US Army Corps
of Engineers
Seattle District

# Public Notice of Application for Permit

Regulatory Branch
Post Office Box 3755
Seattle, Washington 98124-3755
Telephone (206) 764-3495
ATTN: Kate Stenberg, Project Manager

Public Notice Date: March 29, 2005
Expiration Date: April 28, 2005
Reference: 200401410
Name: Washington State
Dept. of Transportation

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Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

APPLICANT: Washington State Dept. of Transportation
Ms. Kimberly Farley
I-405 Project Office
600 – 108th Avenue Northeast, Suite 405
Bellevue, Washington 98004
Telephone: (425) 456-8500

LOCATION: In wetlands and streams tributary to Lake Washington and the Sammamish River, in the City of Kirkland and Bothell, in King County, Washington.

WORK: The project to add lanes to I-405 from SR 520 to SR 522 proposes to add a general purpose northbound lane from NE 70th Street to NE 124th Street; a southbound general purpose lane from SR 522 to SR 520; reconfigure the NE 116th Street Interchange; and retrofit the Forbes Creek crossing to eliminate a fish passage barrier. This road widening and associated stormwater treatment facility construction will impact wetlands, streams, and roadside ditches dug in uplands.

This work will impact 14 wetlands (of 33 total in the project area) resulting in 1.599 acres of permanent fill, 0.192 acres of temporary impacts, and 0.018 acres of indirect impacts. Of the 43 culverts in the project area, seven culverts both convey streams and will be lengthened or replaced, resulting in 0.098 acres of permanent stream impacts and 0.019 acres of temporary stream impacts. There will be up to 0.217 acres of jurisdictional ditches impacted as well, however, please note that the jurisdictional determination for roadside ditches dug in uplands is not finalized and this acreage may vary slightly. The applicant has made a distinction between jurisdictional ditches and "jurisdictional areas" on the plans, however, for the purposes of review by the U.S. Army Corps of Engineers, these areas are treated the same. The permanent (direct and indirect) wetland impacts include 0.989 acres of palustrine emergent wetlands, 0.064 acres of palustrine scrub/shrub wetland, and 0.564 acres of palustrine forested wetland. An asymmetrical widening design has been selected to avoid and minimize wetland impacts where possible. In addition, ecology embankments are proposed in several locations which further minimize impacts to wetlands.

This project is a "design-build" project and many details have not yet been finalized. However, it will be required that all temporary staging or access roads avoid wetland or stream impacts beyond those described above. In addition, avoidance measures such as headwalls and wingwalls where culverts outfall near

sensitive areas have not been designed for specific locations. These details will be developed and analyzed prior to a permit decision. It is anticipated that this design work may result in a slight decrease in total impacts.

PURPOSE: To provide traffic congestion relief between SR 520 and SR 522 in the I-405 corridor.

ADDITIONAL INFORMATION: Sound Transit is also proposing work near this project. A project to construct direct access HOV ramps in the vicinity of NE 128th Street received Corps approval on December 9, 2004 (Reference number 200400817.) In addition, Sound Transit is proposing to impact wetlands for work in the vicinity of the NE 124th Street interchange (Reference number 200500223) though this project has not yet been approved.

MITIGATION: The proposed mitigation includes wetland creation and enhancement at three sites including the Forbes Lake East, Forbes Lake West, and Thrasher's Corner sites. The draft mitigation plan proposes to create 2.301 acres of wetlands, enhance 1.864 acres of wetlands, and preserve 3.968 acres of wetlands as mitigation for unavoidable impacts. In addition, 2.027 acres of upland buffer areas is proposed to be enhanced. The U.S. Army Corps of Engineers will be evaluating the proposed mitigation plan to determine if it will provide adequate mitigation for project specific impacts.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of ESA on all actions that may affect a species listed under the ESA as threatened or endangered or any designated critical habitat. The Puget Sound Chinook (*Oncorhynchus tshawytscha*), threatened, and Puget Sound bull trout (*Salvelinus confluentus*), threatened in the state of Washington, occur in the proposed project area. The Federal Highway Administration (FHWA), as the lead agency for ESA consultation, has consulted with the NMFS and the USFWS as required under Section 7 of the ESA. They have determined that the project may affect, but is not likely to adversely effect listed species. The NMFS concurred on October 28, 2004 (Reference number: 2004/00886) and the USFWS concurred on October 25, 2004 (Reference number: FWS 1-3-04-I-1116).

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH for Pacific salmon in the project area. The FHWA, as the lead agency for a determination regarding EFH, has consulted with the National Marine Fisheries Services. They have determined that the project may adversely affect EFH species. On October 28, 2004, NMFS concurred with this determination (Reference number: 2004/00886) and did not propose any additional conservation recommendations beyond those actions to be taken to protect listed species.

CULTURAL RESOURCES: The FHWA, as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act, has conducted a cultural resource survey and determined that no resources eligible for listing in the National Register of Historic Places will be affected. The State Historic Preservation Office concurred with this determination on February 17, 2005 (Log Number 021405-01-FHWA.) This public notice initiates consultation under Section 106 of the National Historic Preservation Act (36 CFR 800.4[a][3]), with any Tribe that has information or concerns with historic properties in the proposed permit area.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

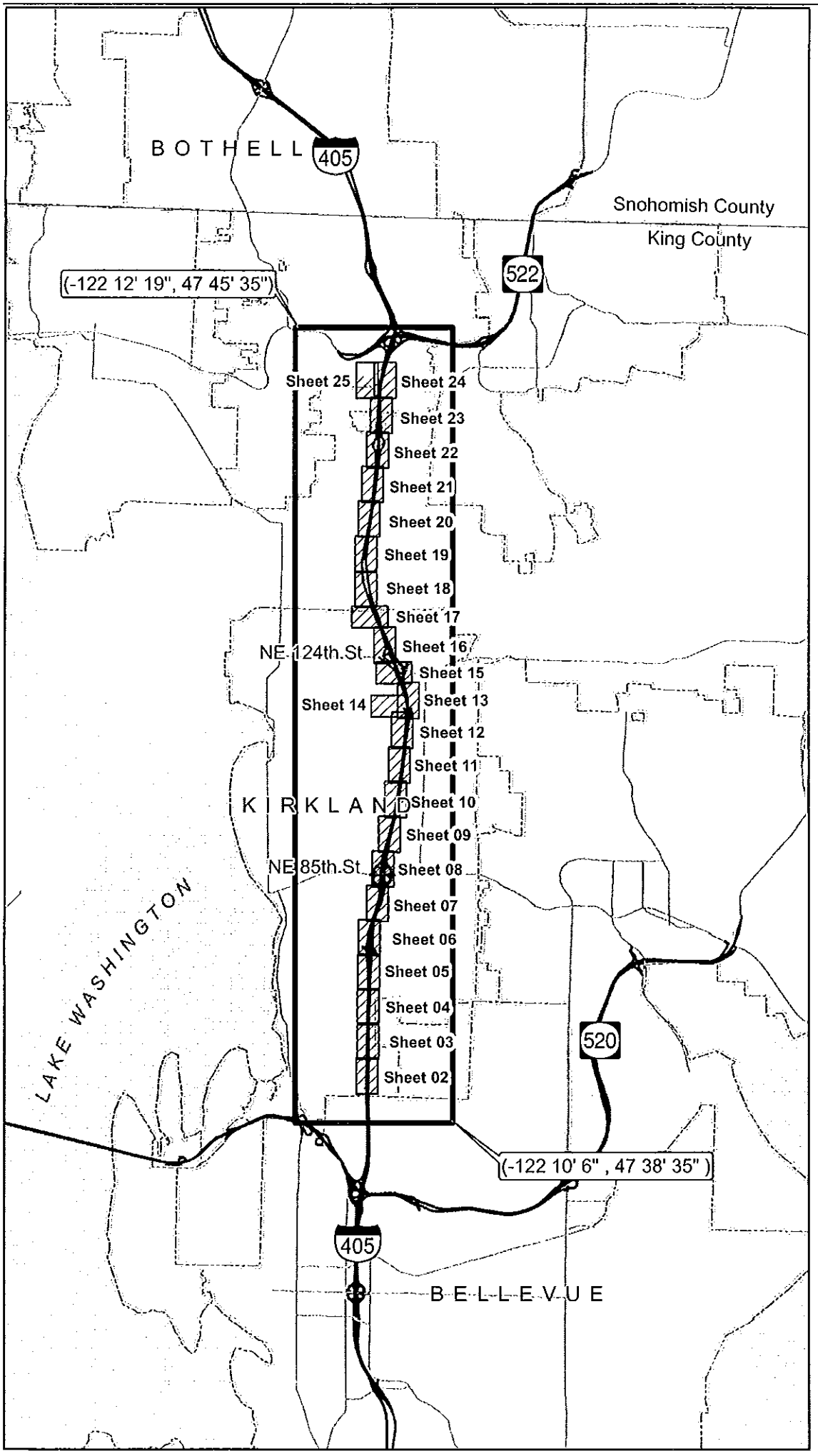
The U.S. Army Corps of Engineers is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

ADDITIONAL EVALUATION: The State of Washington is reviewing this work for consistency with the approved Washington Coastal Zone Management Program and for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to Kathryn.J.Stenberg@usace.army.mil. Conventional mail comments should be sent U.S. Army Corps of Engineers, Regulatory Branch, Post Office Box 3755, Seattle, Washington, 98124-3755. Both conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentor's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration. Please include the following name and reference number:

Washington State Dept. of Transportation, 200401410

Encl
Drawings (54)




**Plan View**
Sheets 2 to 25

**Sections**
Sheets 26 to 45

**Typical Details**
Sheets 46 to 48

**Forbes Creek Details**
Sheets 49 to 53

**Mitigation Site Vicinity Map**
Sheet 54

**Legend**

- Arterial Road
- Freeway
- Lake
- Municipality
- Permit Area

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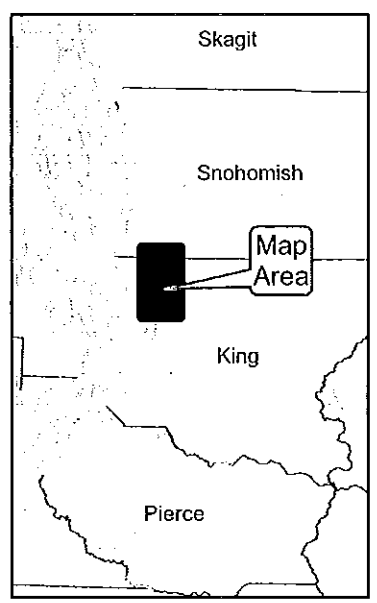
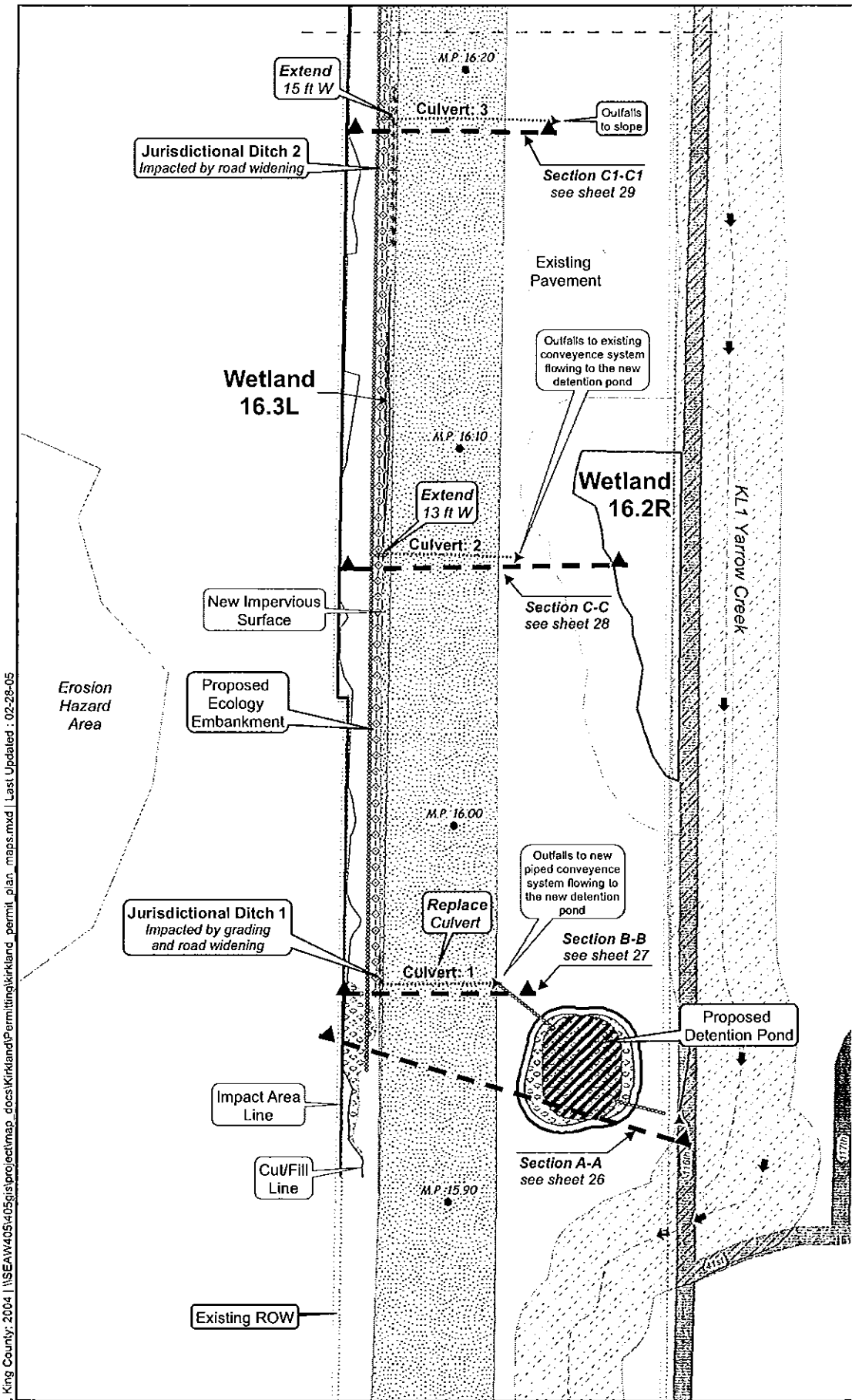



**I-405, SR 520 to SR 522**
**Reference: 200401410**
Applicant: WSDOT
In: King County, WA
Date: 2/28/2005

Sheet 1 of 54




**Legend**

- Proposed Outfalls
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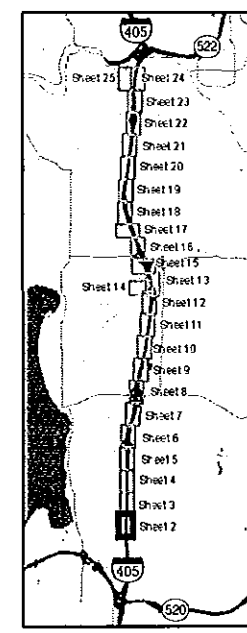



**WETLAND IMPACTS (sf)**

| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 16.3L | 0 | 1360 | 0 |

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

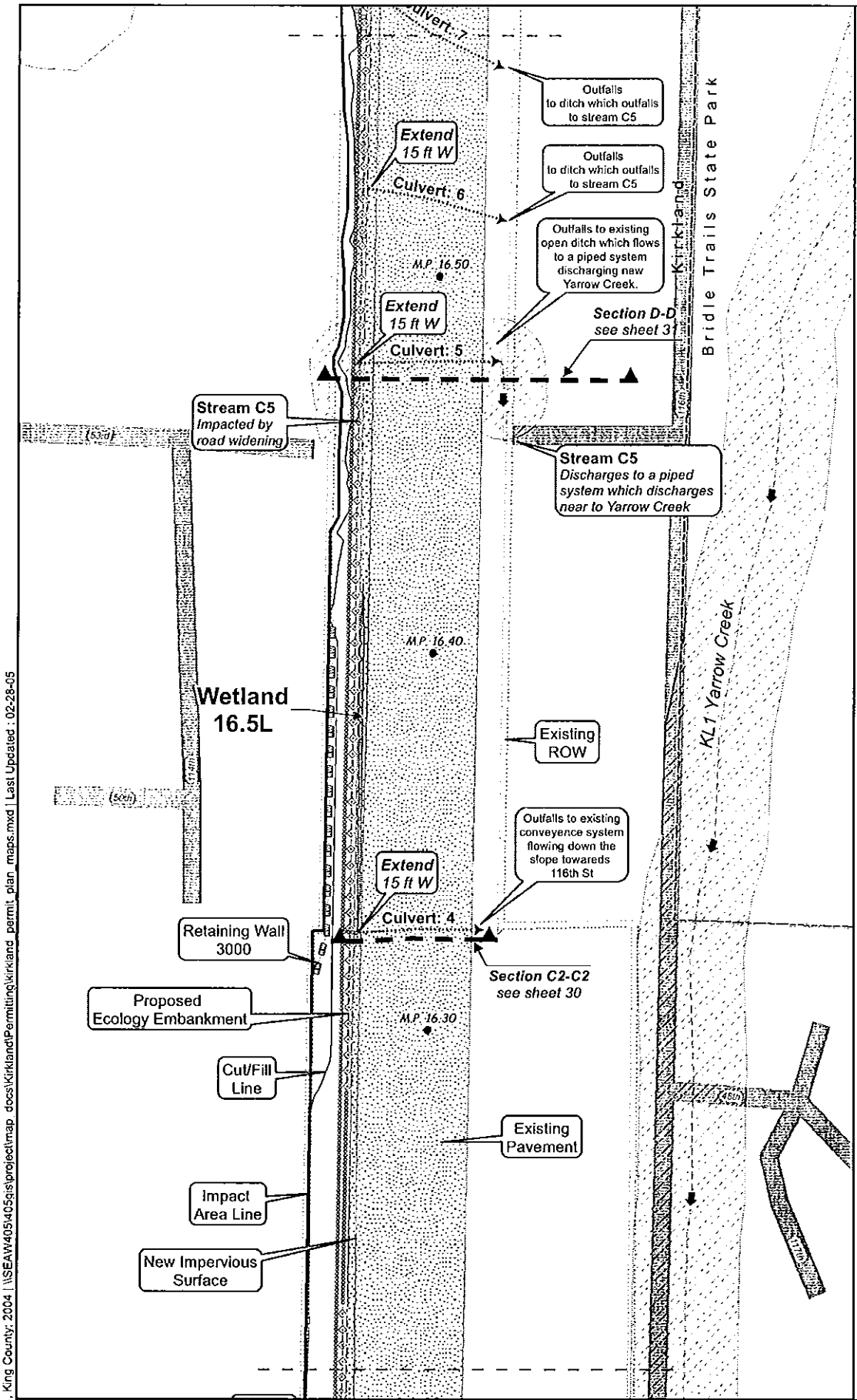
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 2 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05

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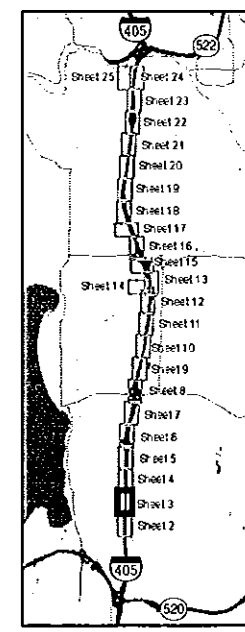


**WETLAND IMPACTS (sf)**

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| 16.5L | 0 | 2802 | 0 |

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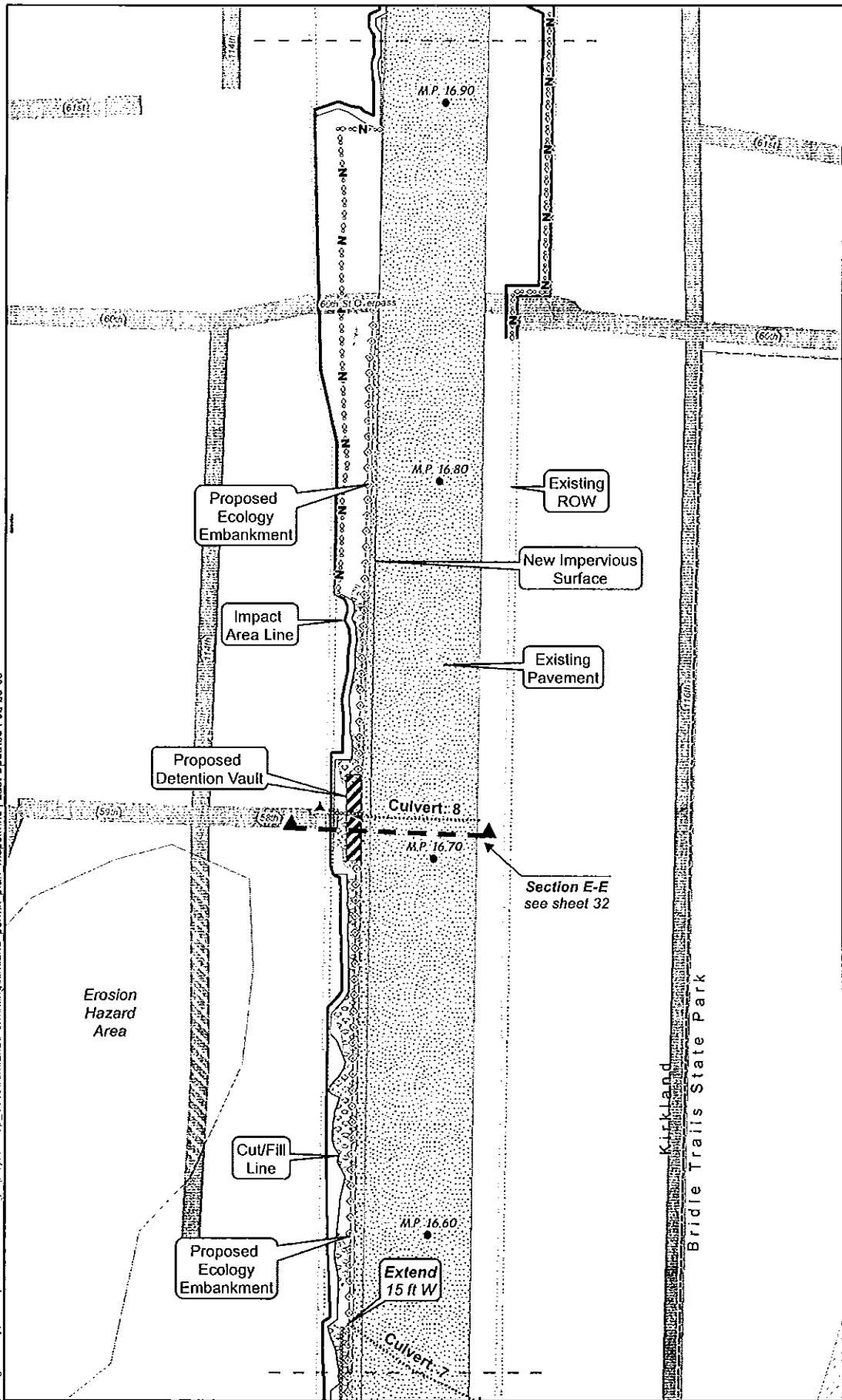


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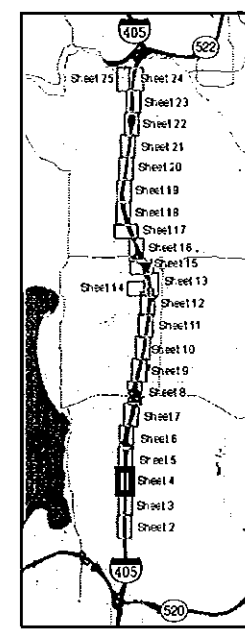


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**SHEET 4 of 54**

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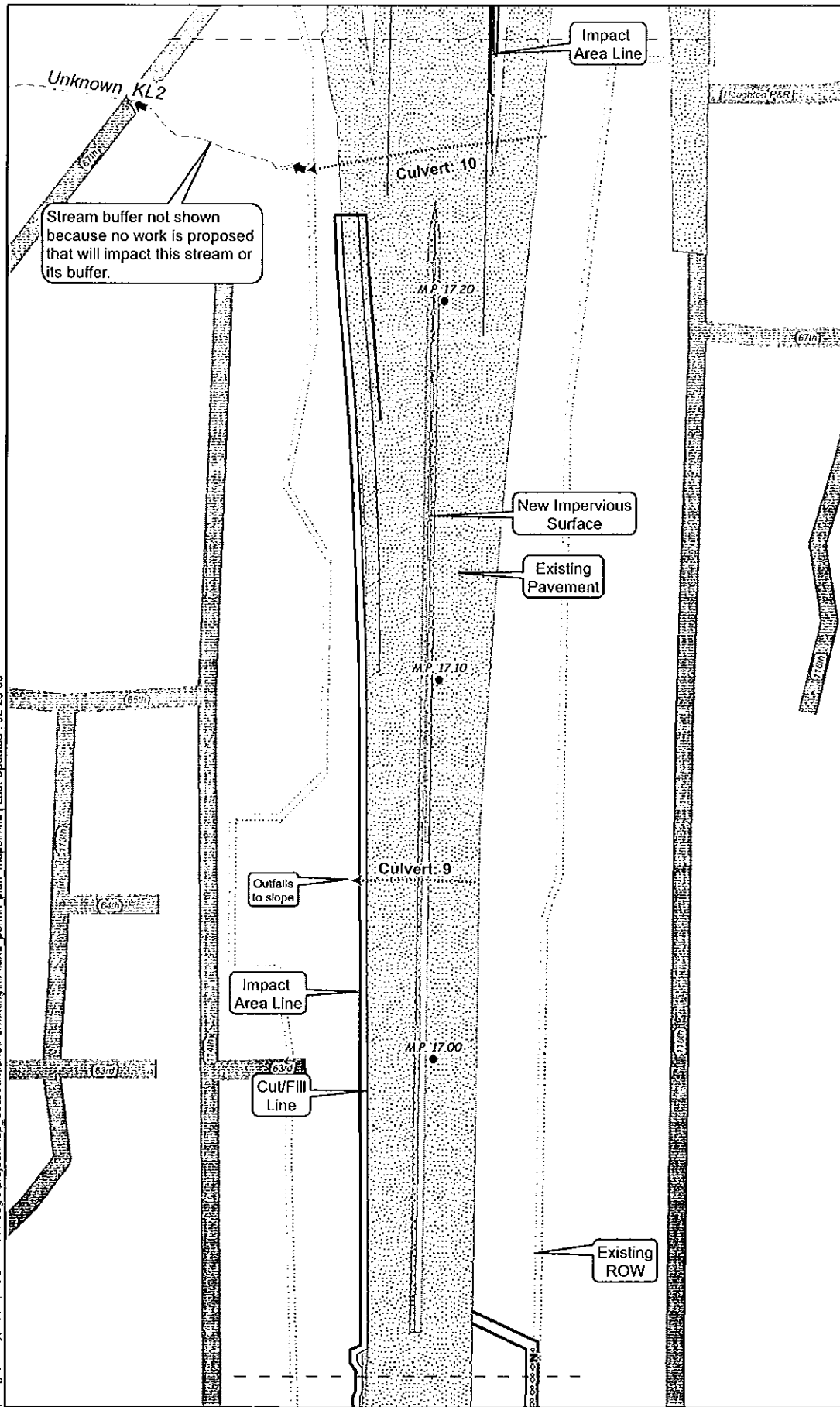


