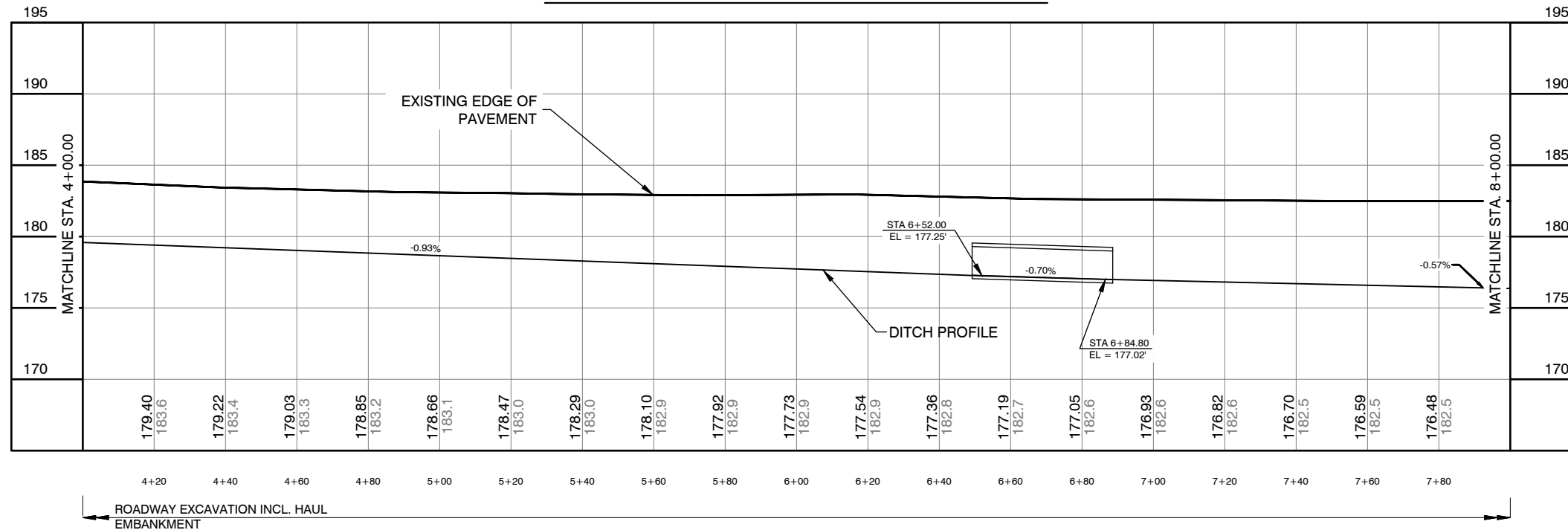
CONSTRUCTION NOTES

- ① STA. 3+40.12 TO STA. 10+64.11 CONSTRUCT EMBANKMENT SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 4
- ② CONSTRUCT CLASS IV REINF. CONC. CULV. PIPE 24 IN. DIAM., 40 L.F. TO BE STAKED IN THE FIELD BY THE ENGINEER INLET INVERT E.L. = 177.30 (STA. 6+49.21) 16.36' RIGHT OUTLET INVERT E.L. = 176.99 (STA. 6+88.60) 14.99' RIGHT 30 TON CRUSHED SURFACING BASE COURSE 1 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
- ③ STA. 6+68.50 CONSTRUCT APPROACH 23' RT END OF APPROACH TO MATCH EXISTING GROUND TOTAL WIDTH AT END OF APPROACH = 19.54' 30 TON CRUSHED SURFACING BASE COURSE
- ④ TEMPORARY CONSTRUCTION EASEMENT
- ⑤ REMOVE EXISTING CULVERT 23 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL 43 TON CRUSHED SURFACING BASE COURSE

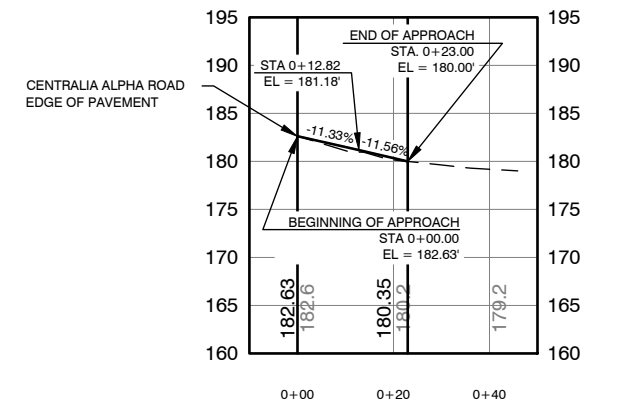
NOTE: APPROACH SLOPES WILL BE 2:1 LEFT AND RIGHT



CENTRALIA ALPHA ROAD EDGE OF PAVEMENT RIGHT



FIELD APPROACH STA 6+68.50



VERTICAL: 1" = 5'
SCALE IS FOR FULL SIZE SHEETS

2/18/2021 8:49 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

Lewis County
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719
Department of Public Works

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY - PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 1

SHEET
CA3
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

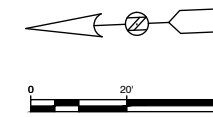
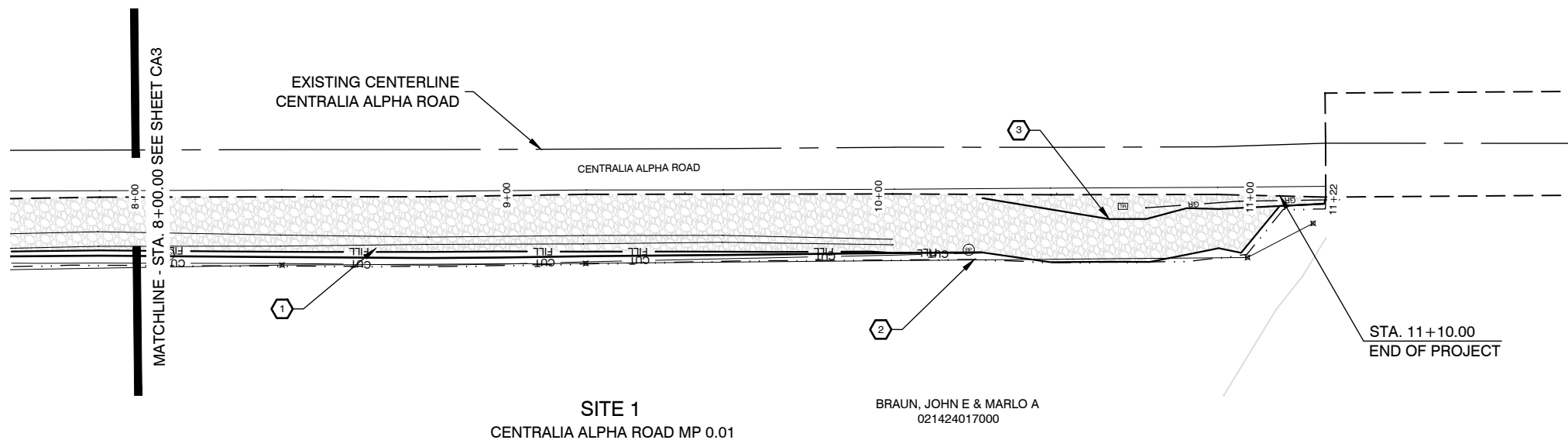


TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

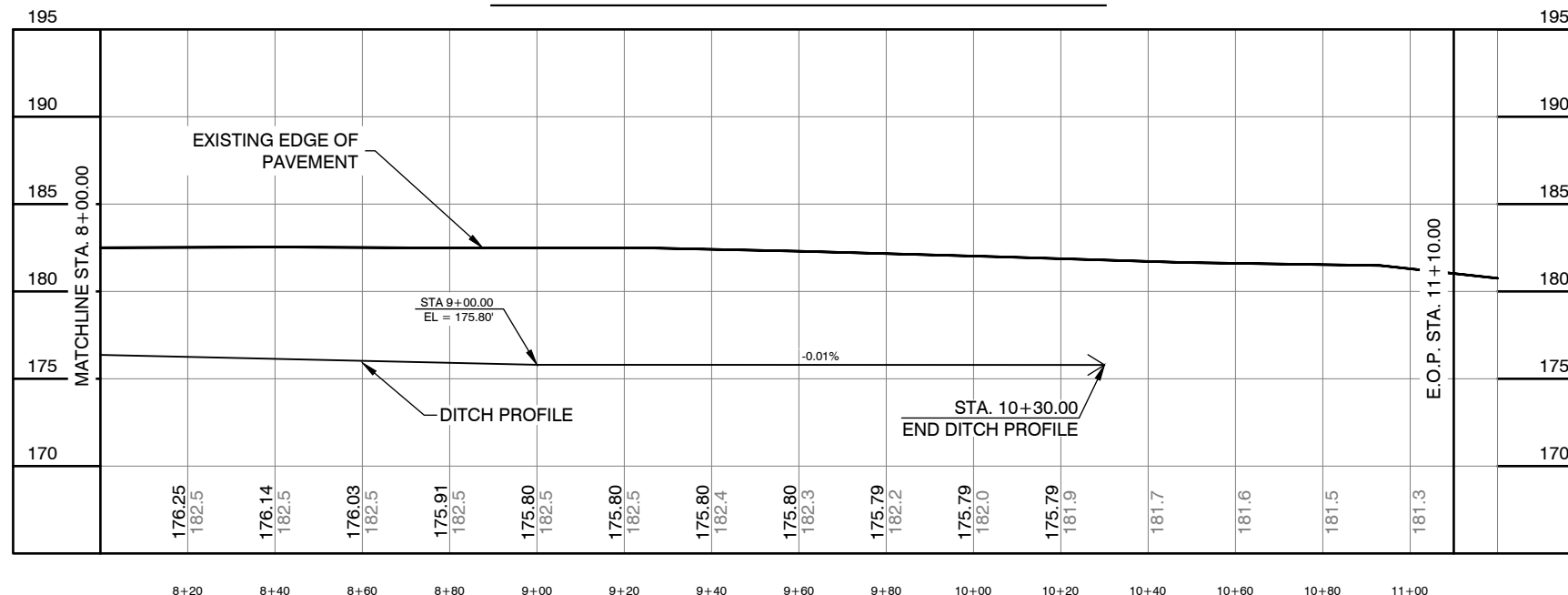
ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEAR LIMITS AT TOP OF PROPOSED DITCH BACKSLOPE OR TOE OF FILL SLOPE SEWER LINE NOT LOCATED

CONSTRUCTION NOTES

- ① STA. 3+40.12 TO STA. 10+64.11 CONSTRUCT EMBANKMENT SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 4
- ② STA. 10+30.00 END V-BOTTOM DITCH
- ③ STA. 10+64.11 TO STA. 11+10.00 CONSTRUCT LANDING FOR EXISTING GUARDRAIL SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4



CENTRALIA ALPHA ROAD EDGE OF PAVEMENT RIGHT



ROADWAY EXCAVATION INCL. HAUL EMBANKMENT

65 C.Y.
692 C.Y.
(417.58 C.Y. X 1.65 = 690 TONS C.S.B.C.)
(254.87 C.Y. X 1.50 = 388 TONS SELECT BORROW)
(19.07 C.Y. X 1.85 = 35 TONS C.S.T.C. (KEYSTONE))

2/18/2021 8:51 AM
S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY - PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 1

SHEET
CA4
OF
CA10



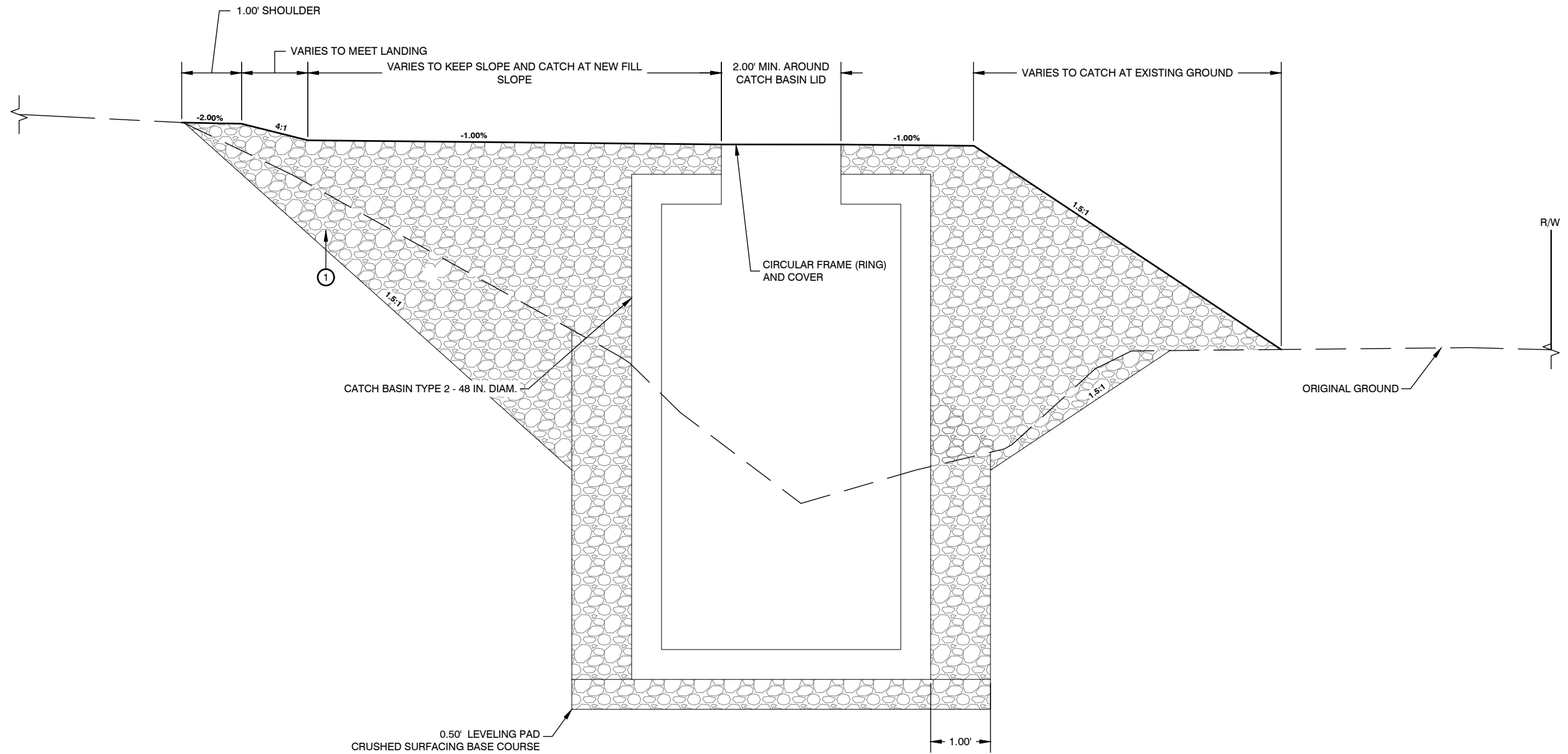
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/18/2021 8:53 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\Centralia - Alpha (HSIP)\CEN ALPHA MP 0.05 DESIGN NEW.dwg

① CRUSHED SURFACING BASE COURSE, COMPACTED DEPTH VARIES



CATCH BASIN TYPICAL SECTION
NOT TO SCALE

Lewis County
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719
Department of Public Works

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

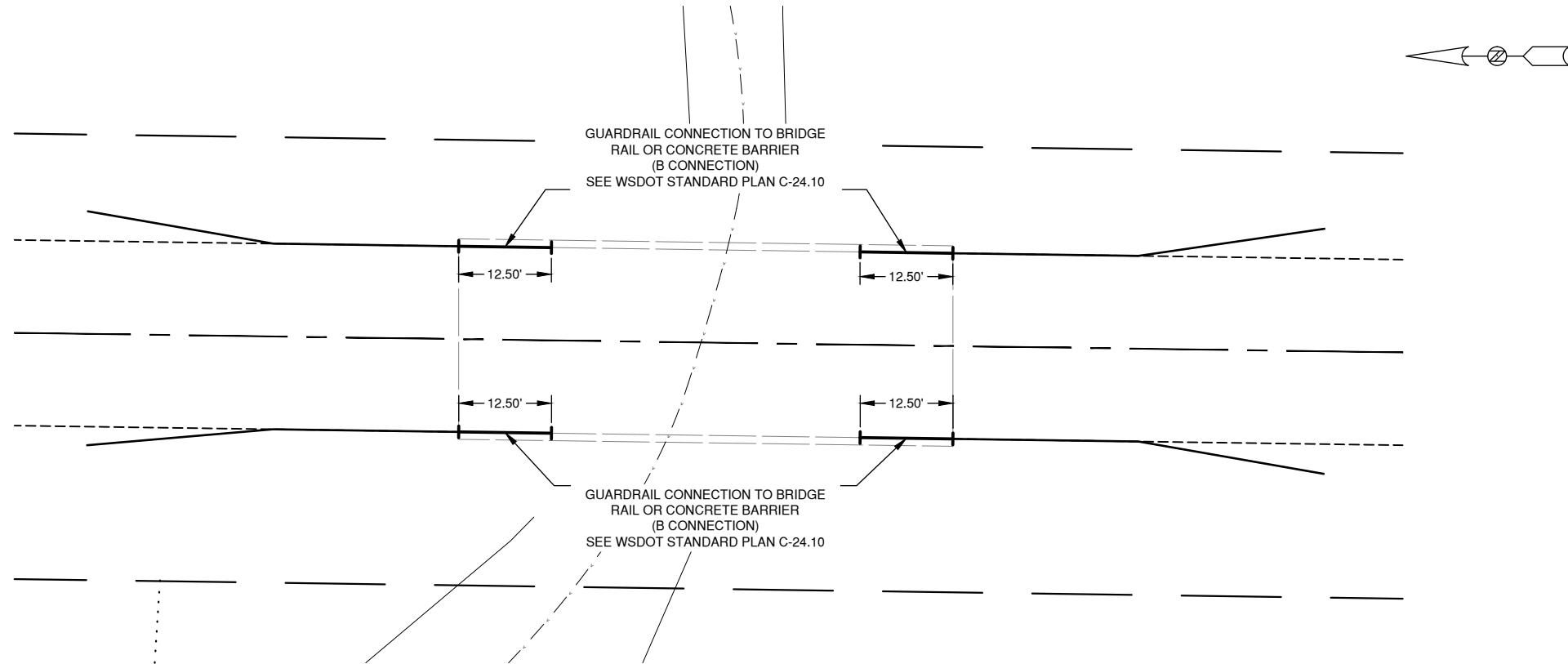
FEDERAL-AID NO: HSP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD CATCH BASIN
DETAILS

