



US Army Corps  
of Engineers  
Seattle District

# Public Notice of Application for Permit

**US Army Corps of Engineers**  
Regulatory Branch  
4735 E. Marginal Way S., Bldg 1202  
Seattle, WA 98134-2388  
Telephone: (360) 399-8034  
ATTN: Lydia Baldwin,  
Project Manager

**Public Notice Date: May 2, 2025**  
**Expiration Date: June 1, 2025**

**Reference No.: NWS-2024-185**  
**Name: Lummi Indian Business Council**  
**Public Works**

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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 10 of the Rivers and Harbors Act of 1899 and in accordance with Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings dated March 21, 2025.

**APPLICANT:** Lummi Indian Business Council Public Works

Attention: Tim Ellis  
2665 Kwina Road  
Bellingham, Washington 98226  
Telephone: (360) 312-2334

**AGENT:** Natural Systems Design and Coastal Geologic Services

Attention: Adam Tullis  
203 West Chestnut Street  
Bellingham, Washington 98225  
Telephone: (360) 797-5996

**LOCATION:** In Bellingham Bay at the Lummi Indian Reservation, near Bellingham, Whatcom County, Washington

**WORK:** Repair, replace and install shoreline armoring.

**PURPOSE:** Stabilize the existing bank to protect infrastructure (road, etc.).

**ADDITIONAL INFORMATION:** The applicant proposes to repair, replace and install shoreline armoring at five locations along Lummi Shore Road and Lummi View Drive in Bellingham Bay. The project will include removing 2,514 cubic yards (CY) of dense rock from the beach below the high tide line (HTL) and the temporary placement of 19 CY of material below HTL for construction access. The project will include removing 3,132 CY of existing armoring and bank material below HTL and installing 3,774 CY of shoreline armoring below HTL for repair and replacement of existing armoring. The project will also include installing 577 CY of new or

expanded shoreline armoring below HTL. Project construction will consist of standard revetment construction methods utilizing excavators, loaders, and dump trucks.

Copies of this public notice which have been mailed or otherwise physically distributed feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at <http://www.nws.usace.army.mil/> and under the heading Open Public Comment Periods select Regulatory Public Notices. Recently-issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

The line of mean high water and the high tide line shown on the project drawings have not yet been verified by the U.S. Army Corps of Engineers (Corps). If the Corps determines the boundaries of the wetland/waters are substantially inaccurate a new public notice may be published.

**MITIGATION:** Proposed mitigation consists of rubble removal, beach nourishment, invasive plant species removal, shoreline enhancement through native plant installation, debris removal, removal of a 170-foot-long concrete bulkhead, removal of 176 creosote pilings and 605 linear feet of creosoted piling walls, removal of a broken dock, and shellfish bed gravel nourishment.

**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 the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. After receipt of comments from this public notice, the U.S. Army Corps of Engineers will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat. If the U.S. Army Corps of Engineers (Corps) determines that the proposed action may adversely affect essential fish habitat (EFH) for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

**CULTURAL RESOURCES:** The Federal Emergency Management Agency, as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act, will consult with the State Historic Preservation Officer and Native American Nations as appropriate.

**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 Washington Department of Ecology has or will evaluate the proposed project in accordance with Section 401 of the Clean Water Act and for consistency with the Coastal Zone Management Act.

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.

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 authorizing the work would not be contrary to the public interest. 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 [lydia.baldwin@usace.army.mil](mailto:lydia.baldwin@usace.army.mil). You may also now submit project specific comments to the Corps through the new Regulatory Request System (RRS) through this link: <https://rrs.usace.army.mil/rrs> ; Click Public Notices and filter to Washington State to see all current Seattle District Public Notices, including this notice. You may submit your comments directly through this portal. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Lydia Baldwin, 4735 E. Marginal Way S, Bldg. 1202, Seattle, Washington, 98134-2388.

Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commenter's name, address, and phone number. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses. 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. To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Lummi Indian Business Council Public Works, NWS-2024-185

Encl: Figures (74)

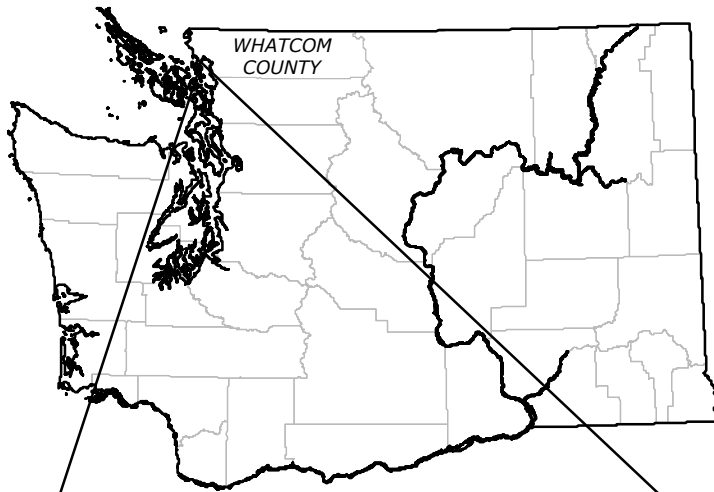
# LUMMI VIEW DRIVE - LUMMI SHORE ROAD

## REVTMENT REPAIR

### LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

**For Review**

03/21/2025



**STATE OF WASHINGTON**

SCALE: 1" = 100 MILES



**VICINITY MAP**

SCALE: 1" = 5 MILES

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD

REVTMENT REPAIR & INSTALLATION

STA 129+50 - STA 372+00

**COVER SHEET**

VICINITY MAP

LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY / FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE SHEETS 5, 16, 30, 37, & 68 FOR LIST  
Adjacent Property Owners:  
MULTIPLE, SEE SHEETS 6, 17, 40, 47, & 58 FOR LIST

Location: 48.7280 LATITUDE  
-122.6476 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: VARIES  
Elev. MHHW: VARIES  
Elev. HTL: VARIES  
Date: 2/11/2025

Sheet: 1 OF: 74

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| 4         | NOTES           | SURVEY NOTES - MONUMENT LIST - DATUM           |

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**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
STA 129+50 - STA 372+00  
**SHEET INDEX**

SHEET INDEX  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY / FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE SHEETS 5, 16, 30, 37, & 68 FOR LIST  
Adjacent Property Owners:  
MULTIPLE, SEE SHEETS 6, 17, 40, 47, & 58 FOR LIST

Location: 48.7280 LATITUDE  
-122.6476 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: VARIES  
Elev. MHW: VARIES  
Elev. MHHW: VARIES  
Date: 2/11/2025

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LUMMI BAY

**PROJECT AREA:  
END EFFECTS**

STA 369+50 - 372+00  
SHEETS: 67 - 74  
ASSESSOR PARCEL #'S:  
3802300553440000,  
3802300663610000,  
3802300703780000,

**PROJECT AREA:  
SECTION 14**

STA 332+50 - 358+00  
SHEETS: 46 - 66  
ASSESSOR PARCEL #'S:  
3801253300820000,  
3801254021060000,  
3801253501250000,  
3801254371270000,  
3801255141820000,  
3802300322850000

**PROJECT AREA:  
SOUTH OF SMOKEHOUSE RD.**

STA 279+00 - 313+00  
SHEETS: 16 - 38  
ASSESSOR PARCEL #'S:  
3801360552100000, 3801360753350000,  
3801361704040000, 3801361754120000,  
3801361814030000, 3801361804350000,  
3801361904510000, 3801362404550000,  
3801362054770000, 3801362154880000,

**PROJECT AREA:  
SMOKEHOUSE ACCESS.**

STA 314+00 - 317+00  
SHEETS: 39 - 45  
ASSESSOR PARCEL #'S:  
3801362054770000,  
3801362154880000

**PROJECT AREA:  
LITTLE BEAR**

STA 129+50 - 134+50  
SHEETS: 5 - 15  
ASSESSOR PARCEL #'S:  
3701034845500000,  
3701035474550000,  
3701035103500000

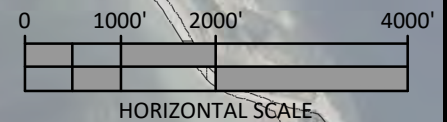
FISHERMANS  
COVE

LUMMI PENINSULA

BELLINGHAM BAY

PORTAGE BAY

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



**PROJECT AREA LOCATION MAP**

SCALE: 1" = 2000'



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
STA 129+50 - STA 372+00

AERIAL OVERVIEW

PROJECT AREA LOCATION MAP - PROJECT PARCEL MAP  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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-122.6476 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: VARIES  
Elev. MHHW: VARIES  
Elev. HTL: VARIES  
Date: 2/11/2025

Sheet: 3 OF: 74

SURVEY NOTES:

Horizontal Datum:

NAD83 (2011) Washington State Plane, North Zone, US Foot

Vertical Datum:

North American Vertical Datum of 1988 (NAVD88)

High Tide Line:

The High Tide Line (HTL) elevation for project area "Little Bear" (STA 129+50 - STA 134+50) is considered to be 10.00' NAVD88, determined based on the ten-year average highest annual tide at NOAA Station 9449161, Village Point.

The High Tide Line (HTL) elevation for project areas "South of Smokehouse Road" (STA 279+00 - 313+00), Smokehouse Access (STA 314+00 - 317+00), "Section 14" (STA 332+50 - 358+00), and "End Effects" (STA 369+50 - 372+00) is considered to be 9.21' NAVD88, determined based on the ten-year average highest annual tide at NOAA Station 9449211, Bellingham.

Topography and Feature Mapping:

A 3D photo model of the site were created in Agisoft PhotoScan using a photogrammetry technique called *structure from motion*, utilizing drone photo mapping. This 3D model was anchored in geographic space using survey control points collected by Coastal Geologic Services (CGS) on 5/2019 using Real Time Kinematic (RTK) GPS.

The vertical elevations were verified in reference to the monuments listed below as well as the road elevations of the 2017 LiDAR delivered by Quantum Spatial, September 29, 2017 Western Washington 3DEP LiDAR Technical Data Report Contract No. G16PC00016, Task Order No. G16D00383 Published by USGS, data acquired March 17, 2016 - September 30, 2016, 3 FT ground resolution.

Parcel lines shown are approximate and for reference only. No boundary survey was completed as part of this work. Boundaries were obtained from the 2012 Washington State Parcel Database, and used as-is here.

Detailed aerial photography provided by Lummi Nation Natural Resources, Dated 2024 and used here as is.

Monuments:

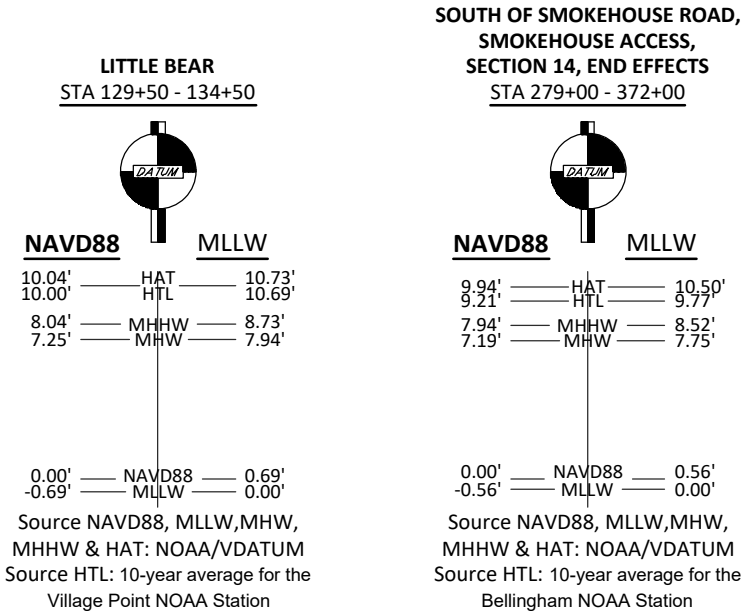
Monuments listed were found and or set on the on the Lummi View Drive and Lummi Shore Road paved road surface. Coordinates and elevations of these monuments provided below are based on the 5/2019 RTK GPS survey conducted by CGS.