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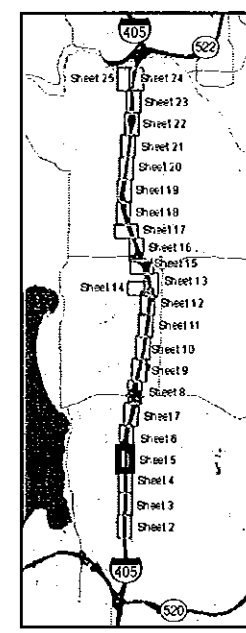


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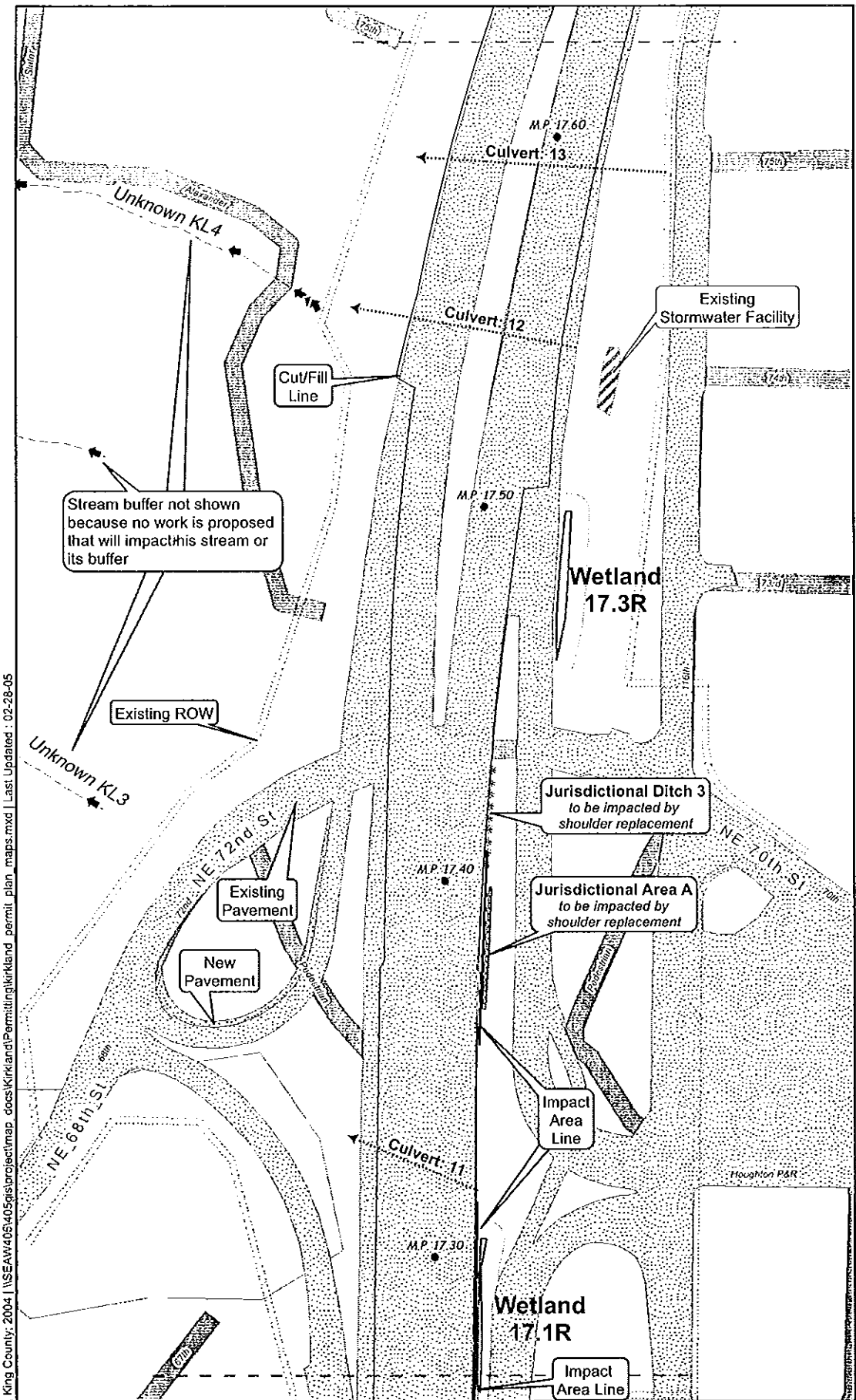


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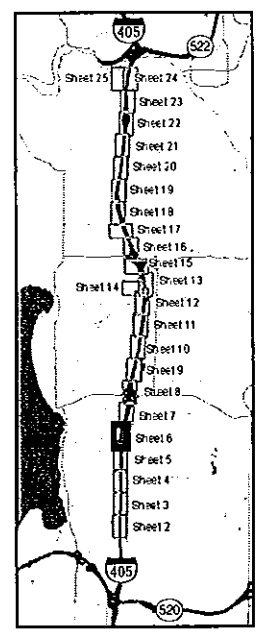


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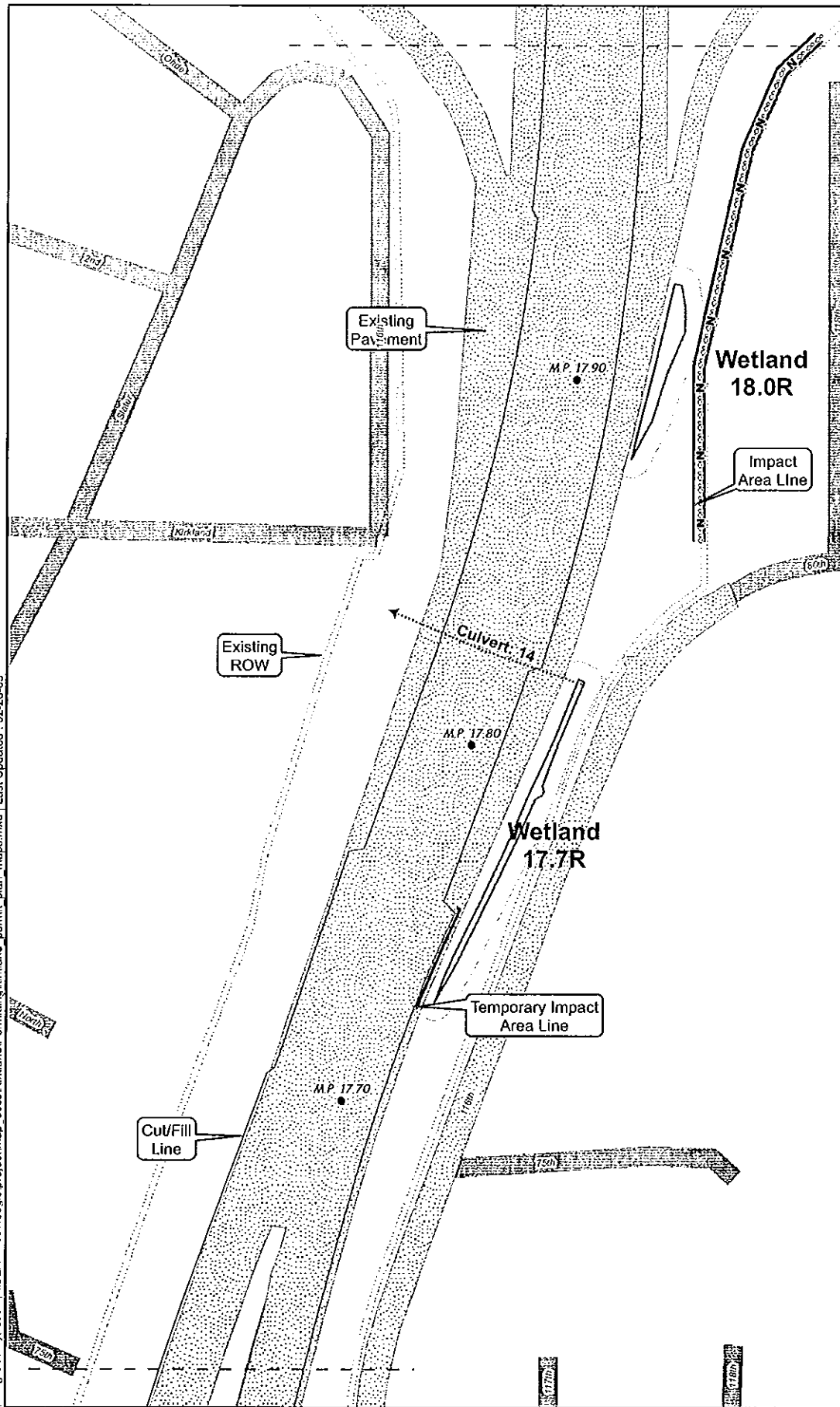


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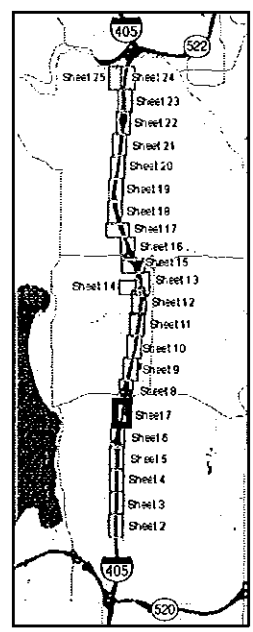


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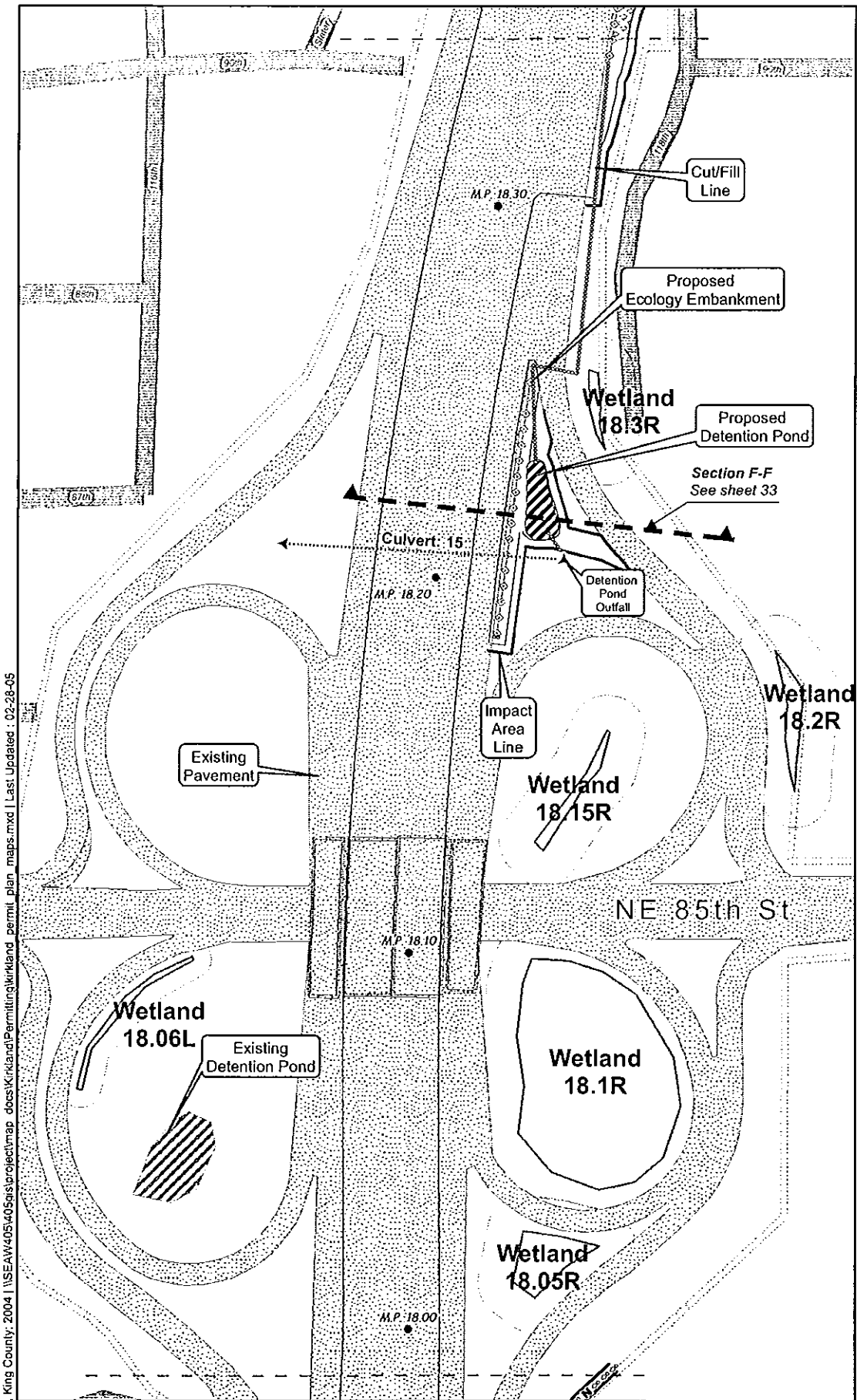


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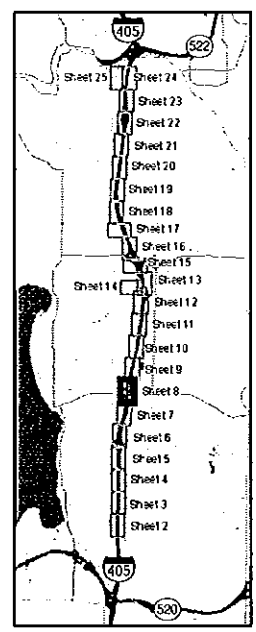


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**SHEET 8 of 54**

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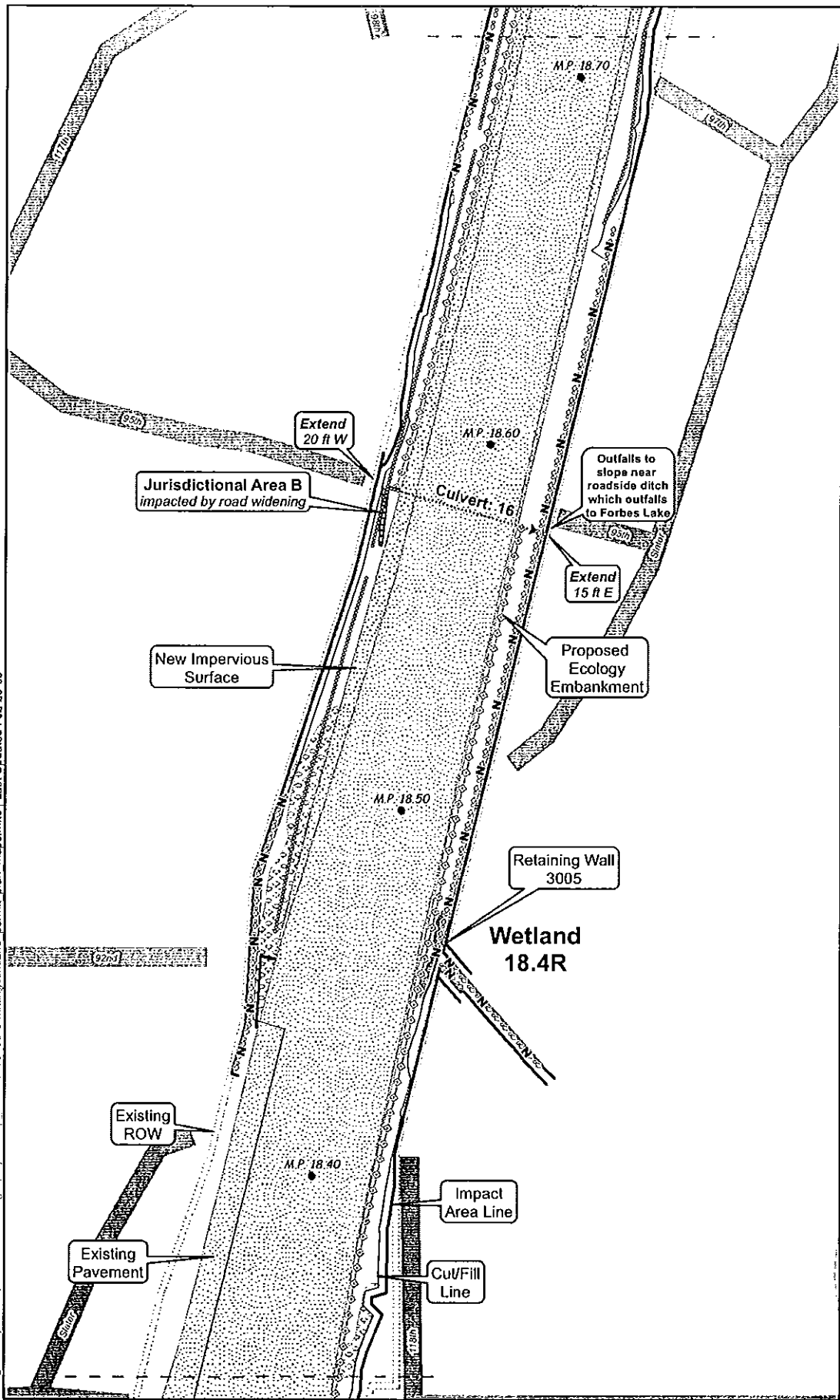


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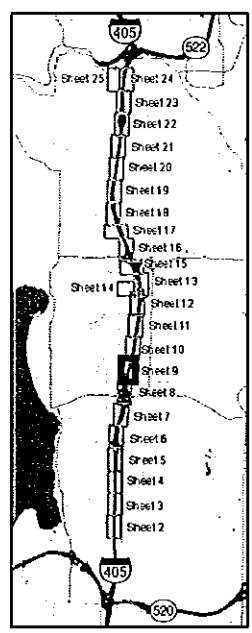
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 18.4R | 0 | 1622 | 0 |

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

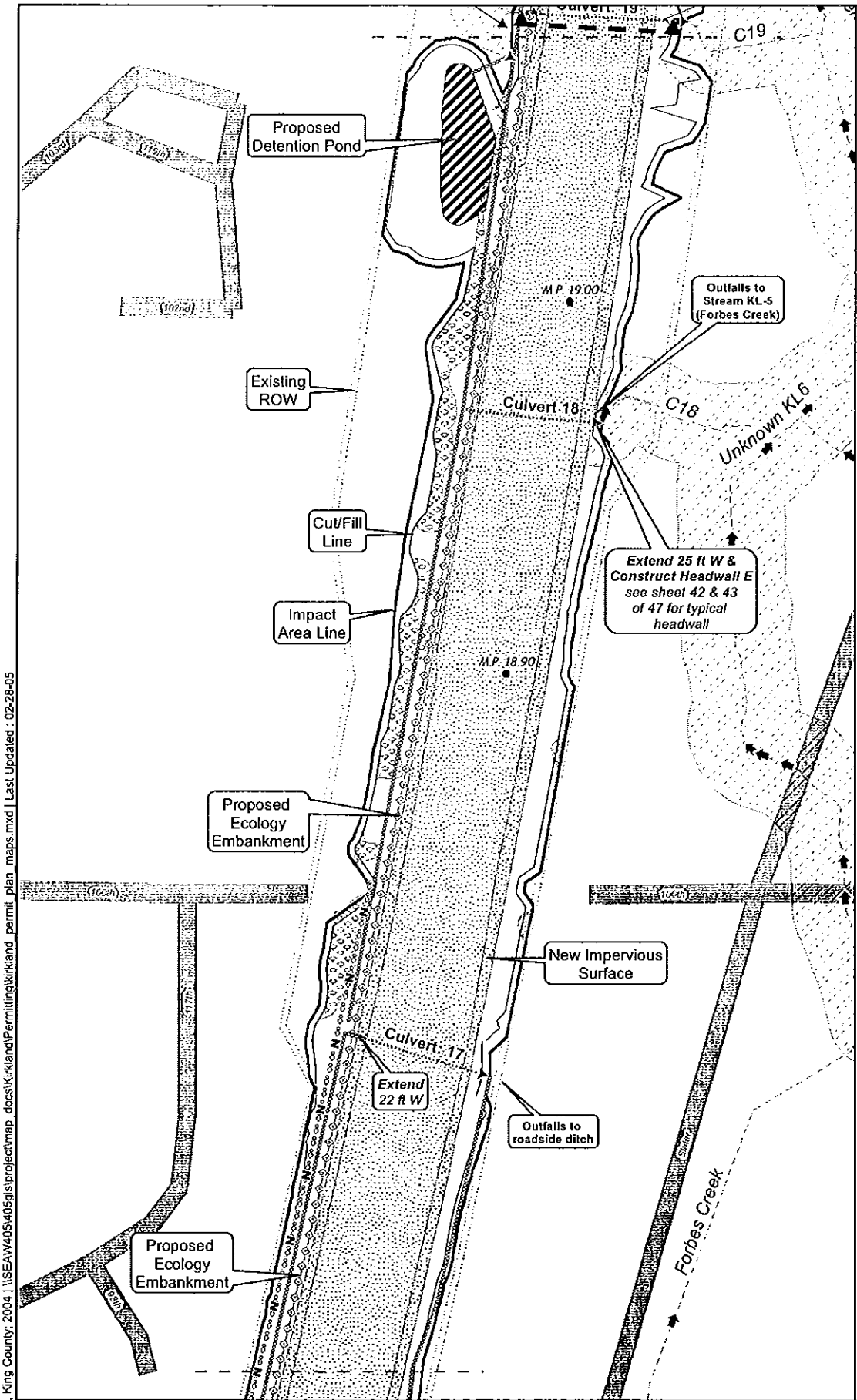
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 9 of 54

Source: WSDOT: 2004, King County: 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
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- Proposed Noise Wall
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- Stream Impact Buffer
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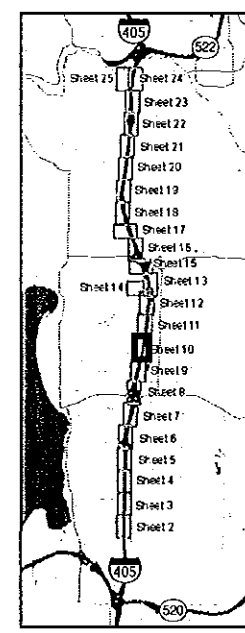
- Municipality Boundary




**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

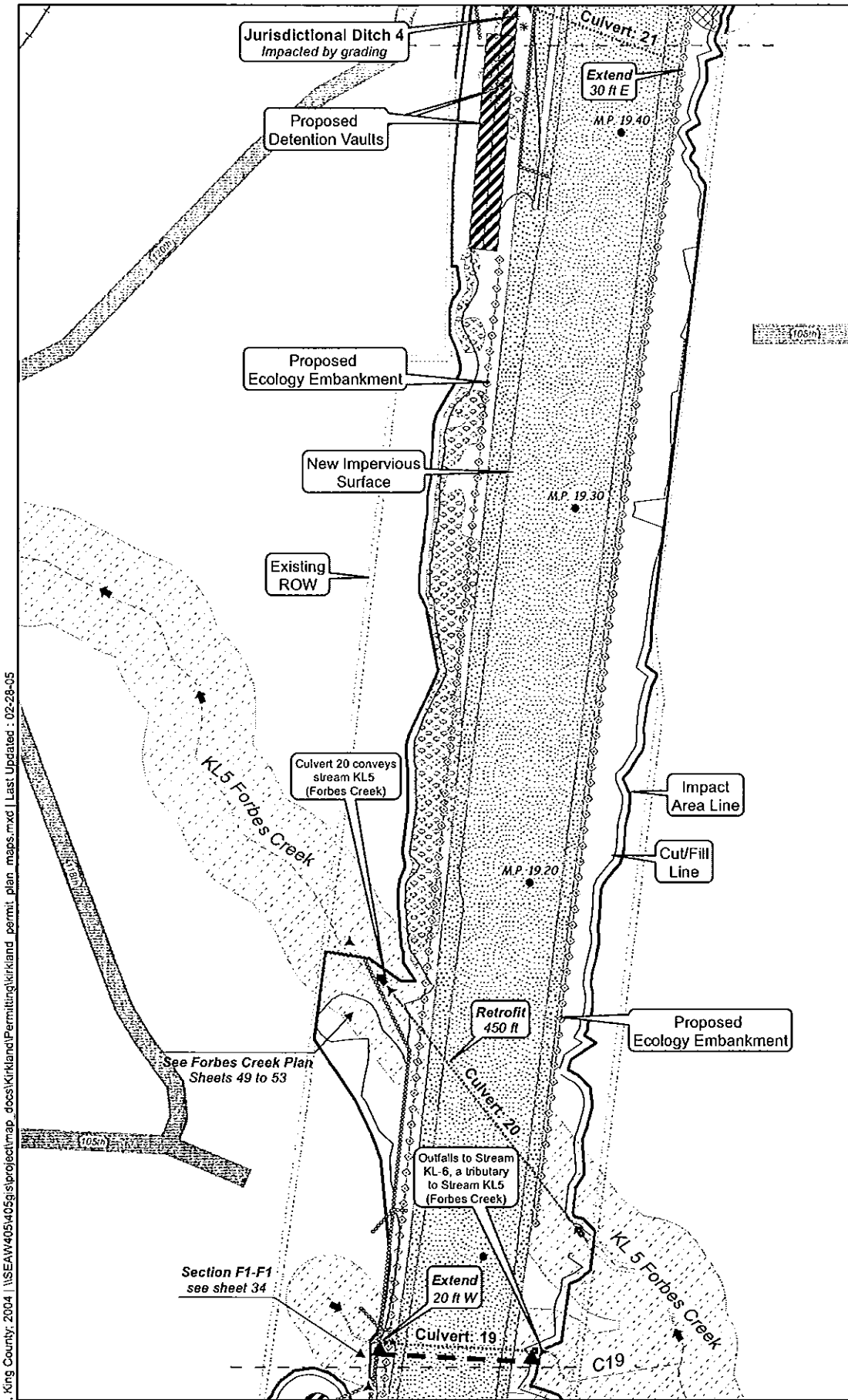
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 10 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




## Legend

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
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- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
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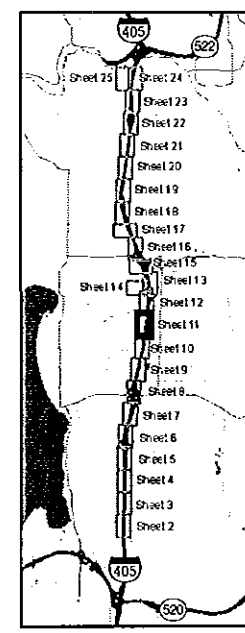
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