SHEET
CA5
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21





SITE 2
CENTRALIA ALPHA ROAD MP 0.17
NOT TO SCALE

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 2

SHEET
CA6
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



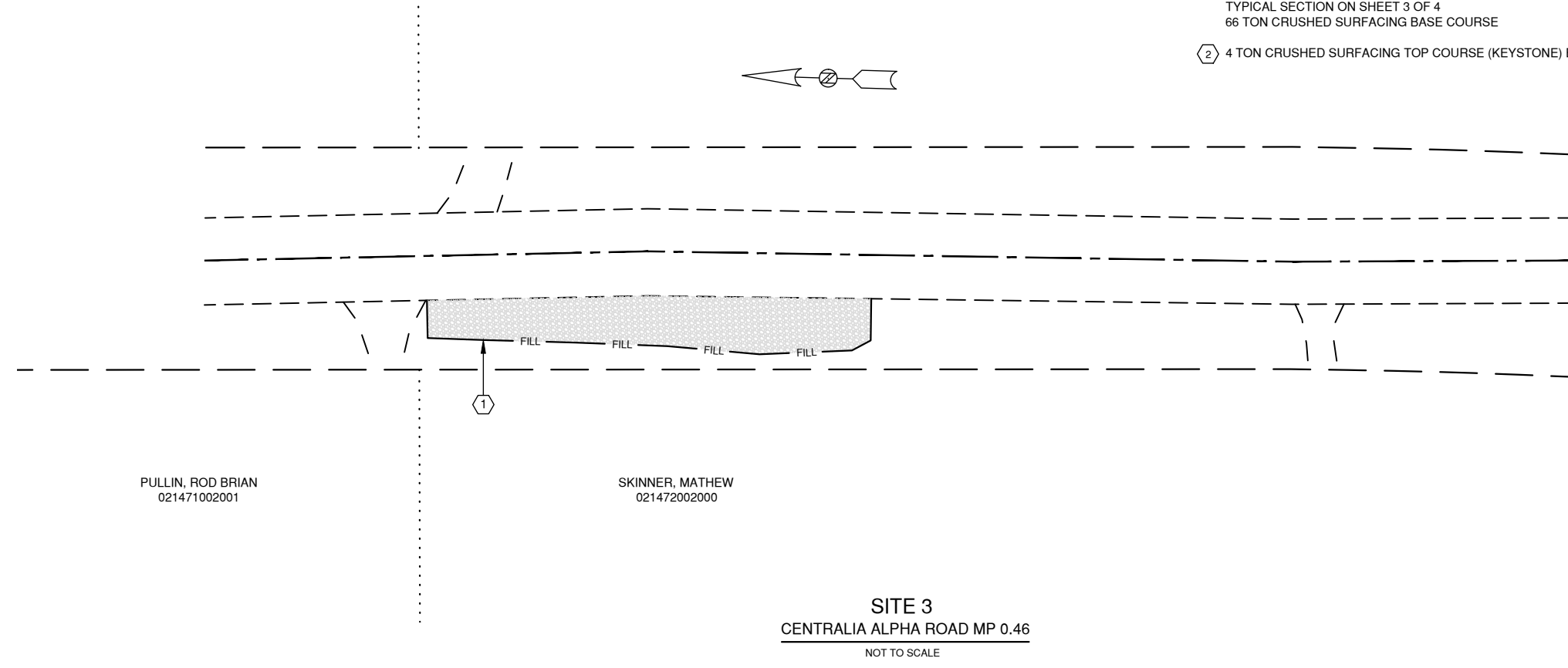
TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

2/18/2021 9:16 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\CENTRALIA ALPHA RD\CENTRALIA ALPHA ROAD SITE 1-9.dwg

- CONSTRUCTION NOTES**
- ① CONSTRUCT EMBANKMENT TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 2) AND SHOULDER GRADING
TYPICAL SECTION ON SHEET 3 OF 4
66 TON CRUSHED SURFACING BASE COURSE
 - ② 4 TON CRUSHED SURFACING TOP COURSE (KEYSTONE) ENTIRE SITE



PULLIN, ROD BRIAN
021471002001

SKINNER, MATHEW
021472002000

SITE 3
CENTRALIA ALPHA ROAD MP 0.46
NOT TO SCALE

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 3

SHEET
CA7
OF
CA10



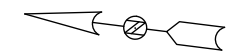
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY

CONSTRUCTION NOTES
① RAISE EXISTING BEAM GUARDRAIL
1025 L.F. RAISING EXISTING BEAM GUARDRAIL



MATCHLINE - SEE THIS SHEET

ENGEL, LARRY
021677005000

SKINNER, MATHEW
021472002000

1025.00'

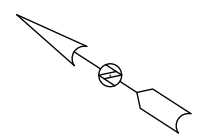
SITE 4
CENTRALIA ALPHA ROAD MP 0.56
NOT TO SCALE

MATCHLINE - SEE THIS SHEET

ENGEL, LARRY
021677005000

ENGEL, LARRY
021677005000

1025.00'



2/18/2021 9:19 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\CENTRALIA ALPHA RD\CENTRALIA ALPHA ROAD SITE 1-9.dwg

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 4

SHEET
CA8
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



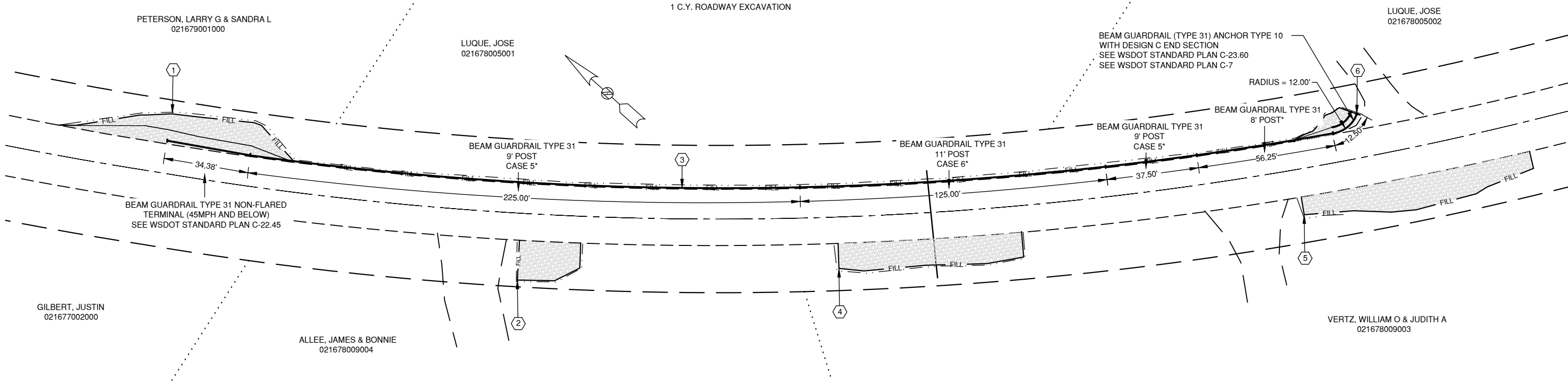
TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4

- CONSTRUCTION NOTES**
- 1 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
48 TON CRUSHED SURFACING BASE COURSE
 - 2 CONSTRUCT EMBANKMENT TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 2) ON SHEET 3 OF 4
5 TON CRUSHED SURFACING BASE COURSE
1 C.Y. ROADWAY EXCAVATION
 - 3 CONSTRUCT SHOULDER FINISHING
1 TON CRUSHED SURFACING BASE COURSE
 - 4 CONSTRUCT EMBANKMENT TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 3) ON SHEET 3 OF 4
5 TON CRUSHED SURFACING BASE COURSE
1 C.Y. ROADWAY EXCAVATION

- CONSTRUCTION NOTES**
- 5 CONSTRUCT EMBANKMENT TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
15 TON CRUSHED SURFACING BASE COURSE
 - 6 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
3 TON CRUSHED SURFACING BASE COURSE
 - 7 WATTLE
723 L.F. ENTIRE SITE
 - 8 8 TON CRUSHED SURFACING TOP COURSE (KEYSTONE) ENTIRE SITE



SITE 5
CENTRALIA ALPHA ROAD MP 0.98
NOT TO SCALE

2/18/2021 9:23 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\CENTRALIA ALPHA RD\CENTRALIA ALPHA ROAD SITE 1-9.dwg

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 5

SHEET
CA9
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

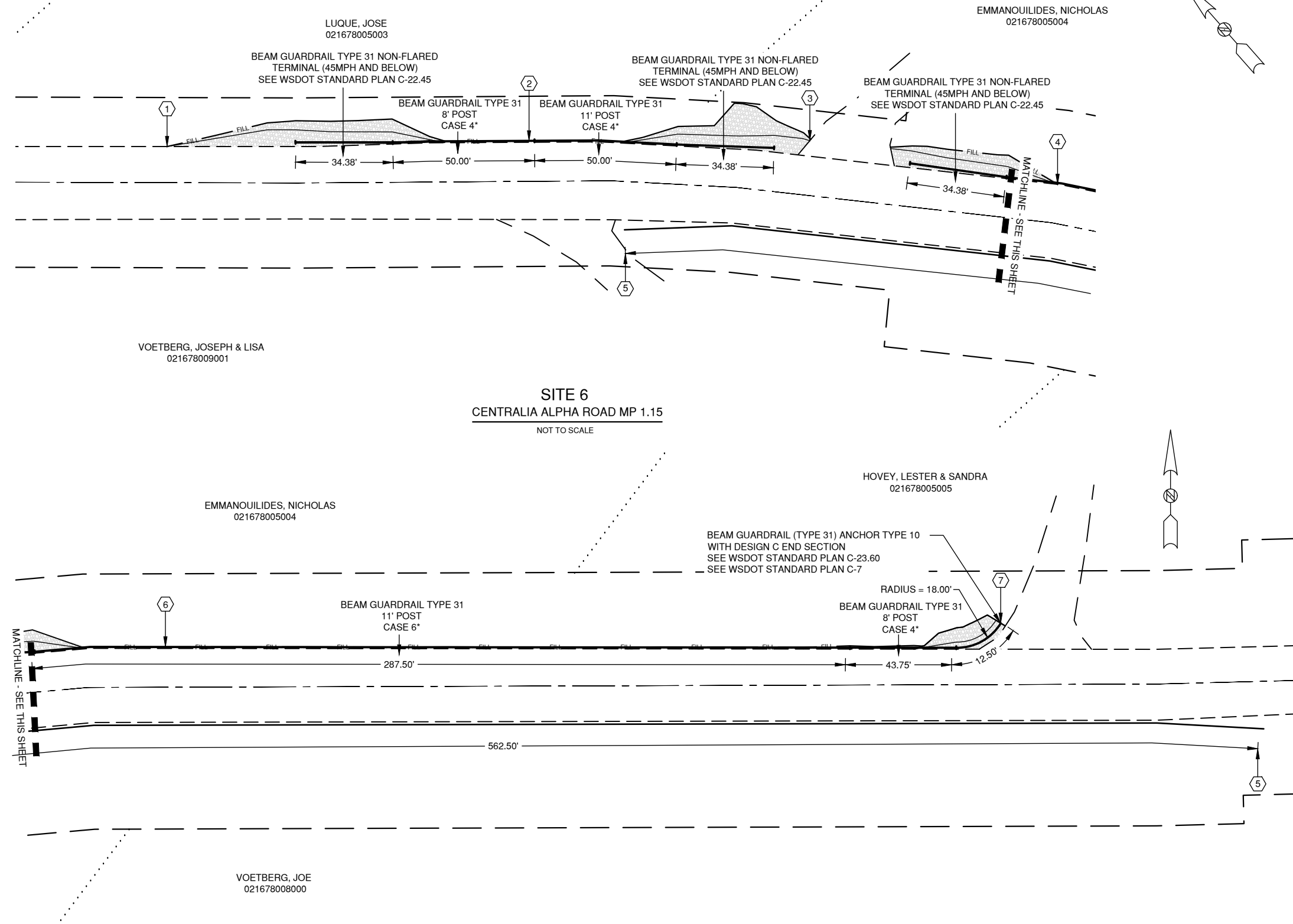


TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4

2/18/2021 9:26 AM



- CONSTRUCTION NOTES**
- ① CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
12 TON CRUSHED SURFACING BASE COURSE
 - ② CONSTRUCT SHOULDER FINISHING
1 TON CRUSHED SURFACING BASE COURSE
 - ③ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
STEEPEN SLOPE WHEN NECESSARY TO CATCH WITHIN ROW
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
12 TON CRUSHED SURFACING BASE COURSE
 - ④ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
5 TON CRUSHED SURFACING BASE COURSE
 - ⑤ RAISE EXISTING BEAM GUARDRAIL
562.50 L.F. RAISING EXISTING BEAM GUARDRAIL
 - ⑥ CONSTRUCT SHOULDER FINISHING
1 TON CRUSHED SURFACING BASE COURSE
 - ⑦ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
5 TON CRUSHED SURFACING BASE COURSE
 - ⑧ 3 TON CRUSHED SURFACING TOP COURSE (KEYSTONE) ENTIRE SITE

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\CENTRALIA ALPHA RD\CENTRALIA ALPHA ROAD SITE 1-9.dwg

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
CENTRALIA ALPHA ROAD SITE 6

SHEET
CA10
OF
CA10



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

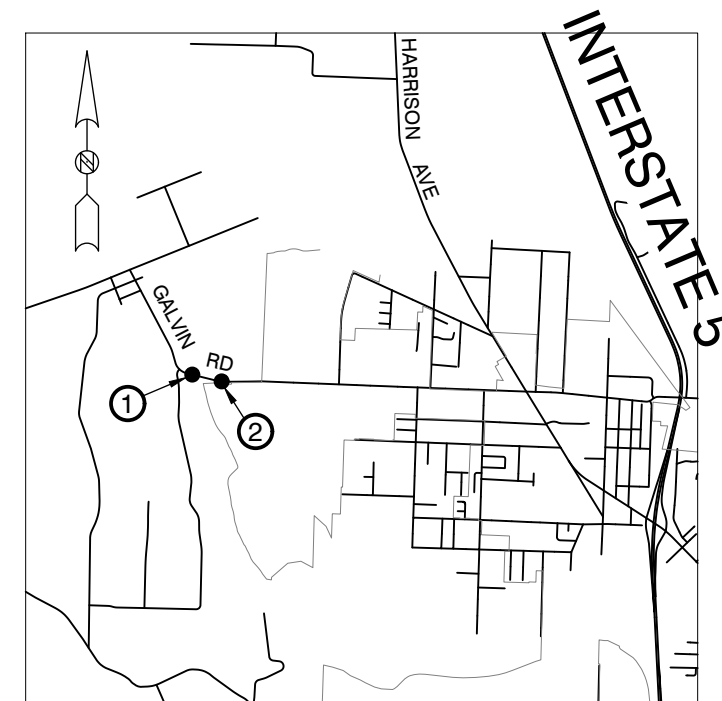


GALVIN ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	0	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	0	C.Y.
8	0408	SELECT BORROW INCL. HAUL	0	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	0	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	0	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	0	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	0	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	0	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	0	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	0	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	0	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	6	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	0	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	0	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	2	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	0	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	0	C.Y.
41	7150	GABION CRIBBING	0	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	0	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2/18/2021 9:50 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
GALVIN ROAD
SUMMARY OF QUANTITIES

SHEET
G1
OF
G3



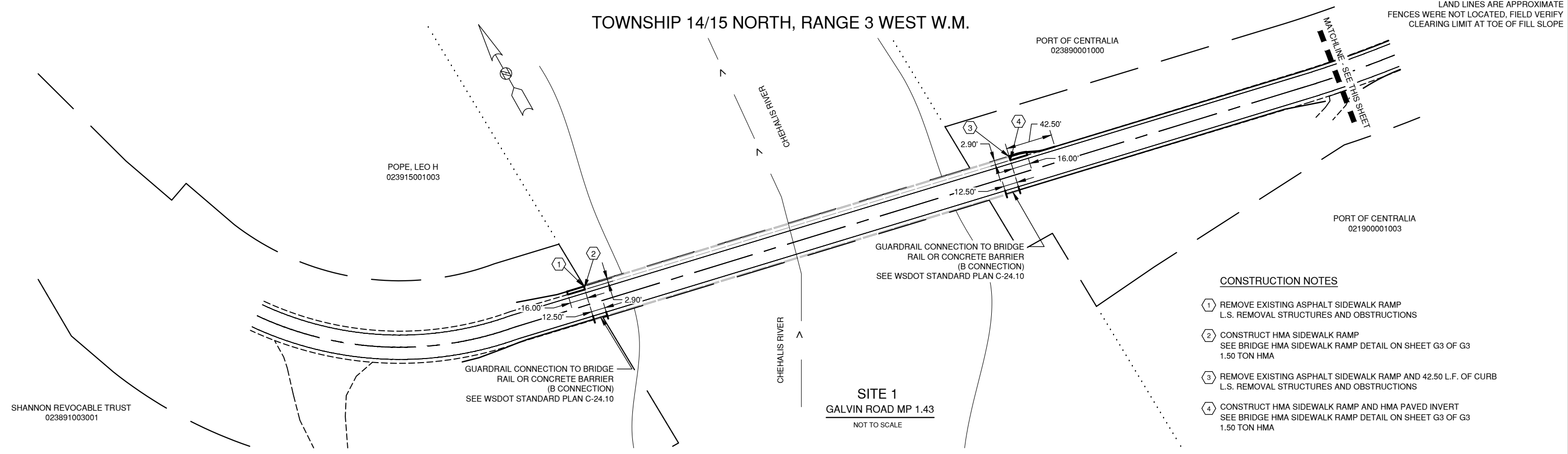
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/18/2021 9:51 AM