It is recommended that the monuments listed below are surveyed and verified by a licensed surveyor prior to construction.

MONUMENT LIST:

| NAME    | EASTING  | NORTHING | ELEV. | DESCRIPTION          |
|---------|----------|----------|-------|----------------------|
| 107     | 1198966' | 636223'  | 21.1' | Found PK Nail        |
| 108     | 1198958' | 635789'  | 23.8' | Found PK Nail        |
| 302WCPW | 1199039' | 635607'  | 25.2' | PK Nail/Washer WCPW  |
| 101     | 1206798' | 640861'  | 29.4' | Found brass disc     |
| 104     | 1207406' | 641470'  | 30.5' | CGS PK Nail/Tape     |
| 112     | 1205964' | 639644'  | 39.7' | Found brass disc     |
| 115     | 1206235' | 640069'  | 37.5' | Found brass disc     |
| 108CGS  | 1207914' | 641935'  | 32.0' | CGS PK Nail/Tape     |
| 305PK   | 1210660' | 644913'  | 42.0' | Found PK Nail/Washer |
| 306PK   | 1210388' | 644722'  | 45.2' | Found PK Nail/Washer |
| 307PK   | 1210259' | 644647'  | 48.4' | Found PK Nail/Washer |
| 308PK   | 1209876' | 644373'  | 44.9' | CGS PK Nail/Tape     |
| 309PK   | 1209518' | 644040'  | 41.3' | CGS PK Nail/Tape     |
| 310PK   | 1209162' | 643342'  | 64.8' | CGS PK Nail/Tape     |
| 311PK   | 1208758' | 642883'  | 47.6' | CGS PK Nail/Tape     |
| 300PK   | 1211667' | 645910'  | 55.7' | CGS PK Nail/Tape     |
| 301PK   | 1211467' | 645626'  | 63.1' | CGS PK Nail/Tape     |
| 302PK   | 1211306' | 645478'  | 60.2' | CGS PK Nail/Tape     |

PROJECT TIDAL DATUMS:



DATUM ABBREVIATIONS:

|         |                                    |
|---------|------------------------------------|
| HAT:    | Highest Astronomical Tide          |
| HTL:    | High Tide Line                     |
| MHHW:   | Mean Higher High Water             |
| MHW:    | Mean High Water                    |
| MLLW:   | Mean Lower Low Water               |
| NAVD88: | North American Vertical Datum 1988 |

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



Natural Systems Design  
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SURVEY NOTES - MONUMENT LIST - DATUM  
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Elev. HTL: VARIES  
Date: 2/11/2025  
Sheet: 4 OF: 74

# LITTLE BEAR (STA 129+50 - STA 134+50)

## LEGEND (APPLIES TO SHEETS 5-15):

| FEATURE                | EXISTING   | PROPOSED   |
|------------------------|------------|------------|
| CONTOURS, MAJOR        | —#—        | —#—        |
| CONTOURS, MINOR        | —#—        | —#—        |
| PROPERTY LINE/ROW      | ---        | ---        |
| MEAN HIGH WATER        | ---MHW---  | ---MHW---  |
| MEAN HIGHER HIGH WATER | ---MHWW--- | ---MHWW--- |
| HIGH TIDE LINE         | ---HTL---  | ---HTL---  |

CLEAR AND REGRADE BANK AND INSTALL NEW REVETMENT

REMOVE EXISTING ROCK AND REBUILD REVETMENT

INSTALL NEW ROCK WALL

TAPERED ROCK TRANSITION

PLACE SALVAGED BOULDER CLUSTERS AND DRIFT LOGS

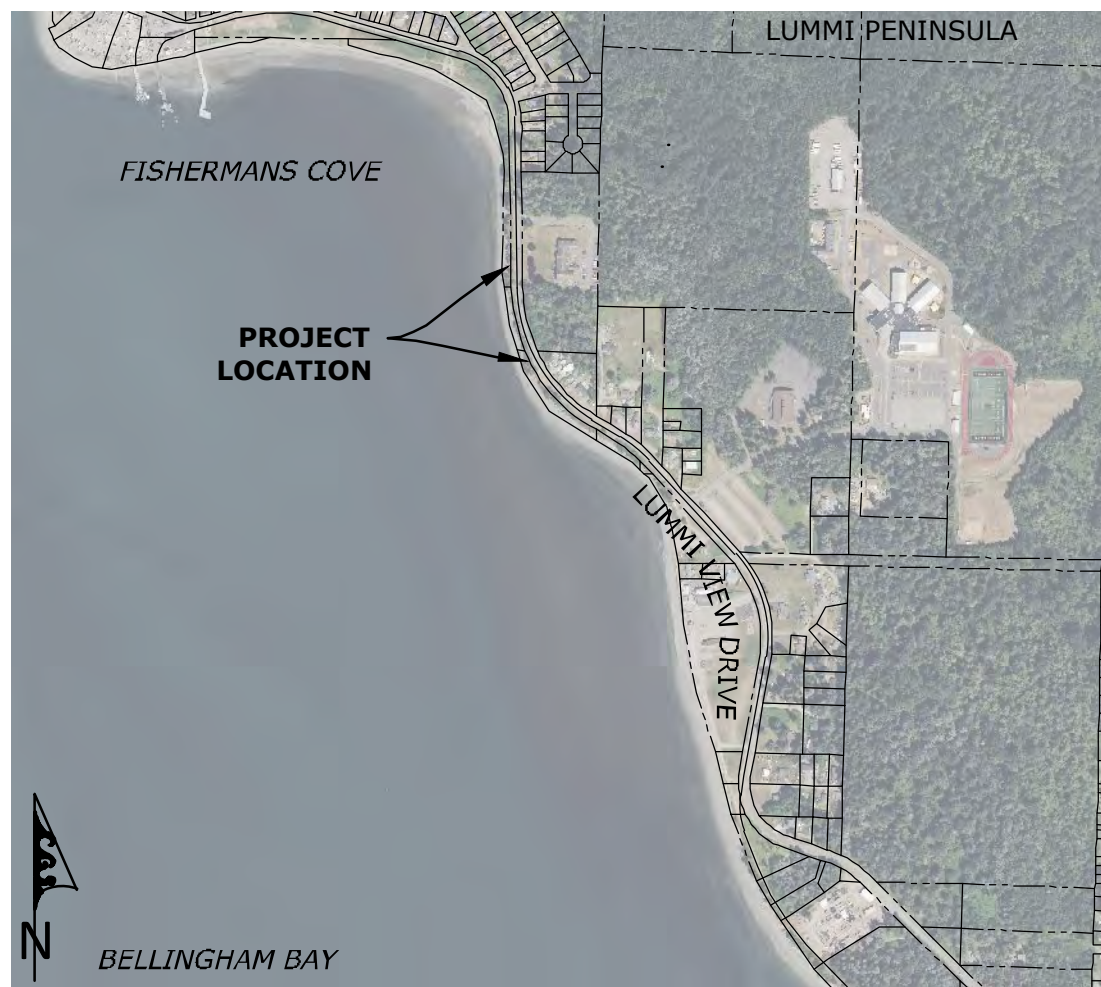
NATIVE SOIL FILL AND REPLANTING

QUARRY SPALLS FILL WITH 6" TOPSOIL AND GRASS PLANTINGS

## PERMIT LAND DISTURBANCE QUANTITIES

|                                                                                   |                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>AREA:</b> ABOVE HTL: 263 SF / BELOW HTL: 1,160 SF<br><b>CUT:</b> ABOVE HTL: 33 CY / BELOW HTL: 145 CY<br><b>FILL:</b> ABOVE HTL: 69 CY / BELOW HTL: 356 CY   |
|  | <b>AREA:</b> ABOVE HTL: 1,302 SF / BELOW HTL: 990 SF<br><b>CUT:</b> ABOVE HTL: 225 CY / BELOW HTL: 171 CY<br><b>FILL:</b> ABOVE HTL: 215 CY / BELOW HTL: 163 CY |
|  | <b>AREA:</b> ABOVE HTL: 225 SF / BELOW HTL: 447 SF<br><b>CUT:</b> ABOVE HTL: 115 CY / BELOW HTL: 228 CY<br><b>FILL:</b> ABOVE HTL: 106 CY / BELOW HTL: 305 CY   |
|  | <b>AREA:</b> ABOVE HTL: 171 SF / BELOW HTL: 106 SF<br><b>FILL:</b> ABOVE HTL: 76 CY / BELOW HTL: 32 CY                                                          |
|  | <b>AREA:</b> ABOVE HTL: 180 SF / BELOW HTL: 179 SF<br><b>FILL:</b> ABOVE HTL: 12 CY / BELOW HTL: 2 CY                                                           |
|  | <b>AREA:</b> ABOVE HTL: 2,461 SF / BELOW HTL: 38 SF<br><b>FILL:</b> ABOVE HTL: 267 CY / BELOW HTL: 4 CY                                                         |
|  | <b>AREA:</b> ABOVE HTL: 958 SF / BELOW HTL: 0 SF<br><b>FILL:</b> ABOVE HTL: 99 CY / BELOW HTL: 0 CY                                                             |

## LOCATION MAP:



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)