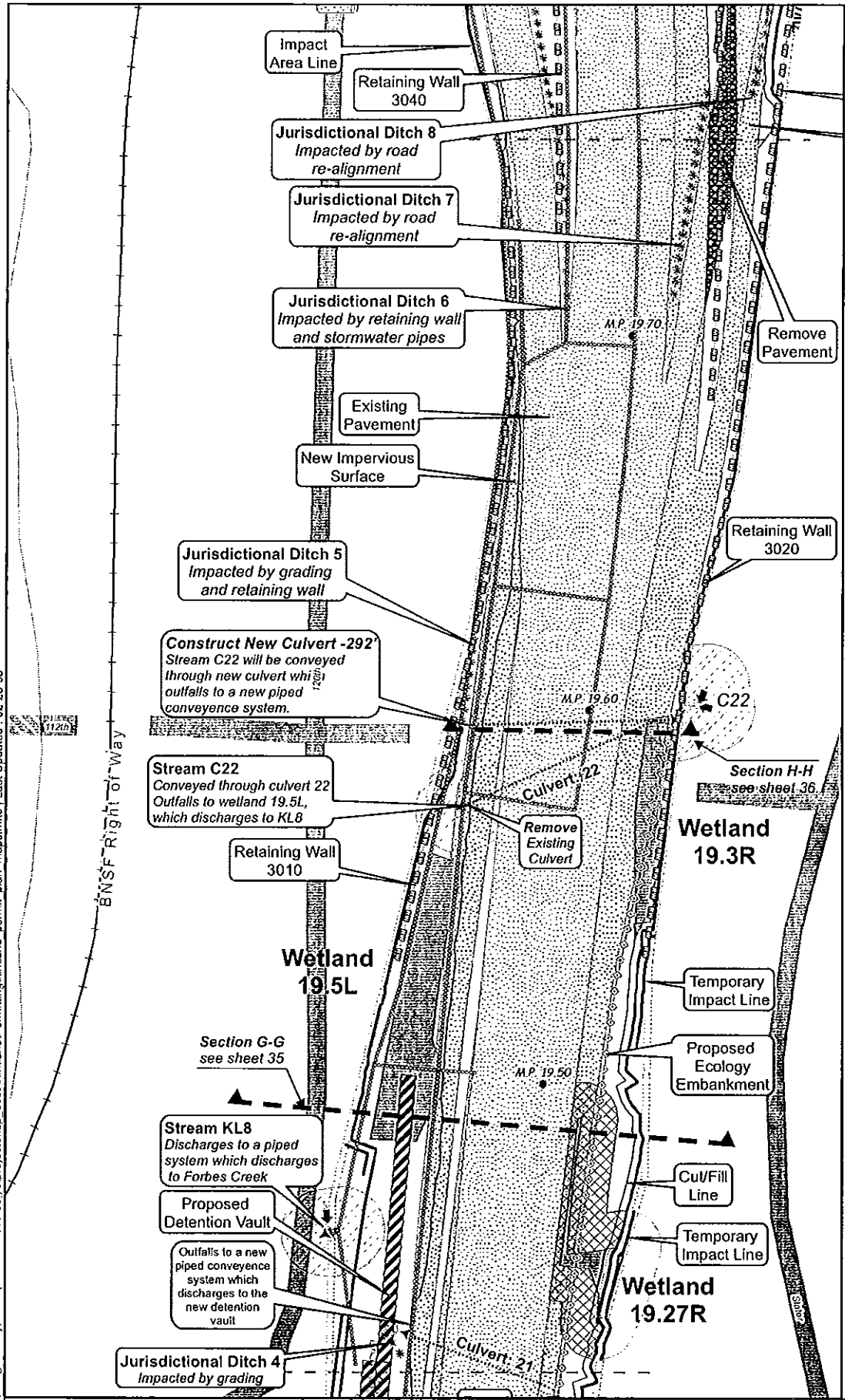
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S
0 100 200
Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 11 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 19.27R | 984 | 3418 | 0 |
| 19.3R | 0 | 10823 | 0 |
| 19.5L | 0 | 24999 | 0 |

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

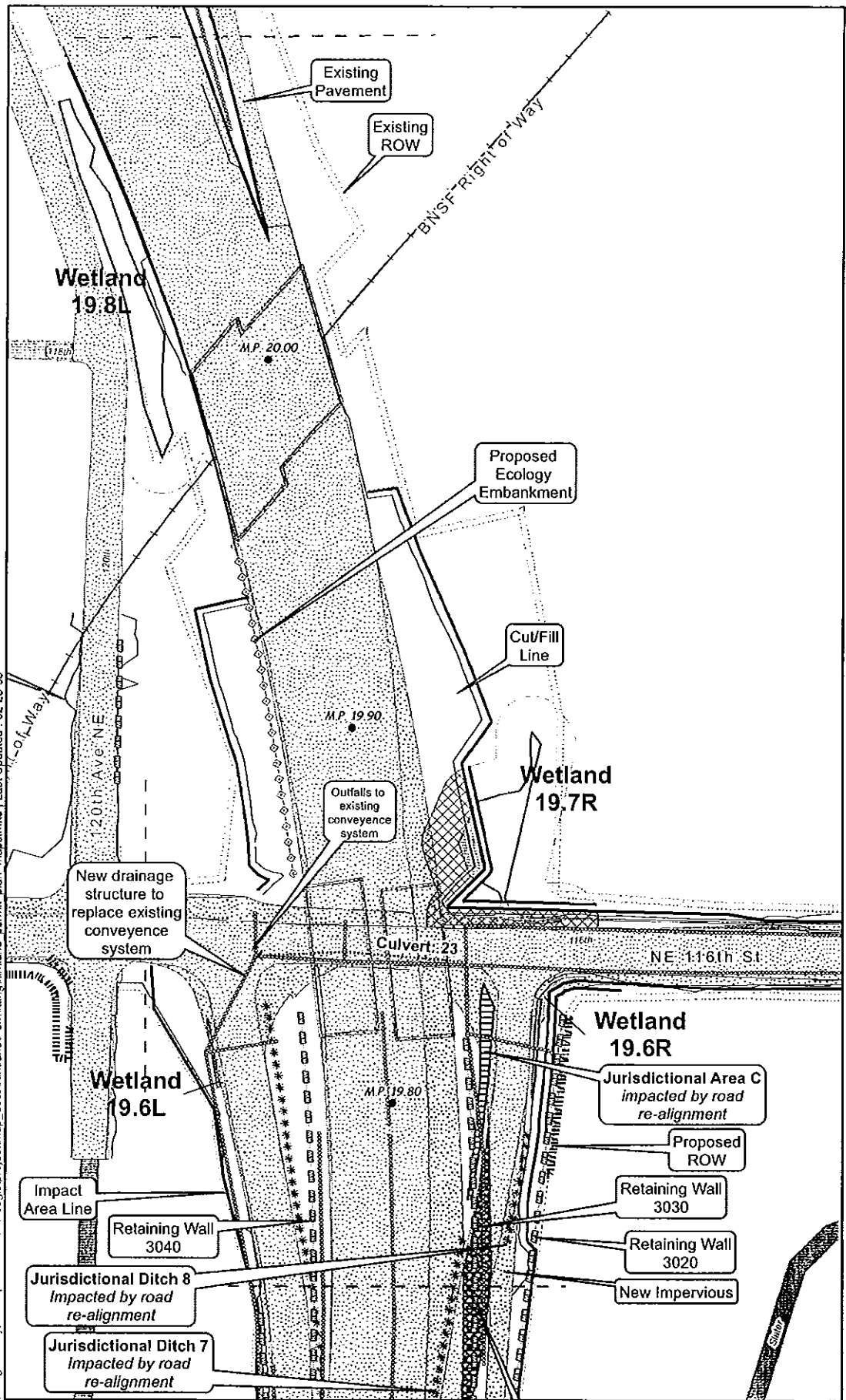
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 12 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\Kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
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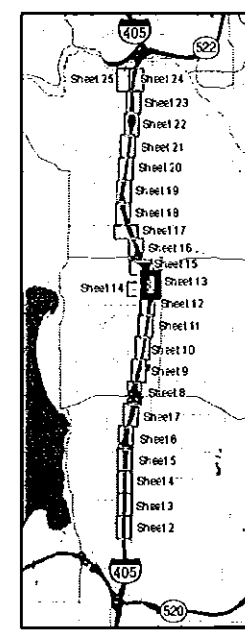
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 19.6R | 0 | 2216 | 0 |
| 19.6L | 0 | 481 | 0 |
| 19.7R | 1103 | 7127 | 0 |

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

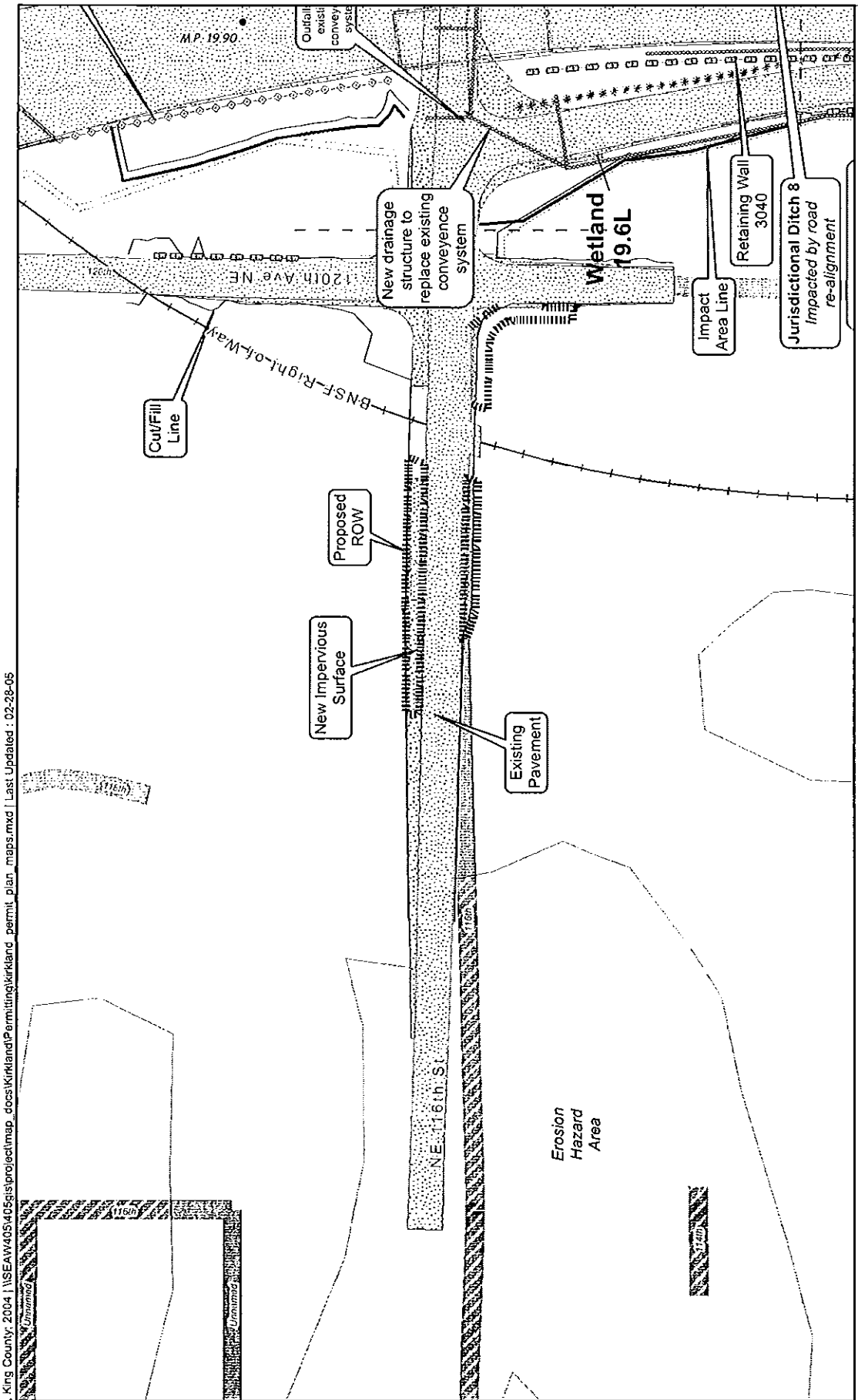
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 13 of 54

Source: WSDOT: 2004, King County: 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




## Legend

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
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- Jurisdictional Ditch
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- Bridge
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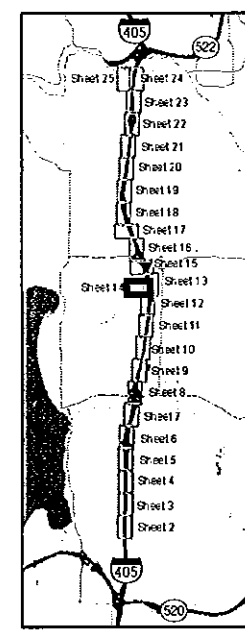
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




**WETLAND IMPACTS (sf)**

| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 19.6L | 0 | 481 | 0 |

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

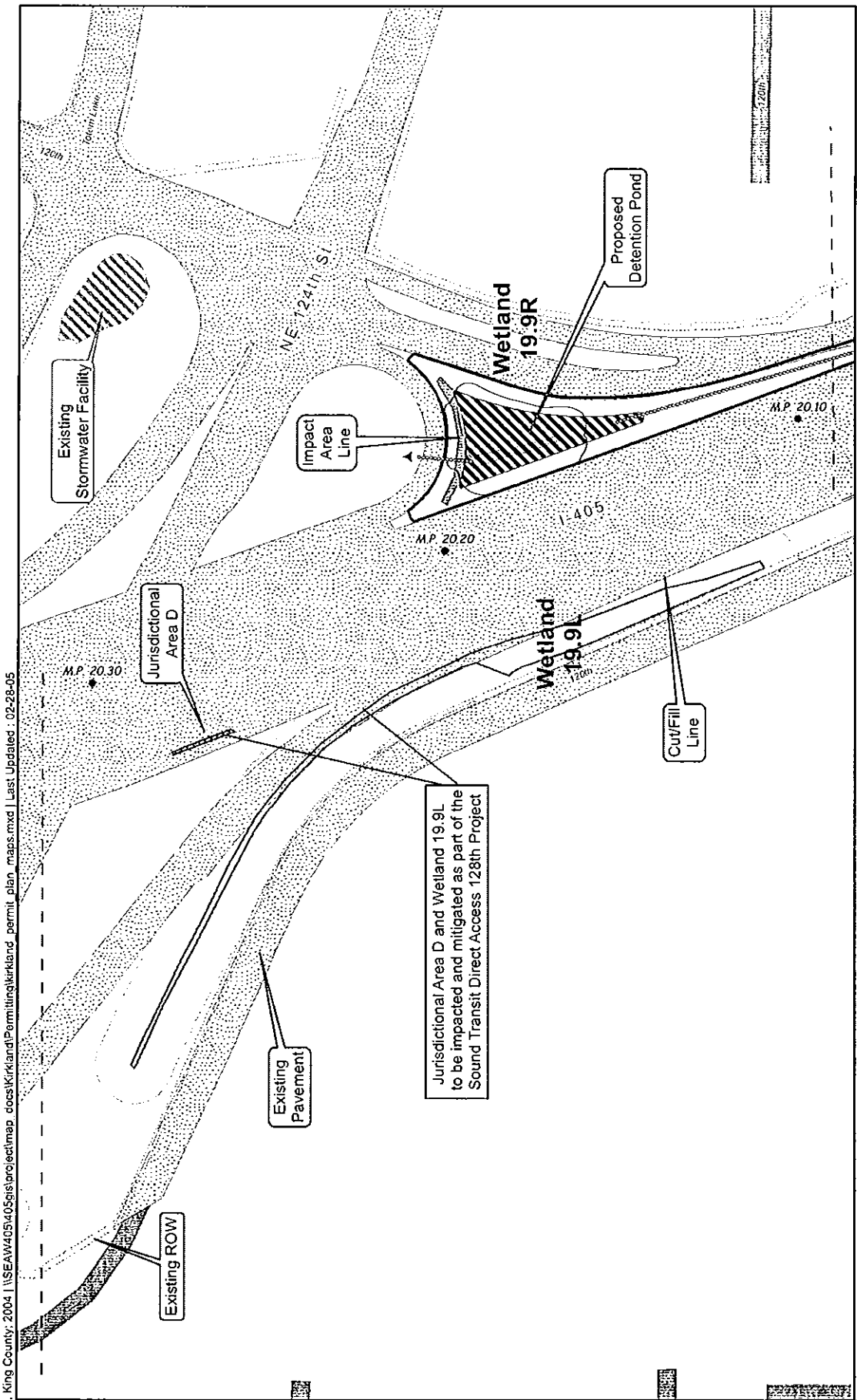
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD88

**SHEET 14 of 54**

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
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- Proposed Ecology Embankment
- Bridge
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- 100Yr Floodplain
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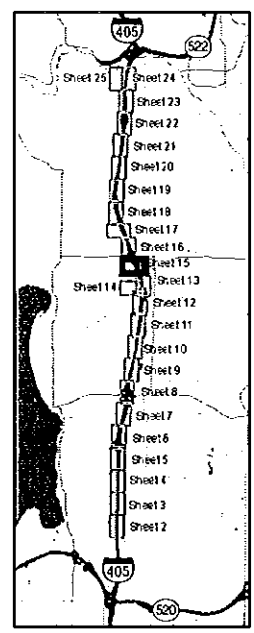
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 19.9R | 0 | 3021 | 790 |

**I-405, SR520 to SR522**

REFERENCE:

**200401410**

APPLICANT: WSDOT

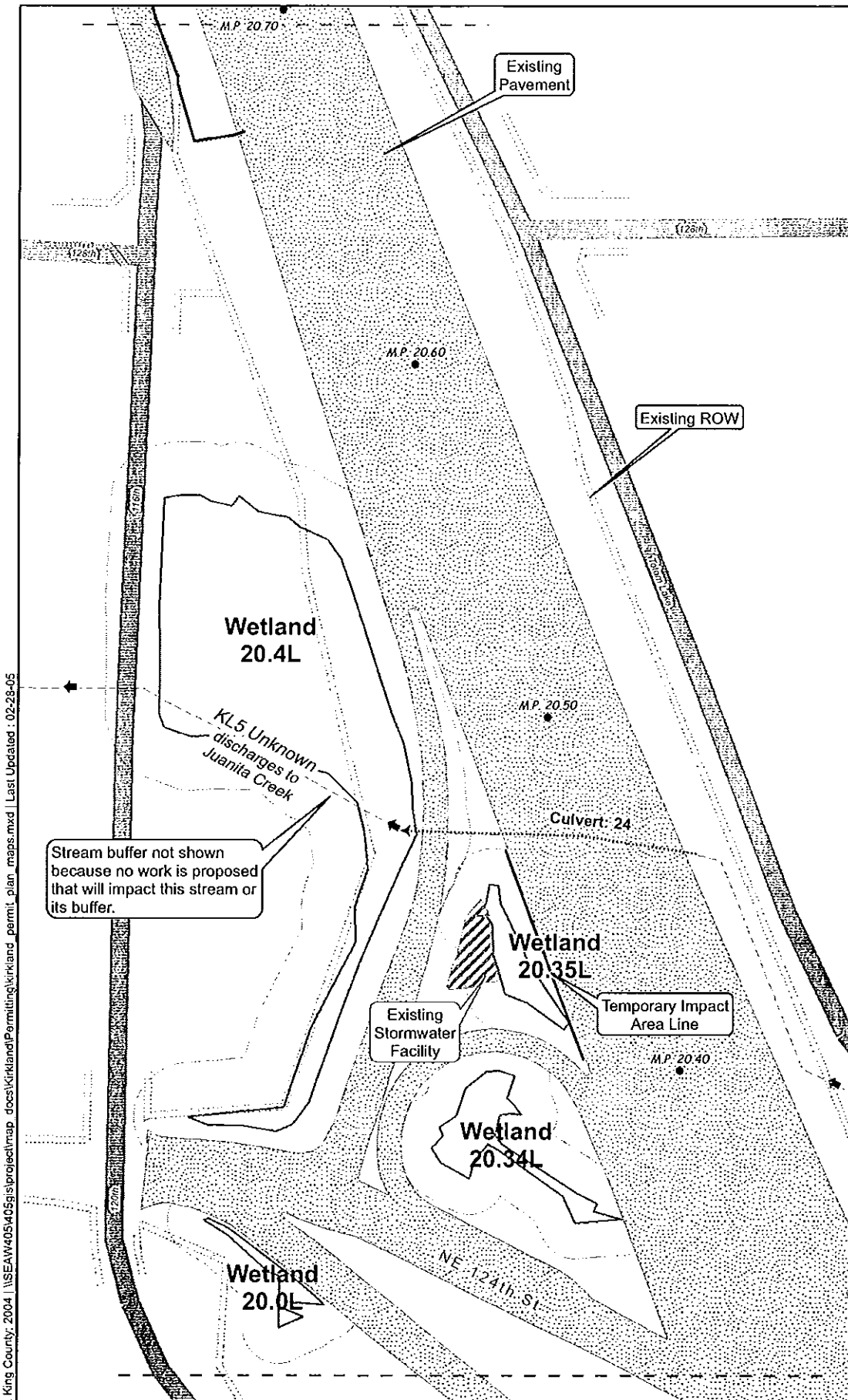
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 15 of 54

Source: WSDOT; 2004; King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
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- 100Yr Floodplain
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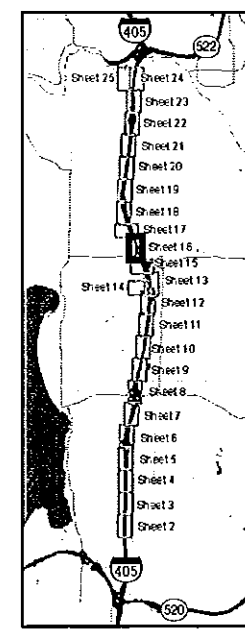
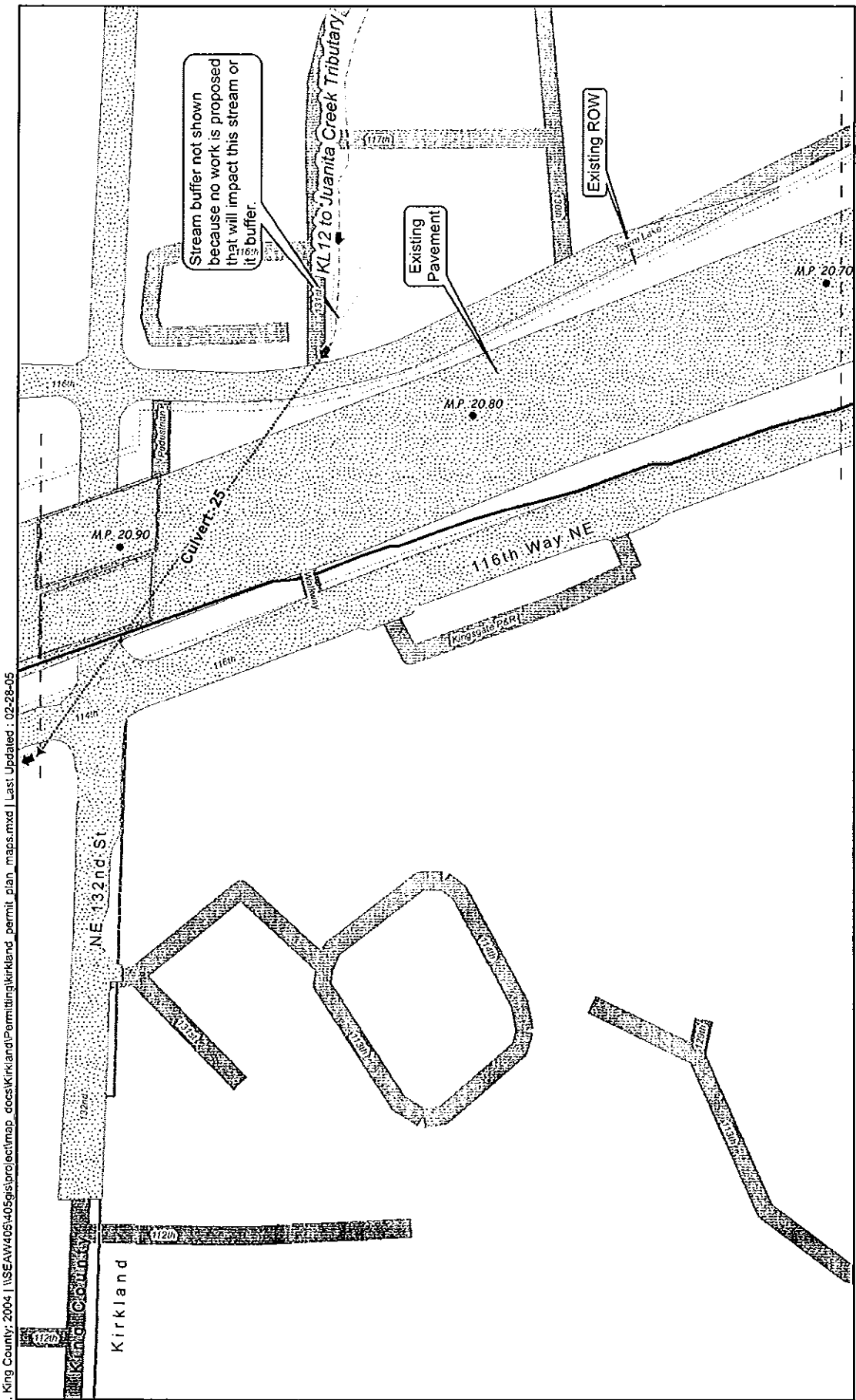
- Municipality Boundary




| NO WETLAND IMPACTS | I-405, SR520 to SR522<br>REFERENCE:<br>200401410<br>APPLICANT: WSDOT | PURPOSE: Roadway Improvements<br>PROPOSED/RETAIN:2.142 acres of impacts to wetlands and other waters of the U.S.<br>IN: Streams and Wetlands<br>AT: Kirkland<br>COUNTY: King STATE: WA<br>DATE: 02/28/2005 | N W E S 0 100 200 Feet<br>HORIZONTAL DATUM: NAD 83/91<br>VERTICAL DATUM: NAVD88<br>SHEET 16 of 54 |
|---|---|---|---|

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\projectmap_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
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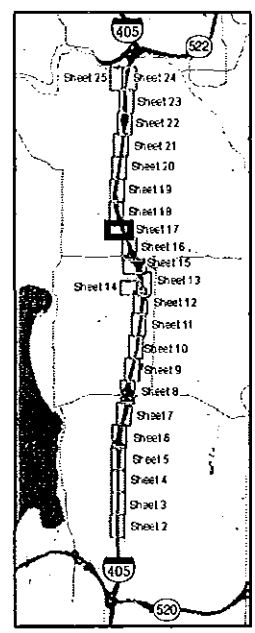