TOWNSHIP 14/15 NORTH, RANGE 3 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

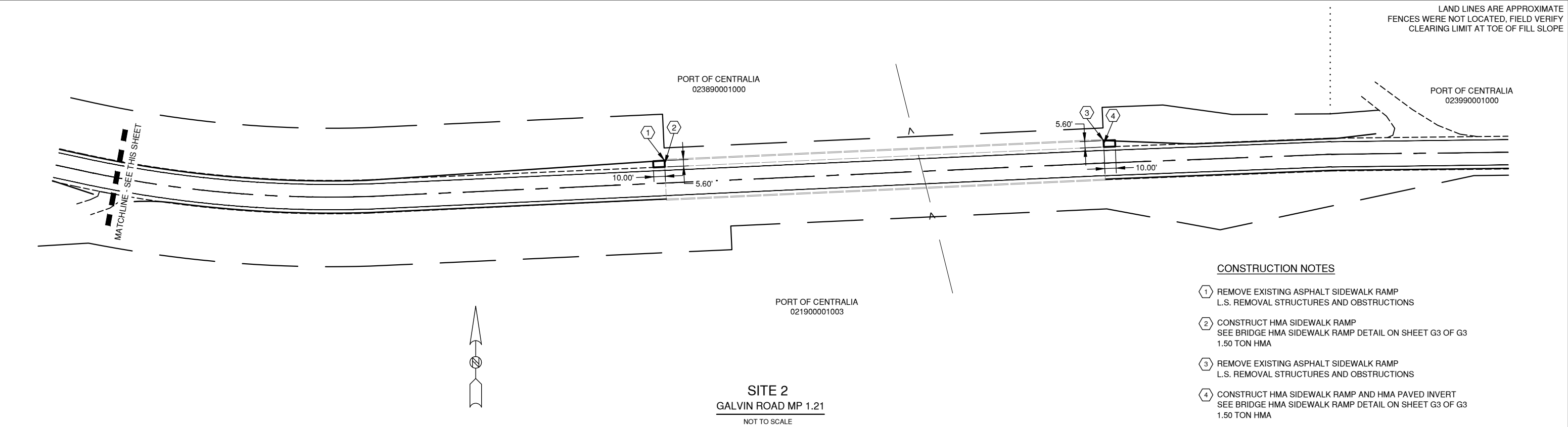


SITE 1
GALVIN ROAD MP 1.43
NOT TO SCALE

CONSTRUCTION NOTES

- ① REMOVE EXISTING ASPHALT SIDEWALK RAMP
L.S. REMOVAL STRUCTURES AND OBSTRUCTIONS
- ② CONSTRUCT HMA SIDEWALK RAMP
SEE BRIDGE HMA SIDEWALK RAMP DETAIL ON SHEET G3 OF G3
1.50 TON HMA
- ③ REMOVE EXISTING ASPHALT SIDEWALK RAMP AND 42.50 L.F. OF CURB
L.S. REMOVAL STRUCTURES AND OBSTRUCTIONS
- ④ CONSTRUCT HMA SIDEWALK RAMP AND HMA PAVED INVERT
SEE BRIDGE HMA SIDEWALK RAMP DETAIL ON SHEET G3 OF G3
1.50 TON HMA

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



SITE 2
GALVIN ROAD MP 1.21
NOT TO SCALE

CONSTRUCTION NOTES

- ① REMOVE EXISTING ASPHALT SIDEWALK RAMP
L.S. REMOVAL STRUCTURES AND OBSTRUCTIONS
- ② CONSTRUCT HMA SIDEWALK RAMP
SEE BRIDGE HMA SIDEWALK RAMP DETAIL ON SHEET G3 OF G3
1.50 TON HMA
- ③ REMOVE EXISTING ASPHALT SIDEWALK RAMP
L.S. REMOVAL STRUCTURES AND OBSTRUCTIONS
- ④ CONSTRUCT HMA SIDEWALK RAMP AND HMA PAVED INVERT
SEE BRIDGE HMA SIDEWALK RAMP DETAIL ON SHEET G3 OF G3
1.50 TON HMA

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\GALVIN RD\GALVIN ROAD SITE 1.dwg

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

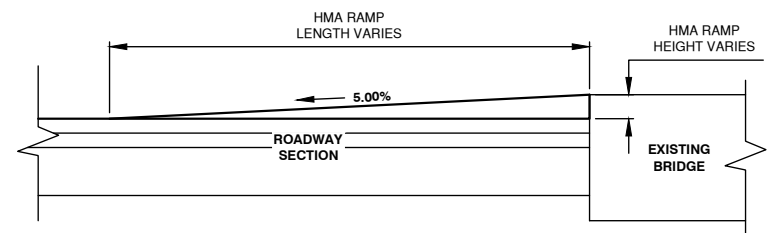
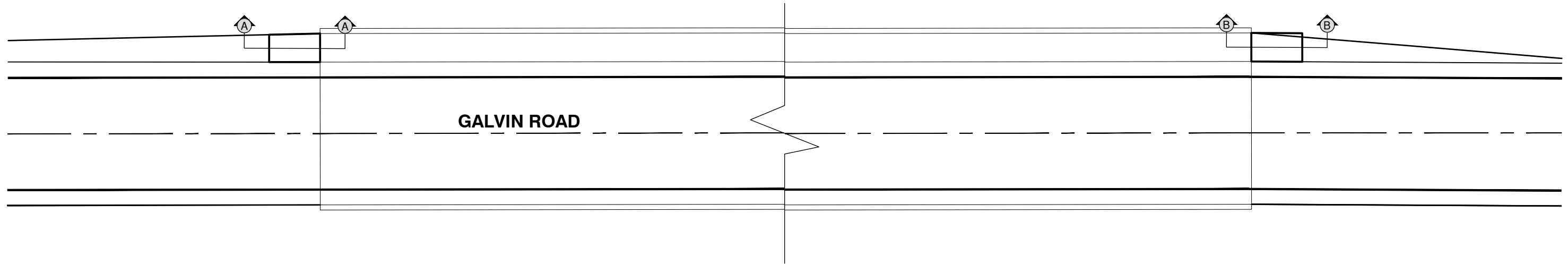
FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
GALVIN ROAD SITE 1 & 2

SHEET
G2
OF
G3



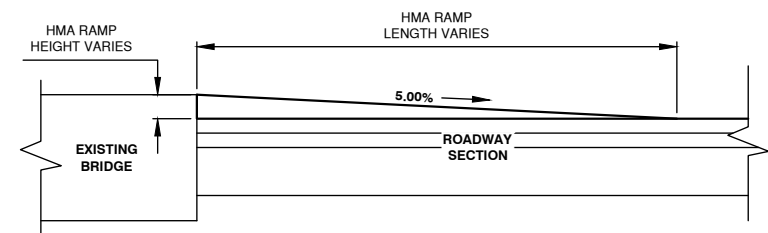
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21





SECTION A-A
NOT TO SCALE

BRIDGE HMA SIDEWALK RAMP DETAIL
NOT TO SCALE



SECTION B-B
NOT TO SCALE

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
GALVIN ROAD
HMA SIDEWALK RAMP DETAIL

SHEET
G3
OF
G3



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

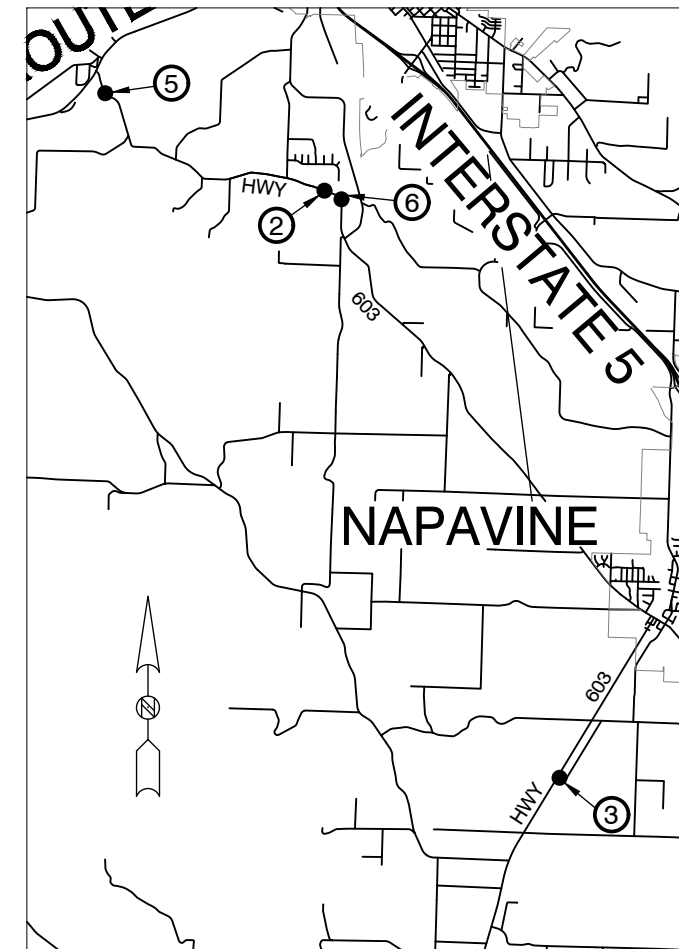


HWY 603

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	0	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	0	C.Y.
8	0408	SELECT BORROW INCL. HAUL	0	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	122	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	0	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	0	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	0	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	0	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	12	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	333	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	8	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	435	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	712.50	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	237.50	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	62.50	EACH
27	6755	BEAM GUARDRAIL BLOCK	100	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	7	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	137.50	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	1	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	437.5	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	117	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	35.50	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	10	C.Y.
41	7150	GABION CRIBBING	13	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	1	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2/18/2021 9:53 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B

HWY 603
SUMMARY OF QUANTITIES

SHEET
HY1
OF
HY8



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/18/2021 9:54 AM

TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

CONSTRUCTION NOTES

- 1 CONSTRUCT LANDING
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
50 TON CRUSHED SURFACING BASE COURSE
- 2 CONSTRUCT SCHEDULE A CULVERT PIPE 12 IN. DIAM.
PIPE IS TO LAY IN EXISTING DITCH UNDER GUARDRAIL LANDING
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
35 L.F. SCHEDULE A CULV. PIPE 18 IN. DIAM.
1 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

CONSTRUCTION NOTES

- 3 CONSTRUCT LANDING
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
44 TON CRUSHED SURFACING BASE COURSE
- 4 CONSTRUCT SCHEDULE A CULVERT PIPE 12 IN. DIAM.
PIPE IS TO LAY IN EXISTING DITCH UNDER GUARDRAIL LANDING
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
47 L.F. SCHEDULE A CULV. PIPE
1 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

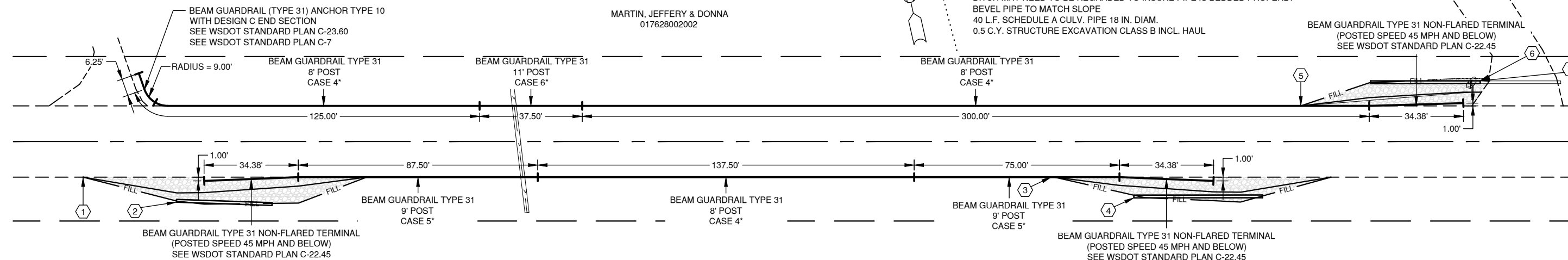
CONSTRUCTION NOTES

- 5 CONSTRUCT LANDING
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
36 TON CRUSHED SURFACING BASE COURSE
- 6 RELOCATE EXISTING MAILBOX
SEE WSDOT STANDARD PLAN H-70.10
1.00 EACH MAILBOX SUPPORT TYPE 1
- 7 EXTEND EXISTING 12 IN CORRUGATED POLYETHYLENE APPROACH CULVERT PIPE
CONNECT TO EXISTING PIPE
SEE WSDOT STANDARD PLAN B-60.20
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
BEVEL PIPE TO MATCH SLOPE
40 L.F. SCHEDULE A CULV. PIPE 18 IN. DIAM.
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

CONSTRUCTION NOTES

- 8 3 TON CRUSHED SURFACING TOP COURSE (KEYSTONE)
ENTIRE SITE

WENDA MARIE CORONEL TRUST ET AL
017635000000



SITE 2
HWY 603 MP 2.50
NOT TO SCALE

NOTE*:
FACE OF GUARDRAIL IS TO REMAIN 1.00' FROM EDGE OF HMA

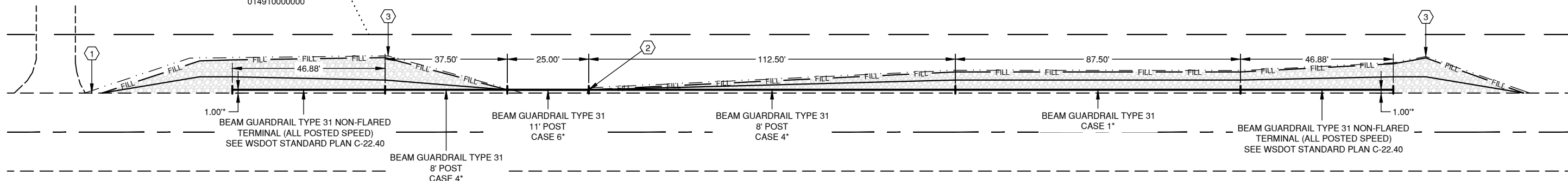
TOWNSHIP 12 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

MORTON, PATRICIA
014897000000

MORRISON, TODD
014910000000

NOTE:
SEE WSDOT STANDARD PLAN C-20.10-05
SEE WSDOT STANDARD PLAN C-1b



SITE 3
HWY 603 MP 9.23
NOT TO SCALE

NOTE*:
FACE OF GUARDRAIL IS TO REMAIN 1.00' FROM EDGE OF HMA

CONSTRUCTION NOTES

- 1 CONSTRUCT LANDING
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
44 TON CRUSHED SURFACING BASE COURSE
- 2 CONSTRUCT LANDING
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
49 TON CRUSHED SURFACING BASE COURSE

CONSTRUCTION NOTES

- 3 WATTLE
435 L.F.
- 4 3 TON CRUSHED SURFACING TOP COURSE (KEYSTONE)
ENTIRE SITE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
HIGHWAY 603 SITE 2 & 3

SHEET
HY2
OF
HY8

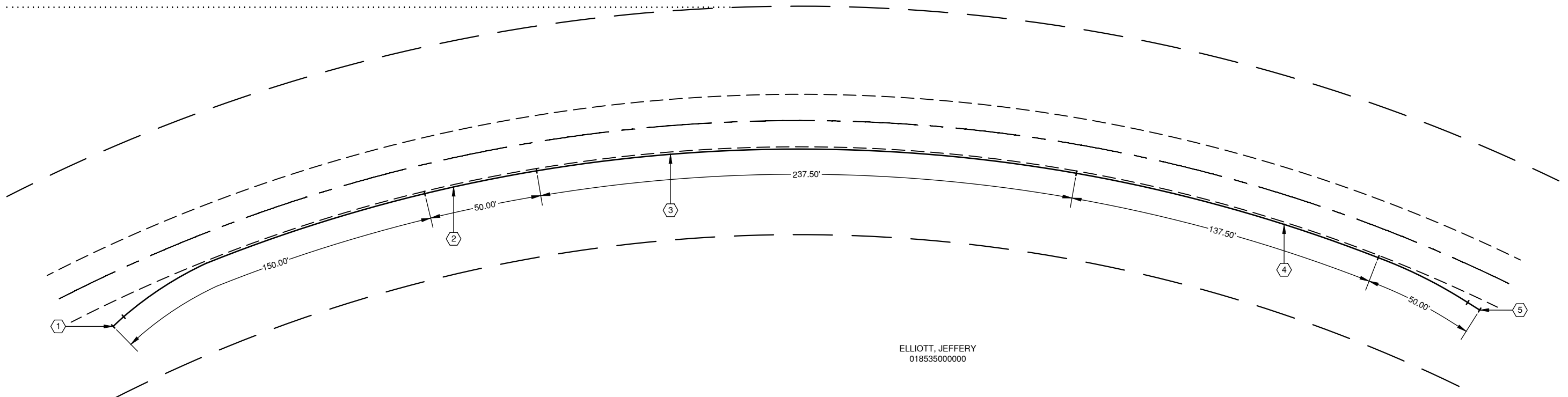
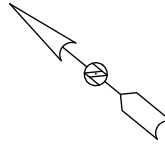


Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



TOWNSHIP 13 NORTH, RANGE 3 WEST W.M.