## LEGEND

LEGEND - LOCATION MAP  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025

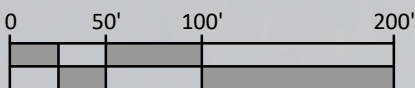
Sheet: 5 OF: 74

FISHERMANS COVE

WORK AREA  
LIMITS

**PERMIT  
DESIGN**

NOT FOR CONSTRUCTION



HORIZONTAL SCALE

### PROJECT PARCEL OWNERSHIP:

PARCEL #s: 3701035474550000 & 370103484550000

USA ITF LUMMI INDIAN TRIBE  
2665 KWINA RD  
BELLINGHAM WA 98226-9291

PARCEL #: 3701035103500000

UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169

### ADJACENT PARCEL OWNERSHIP:

PARCEL #: 3801344210060000

USA ITF LUMMI INDIAN TRIBE  
2665 KWINA RD  
BELLINGHAM WA 98226-9291

PARCEL #: 3701020203200000

UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169

WC TPN: 3701034845500000  
OWNER: USA ITF  
LUMMI INDIAN TRIBE

LUMMI VIEW DRIVE

WC TPN:  
3701035474550000  
OWNER: USA ITF  
LUMMI INDIAN TRIBE

WCPW302

WC TPN:  
3701035103500000  
OWNER: UNITED STATES  
DEPT OF INTERIOR  
BIA-RES 107  
JURISDICTION  
PROPERTIES



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
**OVERVIEW**

AERIAL PHOTO - PROPERTY MAP - KEY MAP - MOUNMENT MAP  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

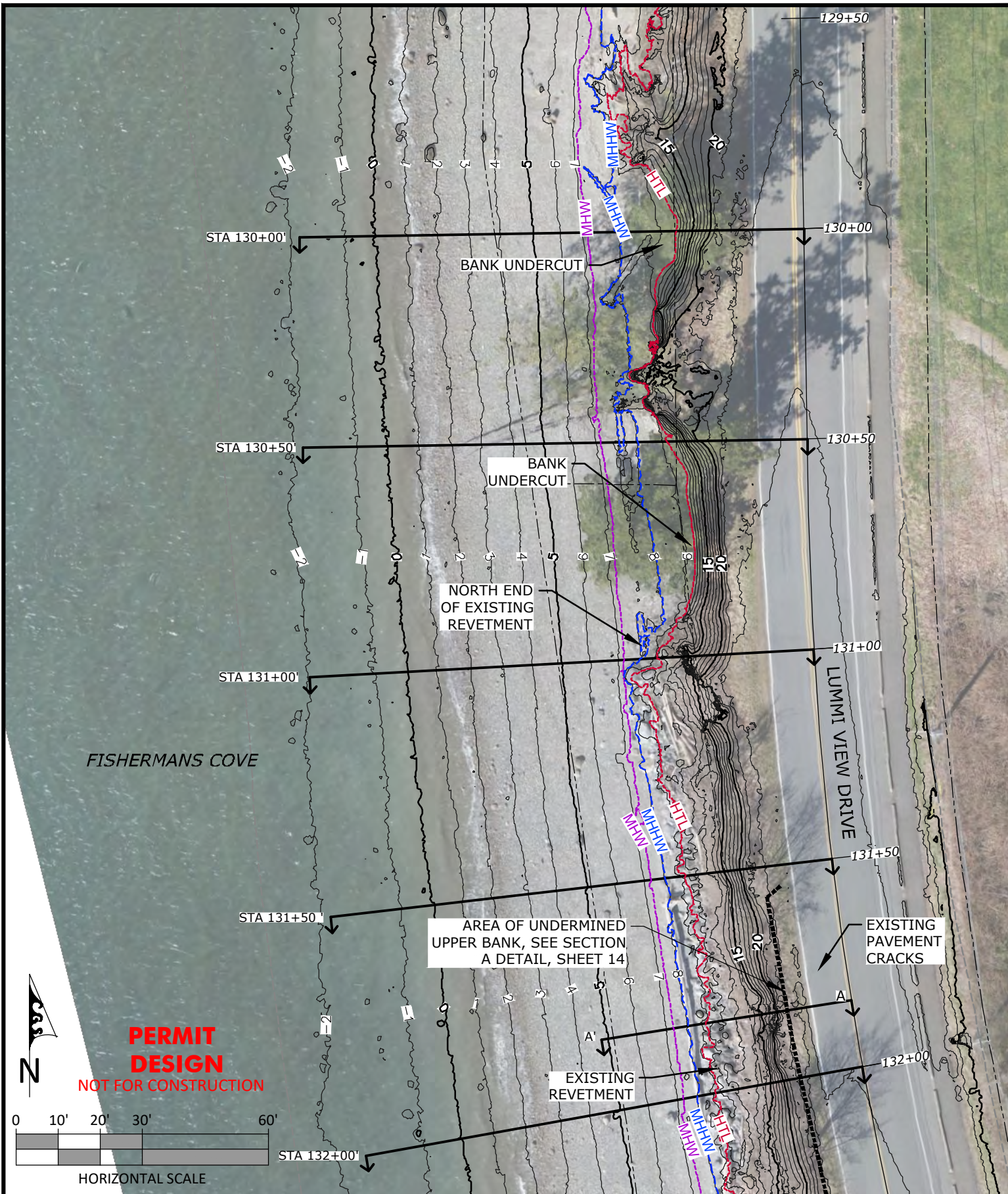
Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025

Sheet: 6 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_130-132\_PermittDesign-2024\_CGS



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
EXISTING CONDITIONS - SITE PLAN  
(STA 129+50 - STA 132+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

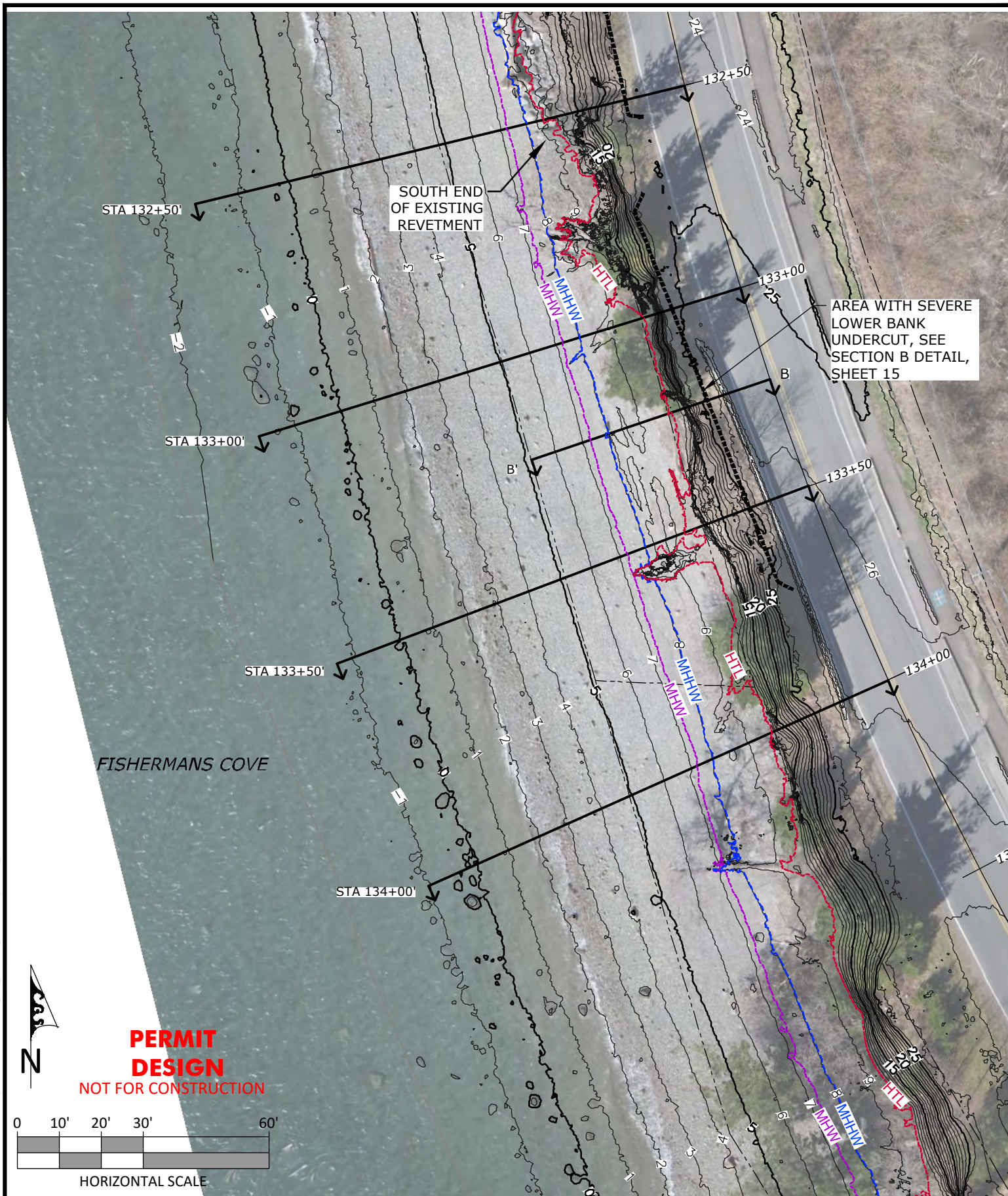
Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. HTL: 8.04 FT  
Date: 2/11/2025

Sheet: 7 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_130-132\_PermitDesign-2024\_CGS



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
EXISTING CONDITIONS - SITE PLAN  
(STA 132+50 - STA 134+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

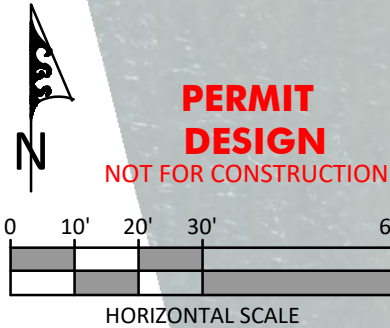
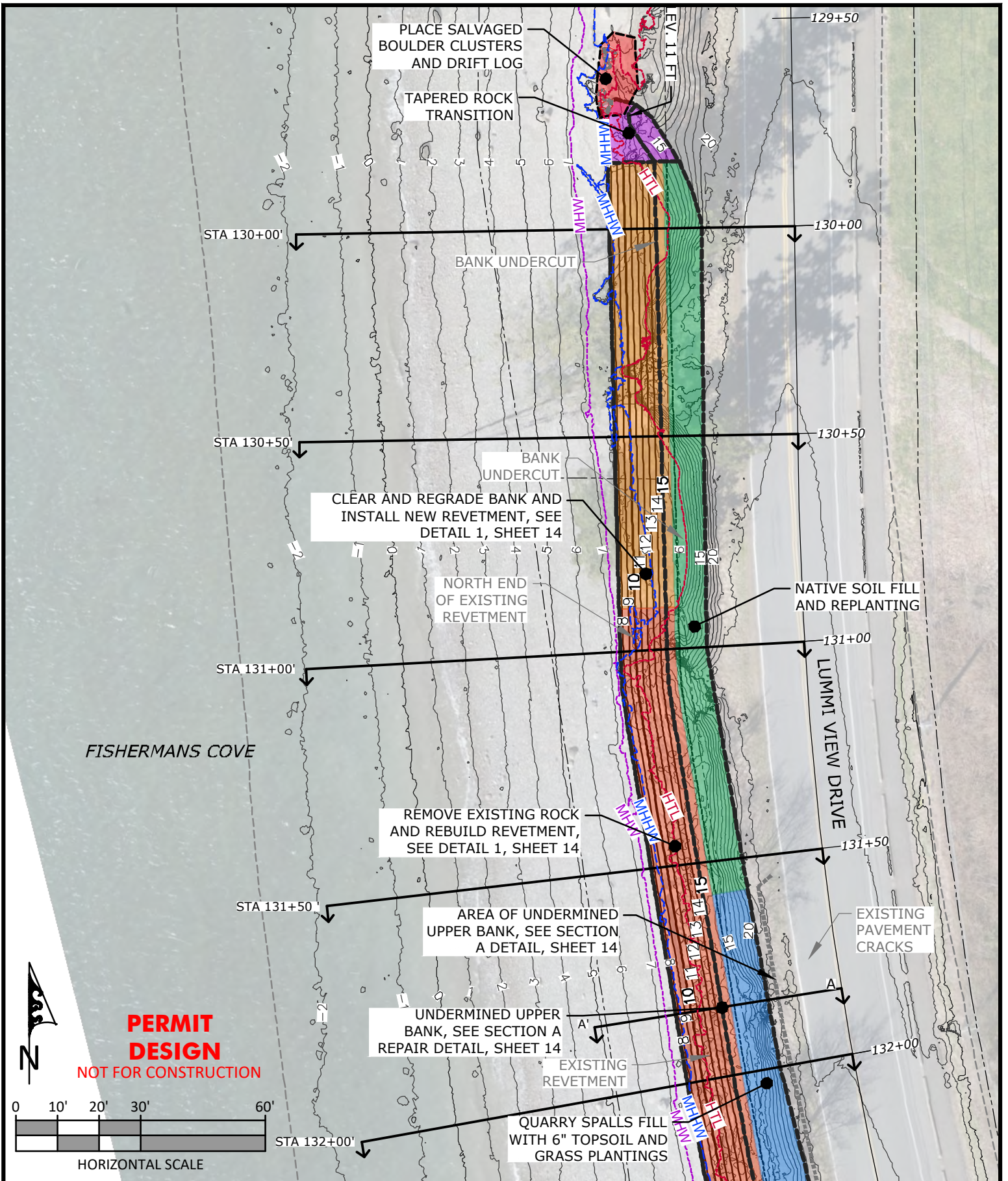
Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025