**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

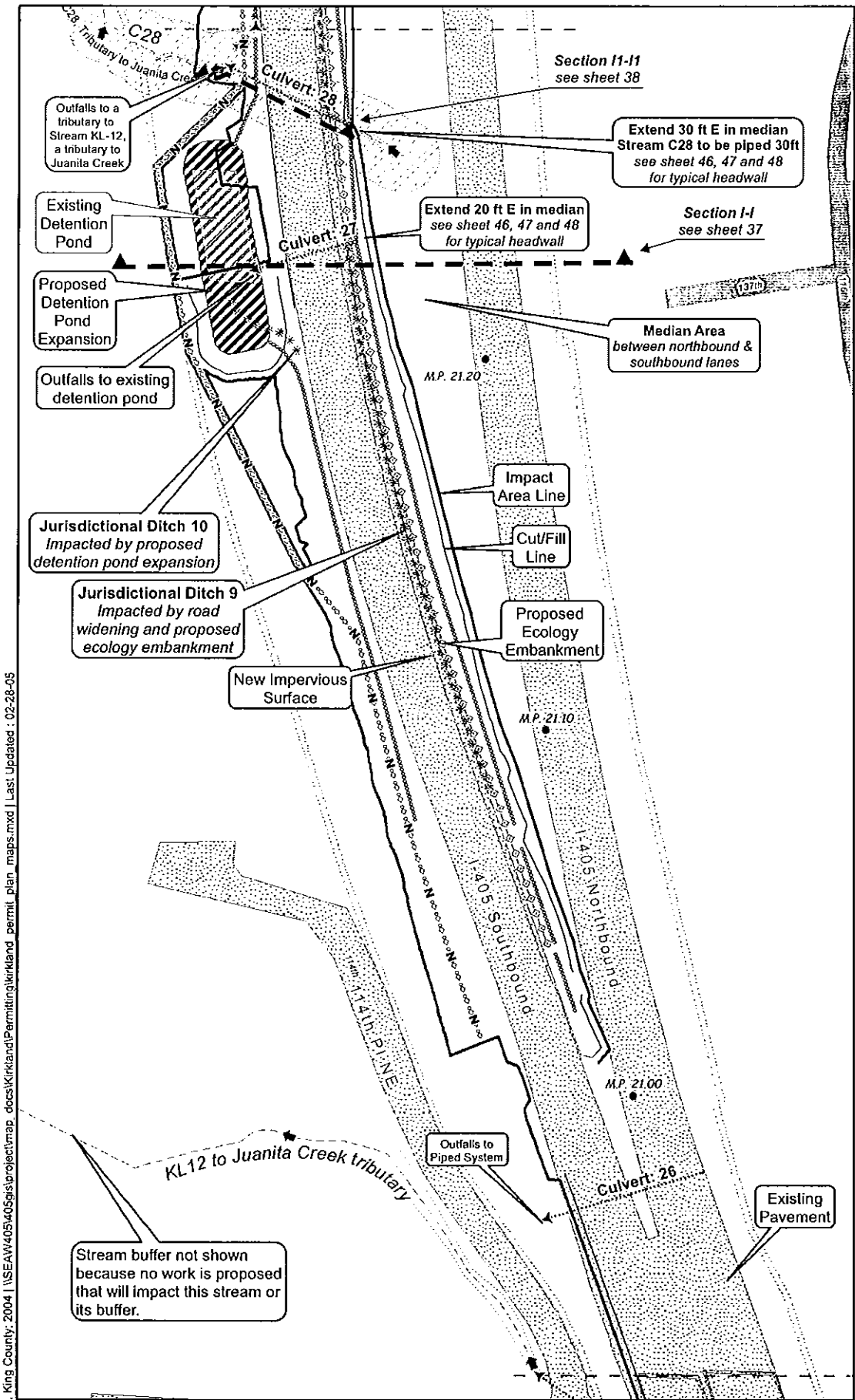
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S
0 100 200
Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 17 of 54

Source: WSDOT: 2004, King County: 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
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- Cross Section
- Impact & Temporary Impact Line
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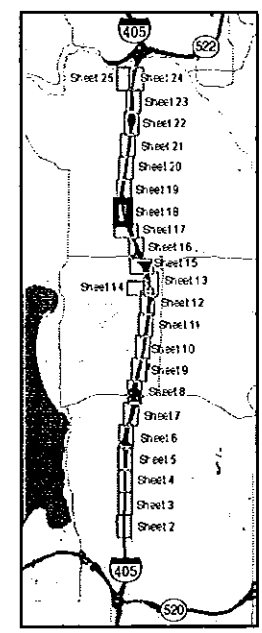



**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

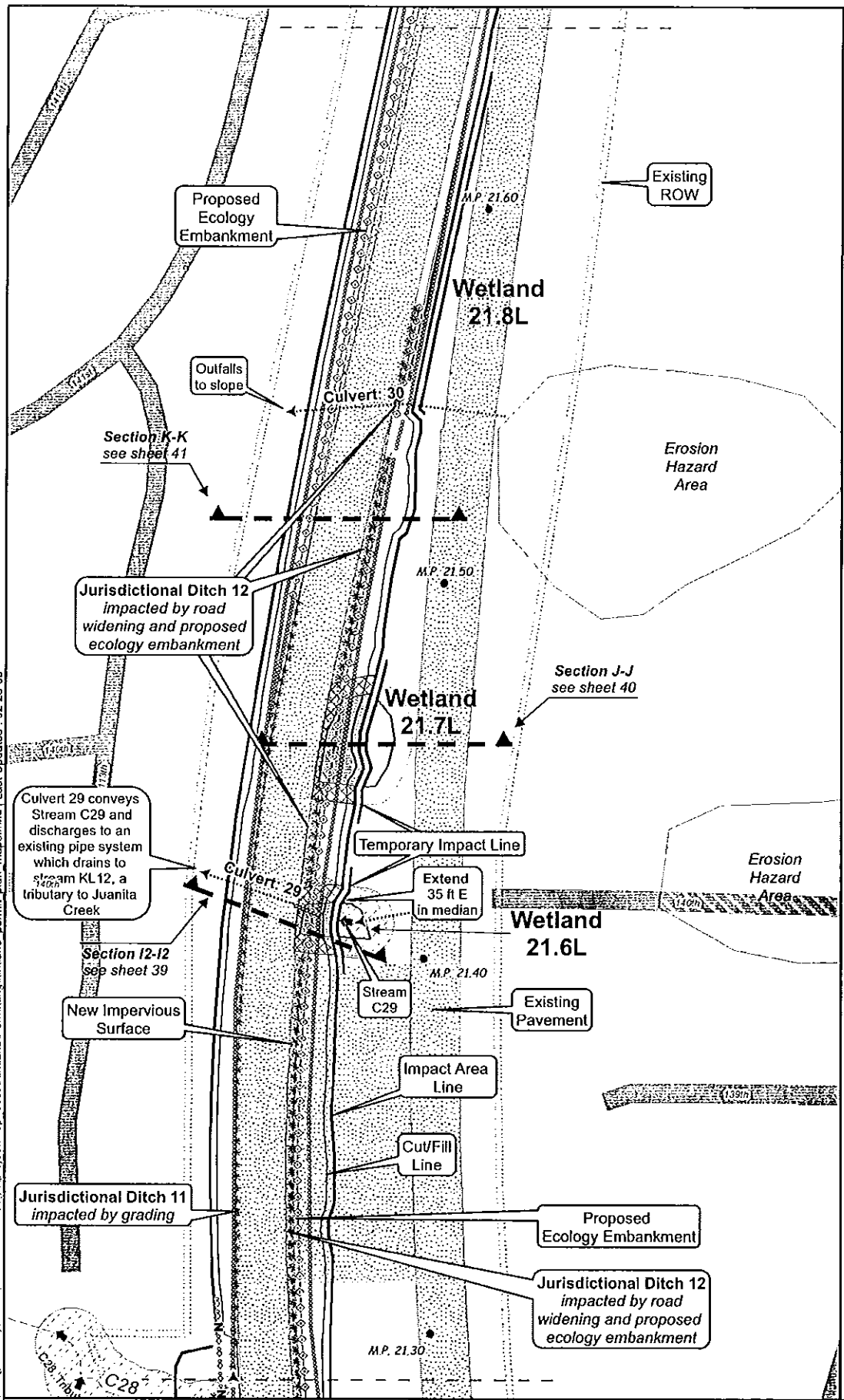
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 18 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
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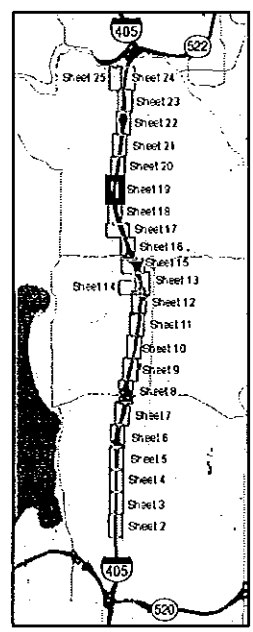



**WETLAND IMPACTS (sf)**

| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 21.6L | 479 | 1850 | 0 |
| 21.7L | 1334 | 6016 | 0 |
| 21.8L | 0 | 2358 | 0 |

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

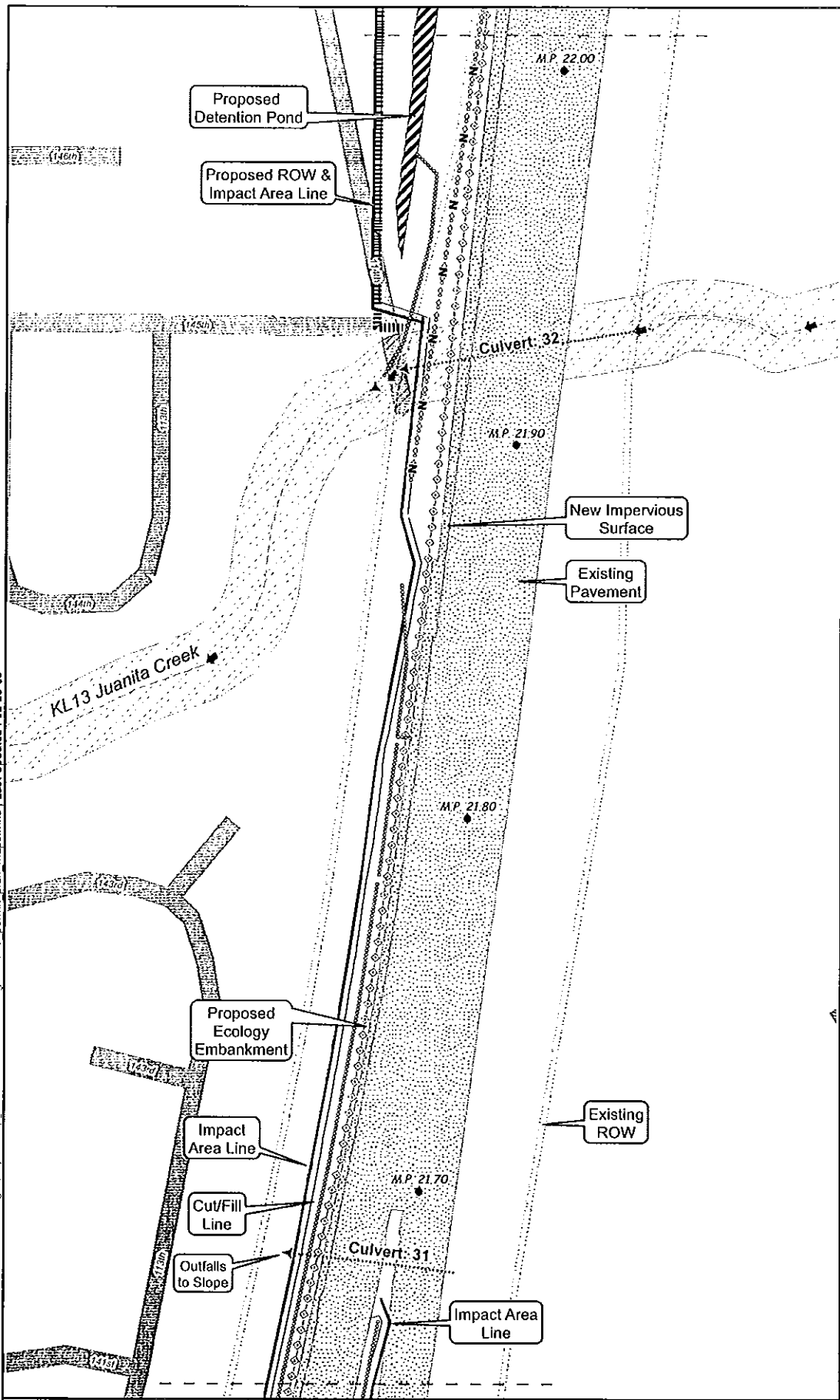
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

SHEET 19 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
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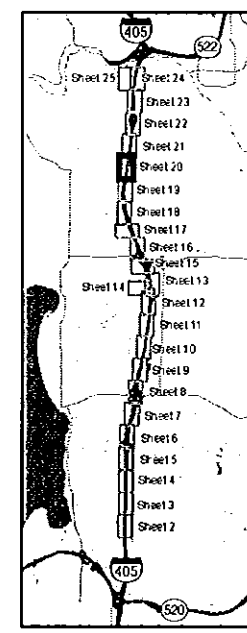
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

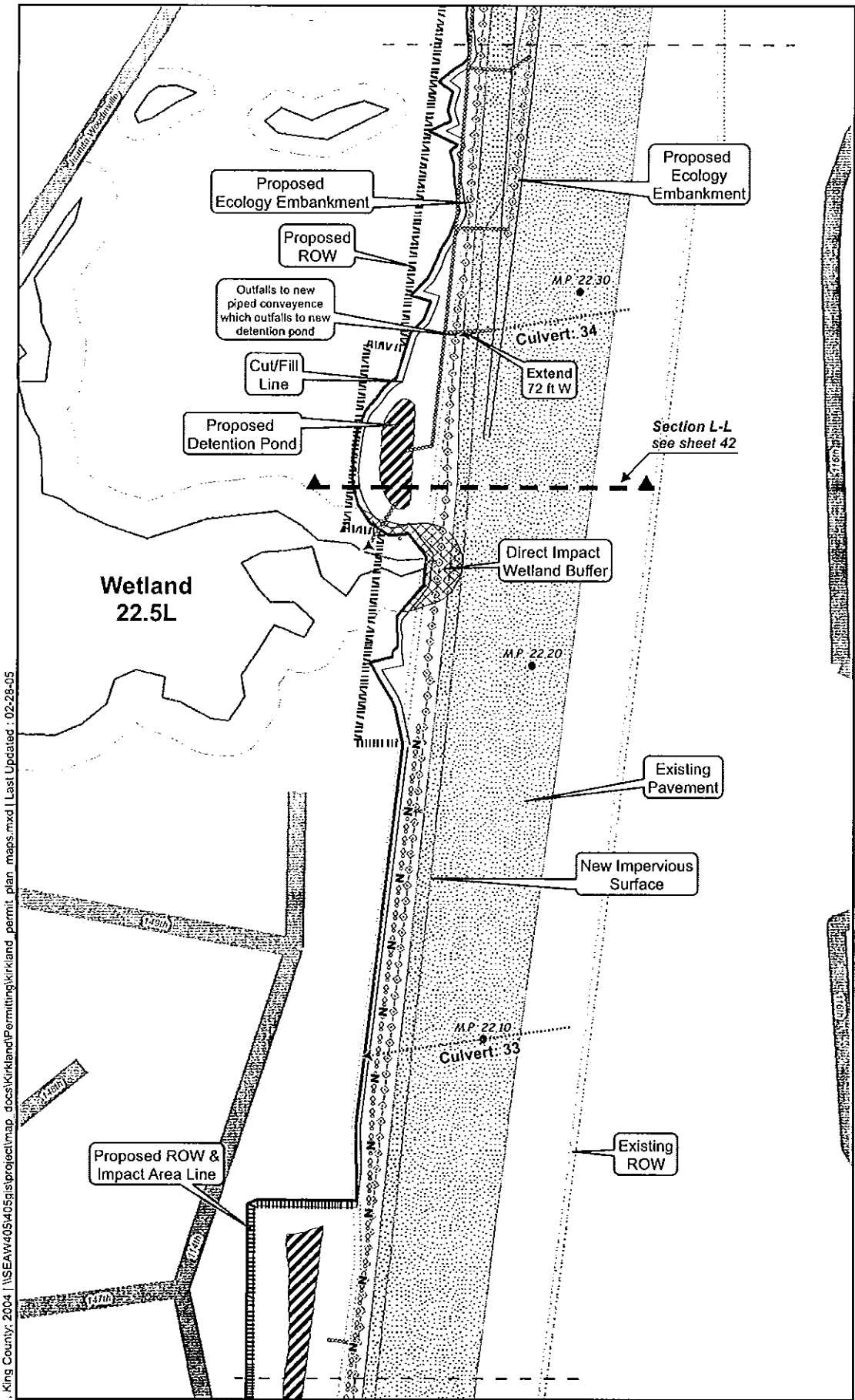
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S
0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

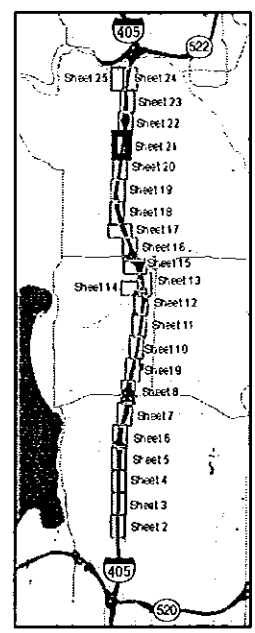
SHEET 20 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\projectmap_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

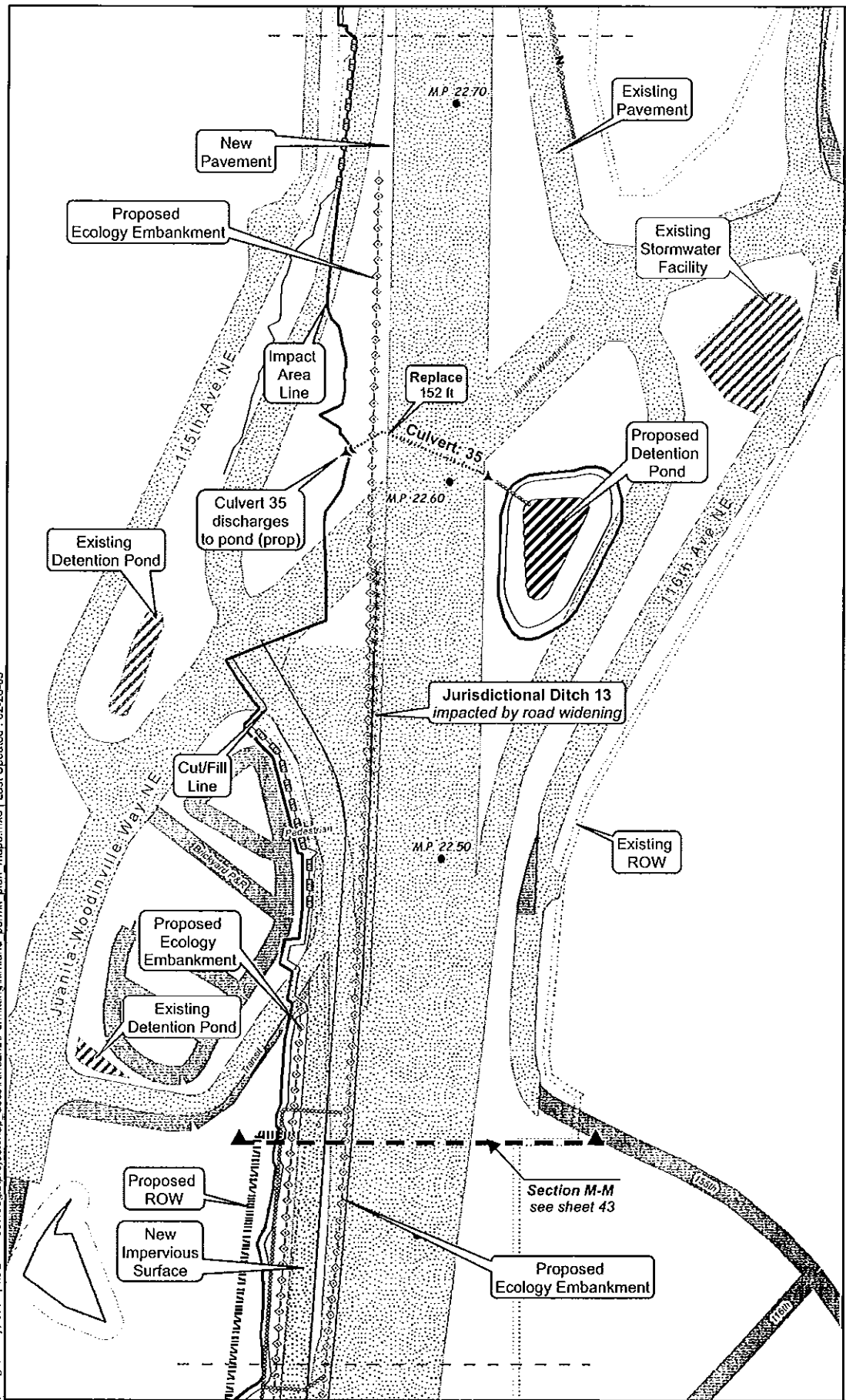
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR:** Bothell
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

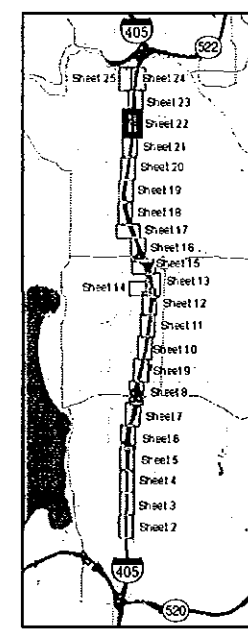


Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




## Legend

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




**NO WETLAND IMPACTS**

**I-405, SR520 to SR522**

REFERENCE:
**200401410**

APPLICANT: WSDOT

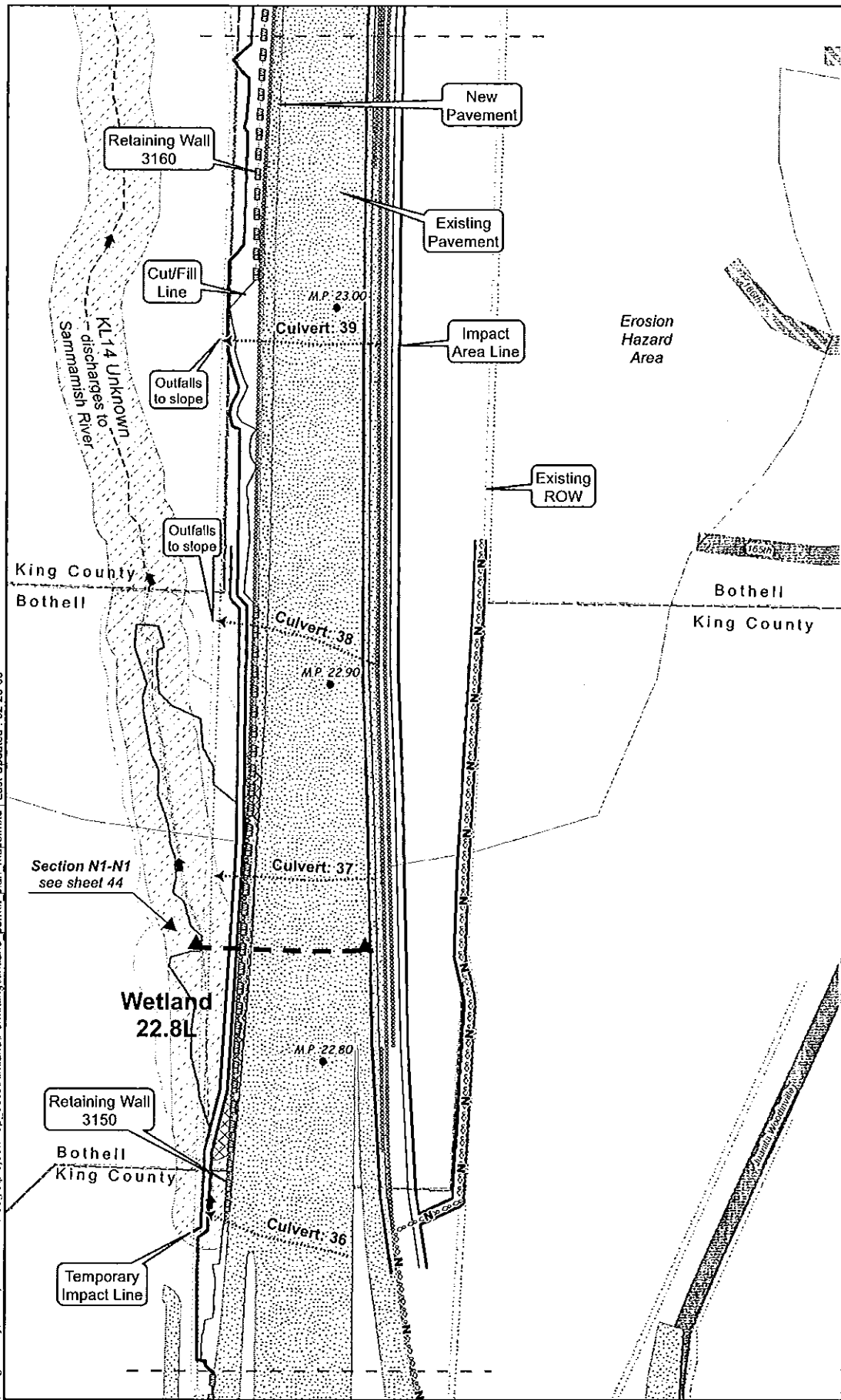
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR:** Bothell
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

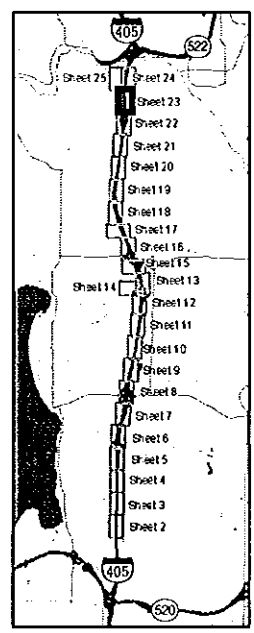
SHEET 22 of 54

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




**WETLAND IMPACTS (sf)**

| Wetland | Temporary | Direct | Indirect |
|---|---|---|---|
| 22.8L | 4317 | 5905 | 0 |

**I-405, SR520 to SR522**

REFERENCE:

**200401410**

APPLICANT: WSDOT

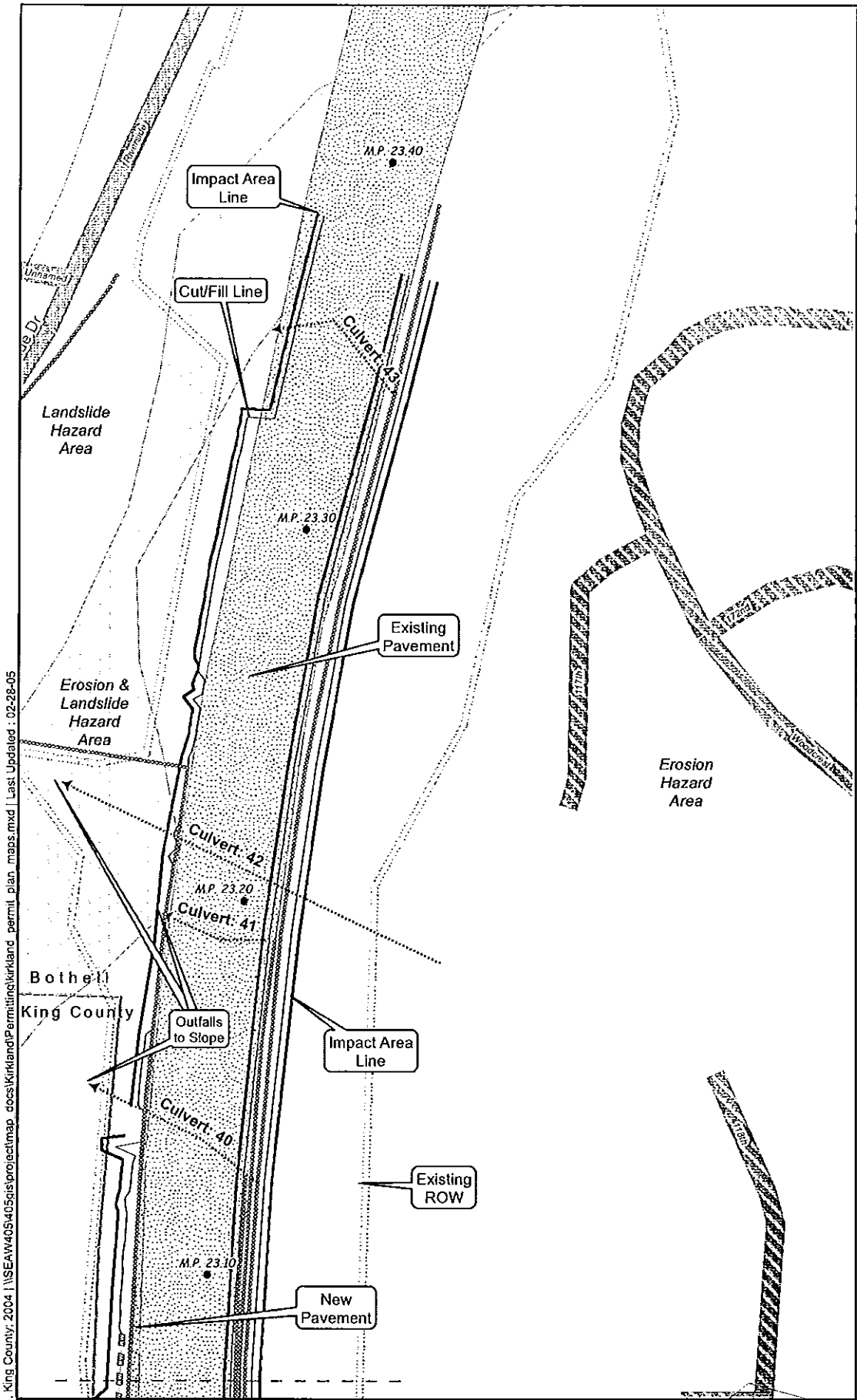
**PURPOSE:** Roadway Improvements
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Streams and Wetlands
**NEAR/AT:** Bothell
**COUNTY:** King **STATE:** WA
**DATE:** 02/28/2005

N W E S 0 100 200 Feet

HORIZONTAL DATUM: NAD 83/91
VERTICAL DATUM: NAVD88

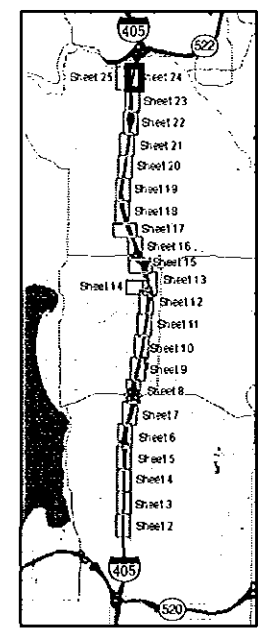
SHEET 23 of 54

Source: WSDOT; 2004; King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary



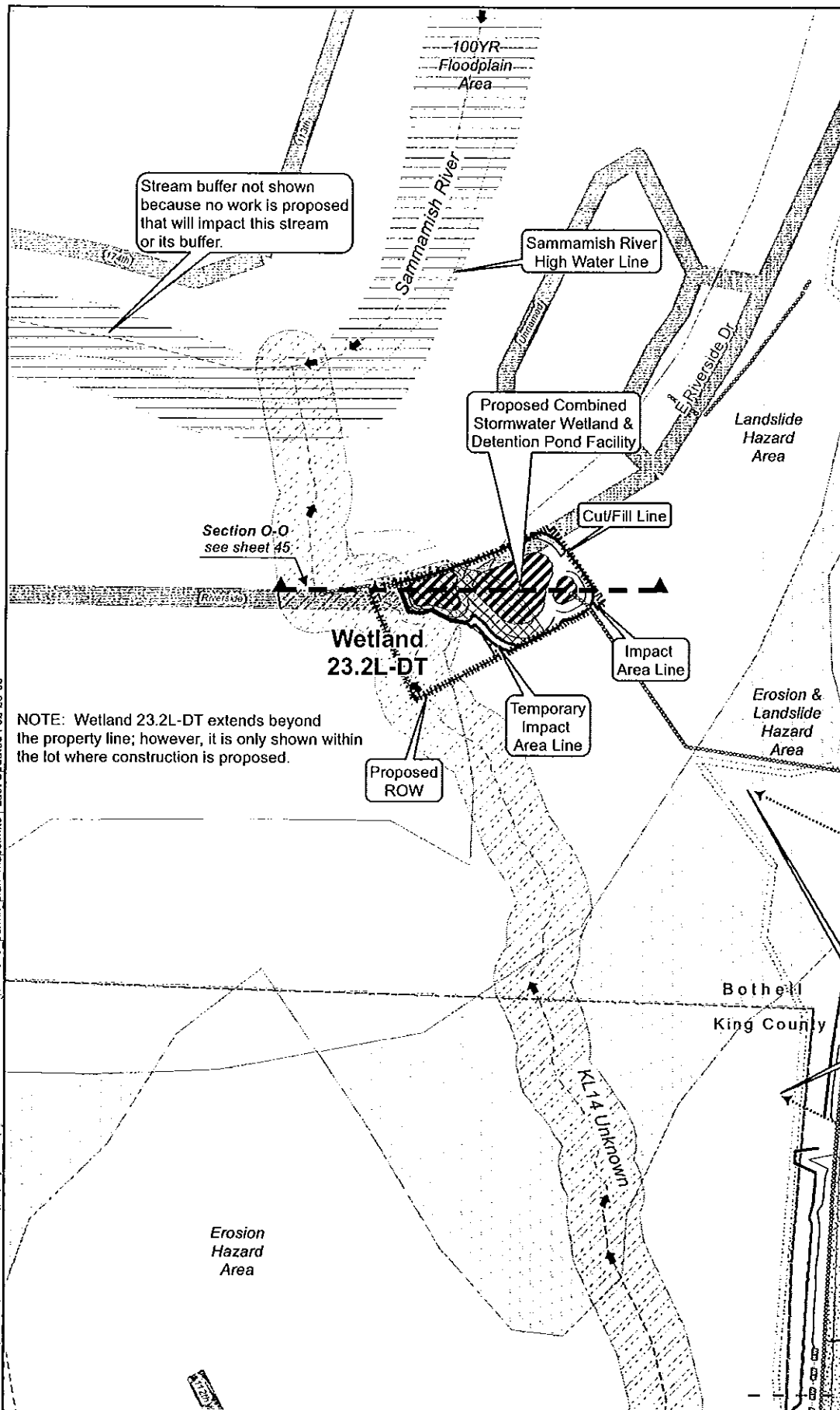

| | | |
|---|---|---|
| **NO WETLAND IMPACTS** | **I-405, SR520 to SR522**<br>REFERENCE:<br>**200401410**<br>APPLICANT: WSDOT | **PURPOSE:** Roadway Improvements<br>**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Streams and Wetlands<br>**AT:** Bothell<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 02/28/2005 |

N W E S 0 100 200 Feet

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD88

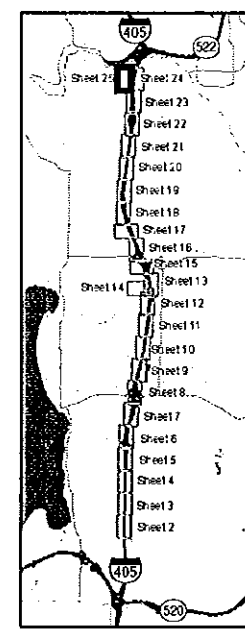
**SHEET 24 of 54**

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\projectmap_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05



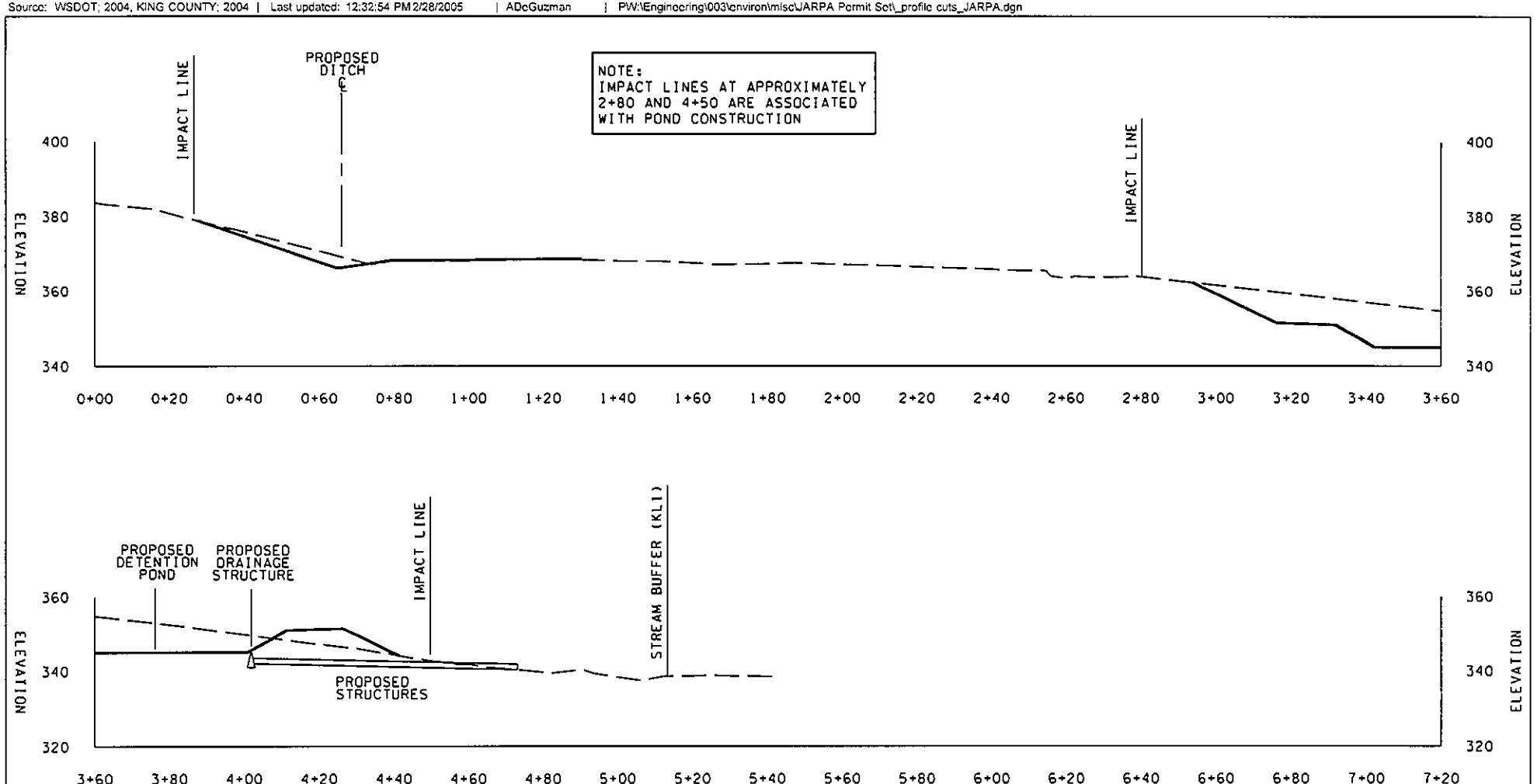

**Legend**

- Proposed Outfalls
- Milepost
- Cut & Fill
- Stream
- Road
- Railroad
- High Water Mark
- Cross Section
- Impact & Temporary Impact Line
- Proposed ROW
- Existing ROW
- Proposed Drainage
- Existing Drainage
- Retaining Wall
- Proposed Noise Wall
- Jurisdictional Ditch
- Proposed Ecology Embankment
- Bridge
- Proposed Stormwater Facility
- Existing Stormwater Facility
- Jurisdictional Area
- Direct Impact Wetland
- Temporary Impact Wetland
- No Impact Wetland
- Direct Impact Wetland Buffer
- Temporary Impact Wetland Buffer
- Indirect Impact Wetland Buffer
- No Impact Wetland Buffer
- New Impervious Surface
- Remove Pavement
- Existing Pavement
- 100Yr Floodplain
- Landslide Hazard
- Erosion Hazard
- Stream Impact Buffer
- Vegetation Impact Area
- Municipality Boundary




| NO WETLAND IMPACTS | I-405, SR520 to SR522<br>REFERENCE:<br>200401410<br>APPLICANT: WSDOT | PURPOSE: Roadway Improvements<br>PROPOSED/RETAIN:2.142 acres of impacts to wetlands and other waters of the U.S.<br>IN: Streams and Wetlands<br>AT: Bothell<br>COUNTY: King STATE: WA<br>DATE: 02/28/2005 | N W E S 0 100 200 Feet<br>HORIZONTAL DATUM: NAD 83/91<br>VERTICAL DATUM: NAVD88<br>SHEET 25 of 54 |
|---|---|---|---|

Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405sis\projectmap_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05




## SECTION A-A MP. 15.94

SEE SHEET 2 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

**PURPOSE:** Roadway improvements

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

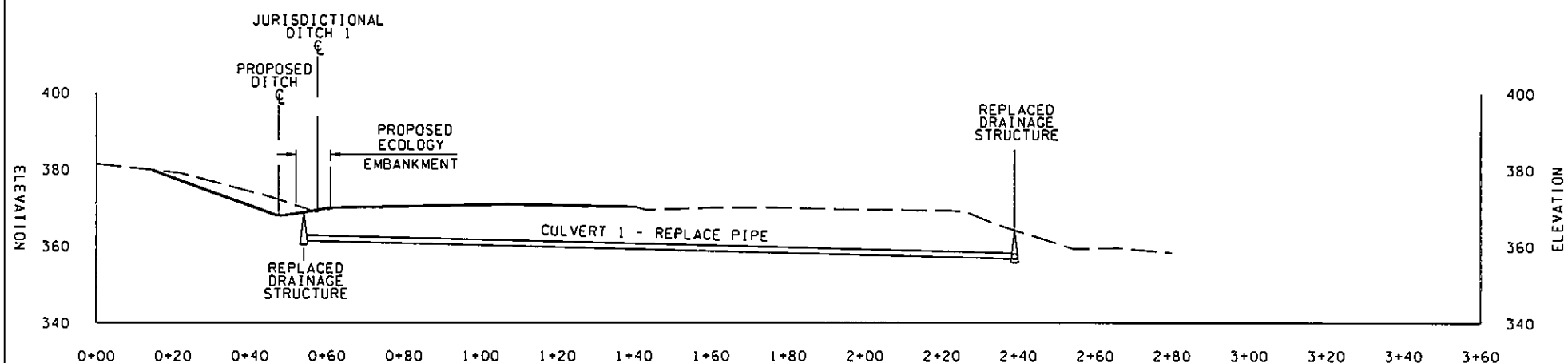
I-405, SR520 to SR522

**REFERENCE #:** 200401410
**APPLICANT:** WSDOT

**CROSS SECTION AT MP. 15.94**

**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05

0 20 40 Feet




## SECTION B-B MP. 15.95

SEE SHEET 2 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

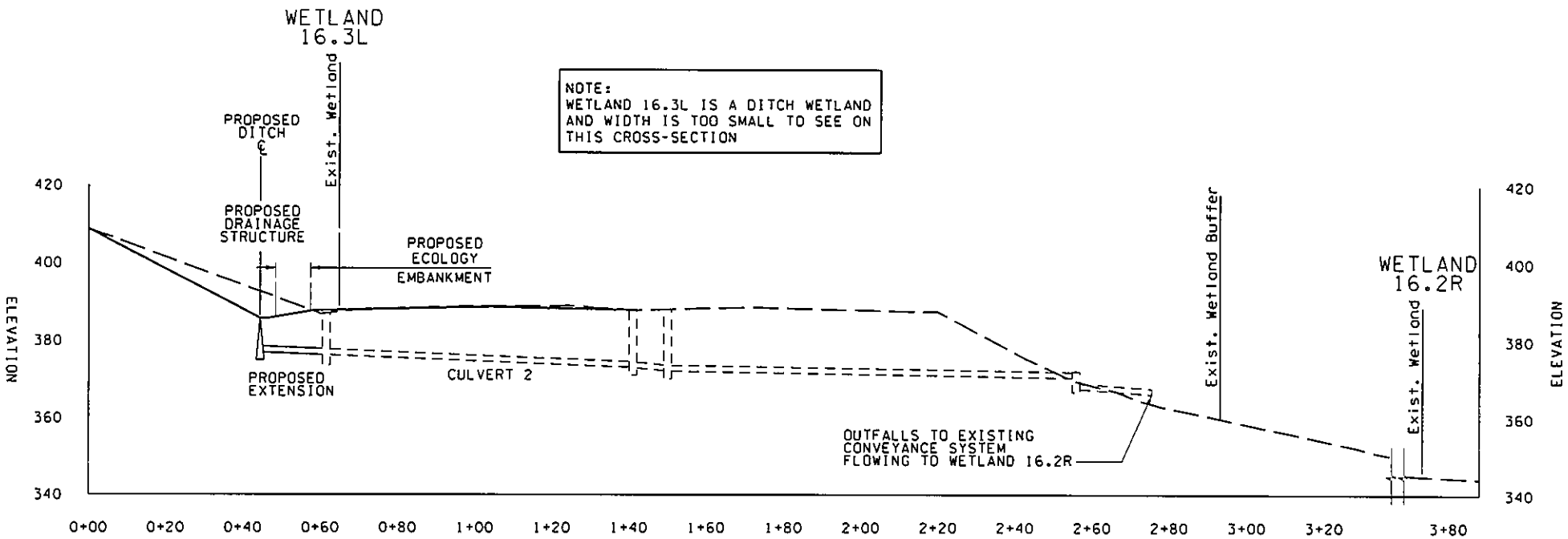
- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Replaced Drainage Structure

Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | I-405, SR520 to SR522<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 15.95** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 27 **OF** 54



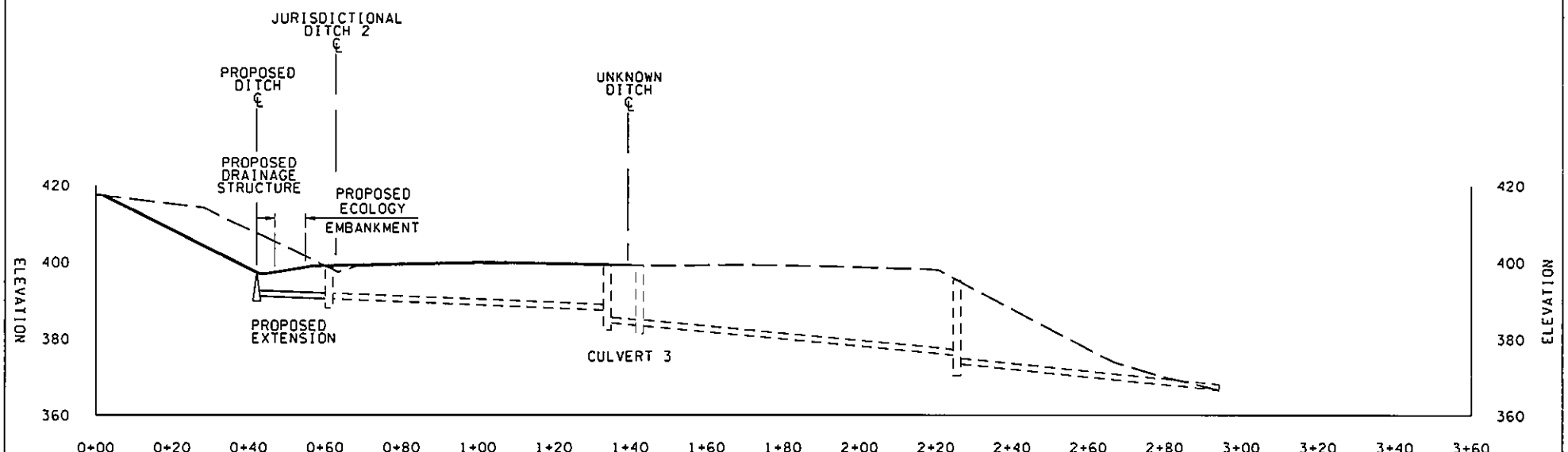

NOTE:
WETLAND 16.3L IS A DITCH WETLAND AND WIDTH IS TOO SMALL TO SEE ON THIS CROSS-SECTION

## SECTION C-C MP. 16.07

SEE SHEET 2 FOR PLAN VIEW OF THIS SECTION

**LEGEND**
- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | I-405, SR520 to SR522<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 16.07** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40 Feet<br><br>**SHEET** 28 **OF** 54 |




## SECTION C1-C1 MP. 16.18

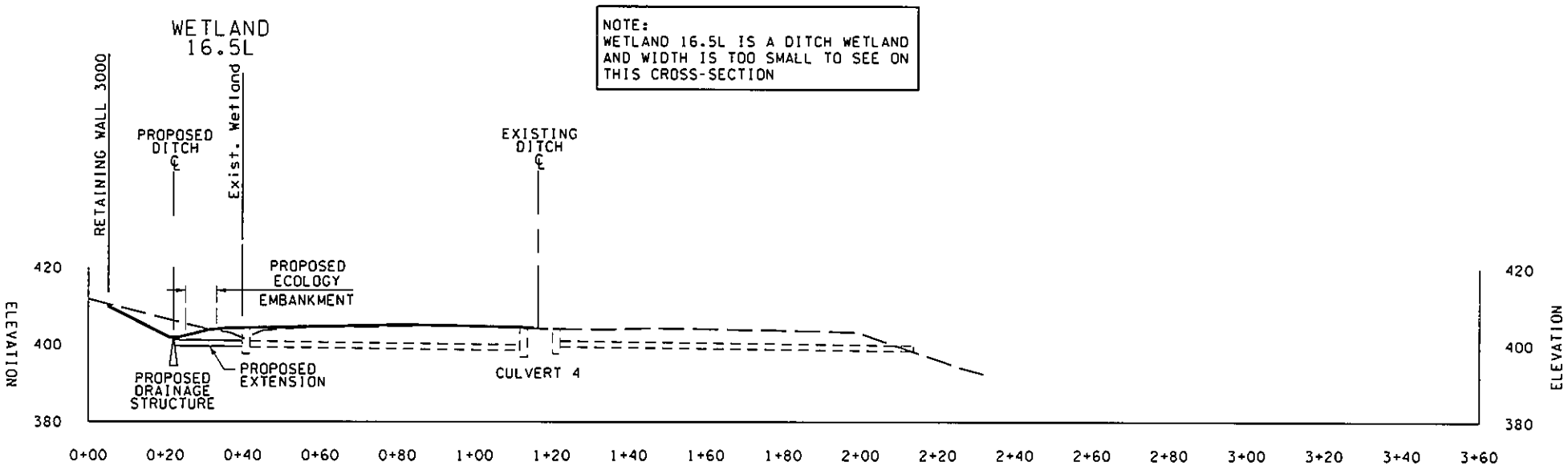
SEE SHEET 2 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

Elevation in ft.