2/18/2021 9:55 AM



ELLIOTT, JEFFERY
018535000000

- CONSTRUCTION NOTES**
- ① RAISE EXISTING BEAM GUARDRAIL AND ANCHOR
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
150 L.F. RAISING EXISTING BEAM GUARDRAIL (INCLUDING BEAM GUARDRAIL ANCHOR)
24 EACH BEAM GUARDRAIL BLOCK
 - ② REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
8 EACH BEAM GUARDRAIL BLOCK
 - ③ RAISE EXISTING BEAM GUARDRAIL
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
237.50 L.F. RAISING EXISTING BEAM GUARDRAIL
38 EACH BEAM GUARDRAIL BLOCK

- CONSTRUCTION NOTES**
- ④ REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
22 EACH BEAM GUARDRAIL BLOCK
 - ⑤ RAISE EXISTING BEAM GUARDRAIL AND ANCHOR
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
50 L.F. RAISING EXISTING BEAM GUARDRAIL (INCLUDING BEAM GUARDRAIL ANCHOR)
8 BEAM GUARDRAIL BLOCK

SITE 5
HWY 603 MP 0.28
NOT TO SCALE

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\HWY 603\HWY 603 SITE 1,2 &4.dwg

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
HWY 603 SITE 5

SHEET
HY3
OF
HY8

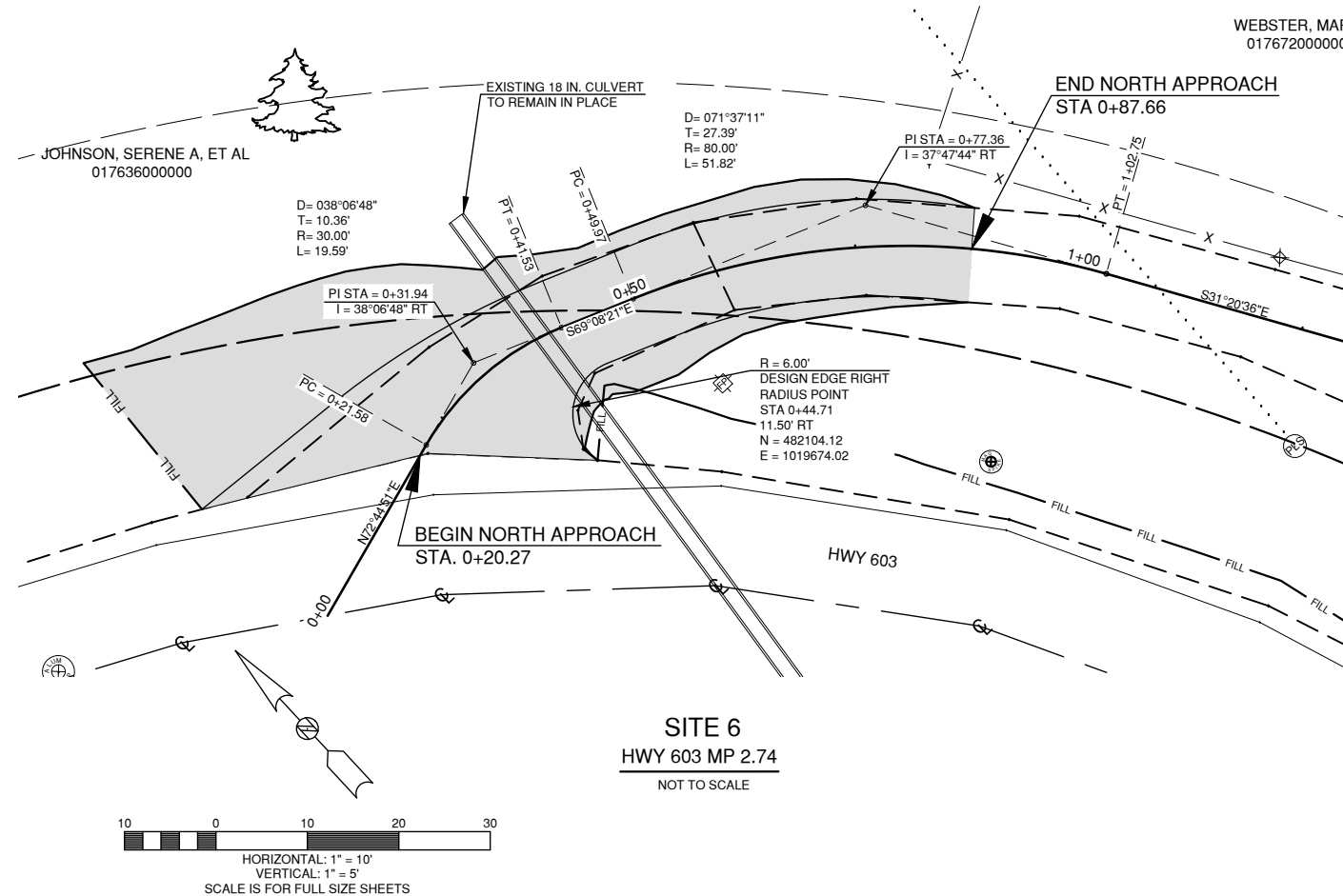


Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



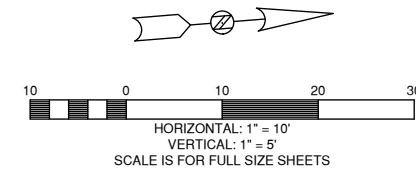
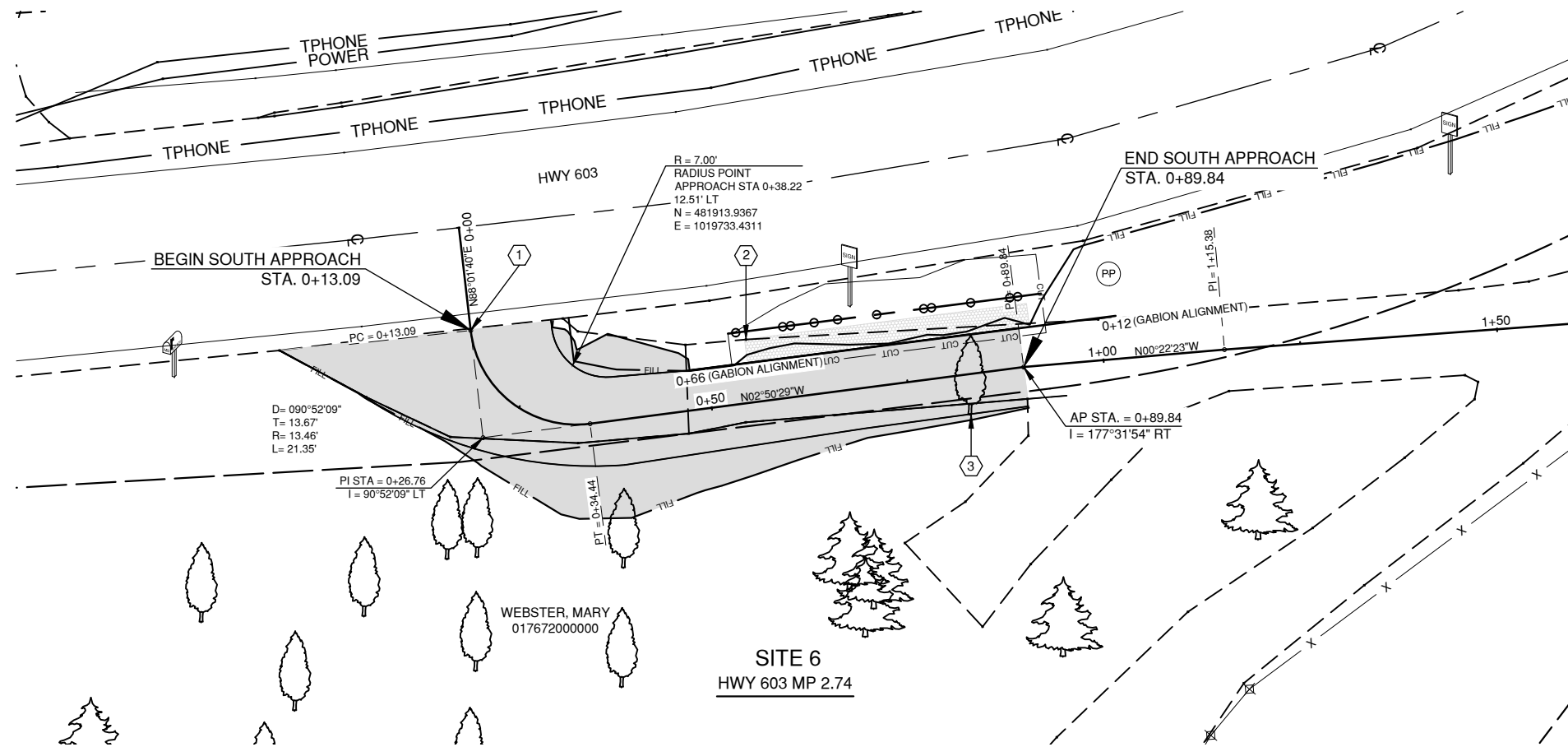
TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEAR LIMITS AT TOE OF FILL SLOPE



TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

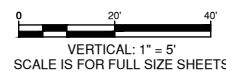
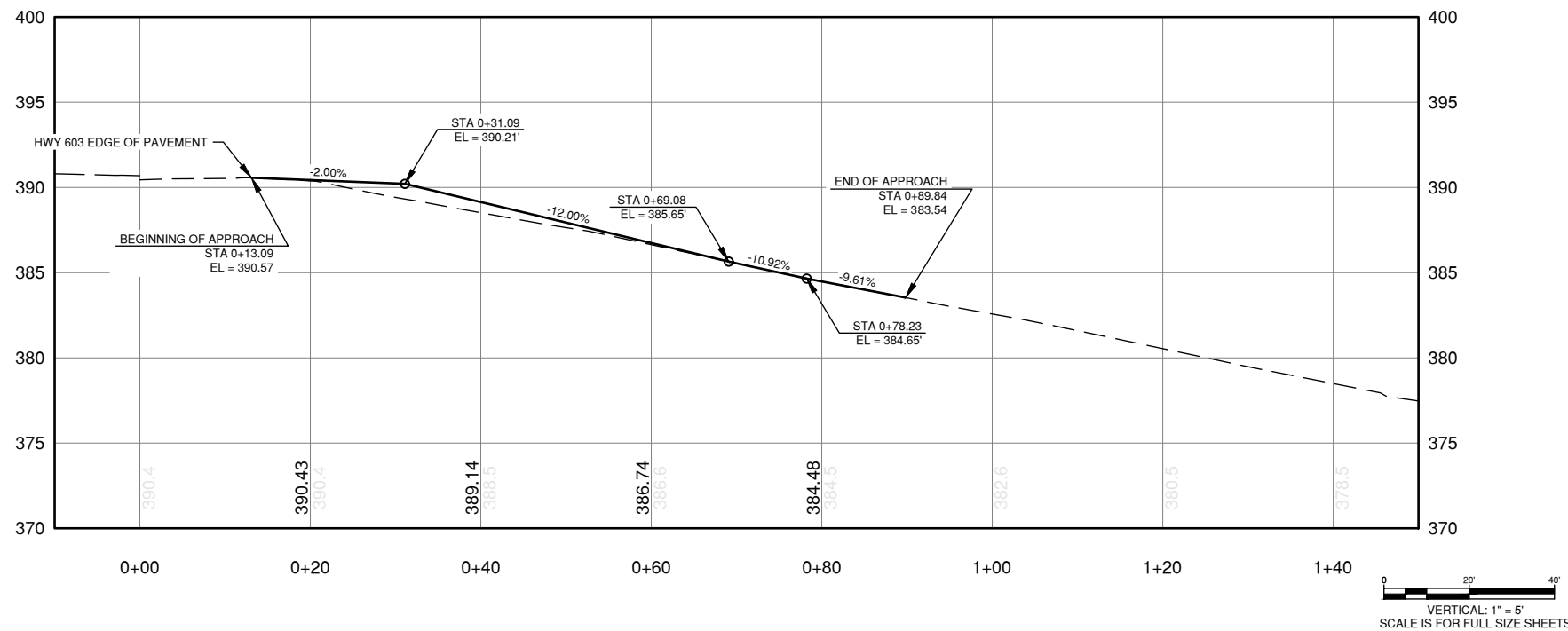
ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEAR LIMITS AT TOE OF FILL SLOPE



CONSTRUCTION NOTES

- ① STA. 0+13.09 BEGIN APPROACH
30 TON CRUSHED SURFACING BASE COURSE
- ② STA. 0+23.00 TO STA. 0+59.00 (GABION ALIGNMENT)
CONSTRUCT GABION CRIBBING WALL
SEE GABION CRIBBING WALL DETAIL & GABION CRIBBING WALL TYPICAL SECTION ON SHEET HY7 OF HY8
SEE WSDOT STANDARD PLAN D-6
33 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL.
10 C.Y. GRAVEL BACKFILL FOR FOUNDATION CLASS A
12 C.Y. GRAVEL BACKFILL FOR WALL
13 C.Y. GABION CRIBBING
- ③ STA. 0+82.32 RT
16 IN. DIAM. OAK TREE TO REMAIN

MP 2.82 SOUTH APPROACH DESIGN CENTERLINE



Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-1479

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
HWY 603 SITE 6 : SOUTH APPROACH

SHEET
HY5
OF
HY8



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



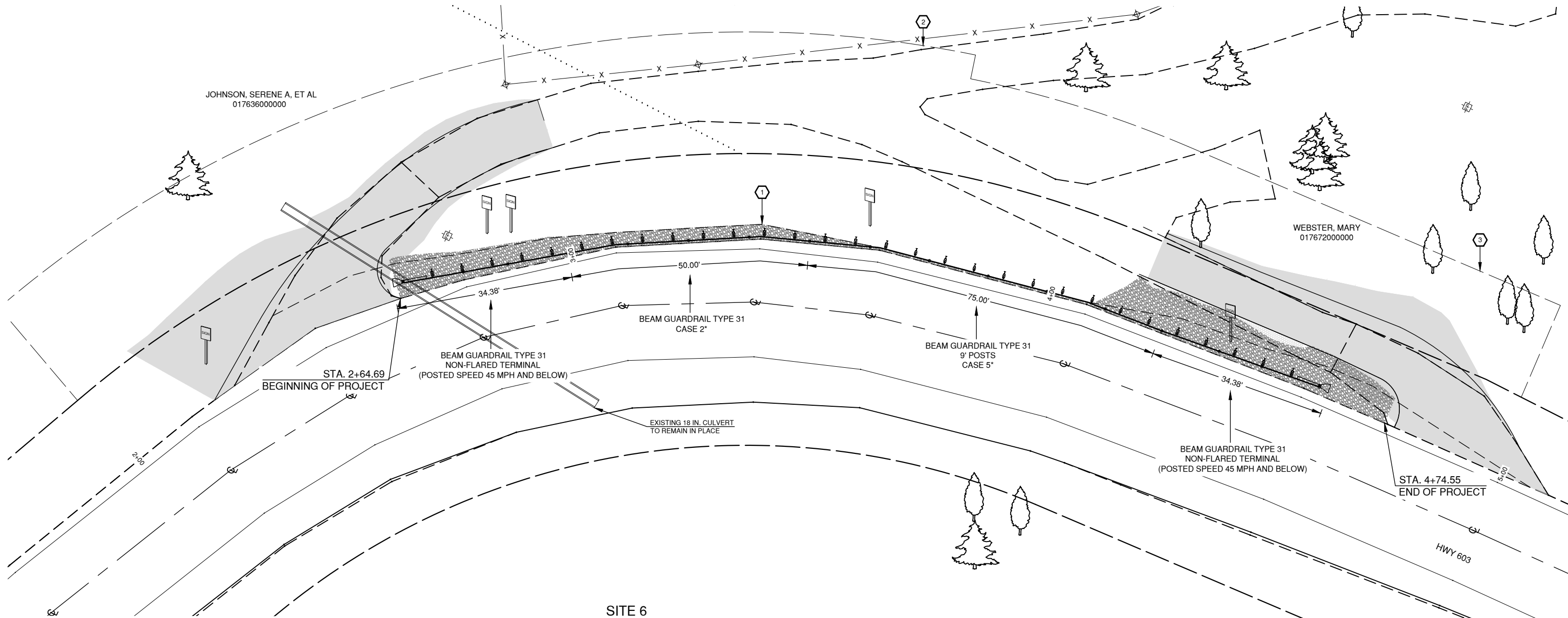
2/18/2021 10:56 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\HWY 603 2019 COUNTY SAFETY MP 2.82\NEW 02-12-2020 HWY 603 MP 1.87 & MP 2.82 2185B APPROACHES.dwg

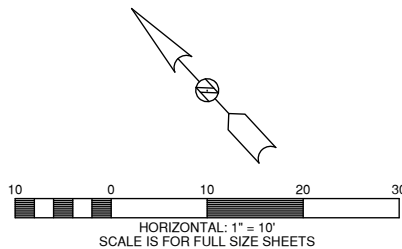
TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEAR LIMITS AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST INSTALLATION DETAIL ON SHEET 4 OF 4