Sheet: 8 OF: 74

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**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEGETATION REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 129+50 - STA 134+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEGETATION REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

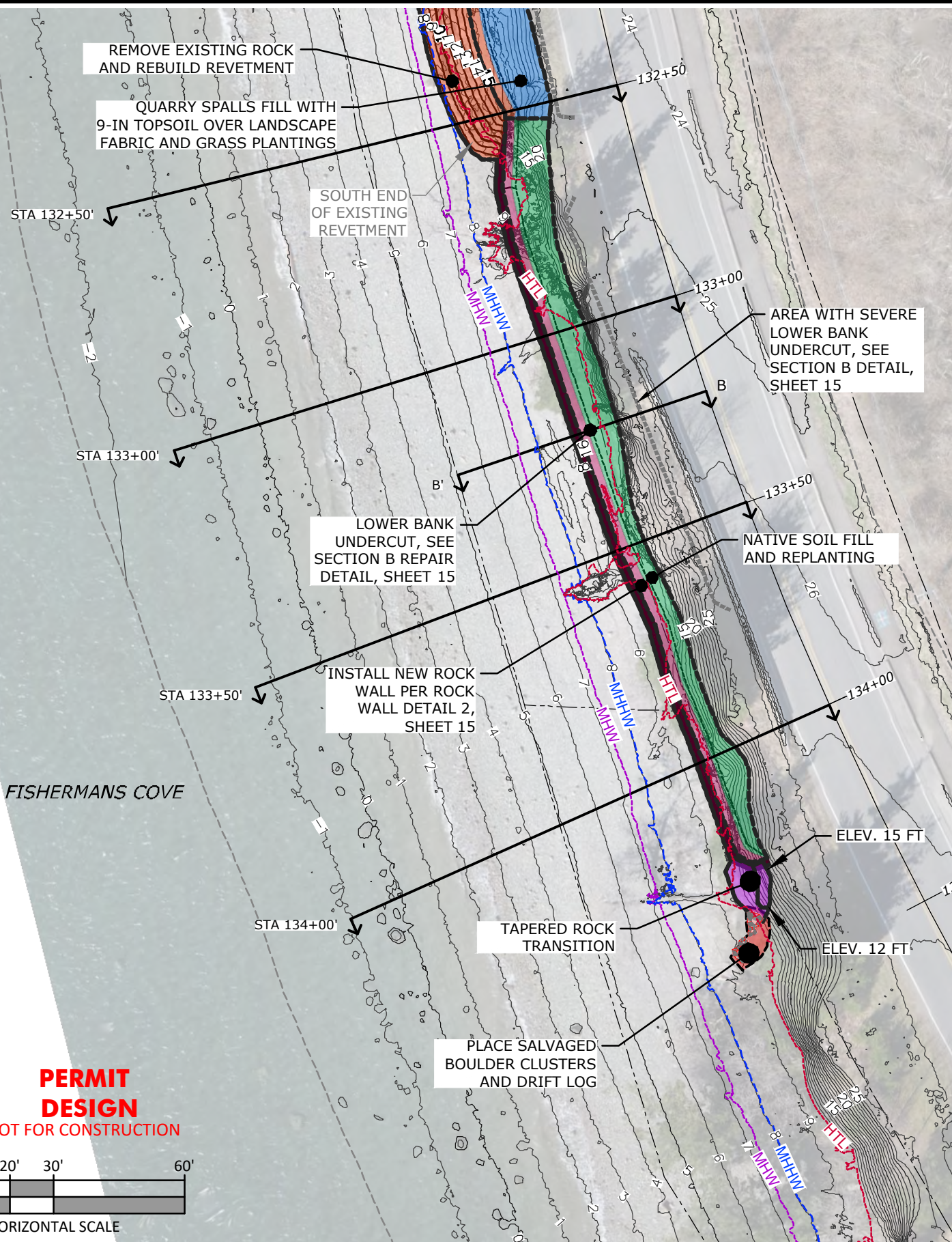
Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



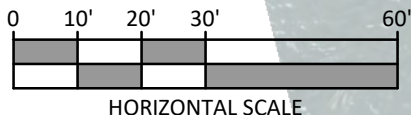
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Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025

Sheet: 9 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_130-132\_PermitDesign-2024\_CGS



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



HORIZONTAL SCALE



Natural Systems Design  
+ Coastal Geologic Services

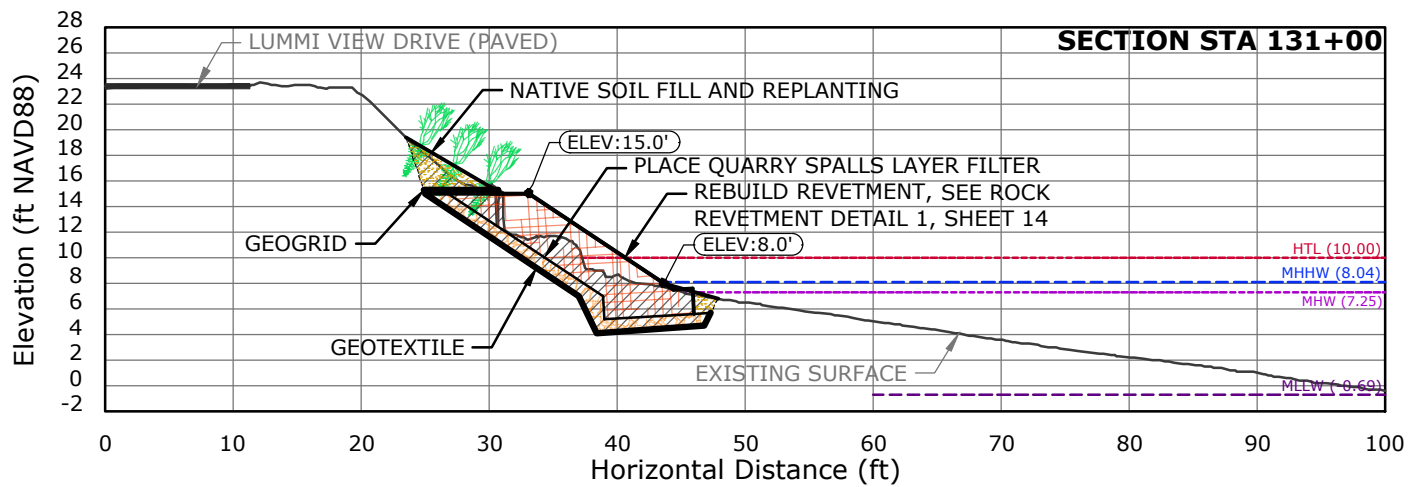
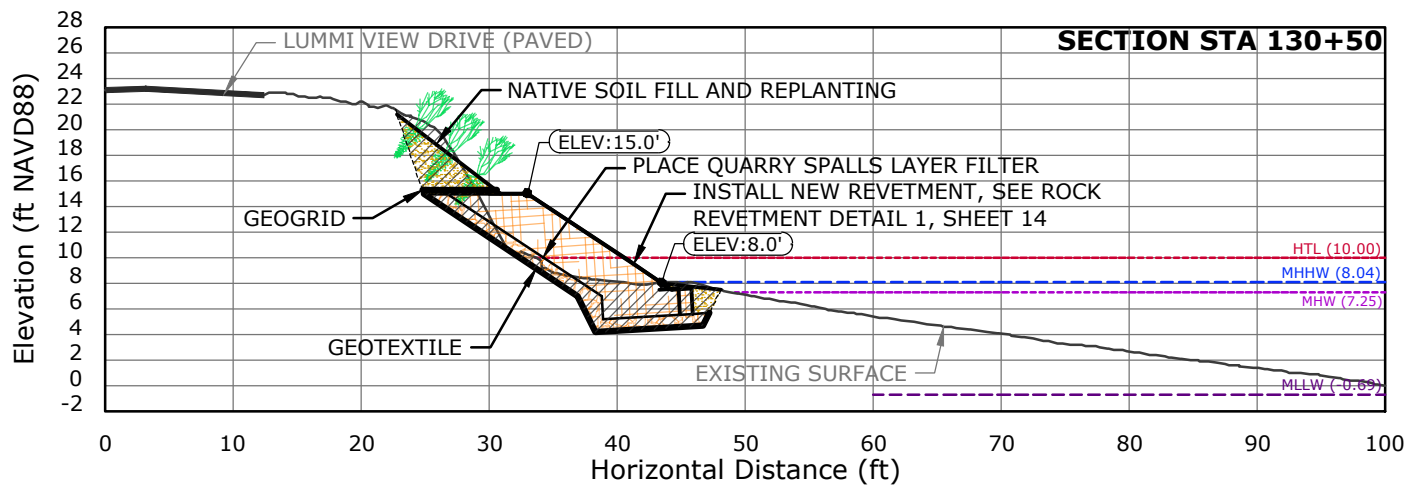
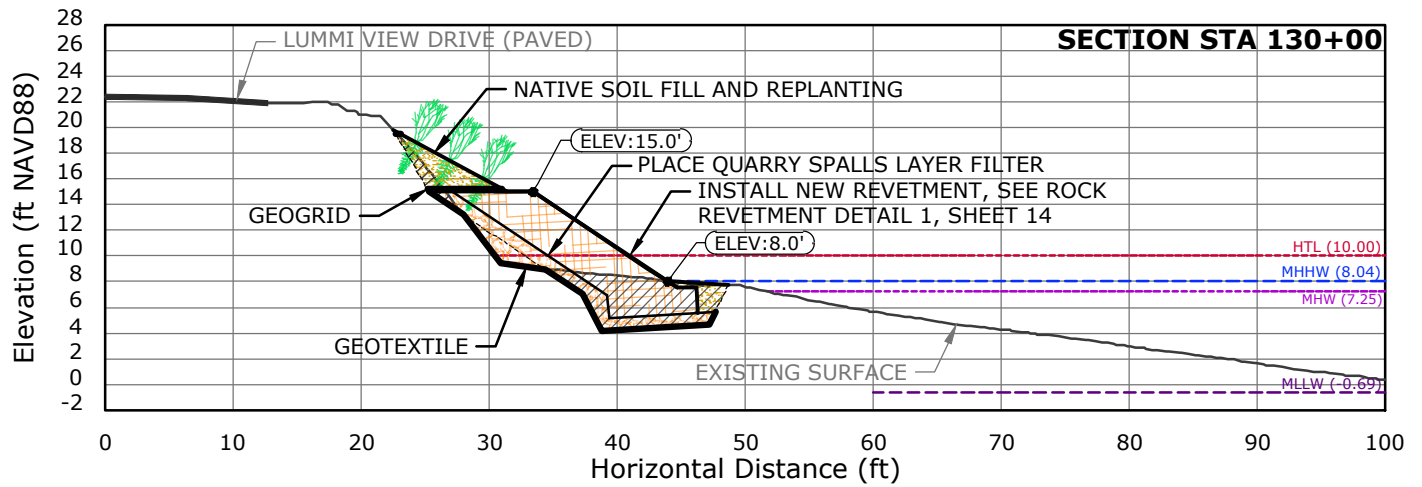
LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 132+50 - STA 134+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025  
Sheet: 10 OF: 74