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements | I-405, SR520 to SR522 | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. | 0 20 40 Feet |
| **HORIZONTAL DATUM:** NAD 83/91 | REFERENCE #: 200401410 | **IN:** Wetlands | |
| **VERTICAL DATUM:** NAVD 88 | APPLICANT: WSDOT | **AT:** Kirkland | |
| | CROSS SECTION AT MP. 16.18 | **COUNTY:** King **STATE:** WA | |
| | | **DATE:** 2/28/05 | **SHEET** 29 **OF** 54 |



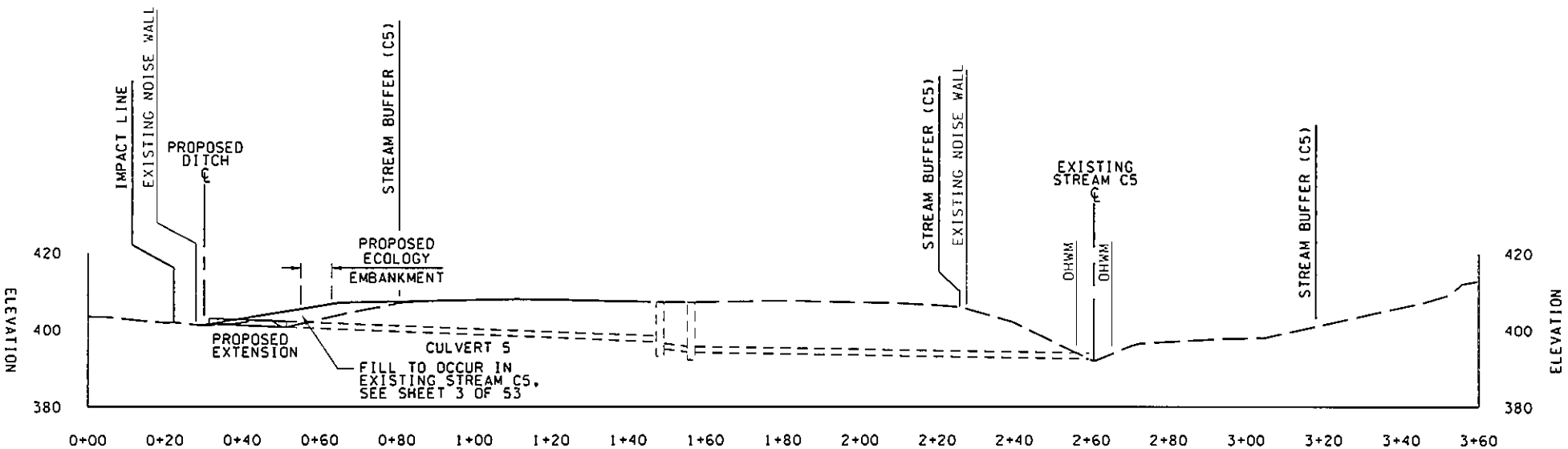

## SECTION C2-C2 MP. 16.32

SEE SHEET 3 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | I-405, SR520 to SR522<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 16.32** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40 Feet<br><br>**SHEET** 30 **OF** 54 |




## SECTION D-D MP. 16.47

SEE SHEET 3 FOR PLAN VIEW OF THIS SECTION

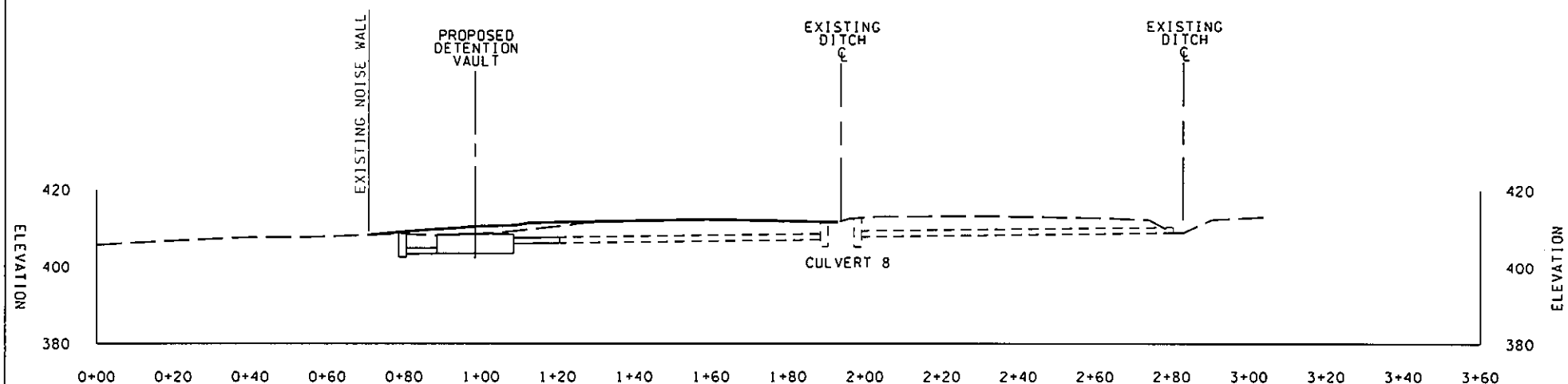
**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements | I-405, SR520 to SR522 | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. |
| | **REFERENCE #:** 200401410 | **IN:** Wetlands |
| | **APPLICANT:** WSDOT | **AT:** Kirkland |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA |
| **VERTICAL DATUM:** NAVD 88 | **CROSS SECTION AT MP. 16.47** | **DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 31 **OF** 54




## SECTION E-E MP. 16.70

SEE SHEET 4 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

**PURPOSE:** Roadway improvements

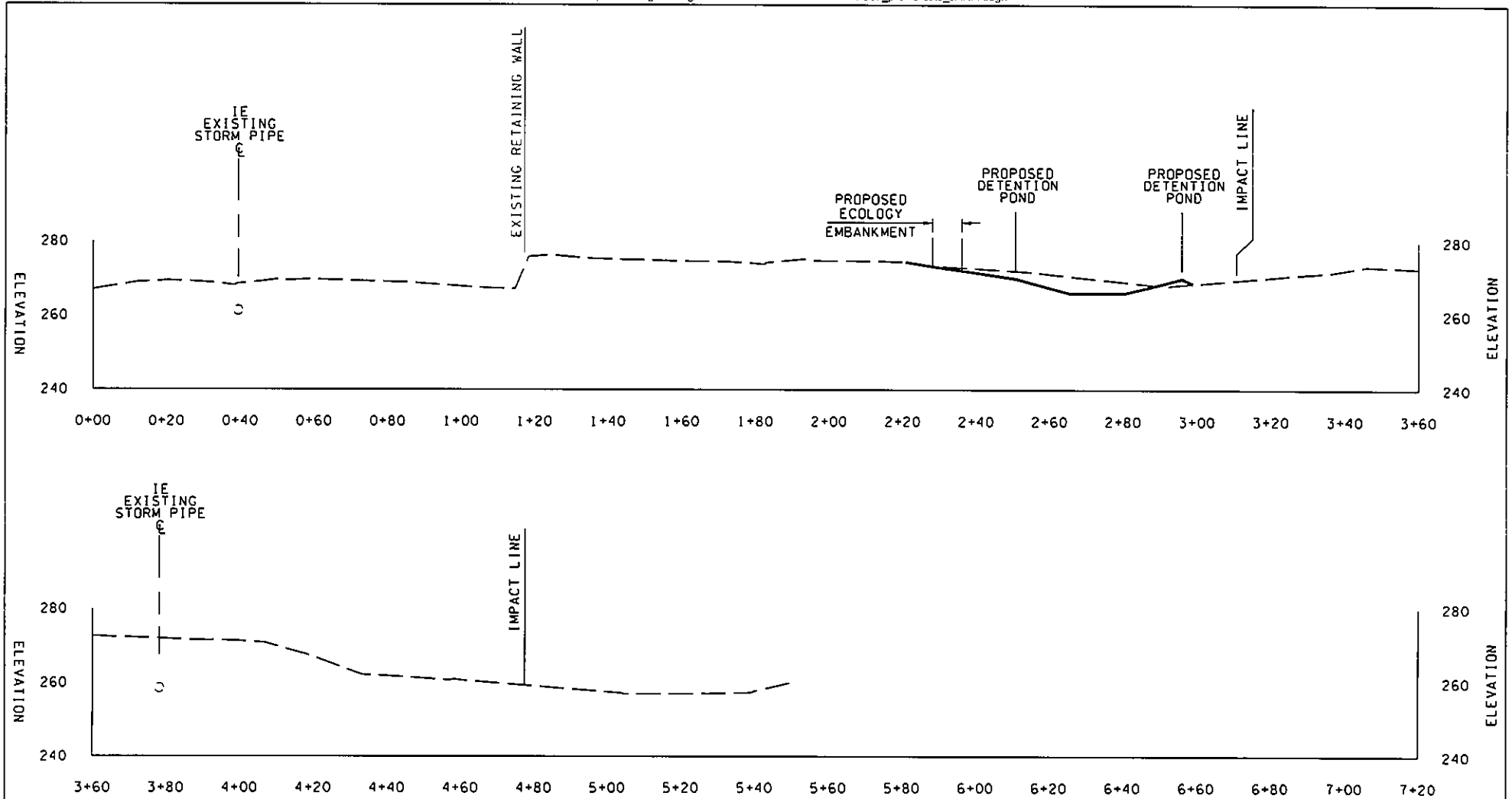
**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

I-405, SR520 to SR522
REFERENCE #:
200401410
APPLICANT: WSDOT
CROSS SECTION AT MP. 16.70

**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05

0 20 40
Feet

Source: WSDOT; 2004, KING COUNTY; 2004 | Last updated: 12:32:55 PM 2/28/2005 | ADeGuzman | PW:\Engineering\003\environ\misc\JARPA Permit Set_profile cuts_JARPA.dgn




## SECTION F-F MP. 18.21

SEE SHEET 8 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

Elevation in ft.

**PURPOSE:** Roadway improvements

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

**I-405, SR520 to SR522**

**REFERENCE #:**
200401410
**APPLICANT:** WSDOT

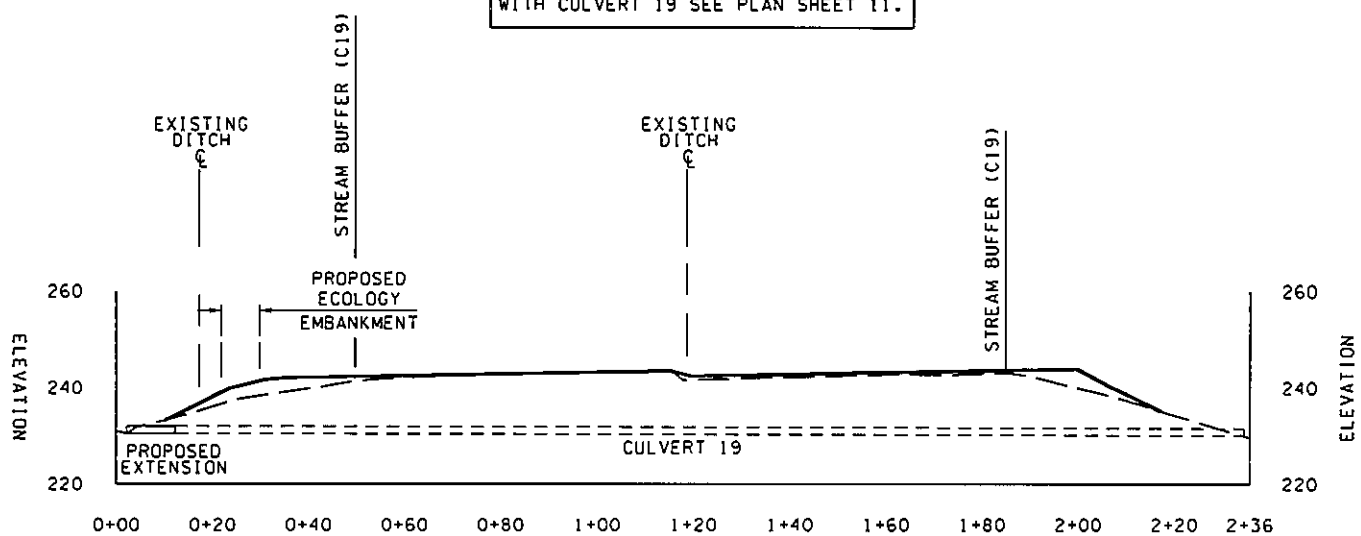
**CROSS SECTION AT MP. 18.21**

**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05

0 20 40
Feet

**SHEET** 33 **OF** 54

NOTE:
CROSS SECTION CUT ALONG STREAM
WITH CULVERT 19 SEE PLAN SHEET 11.




## SECTION F1-F1 MP. 19.07

SEE SHEET 11 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

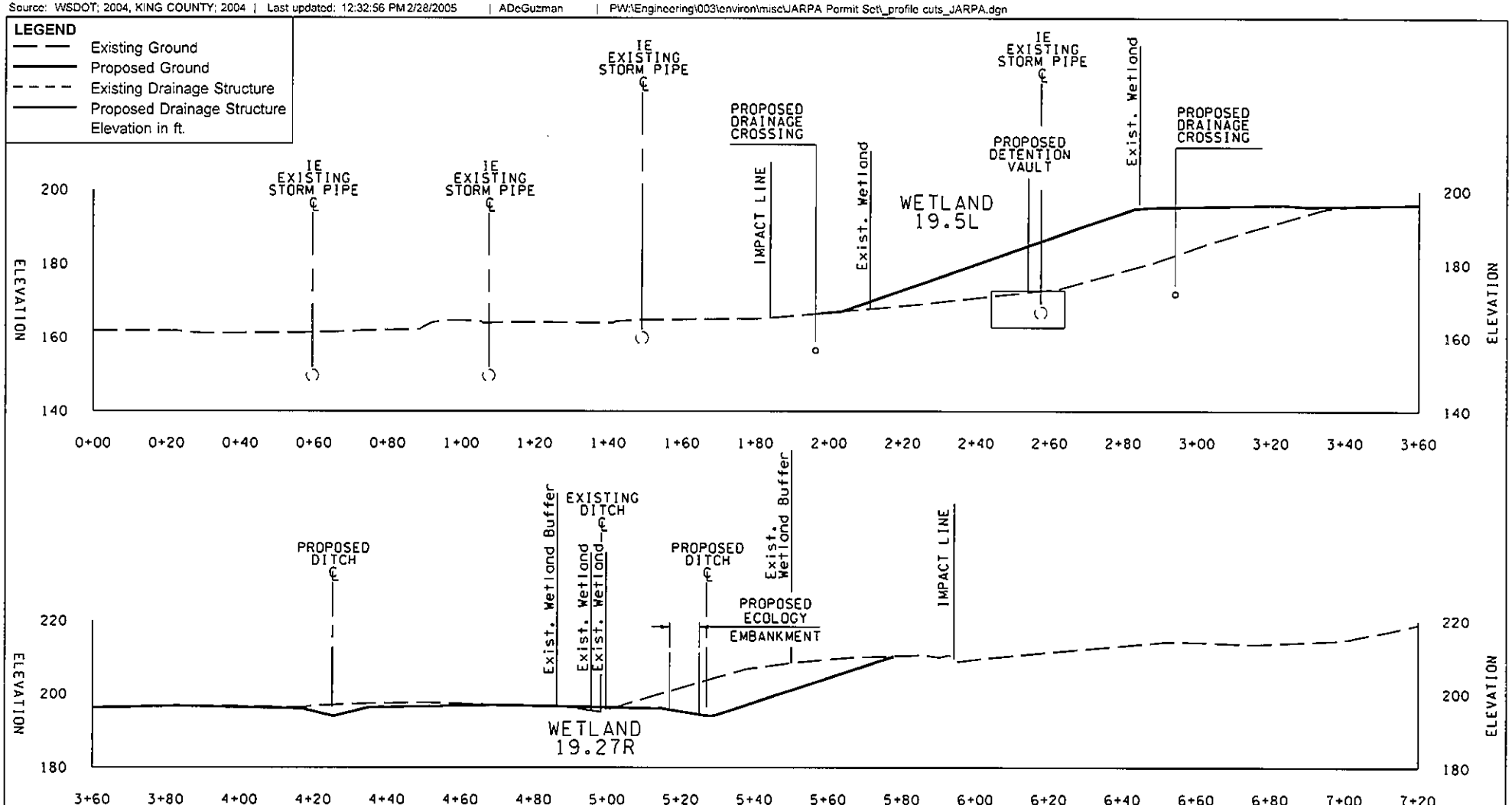
Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements | **I-405, SR520 to SR522** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. |
| | **REFERENCE #:** 200401410 | **IN:** Wetlands |
| | **APPLICANT:** WSDOT | **AT:** Kirkland |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA |
| **VERTICAL DATUM:** NAVD 88 | **CROSS SECTION AT MP. 19.07** | **DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 34 **OF** 54

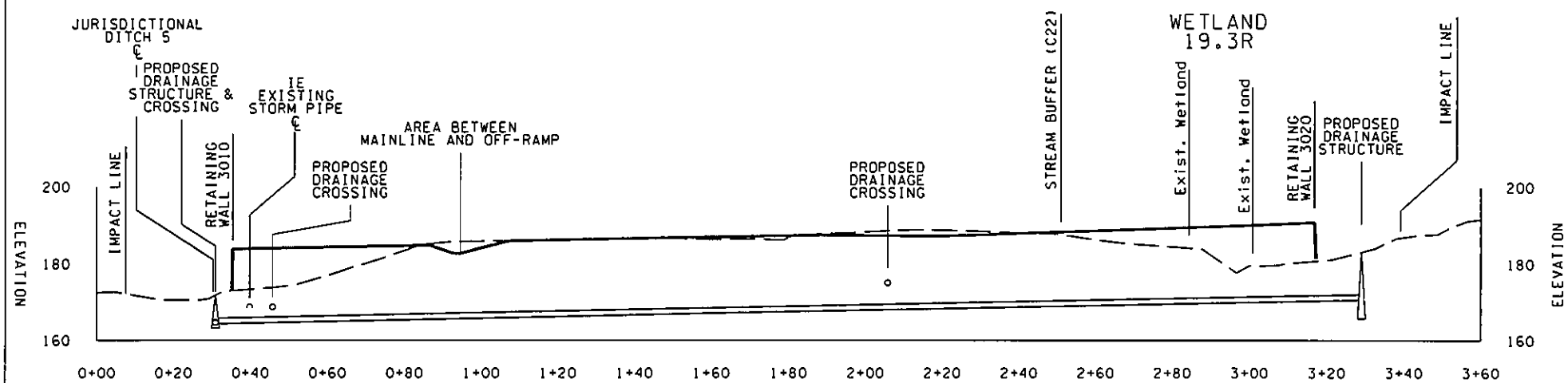
Source: WSDOT; 2004, KING COUNTY; 2004 | Last updated: 12:32:56 PM 2/28/2005 | ADeGuzman | PW:\Engineering\003\environ\misc\JARPA Permit Set_profile cuts_JARPA.dgn




## SECTION G-G MP. 19.48

SEE SHEET 12 FOR PLAN VIEW OF THIS SECTION

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 19.48** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40 Feet<br><br>**SHEET** 35 **OF** 54 |



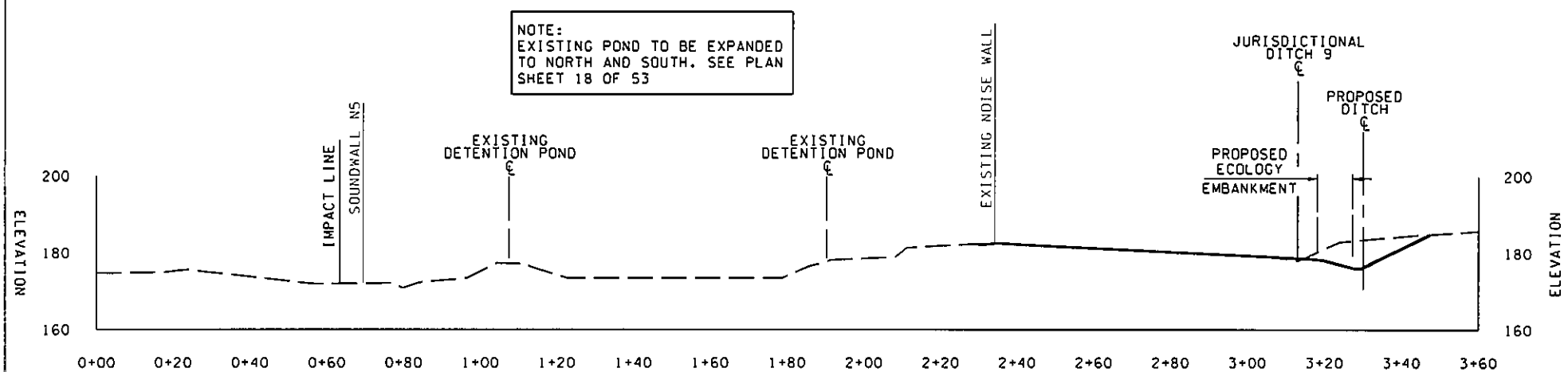

## SECTION H-H MP. 19.59

SEE SHEET 12 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements | I-405, SR520 to SR522 | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. | 0 20 40 Feet |
| | REFERENCE #: 200401410 | **IN:** Wetlands | |
| | APPLICANT: WSDOT | **AT:** Kirkland | |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA | |
| **VERTICAL DATUM:** NAVD 88 | CROSS SECTION AT MP. 19.59 | **DATE:** 2/28/05 | **SHEET** 36 **OF** 54 |




## SECTION I-I MP. 21.22

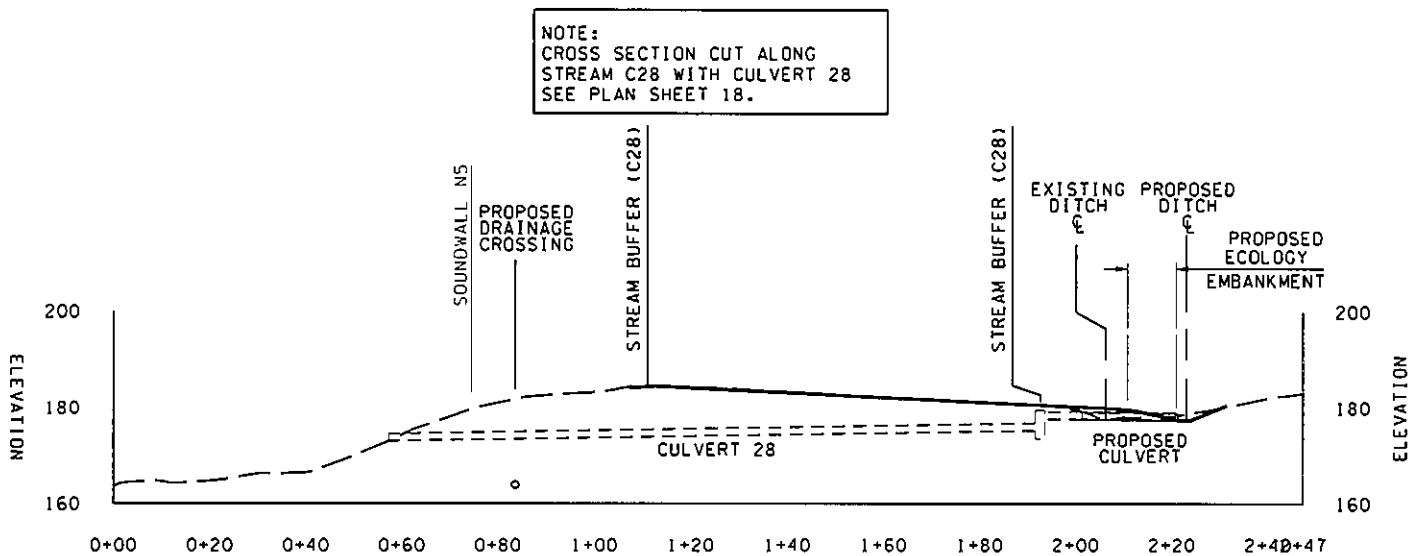
SEE SHEET 18 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

Elevation in ft.

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | I-405, SR520 to SR522<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 21.22** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**NEAR:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40 Feet<br><br>**SHEET** 37 **OF** 54 |




## SECTION 11-11 MP. 21.25

SEE SHEET 18 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

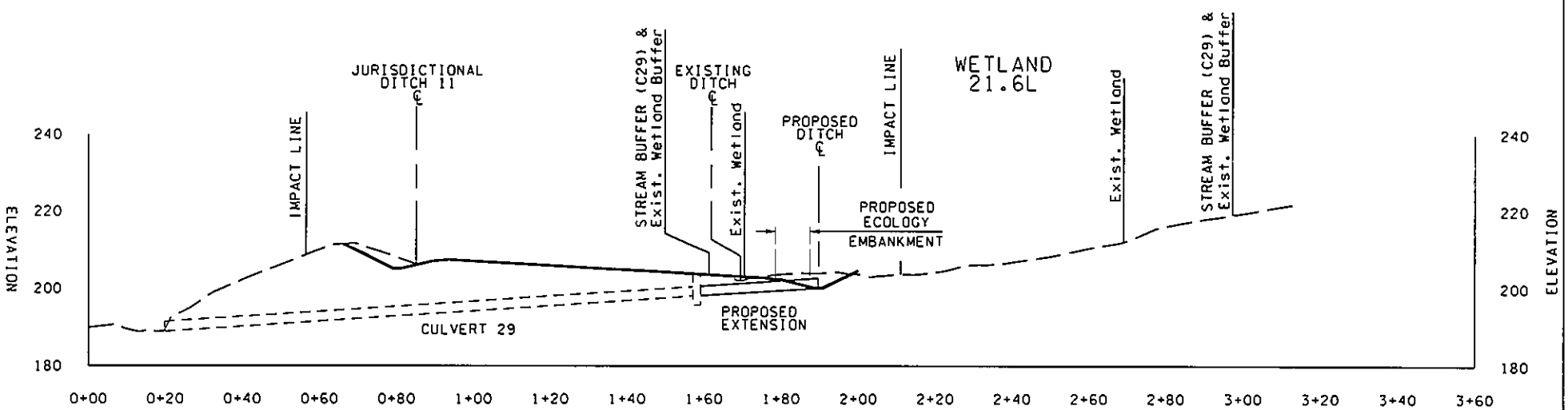
- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements | **I-405, SR520 to SR522** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. |
| | **REFERENCE #:** 200401410 | **IN:** Wetlands |
| | **APPLICANT:** WSDOT | **NEAR:** Kirkland |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA |
| **VERTICAL DATUM:** NAVD 88 | **CROSS SECTION AT MP. 21.25** | **DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 38 **OF** 54

Source: WSDOT; 2004, KING COUNTY; 2004 | Last updated: 12:32:57 PM 2/28/2005 | ADeGuzman | PW:\Engineering\003\environ\misc\JARPA Permit Set_profile cuts_JARPA.dgn




## SECTION 12-12 MP. 21.40

SEE SHEET 19 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

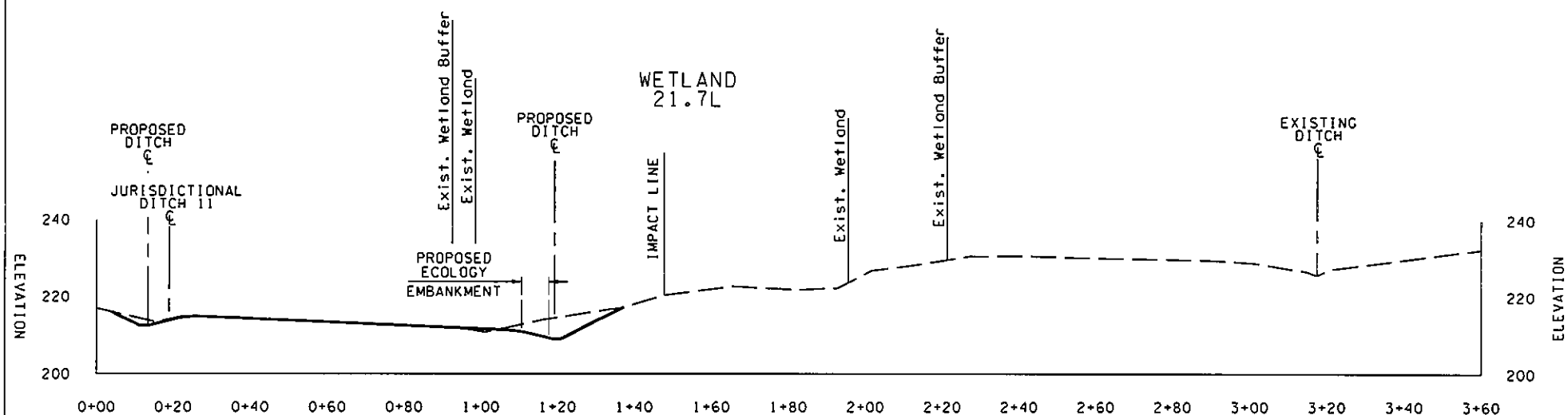
- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements | **I-405, SR520 to SR522** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. |
| | **REFERENCE #:** 200401410 | **IN:** Wetlands |
| | **APPLICANT:** WSDOT | **NEAR:** Kirkland |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA |
| **VERTICAL DATUM:** NAVD 88 | **CROSS SECTION AT MP. 21.40** | **DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 39 **OF** 54