SITE 6
HWY 603 MP 2.74
NOT TO SCALE



CONSTRUCTION NOTES

- ① STA. 2+64.69 TO STA. 4+74.55
CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 3) AND GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
24 TON CRUSHED SURFACING BASE COURSE
- ② 165' OF 25' TEMPORARY CONSTRUCTION EASEMENT
- ③ 120' OF 20' TEMPORARY CONSTRUCTION EASEMENT
- ④ 2 TON CRUSHED SURFACING TOP COURSE (KEYSTONE) ENTIRE SITE

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-1479

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

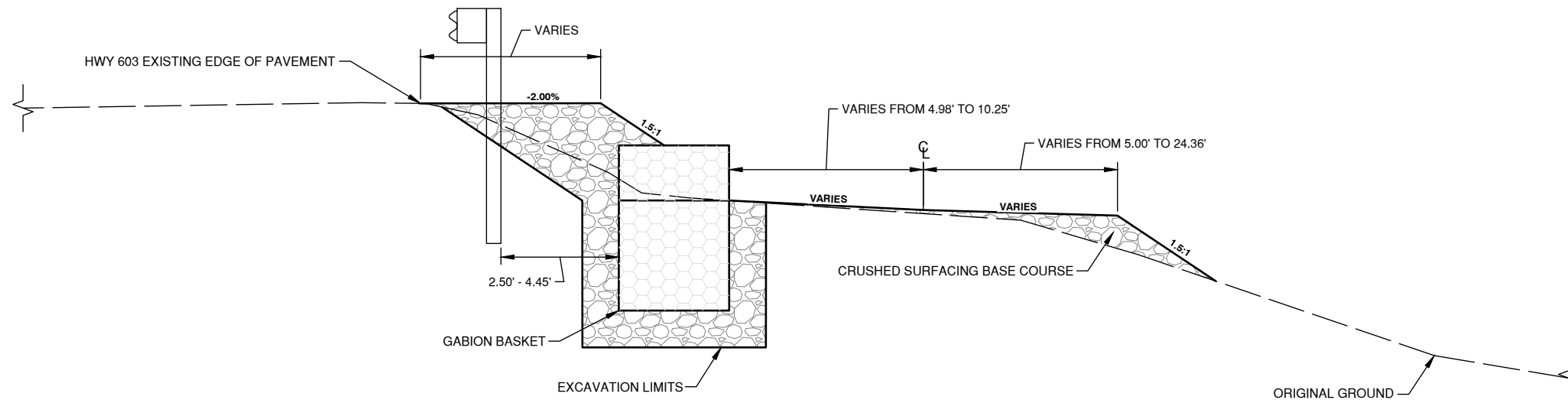
FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
HWY 603 SITE 6

SHEET
HY6
OF
HY8



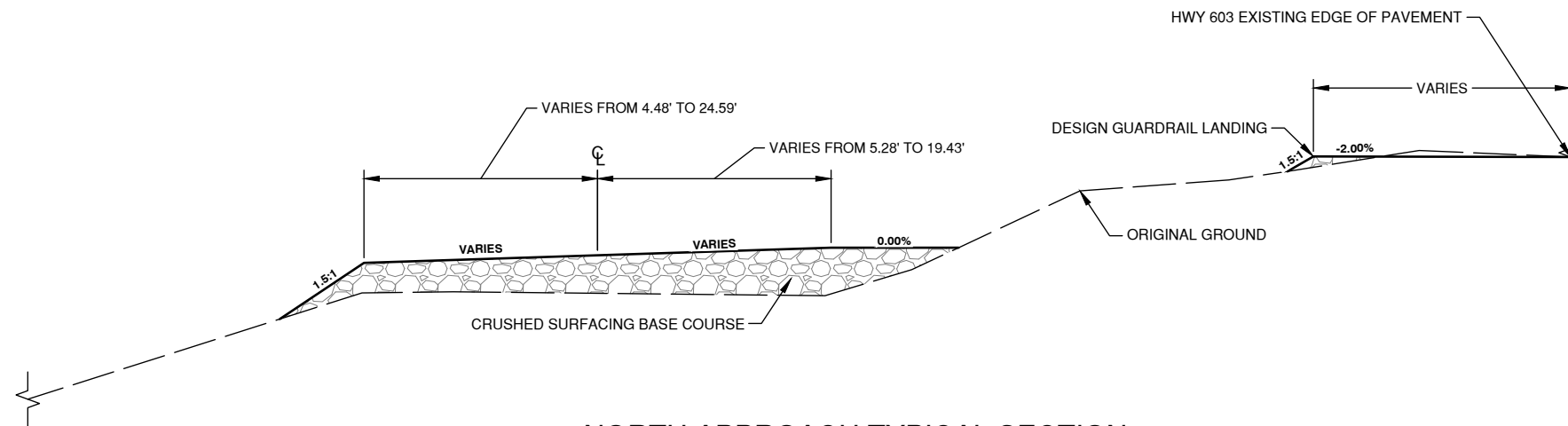
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21





SOUTH APPROACH TYPICAL SECTION

NOT TO SCALE



NORTH APPROACH TYPICAL SECTION

NOT TO SCALE

2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-1479

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B

SOUTH APPROACH TYPICAL SECTION

SHEET
HY8
OF
HY8



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

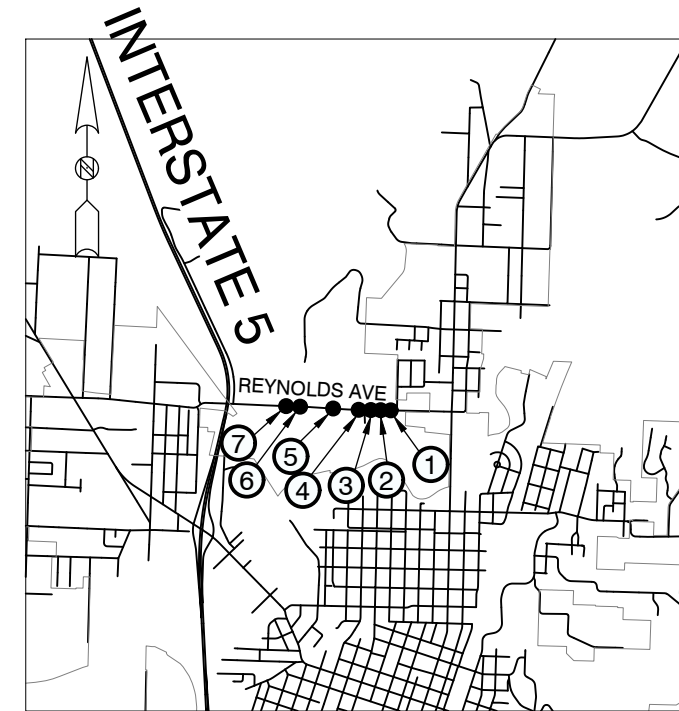


REYNOLDS ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	3	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	0	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	0	C.Y.
8	0408	SELECT BORROW INCL. HAUL	0	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	0	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	34	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	0	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	0	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	0	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	0	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	0	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	90	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	1	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	22	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	156.25	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	506.25	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	62.50	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	418.75	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	81.25	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	2	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
30	6751	BEAM GUARDRAIL TYPE 1	43.75	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	12.50	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	3	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	8	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	262.50	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	12.50	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	126	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	2.5	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	0	C.Y.
41	7150	GABION CRIBBING	0	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	1	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2/18/2021 10:13 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
REYNOLDS ROAD
SUMMARY OF QUANTITIES

SHEET
R1
OF
R5



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/18/2021 10:19 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\REYNOLDS RD\REYNOLDS AVE MP 0.33 GUARDRAIL DESIGN 11-19-19 (FINAL DESIGN-PROXY-USE TO PRINT ONLY).dwg

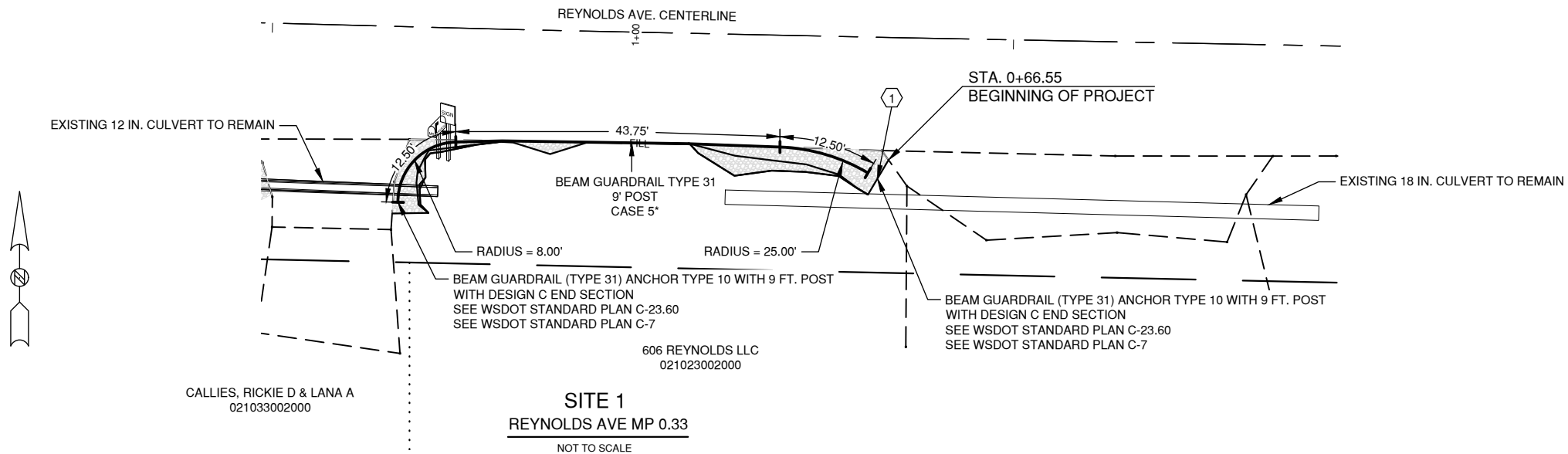
TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4

CONSTRUCTION NOTES

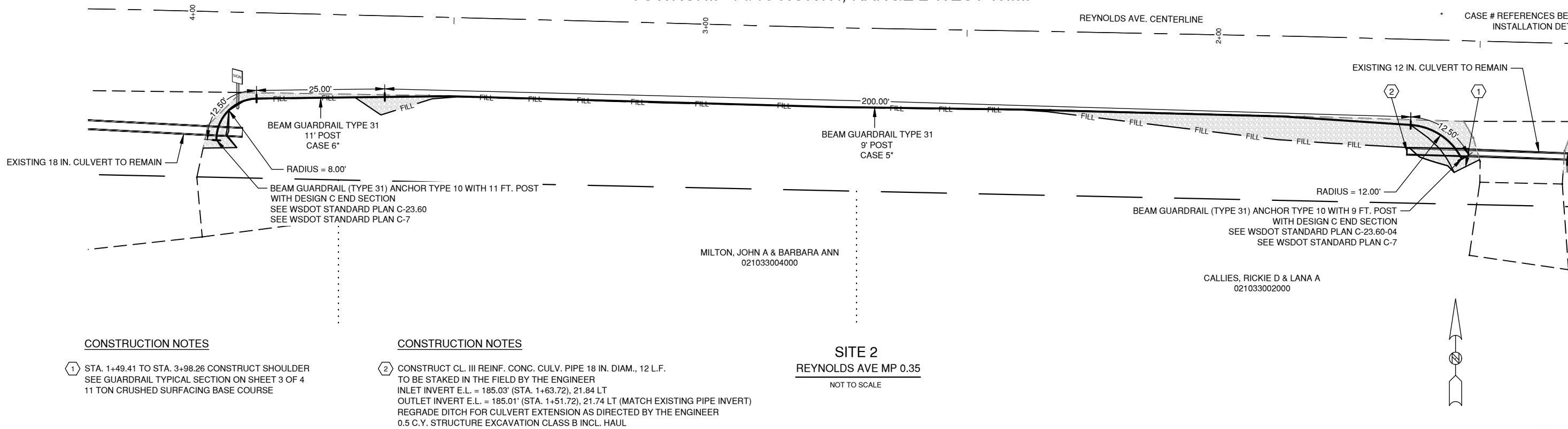
- 1 STA. 0+66.55 TO STA. 1+33.19 CONSTRUCT SHOULDER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
1 TON CRUSHED SURFACING BASE COURSE



TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4



CONSTRUCTION NOTES

- 1 STA. 1+49.41 TO STA. 3+98.26 CONSTRUCT SHOULDER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
11 TON CRUSHED SURFACING BASE COURSE

CONSTRUCTION NOTES

- 2 CONSTRUCT CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM., 12 L.F.
TO BE STAKED IN THE FIELD BY THE ENGINEER
INLET INVERT E.L. = 185.03' (STA. 1+63.72), 21.84 LT
OUTLET INVERT E.L. = 185.01' (STA. 1+51.72), 21.74 LT (MATCH EXISTING PIPE INVERT)
REGRADE DITCH FOR CULVERT EXTENSION AS DIRECTED BY THE ENGINEER
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

Lewis County
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719
Department of Public Works

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

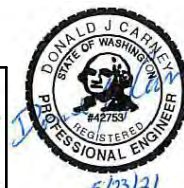
2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
REYNOLDS ROAD SITE 1 & 2

SHEET
R2
OF
R5



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/18/2021 10:20 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\REYNOLDS RD\REYNOLDS AVE MP 0.33 GUARDRAIL DESIGN 11-19-19 (FINAL DESIGN-PROXY-USE TO PRINT ONLY).dwg

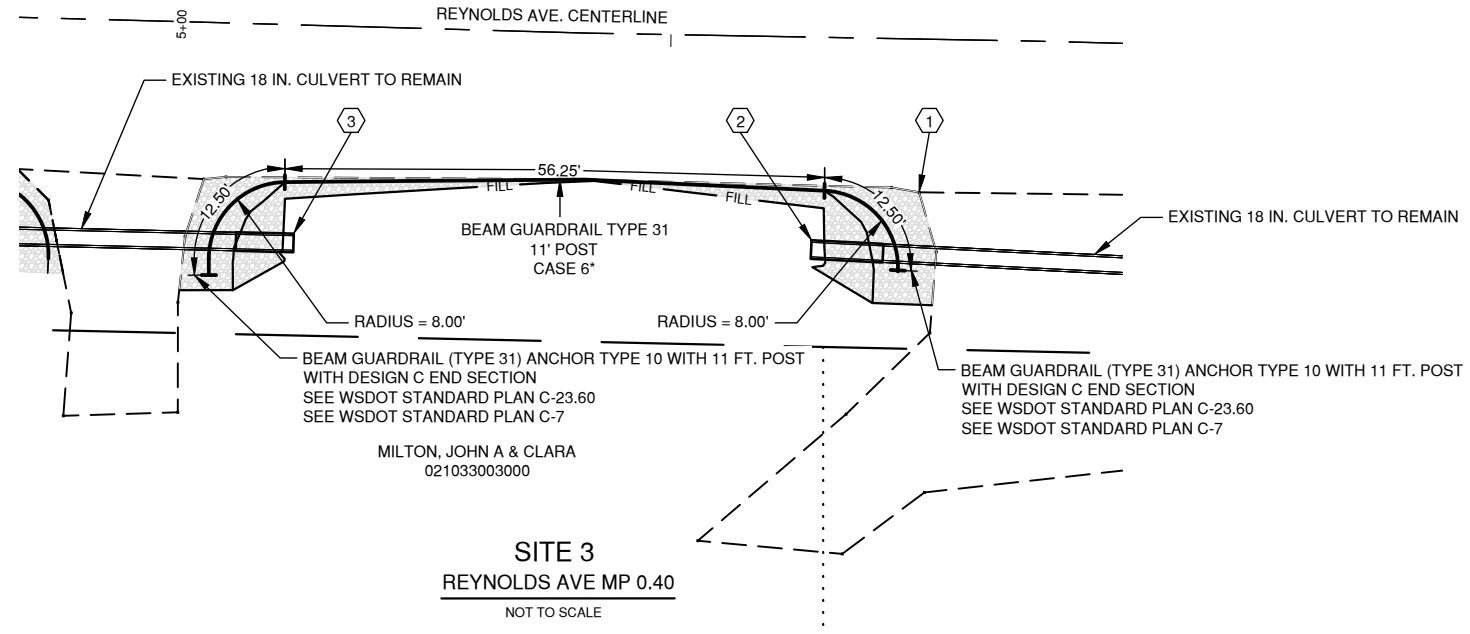
TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4

CONSTRUCTION NOTES

- ① STA. 4+21.97 TO STA. 5+00.61 CONSTRUCT SHOULDER
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
20 TON CRUSHED SURFACING BASE COURSE
- ② CONSTRUCT CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM., 8 L.F.
INLET INVERT E.L.= 184.70' (STA. 4+35.01), 22.13' LT
OUTLET INVERT E.L.= 184.76' (STA. 4+27.52), 22.37' LT (MATCH EXISTING PIPE INVERT)
REGRADE DITCH FOR CULVERT EXTENSION AS DIRECTED BY THE ENGINEER
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
- ③ CONSTRUCT CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM., 6 L.F.
INLET INVERT E.L.= 185.01' (STA. 4+88.69), 22.71' LT
OUTLET INVERT E.L.= 184.99' (STA. 4+94.69), 22.74' LT (MATCH EXISTING PIPE INVERT)
REGRADE DITCH FOR CULVERT EXTENSION AS DIRECTED BY THE ENGINEER
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL