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

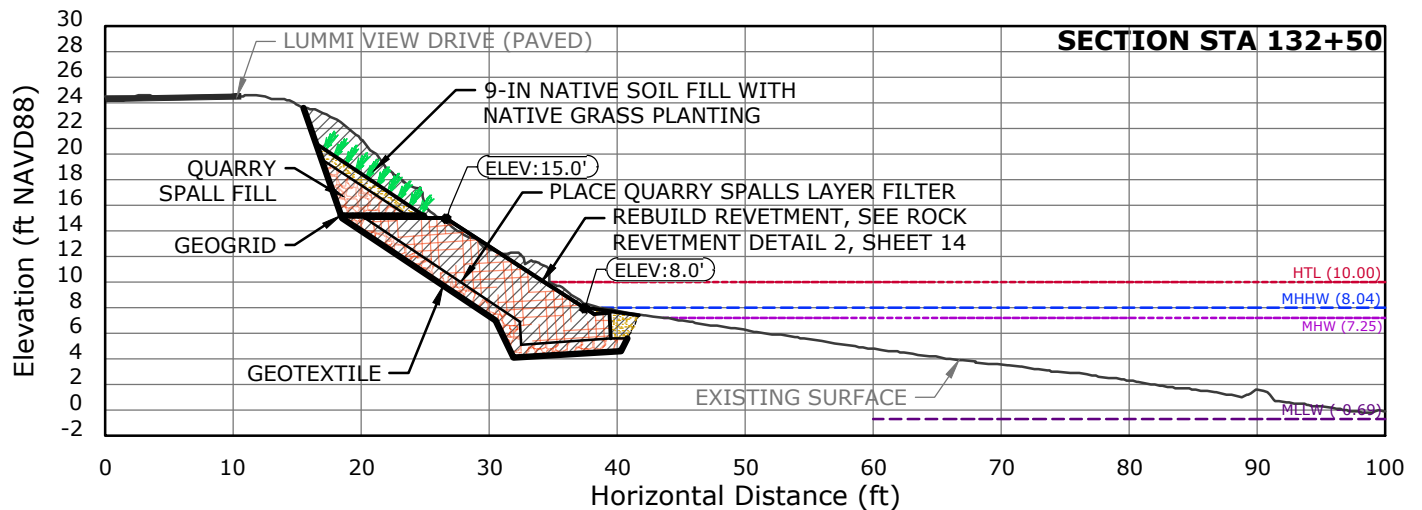
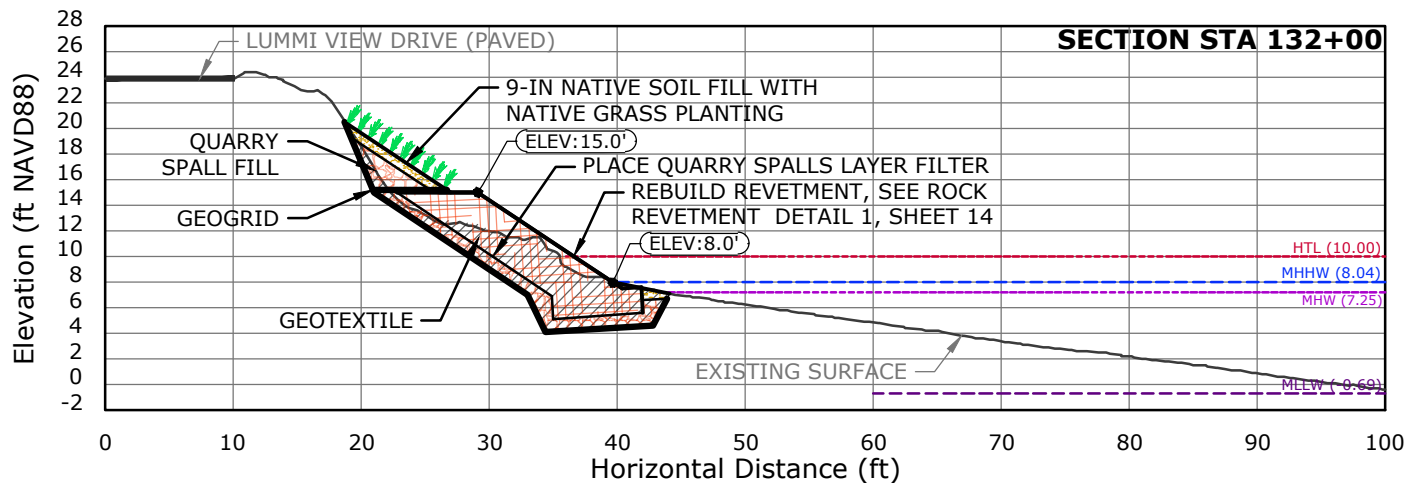
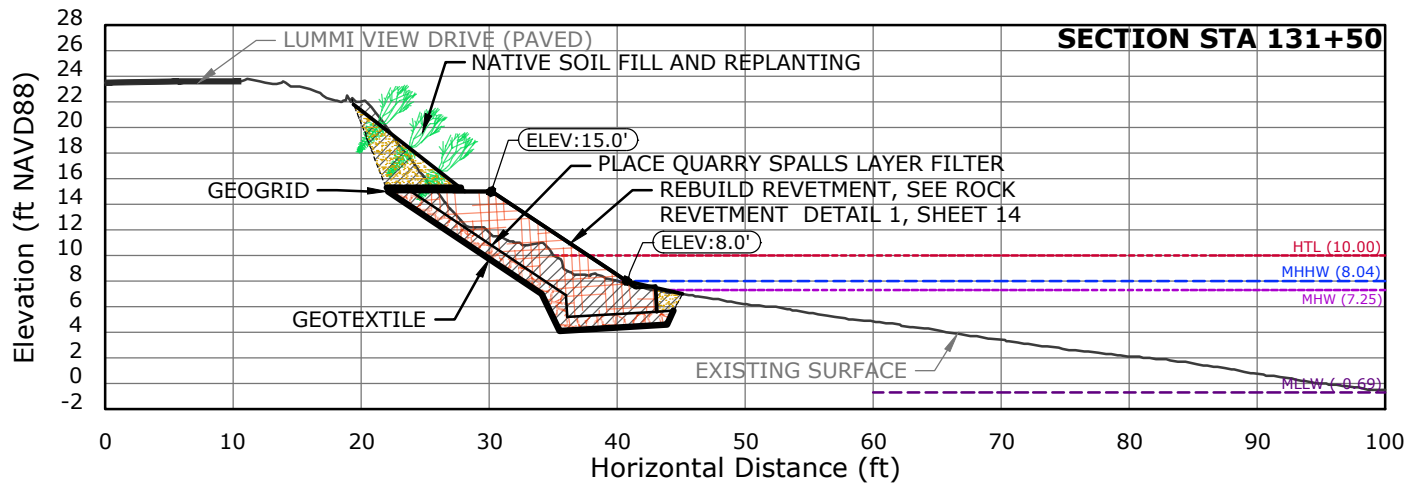


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
(STA 130+00 - STA 131+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025  
Sheet: 11 OF: 74





**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

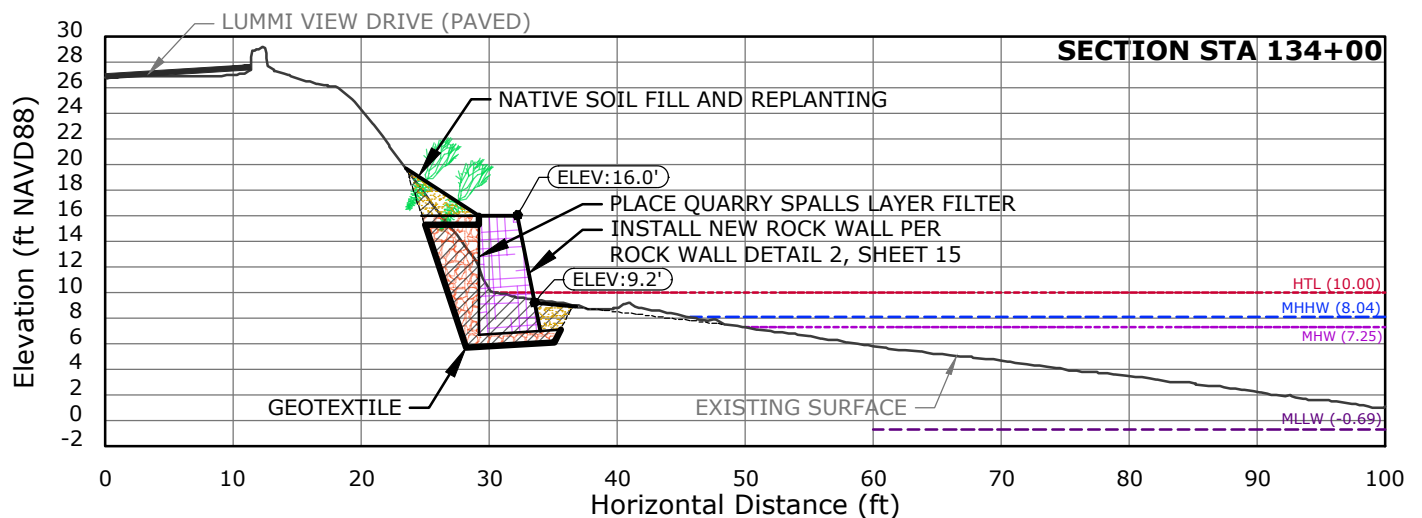
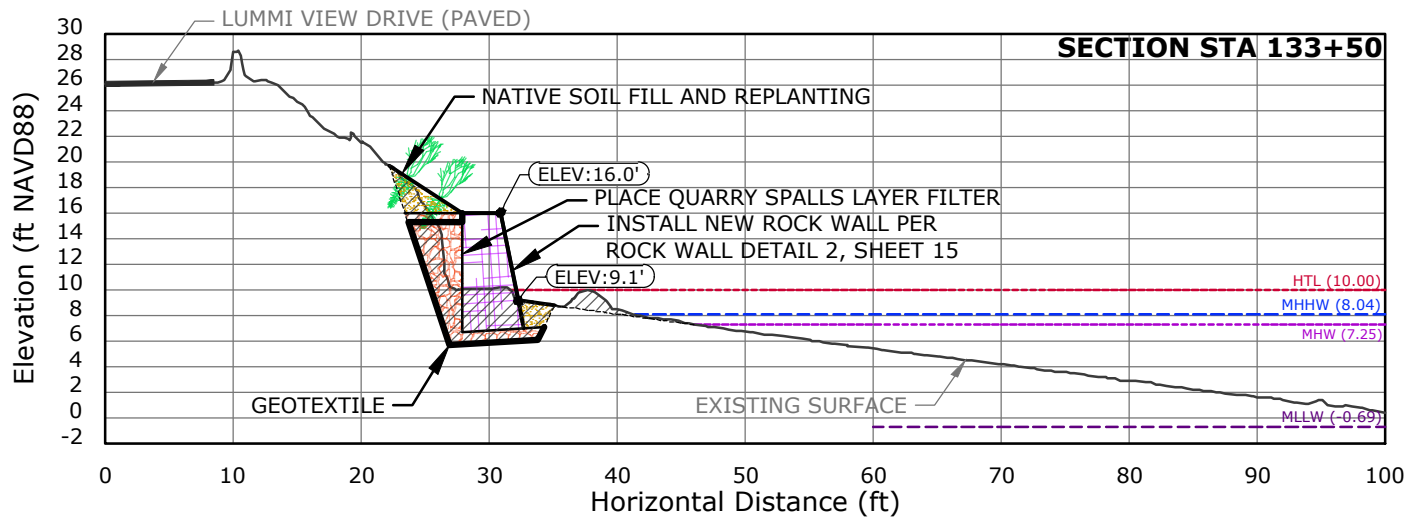
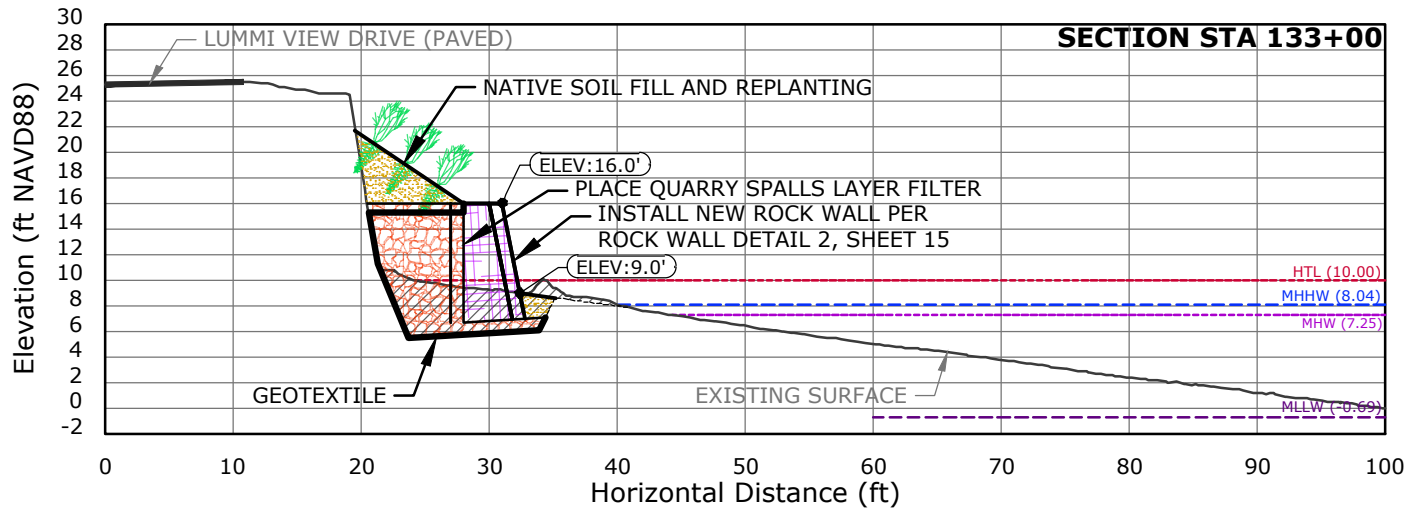