## SECTION J-J MP. 21.45

SEE SHEET 19 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

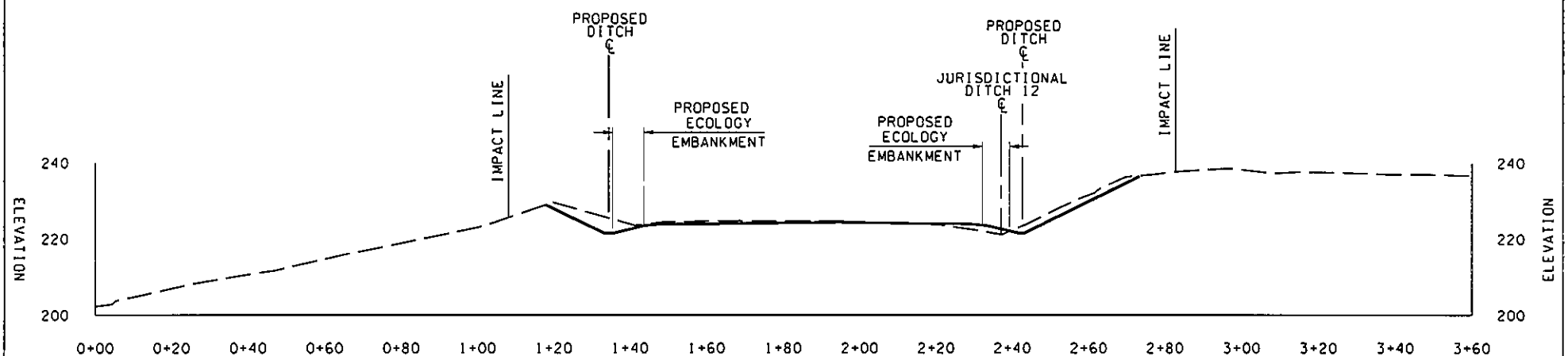
- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements | I-405, SR520 to SR522 | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. |
| | **REFERENCE #:** 200401410 | **IN:** Wetlands |
| | **APPLICANT:** WSDOT | **NEAR:** Kirkland |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA |
| **VERTICAL DATUM:** NAVD 88 | **CROSS SECTION AT MP. 21.45** | **DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 40 **OF** 54




## SECTION K-K MP. 21.51

SEE SHEET 19 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

**PURPOSE:** Roadway improvements

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

**I-405, SR520 to SR522**

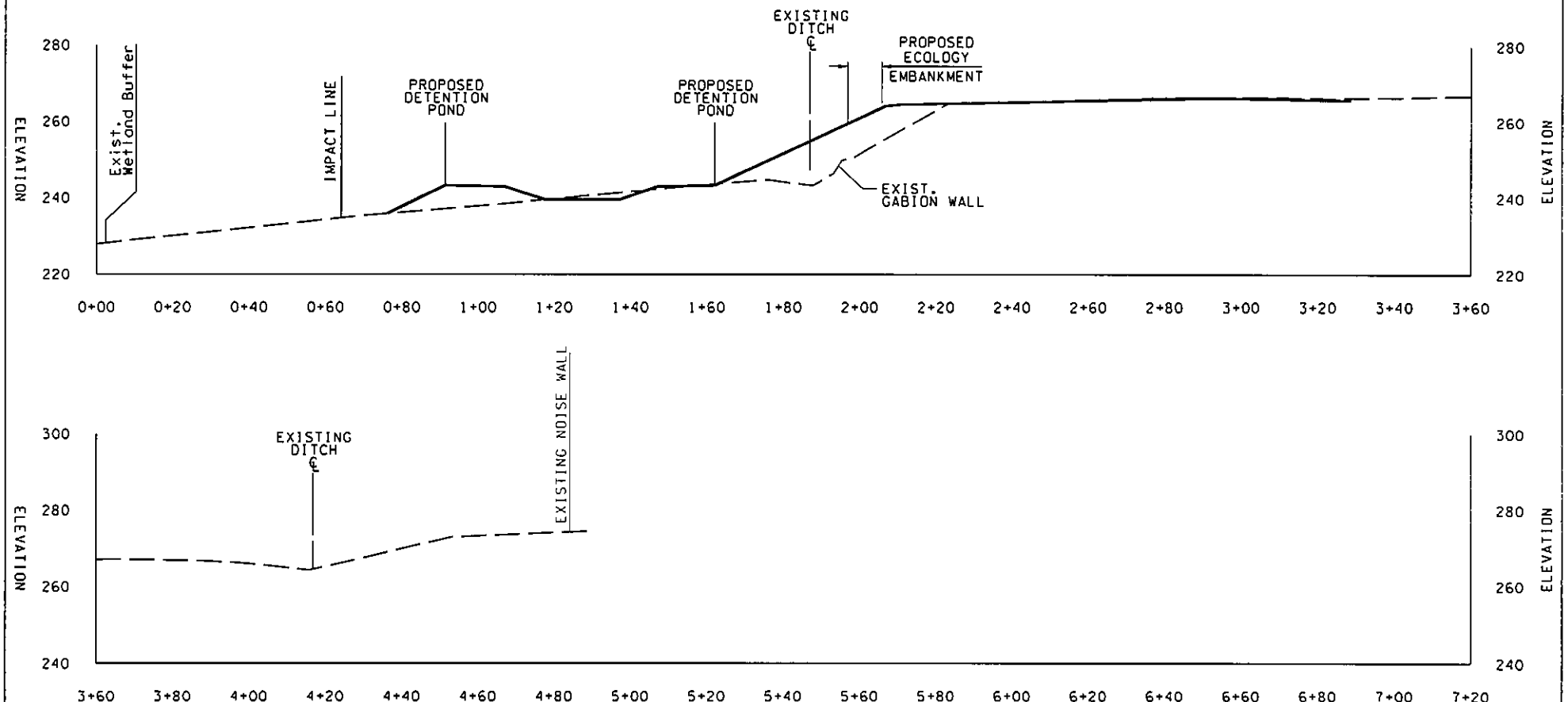
**REFERENCE #:**
200401410
**APPLICANT:** WSDOT

**CROSS SECTION AT MP. 21.51**

**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**NEAR:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05

0 20 40
Feet

**SHEET** 41 **OF** 54




## SECTION L-L MP. 22.24

SEE SHEET 21 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

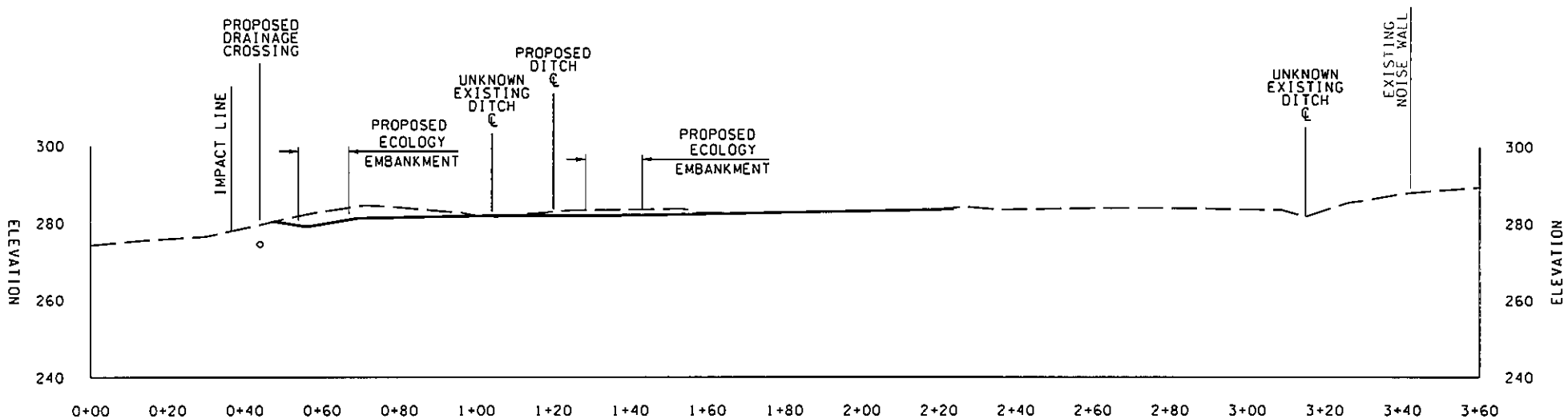
Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements | **I-405, SR520 to SR522** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S. |
| | **REFERENCE #:** 200401410 | **IN:** Wetlands |
| | **APPLICANT:** WSDOT | **NEAR:** Bothell |
| **HORIZONTAL DATUM:** NAD 83/91 | | **COUNTY:** King **STATE:** WA |
| **VERTICAL DATUM:** NAVD 88 | **CROSS SECTION AT MP. 22.24** | **DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 42 **OF** 54

NOTE:
THIS SECTION CUTS THROUGH MAIN LINE AND ON-RAMP PORTIONS OF THE FREEWAY. PLEASE ALSO SEE SHEET 22.




## SECTION M-M MP. 22.42

SEE SHEET 22 FOR PLAN VIEW OF THIS SECTION

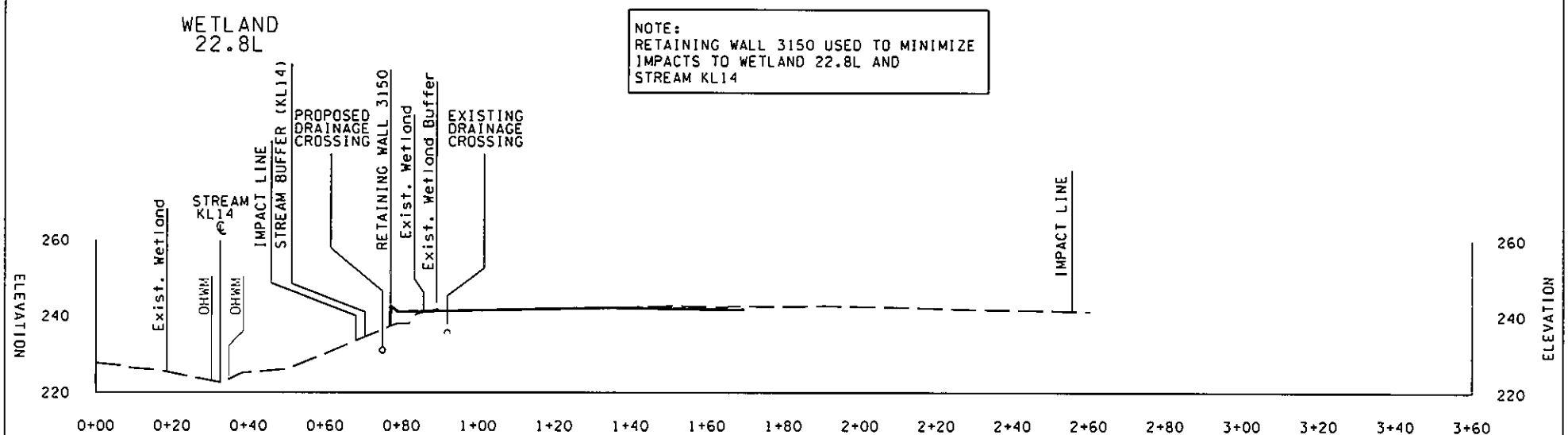
**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | |
|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 22.42** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**NEAR:** Bothell<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 |

0 20 40 Feet

**SHEET** 43 **OF** 54



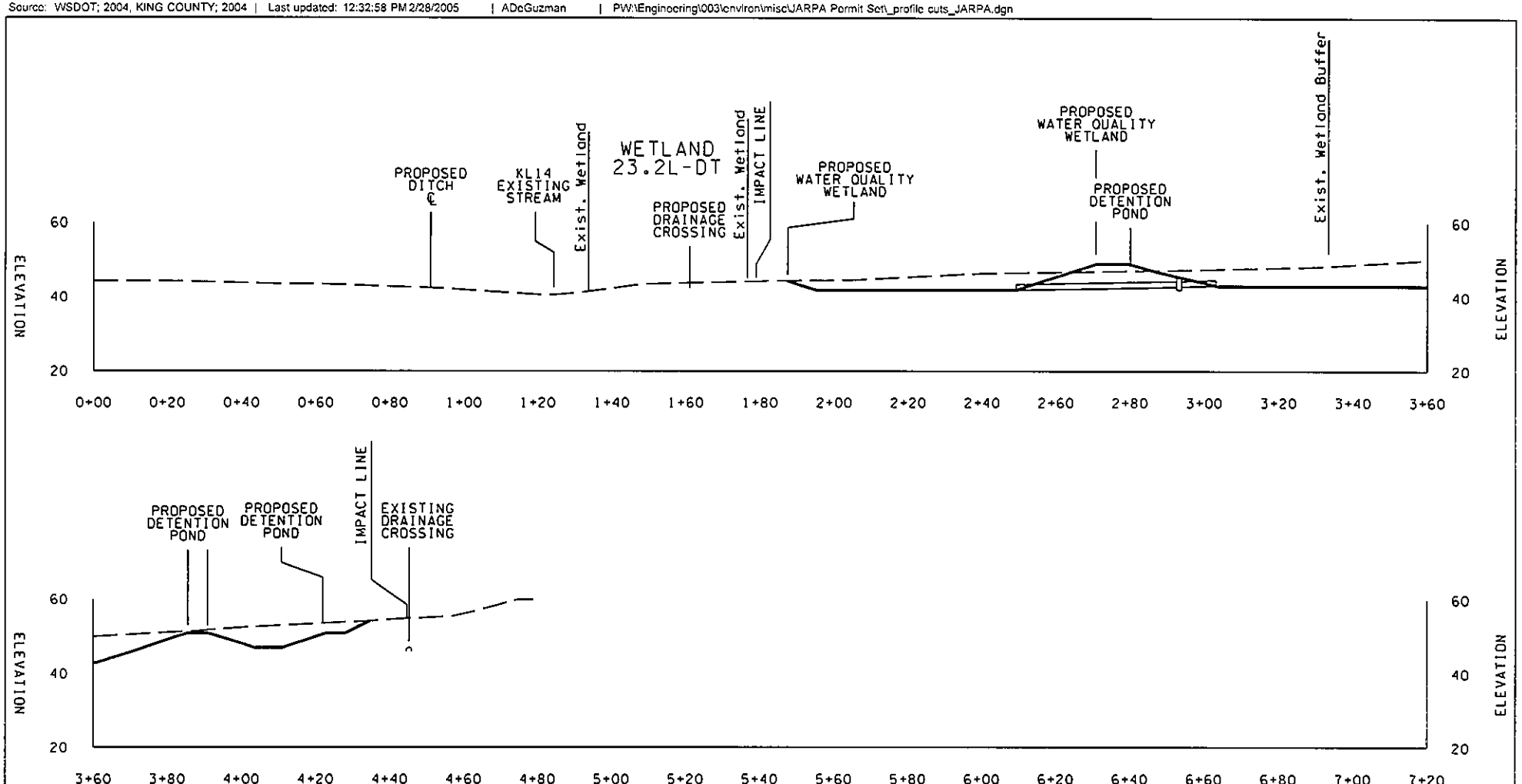

## SECTION N1-N1 MP. 22.82

SEE SHEET 23 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure
- Elevation in ft.

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**CROSS SECTION AT MP. 22.82** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Bothell<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40 Feet<br><br>**SHEET** 44 **OF** 54 |




## SECTION D-D MP. 23.28

SEE SHEET 25 FOR PLAN VIEW OF THIS SECTION

**LEGEND**

- Existing Ground
- Proposed Ground
- Existing Drainage Structure
- Proposed Drainage Structure

Elevation in ft.

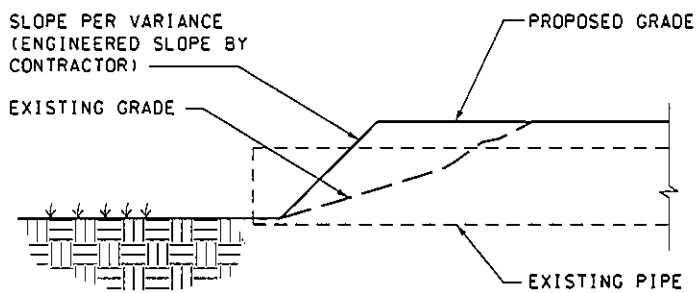
**PURPOSE:** Roadway improvements

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

**I-405, SR520 to SR522**
**REFERENCE #:** 200401410
**APPLICANT:** WSDOT
**CROSS SECTION AT MP. 23.28**

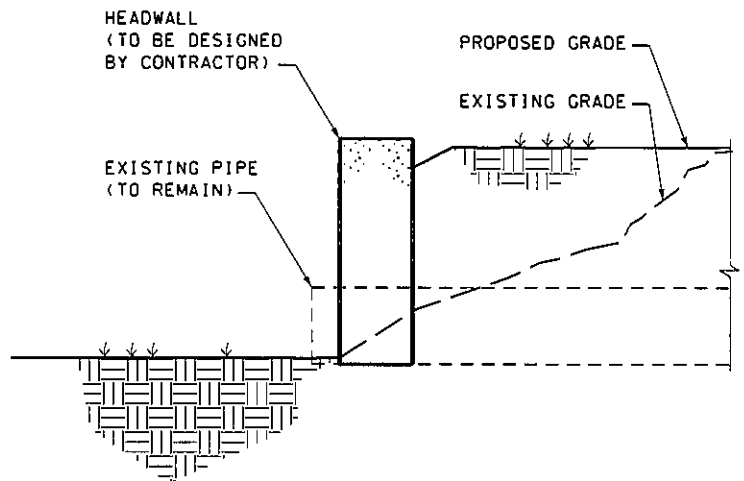
**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**AT:** Bothell
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05

0 20 40 Feet




## SLOPE VARIANCE TO AVOID CULVERT EXTENSION

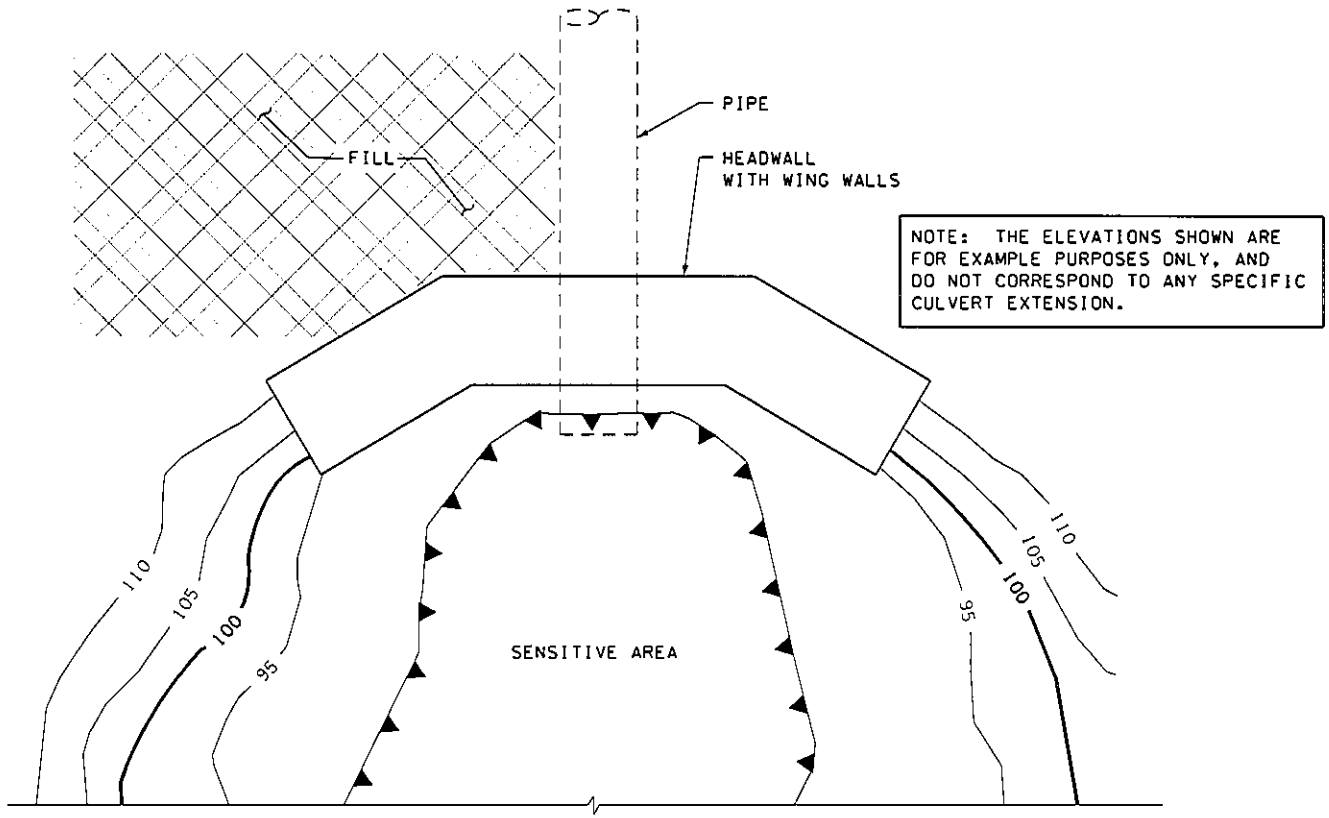
TYPICAL - NOT TO SCALE




## HEADWALL TO AVOID CULVERT EXTENSION

TYPICAL - NOT TO SCALE

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | I-405, SR520 to SR522<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**AVOIDANCE CULVERT EXTENSION DETAILS** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**NEAR/AT:**<br>**COUNTY:** **STATE:** WA<br>**DATE:** 2/28/05 | **SHEET** 46 **OF** 54 |

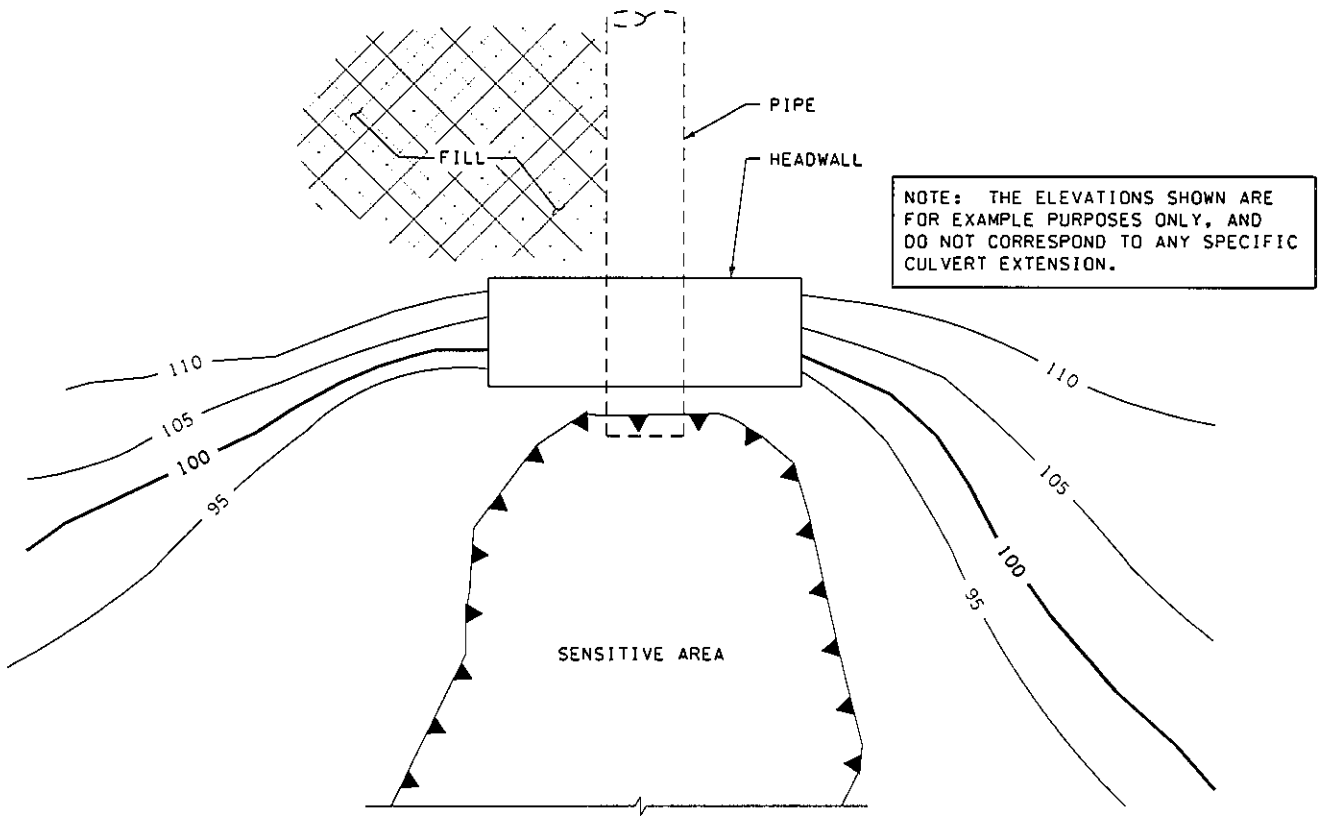



HEADWALL WITH WING WALLS

## HEADWALL TO AVOID CULVERT EXTENSION IMPACTS - TOP VIEWS

TYPICAL - NOT TO SCALE

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**HEADWALL TO AVOID CULVERT EXT. IMPACTS**<br>**TOP VIEWS OF HEADWALL W/ WING WALLS** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**NEAR/AT:**<br>**COUNTY:** **STATE:** WA<br>**DATE:** 2/28/05 | **SHEET** 47 **OF** 54 |