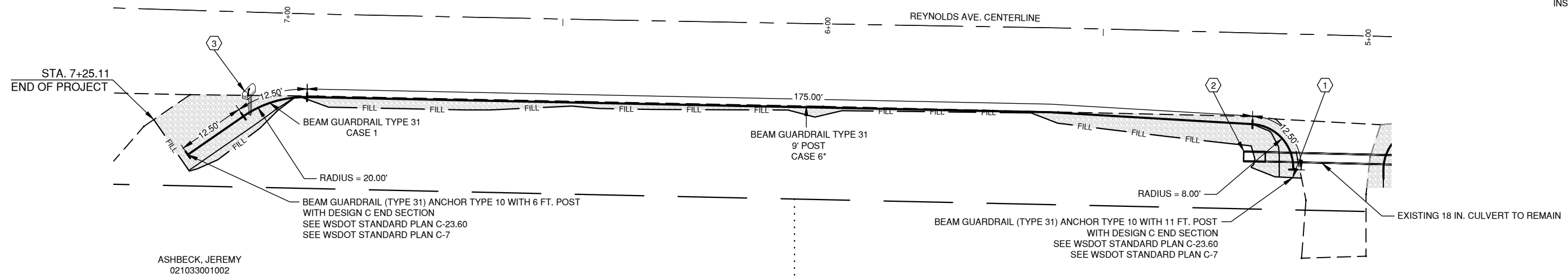
MILTON, JOHN A & CLARA
021033003000

SITE 3
REYNOLDS AVE MP 0.40
NOT TO SCALE

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4



ASHBECK, JEREMY
021033001002

MILTON, JOHN A & CLARA
021033003000

SITE 4
REYNOLDS AVE MP 0.41
NOT TO SCALE

CONSTRUCTION NOTES

- ① STA. 5+12.63 TO STA. 7+25.11 CONSTRUCT SHOULDER
SEE GUARDRAIL LANDING DETAIL ON SHEET 4 OF 4
14 TON CRUSHED SURFACING BASE COURSE
- ② CONSTRUCT CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM., 4 L.F.
INLET INVERT E.L. = 184.89' (STA. 5+23.43), 22.85' LT
OUTLET INVERT E.L. = 184.90' (STA. 5+19.43), 22.81' LT (MATCH EXISTING PIPE INVERT)
REGRADE DITCH FOR CULVERT EXTENSION AS DIRECTED BY THE ENGINEER
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

- ③ CONSTRUCTION NOTES
RELOCATE EXISTING MAILBOX
SEE WSDOT STANDARD PLAN H-70.10
1.00 EACH MAILBOX SUPPORT TYPE 1

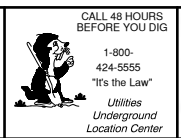
Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
REYNOLDS ROAD SITE 3 & 4

SHEET
R3
OF
R5



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/19/2021 10:22 AM

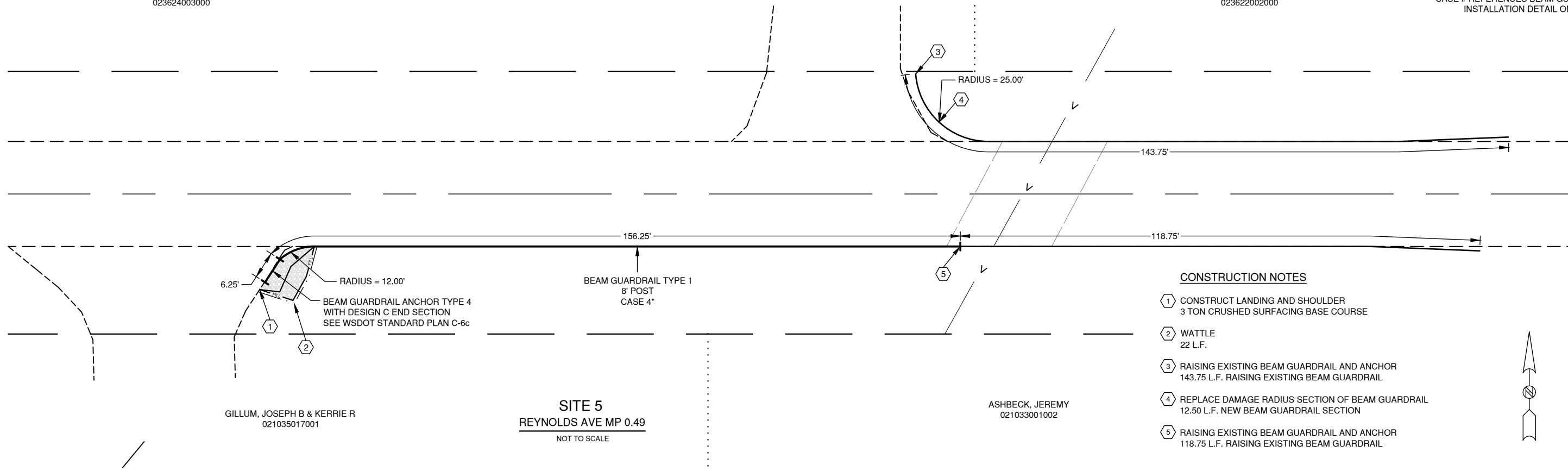
HOFMEISTER, JUSTIN
023624003000

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LEWIS AND CLARK PROPERTY LLC
023622002000

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4



CONSTRUCTION NOTES

- ① CONSTRUCT LANDING AND SHOULDER
3 TON CRUSHED SURFACING BASE COURSE
- ② WATTLE
22 L.F.
- ③ RAISING EXISTING BEAM GUARDRAIL AND ANCHOR
143.75 L.F. RAISING EXISTING BEAM GUARDRAIL
- ④ REPLACE DAMAGE RADIUS SECTION OF BEAM GUARDRAIL
12.50 L.F. NEW BEAM GUARDRAIL SECTION
- ⑤ RAISING EXISTING BEAM GUARDRAIL AND ANCHOR
118.75 L.F. RAISING EXISTING BEAM GUARDRAIL



S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\REYNOLDS RD\REYNOLDS ROAD SITES 5 AND 6 AND 7.dwg

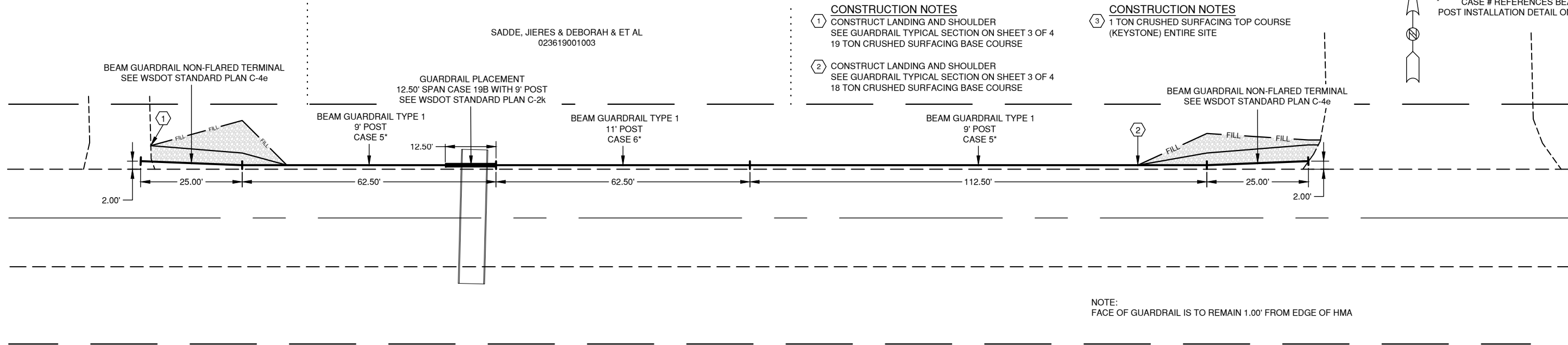
LEWIS COUNTY
023619001004

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

SADDE, JIERES & DEBORAH & ET AL
023619001002

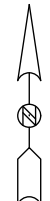
LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

* CASE # REFERENCES BEAM GUARDRAIL
POST INSTALLATION DETAIL ON SHEET 4 OF 4



- ① CONSTRUCT LANDING AND SHOULDER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
19 TON CRUSHED SURFACING BASE COURSE
- ② CONSTRUCT LANDING AND SHOULDER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 4
18 TON CRUSHED SURFACING BASE COURSE

- ③ 1 TON CRUSHED SURFACING TOP COURSE
(KEYSTONE) ENTIRE SITE



NOTE:
FACE OF GUARDRAIL IS TO REMAIN 1.00' FROM EDGE OF HMA

SITE 6
REYNOLDS AVE MP 0.60
NOT TO SCALE

Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
REYNOLDS ROAD SITE 5 & 6

SHEET
R4
OF
R5



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

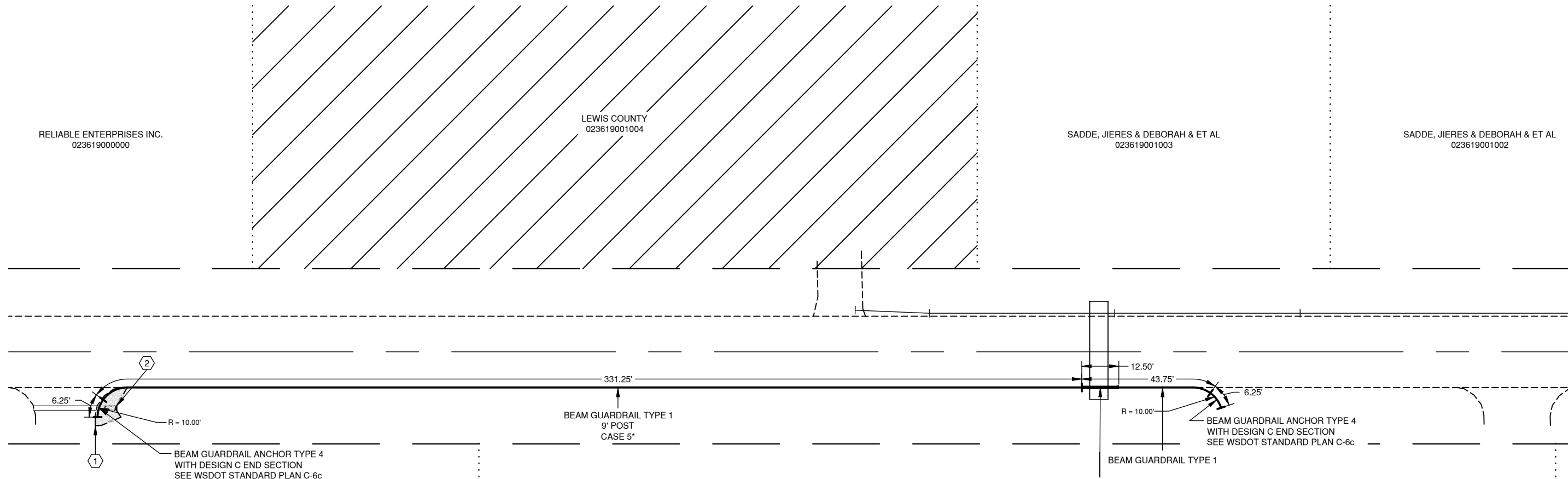


2/19/2021 10:22 AM

TOWNSHIP 14/15 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

CASE # REFERENCES BEAM GUARDRAIL POST
INSTALLATION DETAIL ON SHEET 4 OF 4



RELIABLE ENTERPRISES INC.
023619000000

LEWIS COUNTY
023619001004

SADDE, JIERES & DEBORAH & ET AL
023619001003

SADDE, JIERES & DEBORAH & ET AL
023619001002

MORRIS, WILLIAM KODE & DAYNA
021044002000

MORRIS, WILLIAM KODE & DAYNA
021044003000

HARRINGTON,
BRAD L & SHELLY L
021044004000

CONSTRUCTION NOTES

- ① CONSTRUCT SHOULDER
4 TON CRUSHED SURFACING BASE COURSE
- ② CONSTRUCT CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM., 4 L.F.
TO BE STAKED IN THE FIELD BY THE ENGINEER
(MATCH EXISTING PIPE INVERT)
REGRADE DITCH FOR CULVERT EXTENSION AS DIRECTED BY THE ENGINEER
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
(SEE SPECIAL PROVISION 2-02.3 IF HAZARDOUS MATERIAL IS ENCOUNTERED.
3 C.Y. HAZARDOUS MATERIAL EXCAVATION INCL. HAUL)

SITE 7
REYNOLDS AVE MP 0.63
NOT TO SCALE

IDENTIFIED AS POTENTIAL
CONTAMINATED SITE



2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
REYNOLDS ROAD SITE 7

SHEET
R5
OF
R5



CALL 48 HOURS
BEFORE YOU DIG
1-800-
424-5555
"It's the Law"
Utilizes
Underground
Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



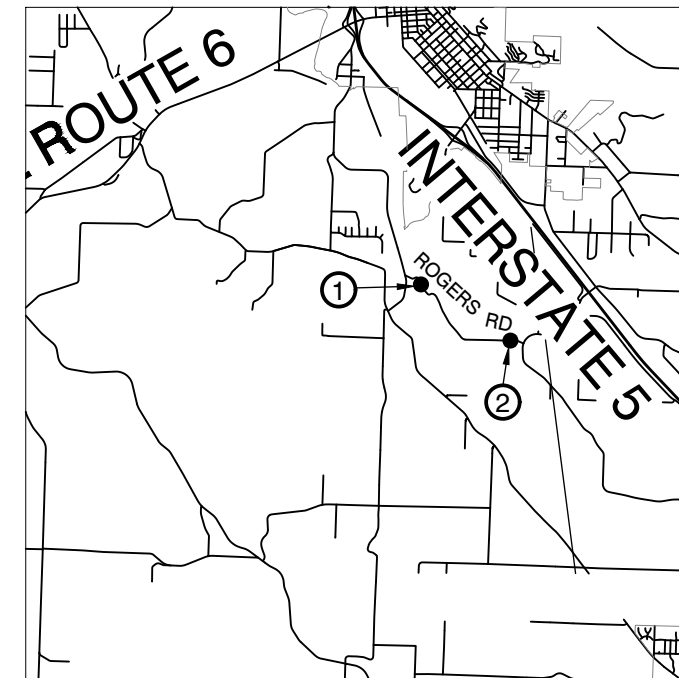
5/23/21

ROGERS ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	7	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	535	C.Y.
8	0408	SELECT BORROW INCL. HAUL	2	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	7	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	32	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	8	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	0	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	0	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	23	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	805	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	50	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	0	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	0	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	80.50	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	10	C.Y.
41	7150	GABION CRIBBING	20	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	0	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2/18/2021 10:24 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
ROGERS ROAD
SUMMARY OF QUANTITIES

SHEET
RG1
OF
RG6



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

2/18/2021 10:26 AM

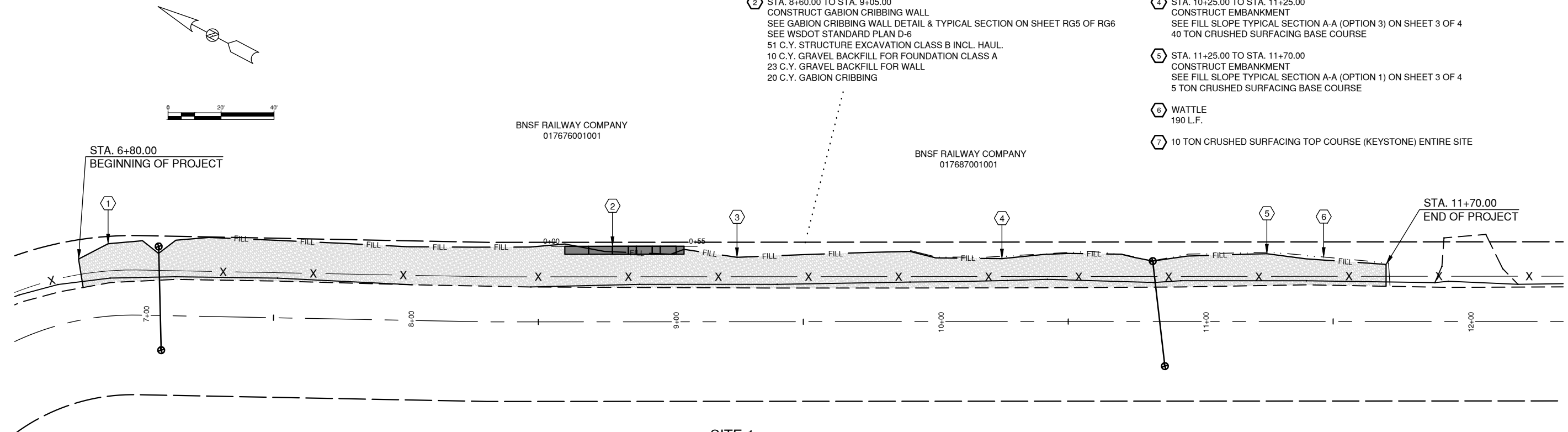
S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\ROGERS RD\ROGERS RD SITES 1,2 & 3 WITH TOPO.dwg

CONSTRUCTION NOTES

- ① STA. 6+80.00 TO STA. 9+05.00
CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 3) ON SHEET 3 OF 4
70 TON CRUSHED SURFACING BASE COURSE
1 C.Y. ROADWAY EXCAVATION
- ② STA. 8+60.00 TO STA. 9+05.00
CONSTRUCT GABION CRIBBING WALL
SEE GABION CRIBBING WALL DETAIL & TYPICAL SECTION ON SHEET RG5 OF RG6
SEE WSDOT STANDARD PLAN D-6
51 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL.
10 C.Y. GRAVEL BACKFILL FOR FOUNDATION CLASS A
23 C.Y. GRAVEL BACKFILL FOR WALL
20 C.Y. GABION CRIBBING