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
(STA 131+50 - STA 132+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025  
Sheet: 12 OF: 74





**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

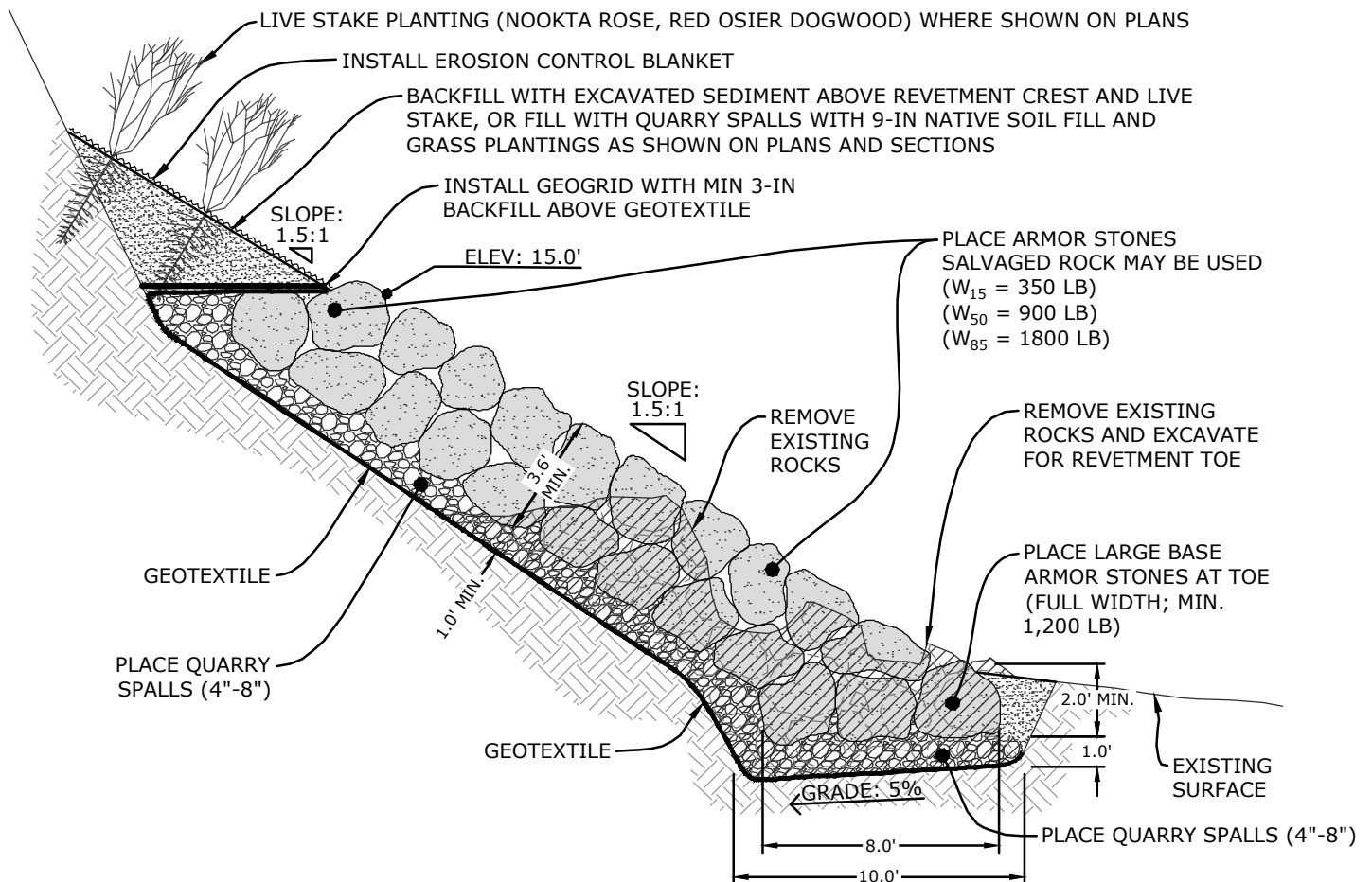
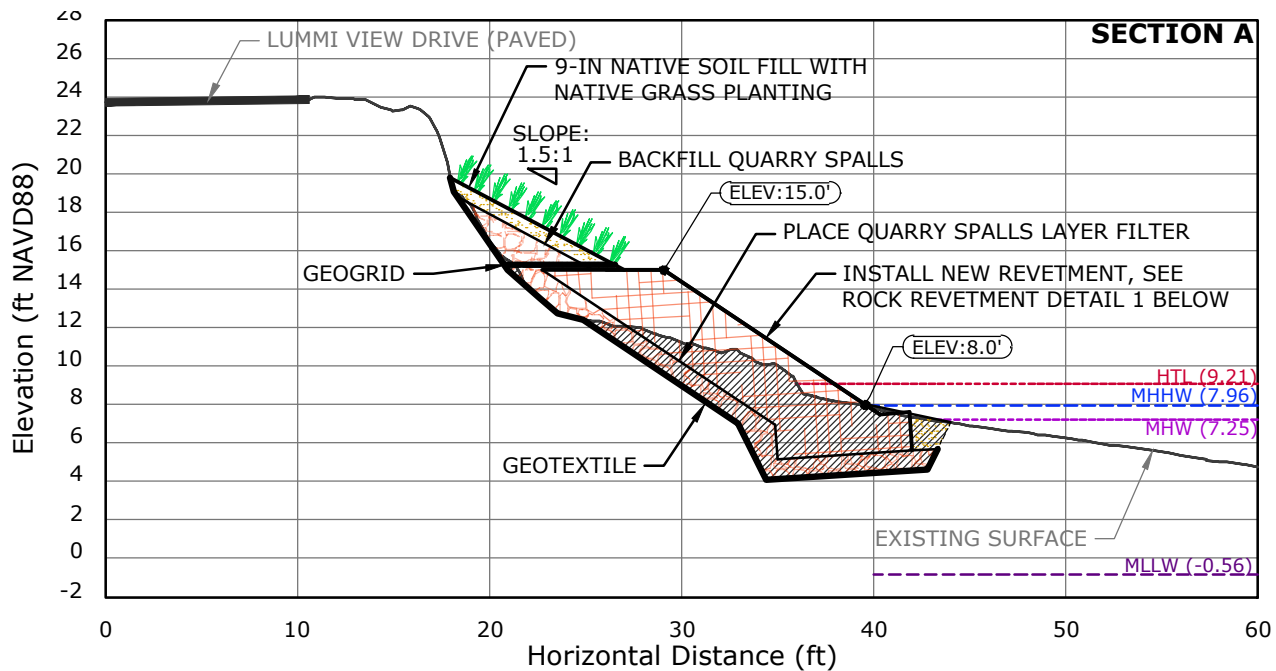


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
(STA 133+50 - STA 134+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Elev. HTL: 10.00 FT  
Date: 2/11/2025  
Sheet: 13 OF: 74





**1 ROCK REVETMENT DETAIL**  
NOT TO SCALE

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REKETMENT REPAIR & INSTALLATION  
LITTLE BEAR (STA 129+50 - STA 134+50)  
PROPOSED CONDITIONS - DETAIL  
CROSS SECTION A - DETAIL 1  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REKETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY/ FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 6  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 6

Location: 48.728971 LATITUDE  
-122.662826 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.25 FT  
Elev. MHHW: 8.04 FT  
Date: 2/11/2025