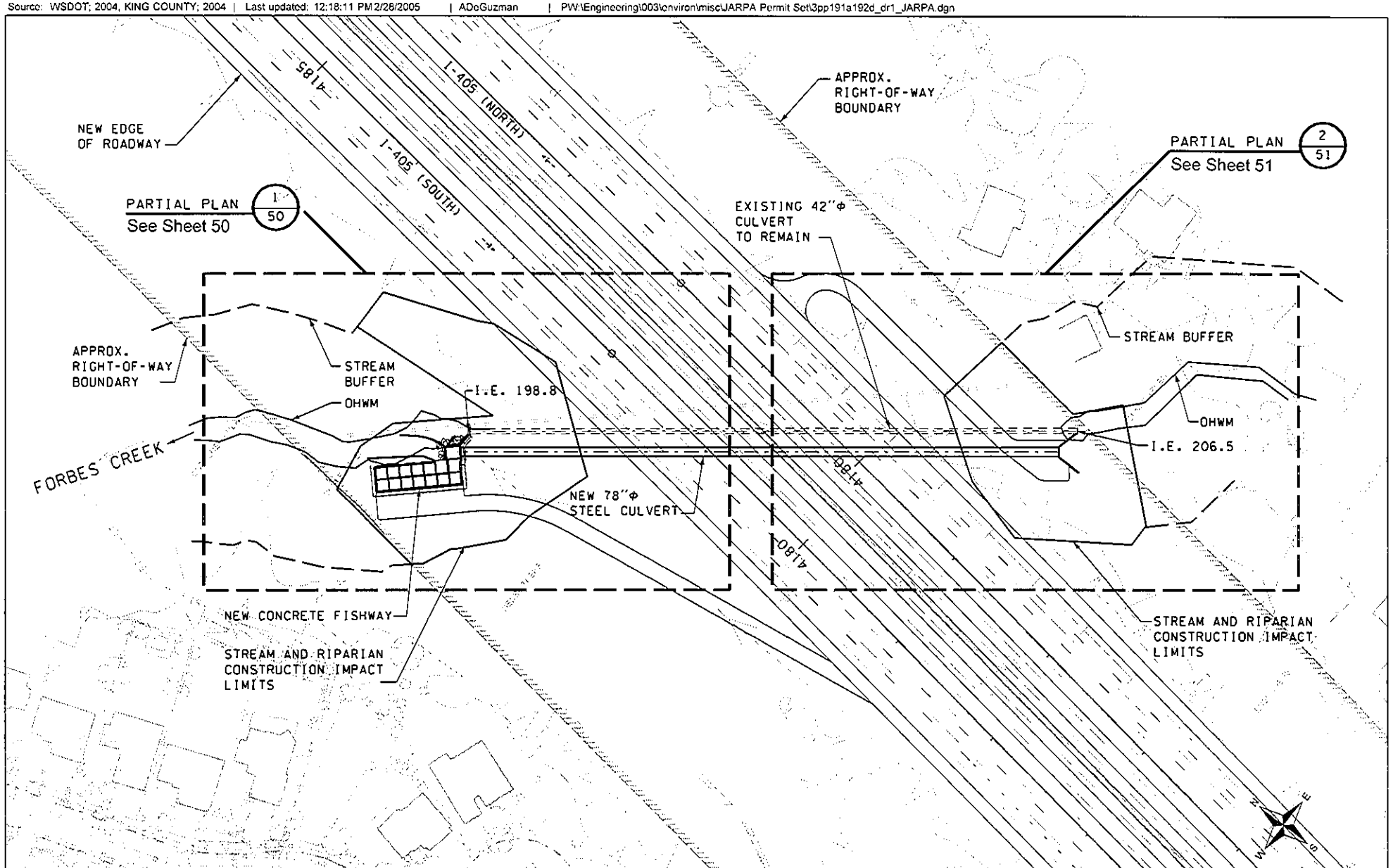

HEADWALL

HEADWALL TO AVOID CULVERT EXTENSION IMPACTS - TOP VIEWS

TYPICAL - NOT TO SCALE

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**HEADWALL TO AVOID CULVERT EXTENSION IMPACTS - TOP VIEWS OF HEADWALL** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**NEAR/AT:**<br>**COUNTY:** **STATE:** WA<br>**DATE:** 2/28/05 | **SHEET** 48 **OF** 54 |

Source: WSDOT; 2004, KING COUNTY; 2004 | Last updated: 12:18:11 PM 2/28/2005 | ADoGuzman | PW:\Engineering\003\environ\misc\JARPA Permit Set\3pp191a192d_dr1_JARPA.dgn




**PURPOSE:** Roadway improvements

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

**I-405, SR520 to SR522**

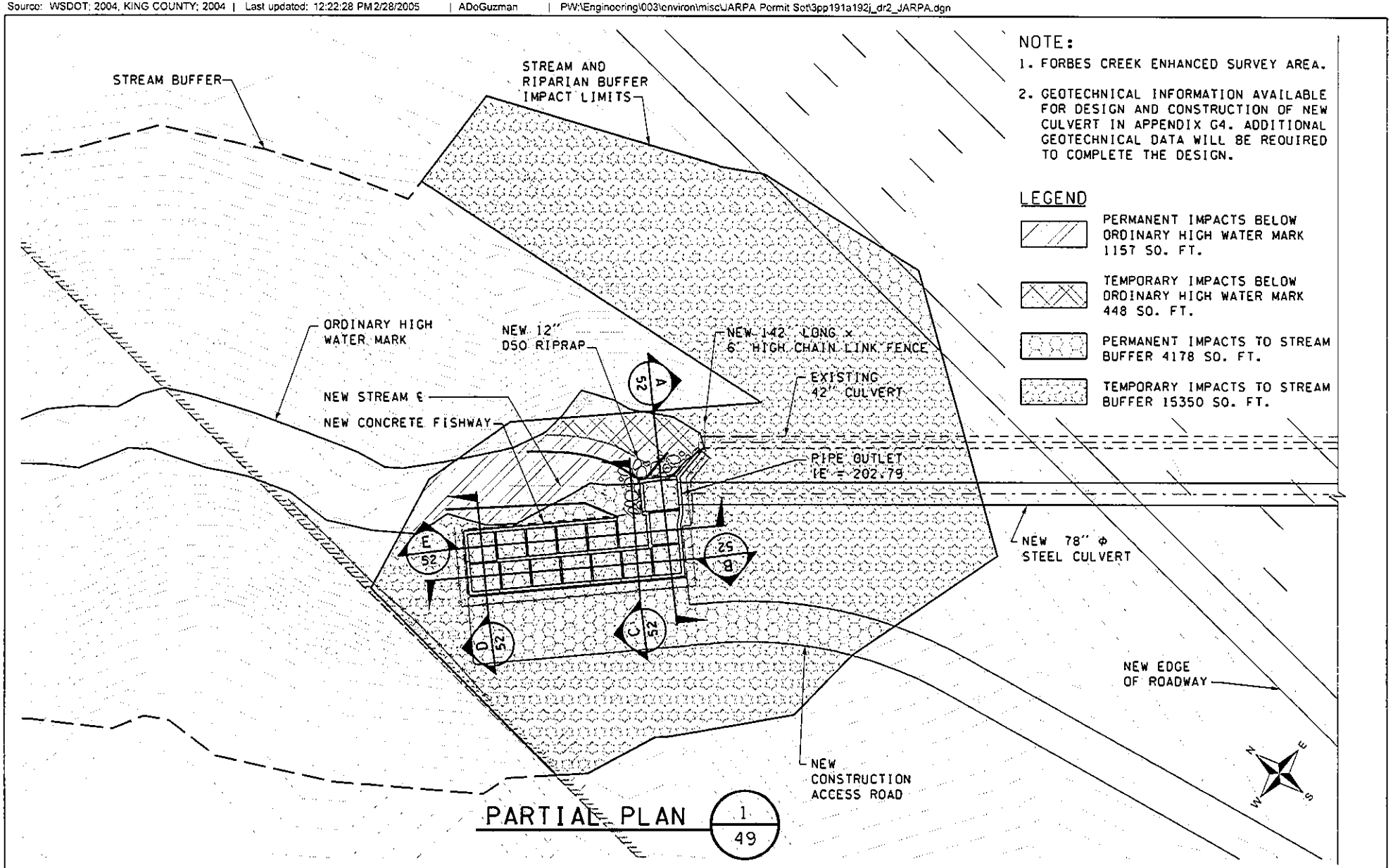
**REFERENCE #:**
200401410
**APPLICANT:** WSDOT

**FORBES CREEK FISHWAY CULVERT - SITE PLAN**

**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05

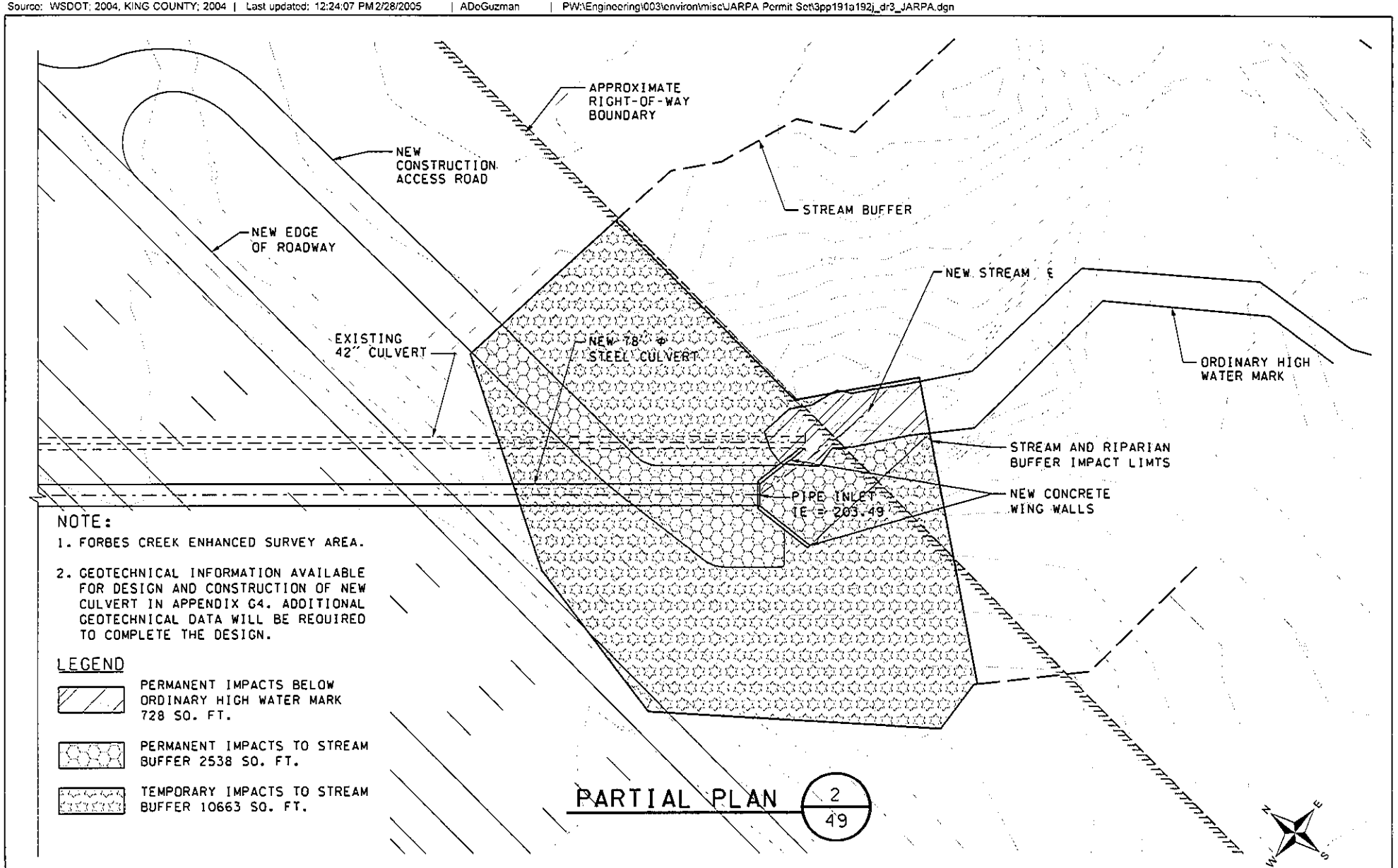
0 50 100
Feet

**SHEET** 49 **OF** 54

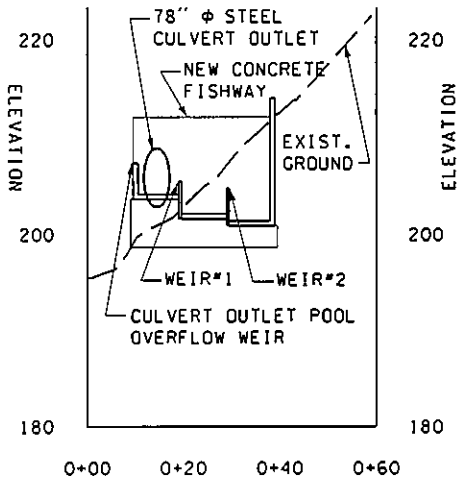



PARTIAL PLAN 1/49

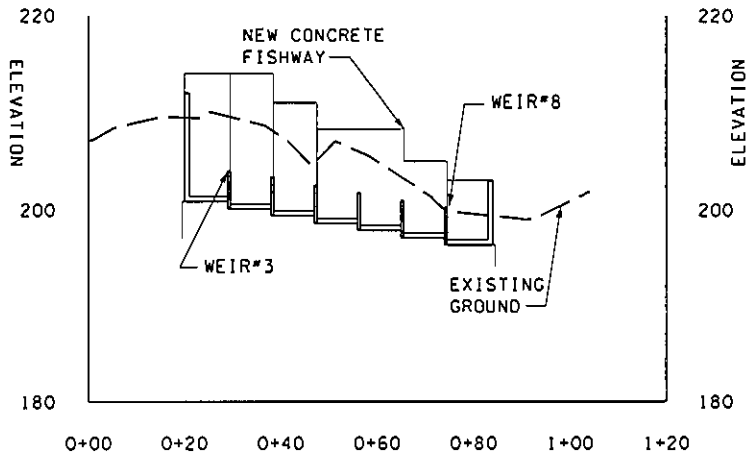
| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**FORBES CREEK CULVERT & FISHWAY**<br>**ENLARGED VIEW - PLAN** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40 Feet<br><br>**SHEET** 50 **OF** 54 |



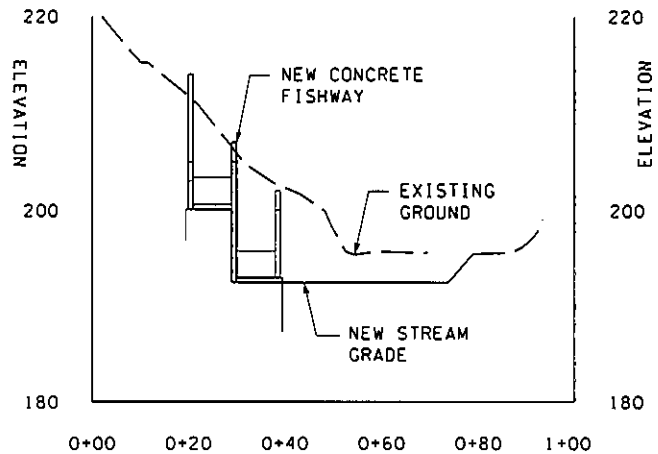

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | **I-405, SR520 to SR522**<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**FORBES CREEK CULVERT & FISHWAY**<br>**ENLARGED VIEW - PLAN** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | 0 20 40<br>Feet<br><br>**SHEET** 51 **OF** 54 |



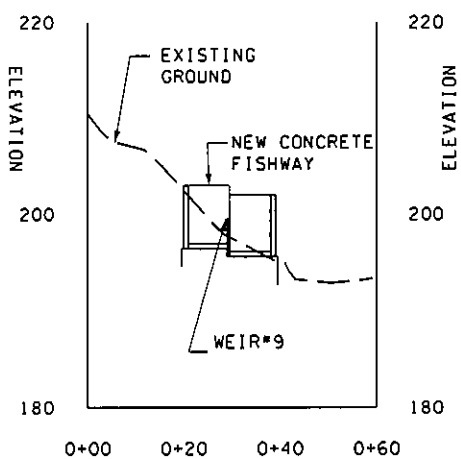

SECTION A 50



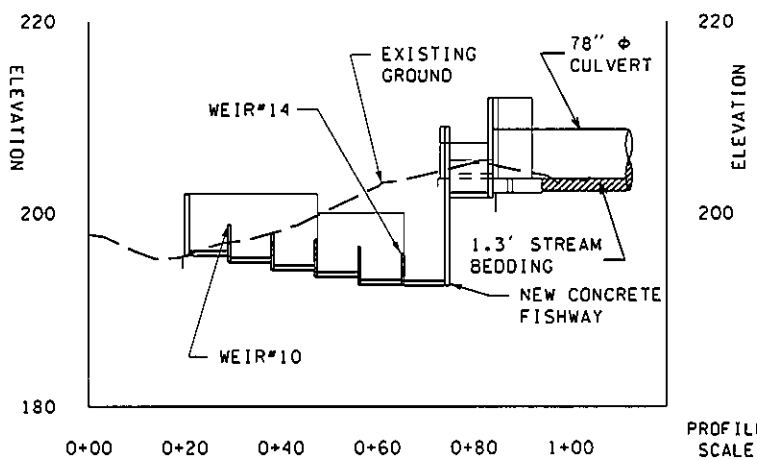

SECTION B 50



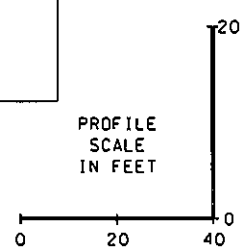

SECTION C 50




SECTION D 50




SECTION E 50




## FORBES CREEK FISHWAY STRUCTURE

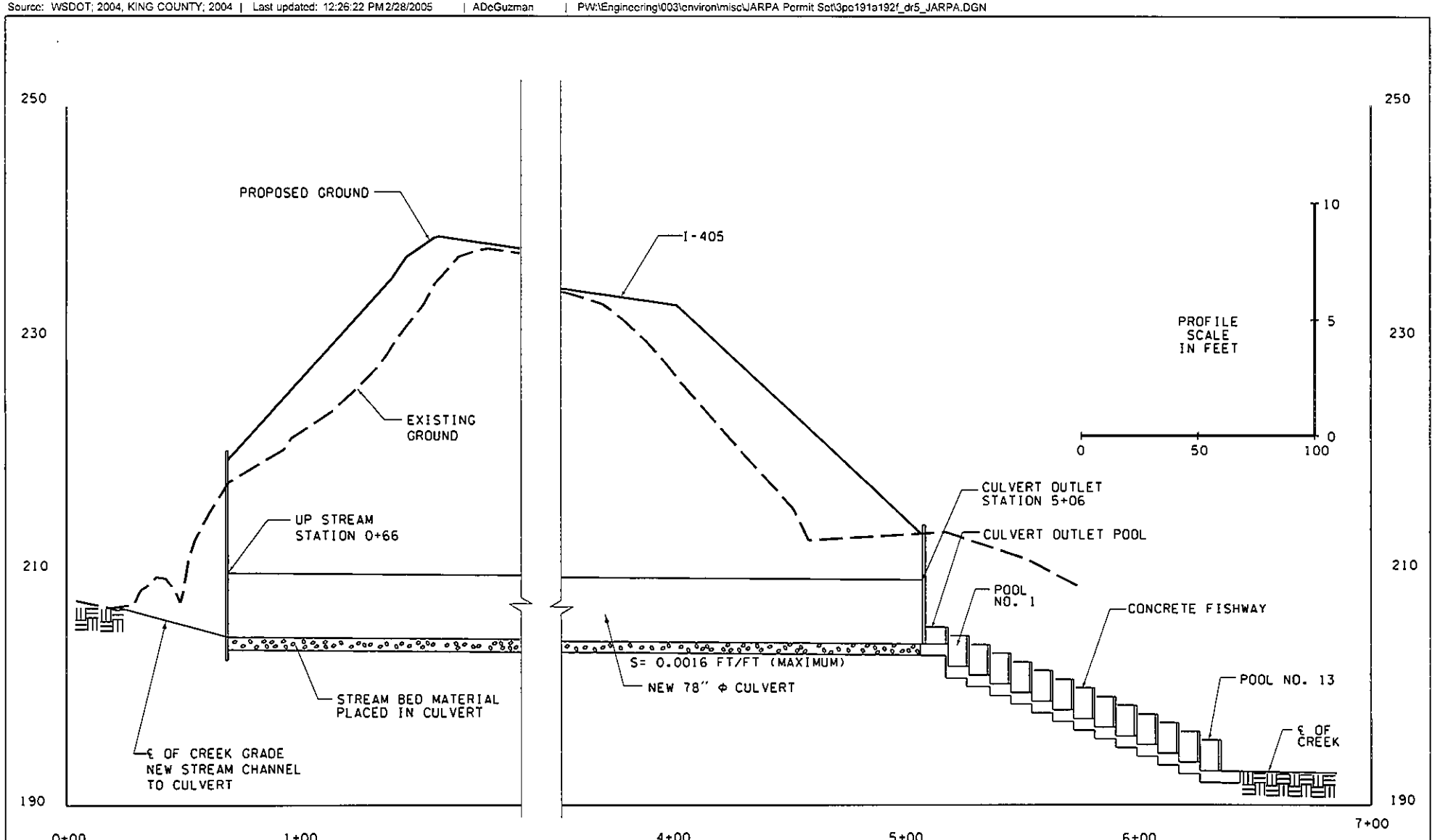
| SILL # | POOL # | SILL ELEV | POOL FLOOR ELEV |
|---|---|---|---|
| | CULVERT OUTLET | | 204.09 |
| 1 | 1 | 205.54 | 202.14 |
| 2 | 2 | 204.79 | 201.39 |
| 3 | 3 | 204.04 | 200.64 |
| 4 | 4 | 203.29 | 199.89 |
| 5 | 5 | 202.54 | 199.14 |
| 6 | 6 | 201.79 | 198.39 |
| 7 | 7 | 201.04 | 197.64 |
| 8 | 8 | 200.29 | 196.89 |
| 9 | 9 | 199.54 | 196.14 |
| 10 | 10 | 198.79 | 195.39 |
| 11 | 11 | 198.04 | 194.64 |
| 12 | 12 | 197.29 | 193.89 |
| 13 | 13 | 196.54 | 193.14 |
| 14 | | 195.79 | |

**PURPOSE:** Roadway improvements

**HORIZONTAL DATUM:** NAD 83/91
**VERTICAL DATUM:** NAVD 88

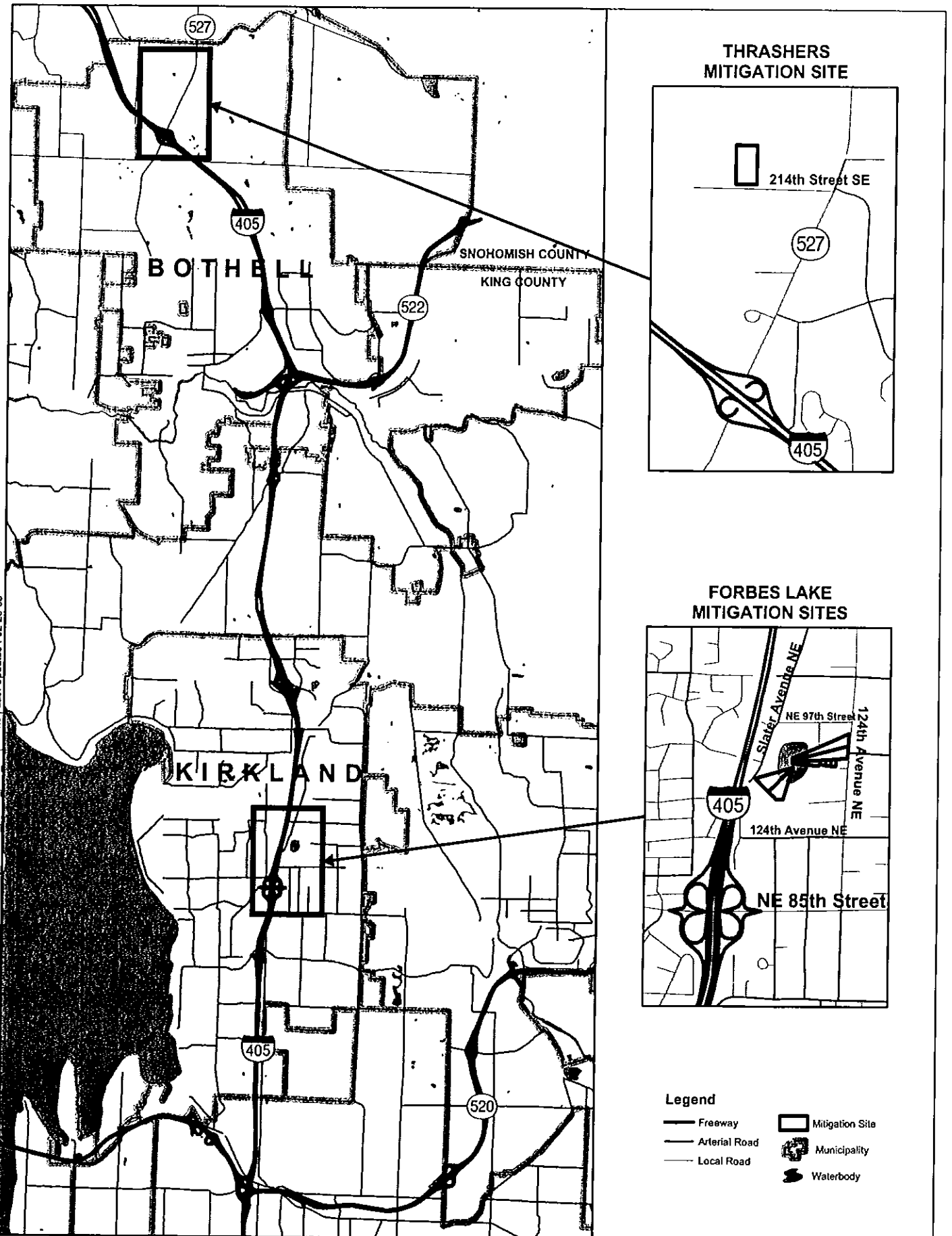
I-405, SR520 to SR522
**REFERENCE #:** 200401410
**APPLICANT:** WSDOT
**FORBES CREEK CULVERT - FISHWAY SECTIONS**

**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.
**IN:** Wetlands
**AT:** Kirkland
**COUNTY:** King **STATE:** WA
**DATE:** 2/28/05




# FORBES CREEK CULVERT AND FISHWAY

| | | | |
|---|---|---|---|
| **PURPOSE:** Roadway improvements<br><br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD 88 | I-405, SR520 to SR522<br>**REFERENCE #:**<br>200401410<br>**APPLICANT:** WSDOT<br>**FORBES CREEK CULVERT - PROFILE** | **PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Wetlands<br>**AT:** Kirkland<br>**COUNTY:** King **STATE:** WA<br>**DATE:** 2/28/05 | **SHEET** 53 **OF** 54 |




Source: WSDOT; 2004, King County; 2004 | \\SEAW405\405gis\project\map_docs\Kirkland\Permitting\kirkland_permit_plan_maps.mxd | Last Updated : 02-28-05

| | | | |
|---|---|---|---|
| **MITIGATION SITE VICINITY MAP** | **I-405, SR520 to SR522**<br>REFERENCE:<br>**200401410**<br>**APPLICANT:** WSDOT | **PURPOSE:** Roadway Improvements<br>**PROPOSED/RETAIN:** 2.142 acres of impacts to wetlands and other waters of the U.S.<br>**IN:** Streams and Wetlands<br>**AT:** Kirkland and Bothell<br>**COUNTY:** King and Snohomish **STATE:** WA<br>**DATE:** 02/28/2005 | N W E S 0 0.5 1 Miles<br>**HORIZONTAL DATUM:** NAD 83/91<br>**VERTICAL DATUM:** NAVD88<br>**SHEET 54 of 54** |

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Notice of Application for
Water Quality Certification
and for
Certification of Consistency with the
Washington Coastal Zone Management Program

Date: March 29, 2005.

Notice is herby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 401 of the federal Clean Water Act of 1977 (PL 95-217), to certify that the project described in the U.S. Army Corps of Engineers Public Notice No. 200401410 will comply with the Sections 301, 302, 303, 306, and 307 of the Act, and with applicable provisions of State and Federal water pollution control laws.

Notice is herby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 307© of the Federal Coastal Zone Management Act of 1972 (16 U.S.C. 1451), to certify that the above referenced project will comply with the Washington State Coastal Zone Management Program and that the project will be conducted in a manner consistent with that program.

Any person desiring to present views on the project pertaining to the project on either or both (1) compliance with water pollution control laws or (2) the project's compliance or consistency with the Washington State Coastal Zone Management Program may do so by providing written comments within 30 days of the above publication date to:

Federal Permit Coordinator
Department of Ecology
SEA Program
Post Office Box 47600
Olympia, Washington 98504-7600