CONSTRUCTION NOTES

- ③ STA. 9+05.00 TO STA. 10+25.00
CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
15 TON CRUSHED SURFACING BASE COURSE
5 C.Y. ROADWAY EXCAVATION
- ④ STA. 10+25.00 TO STA. 11+25.00
CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 3) ON SHEET 3 OF 4
40 TON CRUSHED SURFACING BASE COURSE
- ⑤ STA. 11+25.00 TO STA. 11+70.00
CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
5 TON CRUSHED SURFACING BASE COURSE
- ⑥ WATTLE
190 L.F.
- ⑦ 10 TON CRUSHED SURFACING TOP COURSE (KEYSTONE) ENTIRE SITE



SITE 1
ROGERS ROAD MP 0.10
NOT TO SCALE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

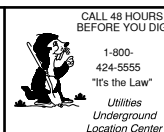
DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
ROGERS ROAD SITE 1

SHEET
RG2
OF
RG6



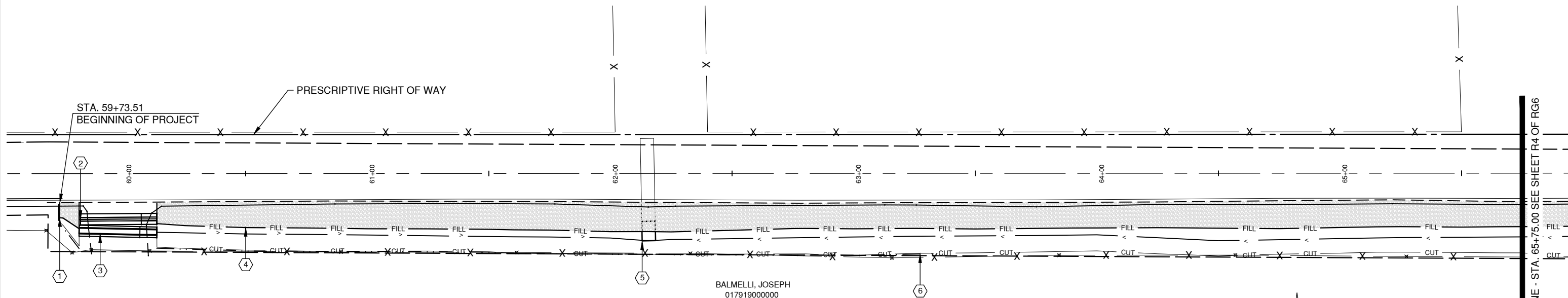
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



2/18/2021 10:27 AM

TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE CLEARING LIMITS AT TOP OF NEW DITCH BACKSLOPE



CONSTRUCTION NOTES

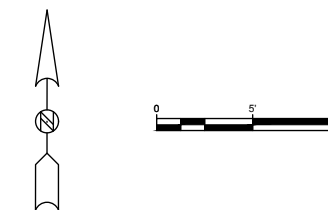
- 1 STA. 59+73.51 TO STA. 59+82.08
CONSTRUCT EMBANKMENT
SEE TYPICAL SECTION B-B ON SHEET 3 OF 4
- 2 REMOVE EXISTING CULVERT
10 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
19 TON CRUSHED SURFACING BASE COURSE
- 3 CONSTRUCT CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM., 32 L.F.
INLET INVERT EL. = 203.28' (STA. 59+81.50) 23.47' RIGHT
OUTLET INVERT EL. = 203.12' (STA. 60+13.49) 24.13' RIGHT
17 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
32 TON CRUSHED SURFACING BASE COURSE

CONSTRUCTION NOTES

- 4 STA. 60+13.47 TO STA. 69+40.00
CONSTRUCT EMBANKMENT
STEEPEN BACKSLOPE AS NECESSARY TO STAY WITHIN ROW
SEE TYPICAL SECTION B-B ON SHEET 3 OF 4
1 C.Y. ROADWAY EXCAVATION
- 5 EXTEND PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN, 8 L.F.
TO CONNECT TO EXISTING PIPE
SEE WSDOT STANDARD PLAN B-60.20
INLET INVERT EL. = 201.13' (STA. 62+15.80), 27.67' RT (MATCH EXISTING PIPE INVERT)
OUTLET INVERT EL. = 201.16' (STA. 62+15.65), 19.67' RT
BEVEL PIPE TO MATCH SLOPE
2 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
- 6 WATTLE
478 L.F. ENTIRE SITE

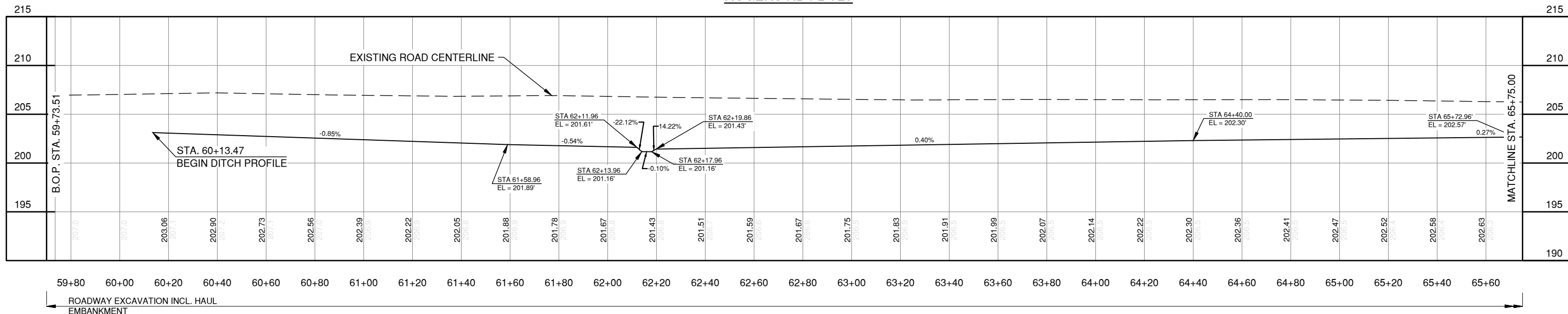
BALMELLI, JOSEPH
017919000000

SITE 2
ROGERS ROAD MP 1.12
NOT TO SCALE



MATCHLINE - STA. 65+75.00 SEE SHEET R4 OF RG6

ROGERS RD FB 723



VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\ROGERS RD\ROGERS RD SITES 1,2 & 3 WITH TOPO.dwg

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

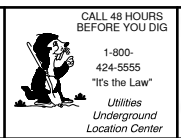
DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
ROGERS ROAD SITE 2

SHEET
RG3
OF
RG6



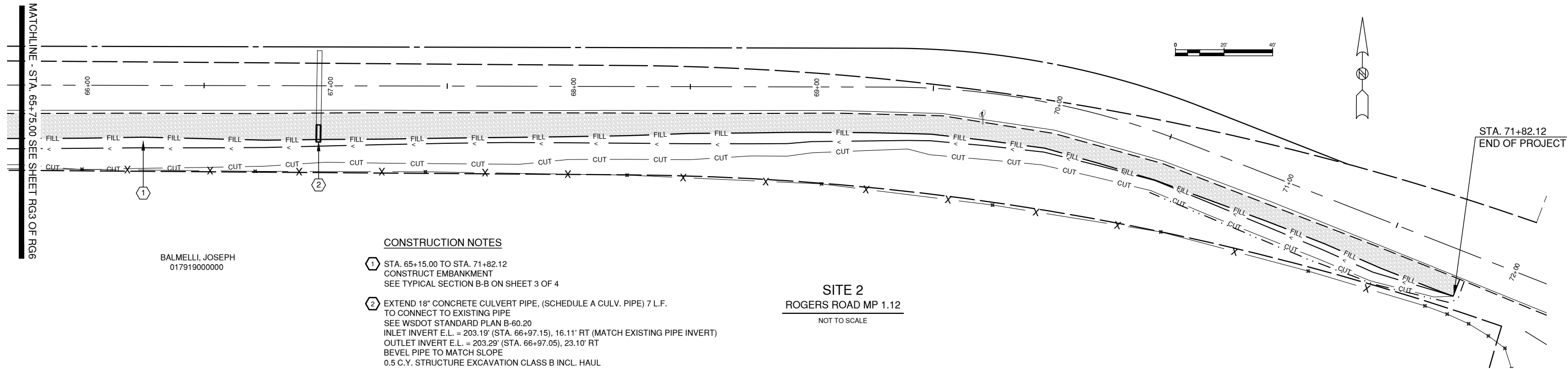
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.

ALL QUANTITIES FOR CRUSHED SURFACING BASE COURSE INCLUDED IN MAINLINE
CLEARING LIMITS AT TOP OF NEW DITCH BACKSLOPE

2/18/2021 10:29 AM



MATCHLINE - STA. 65+75.00 SEE SHEET RG3 OF RG6

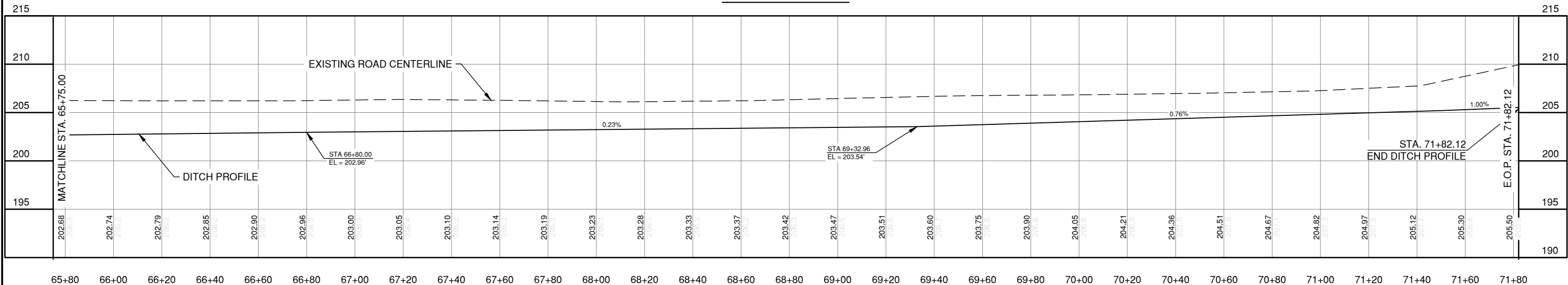
BALMELLI, JOSEPH
017919000000

CONSTRUCTION NOTES

- ① STA. 65+15.00 TO STA. 71+82.12
CONSTRUCT EMBANKMENT
SEE TYPICAL SECTION B-B ON SHEET 3 OF 4
- ② EXTEND 18" CONCRETE CULVERT PIPE, (SCHEDULE A CULV. PIPE) 7 L.F.
TO CONNECT TO EXISTING PIPE
SEE WSDOT STANDARD PLAN B-60.20
INLET INVERT E.L. = 203.19' (STA. 66+97.15), 16.11' RT (MATCH EXISTING PIPE INVERT)
OUTLET INVERT E.L. = 203.29' (STA. 66+97.05), 23.10' RT
BEVEL PIPE TO MATCH SLOPE
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

SITE 2
ROGERS ROAD MP 1.12
NOT TO SCALE

ROGERS RD FB 723



ROADWAY EXCAVATION INCL. HAUL
EMBANKMENT

535 C.Y.
624 TON C.S.B.C.
2 TON SELECT BORROW
40 TON C.S.T.C. (KEYSTONE)

VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

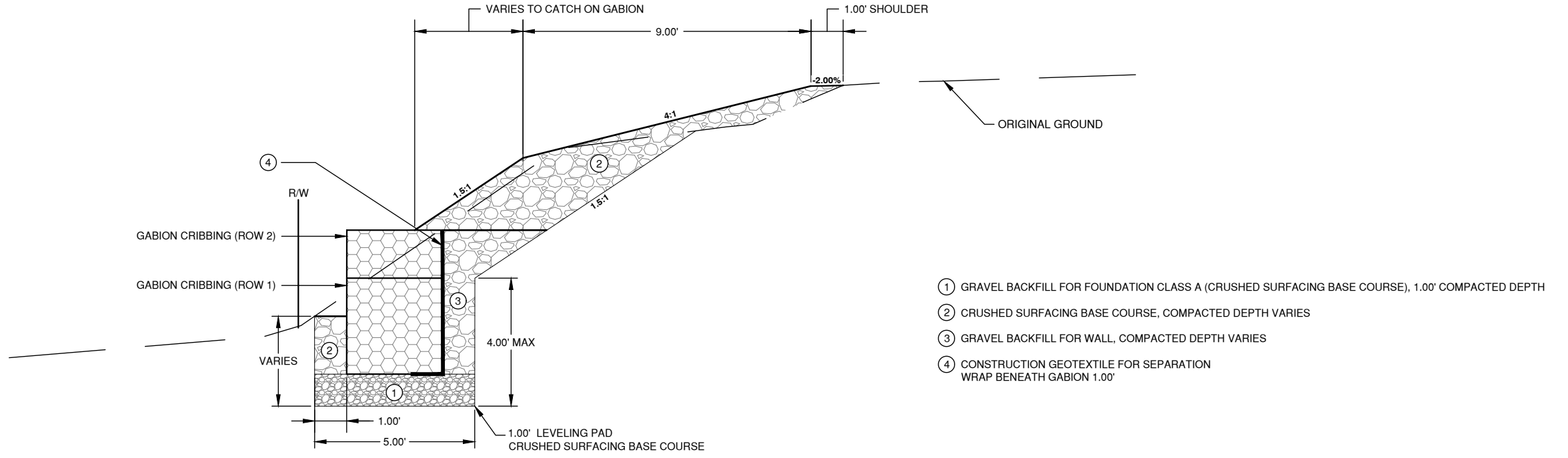
FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
ROGERS ROAD SITE 2

SHEET
RG4
OF
RG6

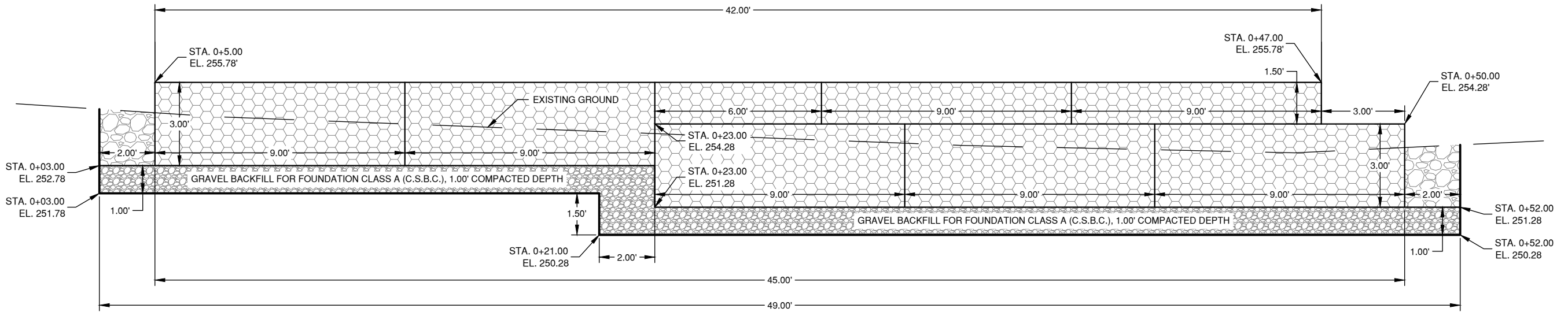


Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21





GABION CRIBBING WALL TYPICAL SECTION
NOT TO SCALE



GABION CRIBBING WALL DETAIL
STA. 0+03.00 TO STA. 0+52.00 (GABION ALIGNMENT)
NOT TO SCALE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
GABION CRIBBING WALL

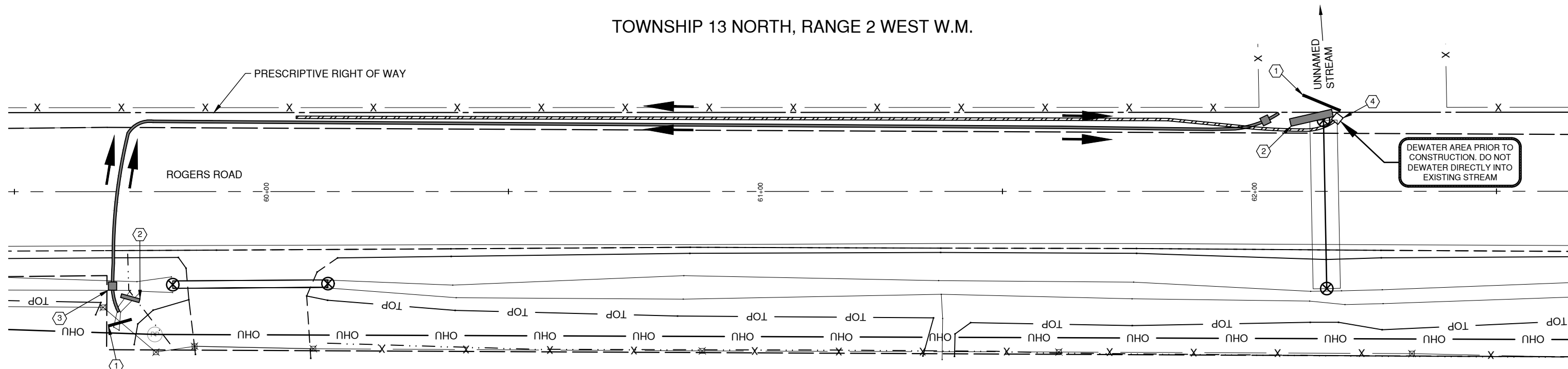
SHEET
RG5
OF
RG6



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

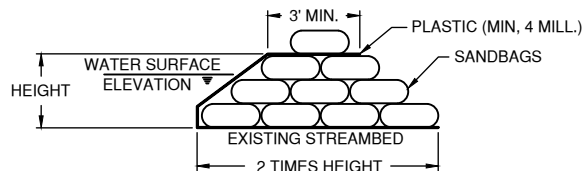
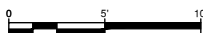
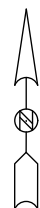


TOWNSHIP 13 NORTH, RANGE 2 WEST W.M.