Sheet: 14 OF: 74



# SOUTH OF SMOKEHOUSE ROAD (STA 279+00 - STA 313+00)

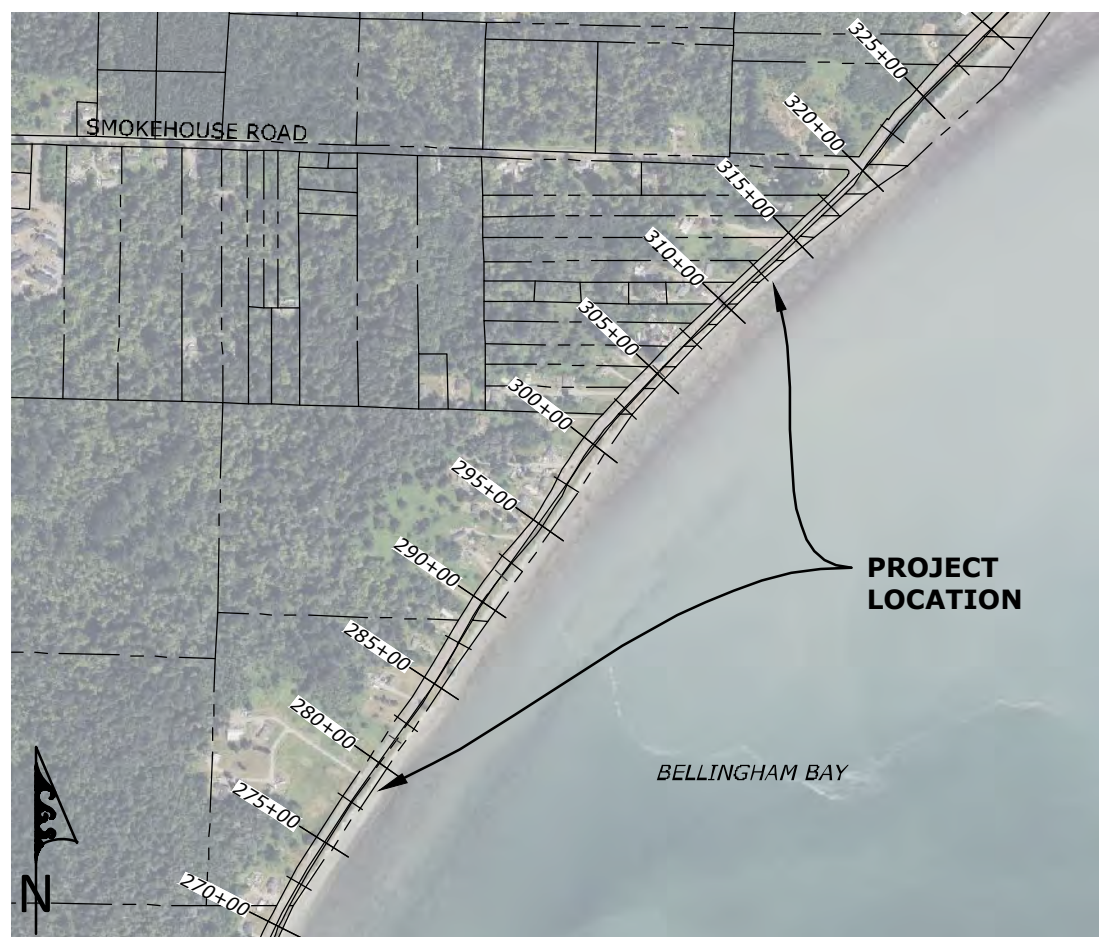
## LEGEND (APPLIES TO SHEETS 16-38):

| FEATURE                                                | EXISTING    | PROPOSED               |
|--------------------------------------------------------|-------------|------------------------|
| CONTOURS, MAJOR                                        | ——#——       |                        |
| CONTOURS, MINOR                                        | ——#——       |                        |
| STORM DRAIN                                            | ---D---D--- |                        |
| PROPERTY LINE/ROW                                      | ——-——-      |                        |
| MEAN HIGHER HIGH WATER                                 | ---MHW---   |                        |
| MEAN HIGHER HIGH WATER                                 | —MHHW—      |                        |
| HIGH TIDE LINE                                         | ---HTL---   |                        |
| REMOVE DISPLACED ROCK ON THE BEACH, SALVAGE FOR REUSE  |             | +5FT MLLW<br>-5FT MLLW |
| REINFORCE BASE ROCK/FOUNDATION OF THE REVETMENT        |             |                        |
| FILL LARGE DEPRESSIONS WITH PROPER SIZE AND SHAPE ROCK |             |                        |
| REESTABLISH ADEQUATE CREST ELEVATION OF THE REVETMENT  |             |                        |
| BACKFILL WITH QUARRY SPALLS                            |             |                        |
| REPAIR TRUCK TURNOUT ROAD                              |             |                        |
| TEMPORARY CONSTRUCTION ACCESS                          |             |                        |
| NATIVE SOIL FILL AND PLANTING                          |             |                        |

## PERMIT LAND DISTURBANCE QUANTITIES

HAT to +5FT MLLW: 12,921 SF (80%), +5FT to -10FT MLLW: 545 SF (65%)  
**CUT:** ABOVE HTL: 0 CY / BELOW HTL: 650 CY  
**FILL:** ABOVE HTL: 653 SF / BELOW HTL: 1,891 SF  
**CUT & FILL:** ABOVE HTL: 38 CY / BELOW HTL: 105 CY  
330 LF { ABOVE HTL: 2,281 SF / BELOW HTL: 1,176 SF  
**FILL:** ABOVE HTL: 125 CY / BELOW HTL: 67 CY  
290 LF { ABOVE HTL: 4,565 SF / BELOW HTL: 0 SF  
**FILL:** ABOVE HTL: 300 CY / BELOW HTL: 0 CY  
663 LF { ABOVE HTL: 1,318 SF / BELOW HTL: 0 SF  
**FILL:** ABOVE HTL: 50 CY / BELOW HTL: 0 CY  
144 LF { ABOVE HTL: 3,784 SF / BELOW HTL: 0 SF  
**CUT & FILL:** ABOVE HTL: 140 CY / BELOW HTL: 0 CY  
ABOVE HTL: 446 SF / BELOW HTL: 294 SF  
**CUT & FILL:** ABOVE HTL: 17 CY / BELOW HTL: 11 CY  
ABOVE HTL: 5,880 SF / BELOW HTL: 0 SF  
**FILL:** ABOVE HTL: 327 CY / BELOW HTL: 0 CY

## LOCATION MAP:



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)

## LEGEND

## LEGEND

LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.19 FT  
Elev. MHHW: 7.94 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025

Sheet: 16 OF: 74

**PROJECT PARCEL OWNERSHIP:**

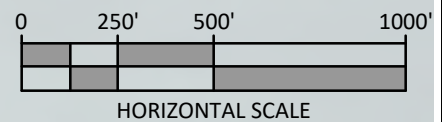
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3801361814030000, 3801361804350000,  
3801361904510000, 3801362404550000,  
3801361954660000  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169

**ADJACENT PARCEL OWNERSHIP:**

PARCEL #: 3801253200240000, 3801253200240000  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

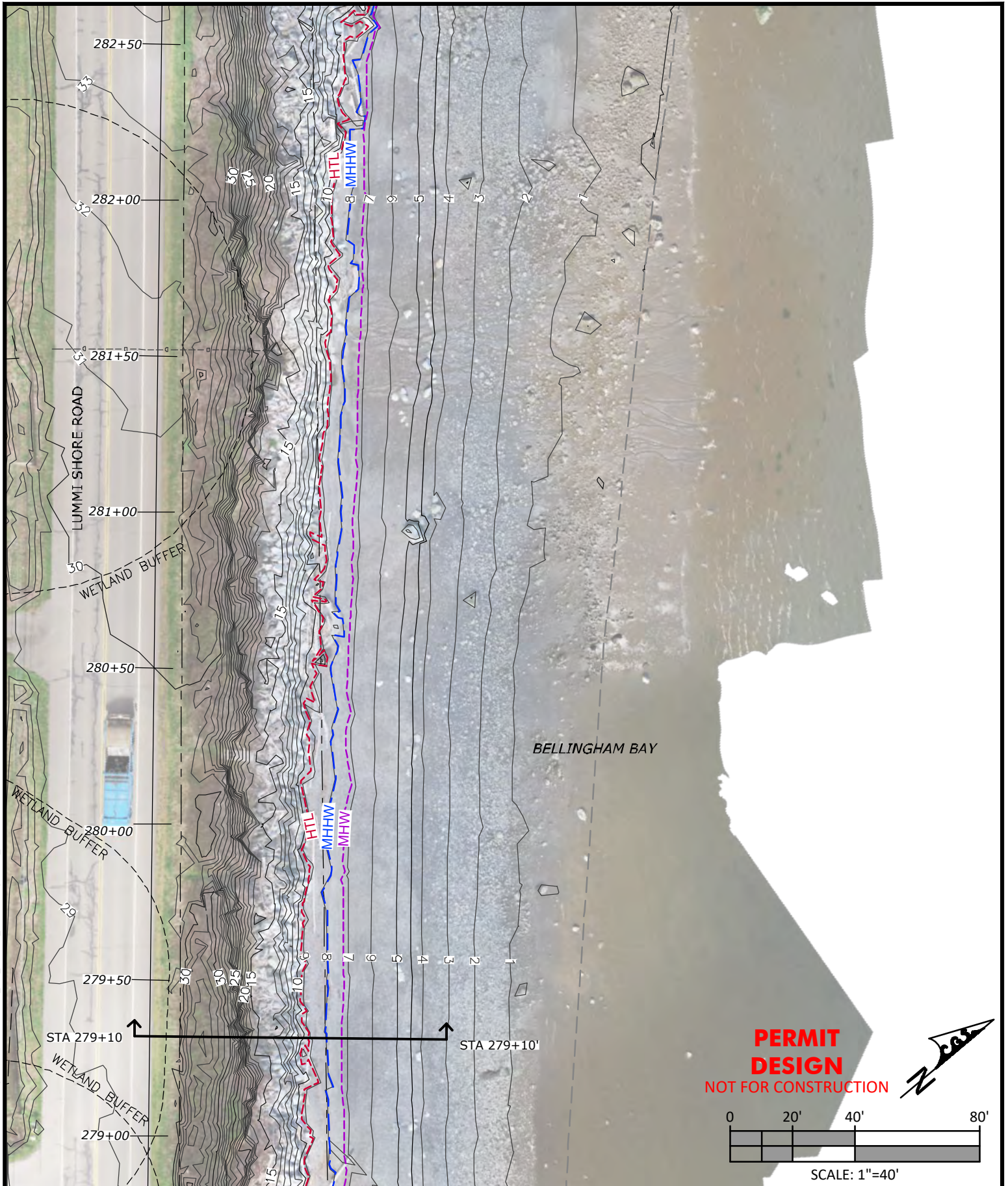


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**OVERVIEW**  
AERIAL PHOTO - PROPERTY MAP - KEY MAP - MOUNMENT MAP  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.19 FT  
Elev. MHHW: 7.94 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 17 OF: 74