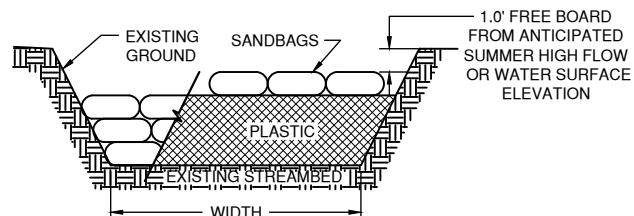
SITE 2
ROGERS ROAD MP 1.12
 NOT TO SCALE

BALMELLI, JOSEPH
 01791900000



- NOTES:**
1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
 2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
 3. PROVIDE 1.0' FREEBOARD.

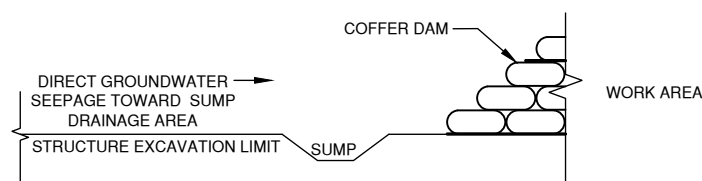
SIDE VIEW



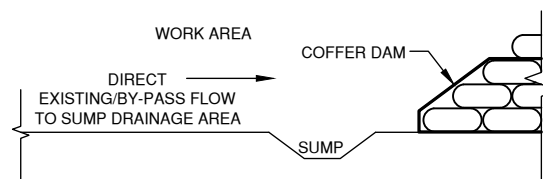
- NOTES:**
1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
 2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
 3. PROVIDE 1.0' FREEBOARD.

FRONT VIEW

COFFER DAM TYPICAL DETAIL
 NOT TO SCALE



UPSTREAM DEWATERING AREA SUMP DETAIL
 NOT TO SCALE



DOWNSTREAM DEWATERING BY-PASS SUMP DETAIL
 NOT TO SCALE

CONSTRUCTION NOTES

1. INSTALL WDFW APPROVED FISH EXCLUSION SCREEN AT 45° ANGLE TO CHANNEL
2. INSTALL COFFER DAM PER DETAILS ON THIS SHEET TO BE STAKED IN THE FIELD BY THE ENGINEER
3. INSTALL SPILL CONTAINED PUMP SYSTEM FOR STREAM BYPASS
4. INSTALL SPILL CONTAINED PUMP SYSTEM FOR DEWATERING PUMP WORK WATER ALONG N DITCH APPROXIMATELY 200' TO FLOW DOWN DITCH AND INTO THE STREAM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\ROGERS RD\SITES 1,2 & 3 WITH TOPO.dwg

2/18/2021 10:33 AM

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : DJC
 DRAWN BY : KLP
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

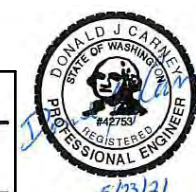
2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
 COUNTY ROAD PROJECT NO: 2191B
 ROGERS ROAD SITE 2 DEWATERING PLAN

SHEET
RG6
 OF
RG6



Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 2/17/21

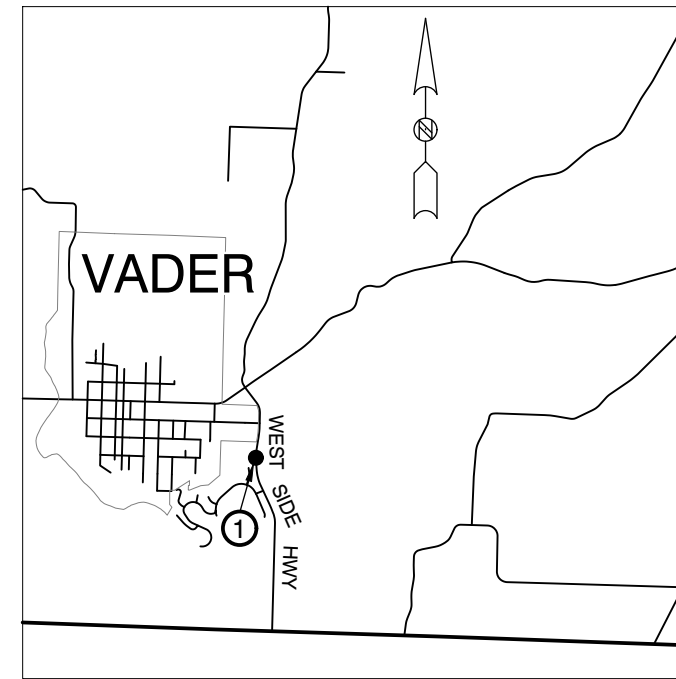


WESTSIDE HWY

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0035	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0251	HAZARDOUS MATERIAL EXCAVATION INCL. HAUL	0	C.Y.
5	0260	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	EST.
GRADING				
6	0300	ROADWAY EXCAVATION	1	C.Y.
7	0310	ROADWAY EXCAVATION INCL. HAUL	0	C.Y.
8	0408	SELECT BORROW INCL. HAUL	0	TON
DRAINAGE				
9	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	29	L.F.
10	1247	CL. III REINF. CONC. CULV. PIPE 18 IN. DIAM.	0	L.F.
11	1294	CL. V REINF. CONC. CULV. PIPE 24 IN. DIAM.	0	L.F.
12	2288	PLAIN ST. CULV. PIPE ARCH 0.109 IN. TH. 64 IN. SPAN	0	L.F.
13	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
STORM SEWER				
14	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	0	EACH
15	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	0	L.F.
STRUCTURE				
16	4025	GRAVEL BACKFILL FOR WALL	0	C.Y.
SURFACING				
17	5100	CRUSHED SURFACING BASE COURSE	575	TON
18	S.P.	CRUSHED SURFACING TOP COURSE (KEYSTONE)	1	TON
HOT MIX ASPHALT				
19	5875	COMMERCIAL HMA	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
20	6479	WATTLE	0	L.F.
TRAFFIC				
21	S.P.	BEAM GUARDRAIL TYPE 1 - 8 FT. LONG POST	0	L.F.
22	6747	BEAM GUARDRAIL TYPE 1 - 9 FT. LONG POST	0	L.F.
23	6749	BEAM GUARDRAIL TYPE 1 - 11 FT. LONG POST	0	L.F.
24	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
25	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
26	6713	BEAM GUARDRAIL TYPE 31 - 11 FT. LONG POST	0	EACH
27	6755	BEAM GUARDRAIL BLOCK	0	EACH
28	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
29	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
30	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
32	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
33	6774	BEAM GUARDRAIL ANCHOR TYPE 4	0	EACH
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
35	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
37	S.P.	NEW BEAM GUARDRAIL SECTION	0	L.F.
38	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
OTHER ITEMS				
39	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	1	C.Y.
40	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A	0	C.Y.
41	7150	GABION CRIBBING	0	C.Y.
42	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	0	EACH
44	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
45	7728	MINOR CHANGE	CALC	CALC
46	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2/18/2021 10:35 AM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\SUMMARY OF QUANTITIES & LEGEND.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
WEST SIDE HWY
SUMMARY OF QUANTITIES

SHEET
W1
OF
W2



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21

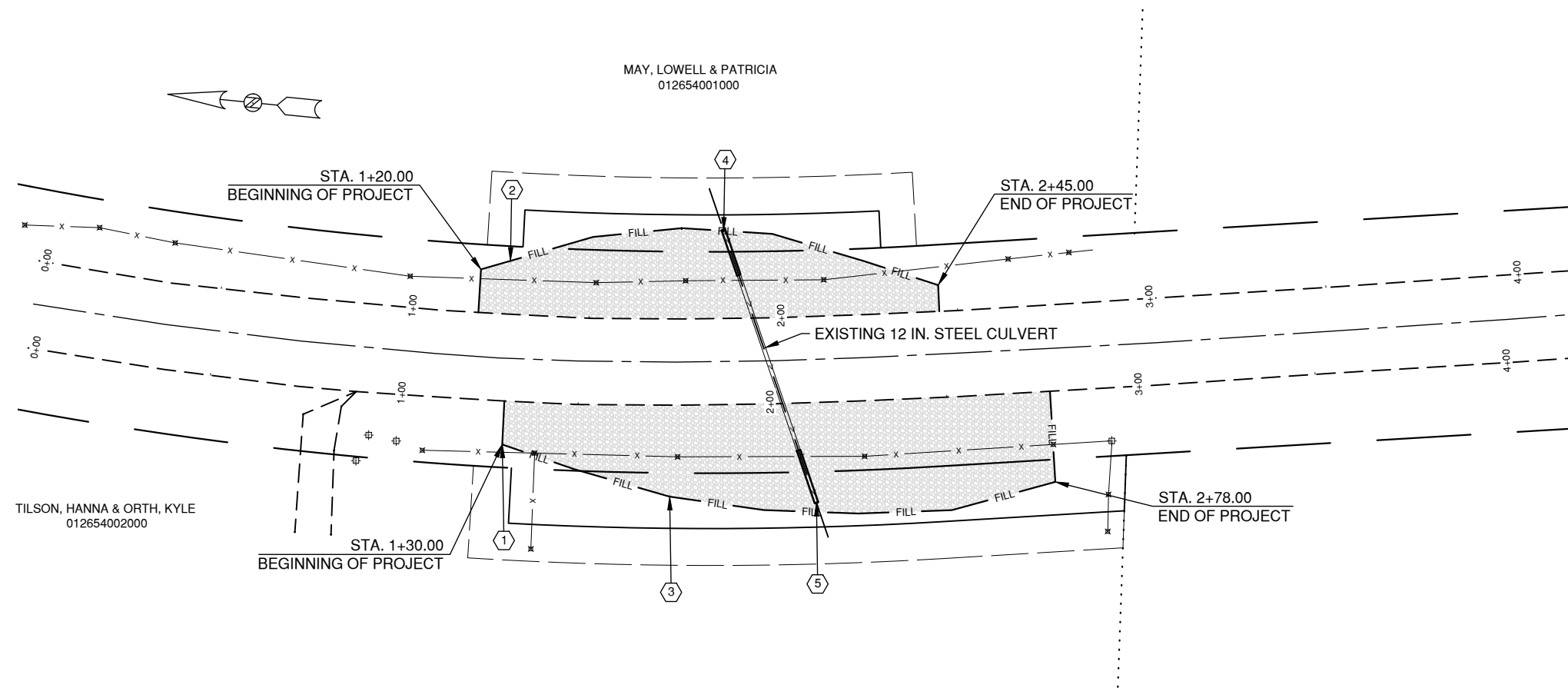


TOWNSHIP 11 NORTH, RANGE 2 WEST W.M.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

- CONSTRUCTION NOTES**
- ① STA. 1+30.00 TO STA. 1+72.00 CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
50 TON CRUSHED SURFACING BASE COURSE
 - ② STA. 1+20.00 TO 2+45.00 STA. CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 1) ON SHEET 3 OF 4
170 TON CRUSHED SURFACING BASE COURSE
1 C.Y. ROADWAY EXCAVATION
 - ③ STA. 1+72.00 TO STA. 2+78.00 CONSTRUCT EMBANKMENT
SEE FILL SLOPE TYPICAL SECTION A-A (OPTION 2) ON SHEET 3 OF 4
355 TON CRUSHED SURFACING BASE COURSE

- CONSTRUCTION NOTES**
- ④ CONSTRUCT SCHEDULE A CULV. PIPE 18 IN. DIAM., 12 L.F.
CONNECT TO EXISTING PIPE
SEE WSDOT STANDARD PLAN B-60.20
INLET INVERT E.L. = 207.92' (STA. 1+90.77), 11.71' LT
OUTLET INVERT E.L. = 207.91' (STA. 1+86.74), 24.06' RT (MATCH EXISTING PIPE INVERT)
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
BEVEL PIPE TO MATCH SLOPE
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
 - ⑤ CONSTRUCT SCHEDULE A CULV. PIPE 18 IN. DIAM., 17 L.F.
CONNECT TO EXISTING PIPE
SEE WSDOT STANDARD PLAN B-60.20
INLET INVERT E.L. = 207.89' (STA. 2+09.36), 12.83' RT
OUTLET INVERT E.L. = 207.90' (STA. 2+13.72), 27.18' (MATCH EXISTING PIPE INVERT)
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
BEVEL PIPE TO MATCH SLOPE
0.5 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL
 - ⑥ 1 TON CRUSHED SURFACING TOP COURSE (KEYSTONE) ENTIRE SITE



SITE 1
WEST SIDE HWY MP 0.32
NOT TO SCALE

2/18/2021 1:23 PM

S:\Engineer\Design\2019 COUNTY SAFETY PROGRAM\WEST SIDE HIGHWAY\WEST SIDE HWY DESIGN\BREAK.dwg

Lewis County
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719
Department of Public Works

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

2019 COUNTY SAFETY PROGRAM
PHASE II

FEDERAL-AID NO: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B
WESTSIDE HWY SITE 1

SHEET
W2
OF
W2



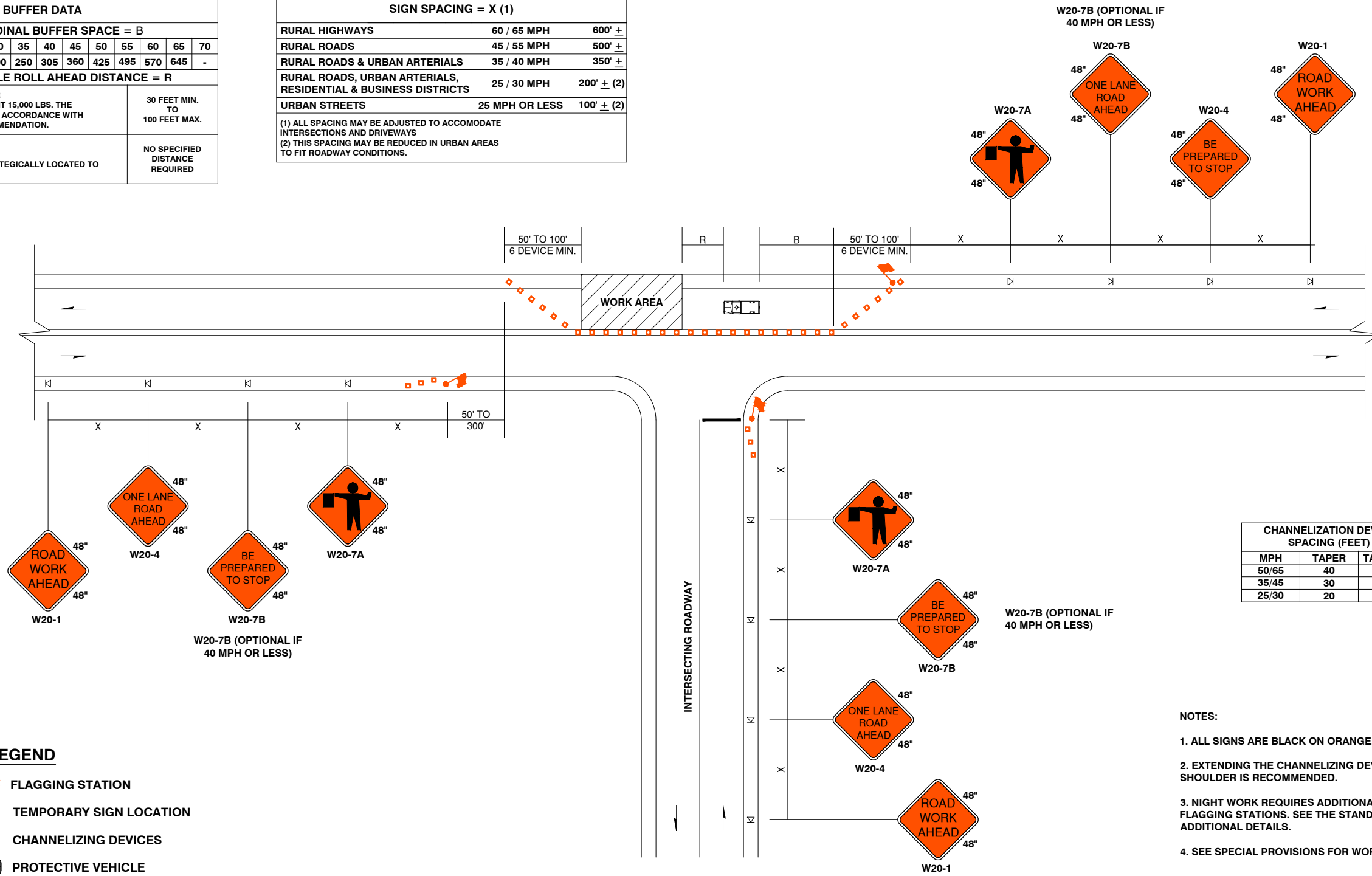
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 2/17/21



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.								30 FEET MIN. TO 100 FEET MAX.		
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.								NO SPECIFIED DISTANCE REQUIRED		

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	600' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

ONE-LANE, TWO WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLP
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**2019 COUNTY SAFETY PROGRAM
PHASE II**

F.A. PROJECT: HSIP-000S (553)
COUNTY ROAD PROJECT NO: 2191B

TRAFFIC CONTROL PLAN (TC-1)

SHEET

1 OF 1



Donald J. Carney, P.E.
Senior Engineer/Design

Date: 2/17/21