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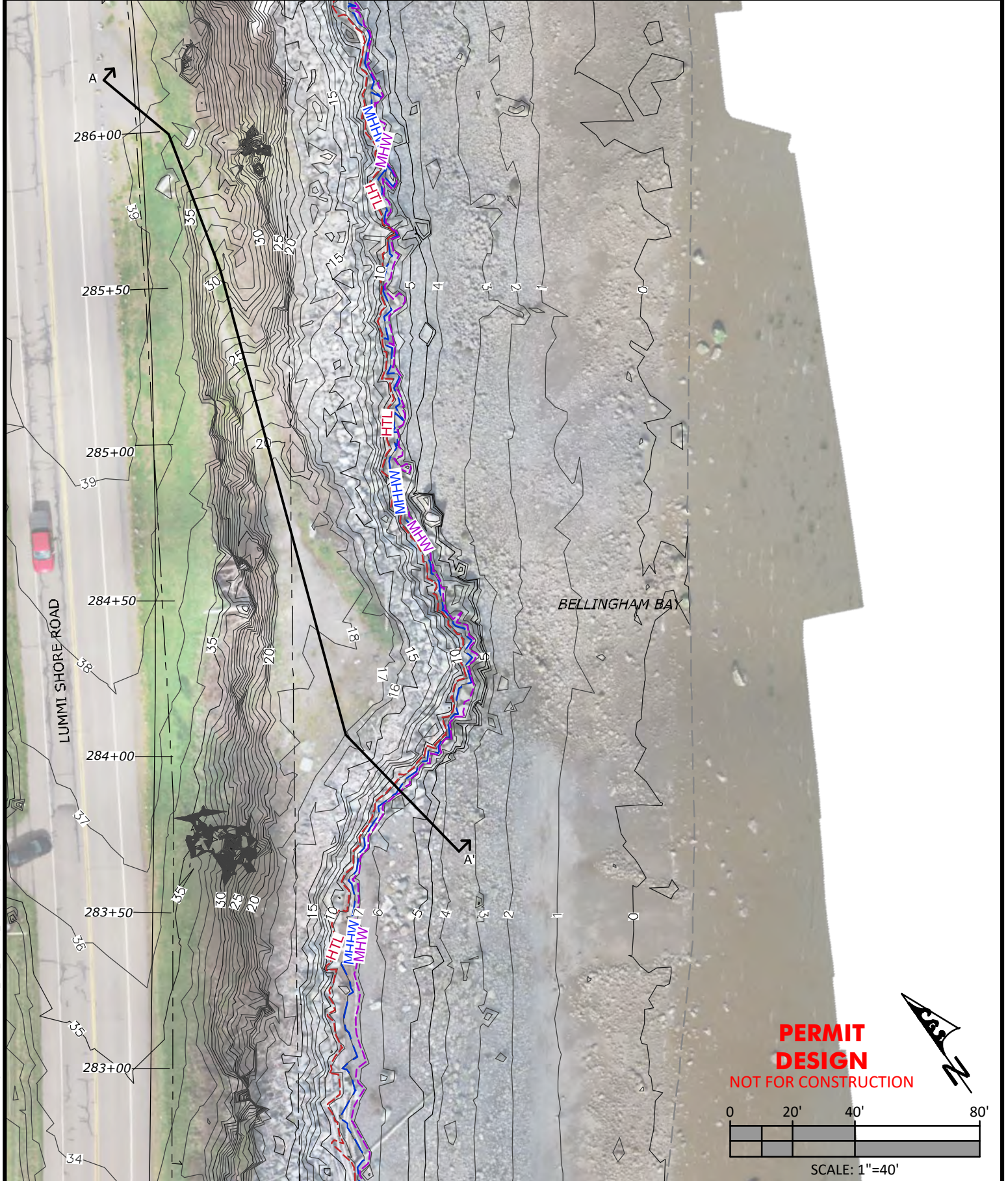
Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 279+00 - STA 282+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
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2665 KWINA RD, BELLINGHAM, WA 98226-9291  
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Date: 2/11/2025  
Sheet: 18 OF: 74

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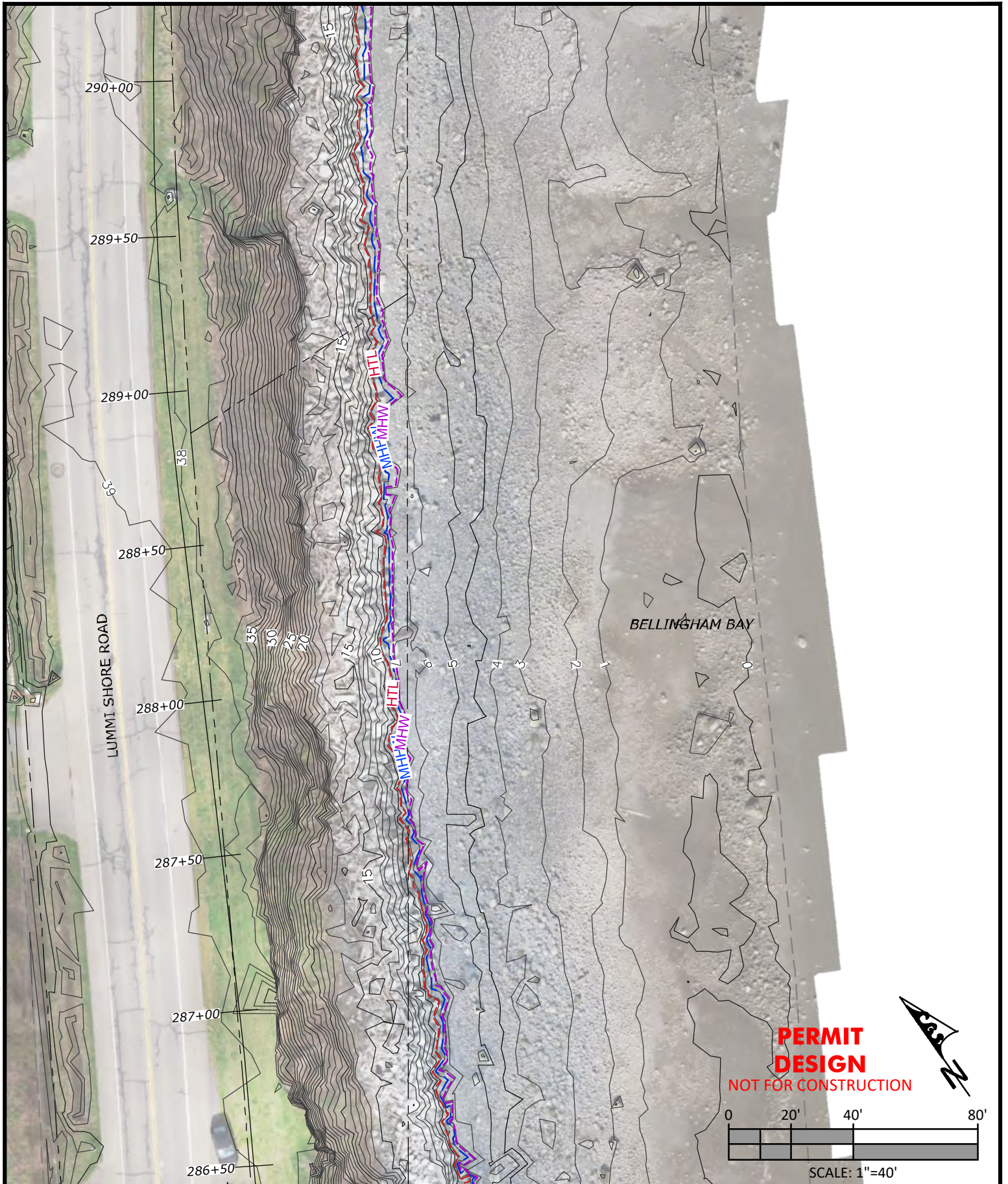


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 283+00 - STA 286+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
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Date: 2/11/2025  
Sheet: 19 OF: 74

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Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 286+50 - STA 290+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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Application By:  
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2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
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Location: 48.743788 LATITUDE  
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DATUM: NAVD88  
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Date: 2/11/2025

Sheet: 20 OF: 74

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**PERMIT DESIGN**  
**NOT FOR CONSTRUCTION**

0 20' 40' 80'

SCALE: 1"=40'



Natural Systems Design  
+ Coastal Geologic Services

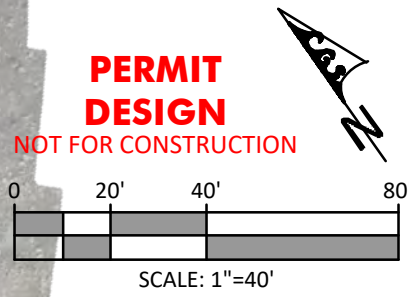
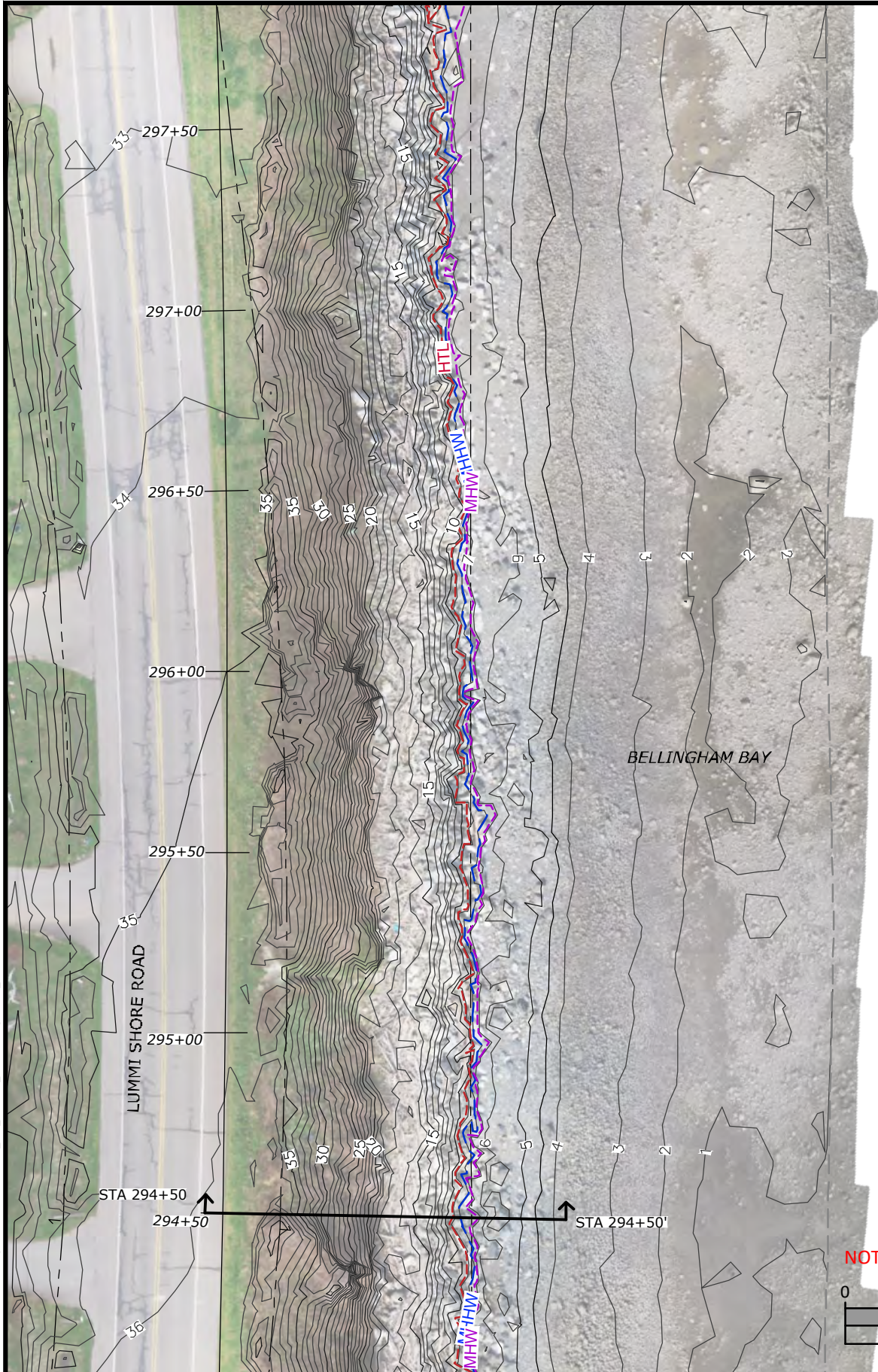
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REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
EXISTING CONDITIONS - SITE PLAN  
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Sheet: 21 OF: 74

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**PERMIT  
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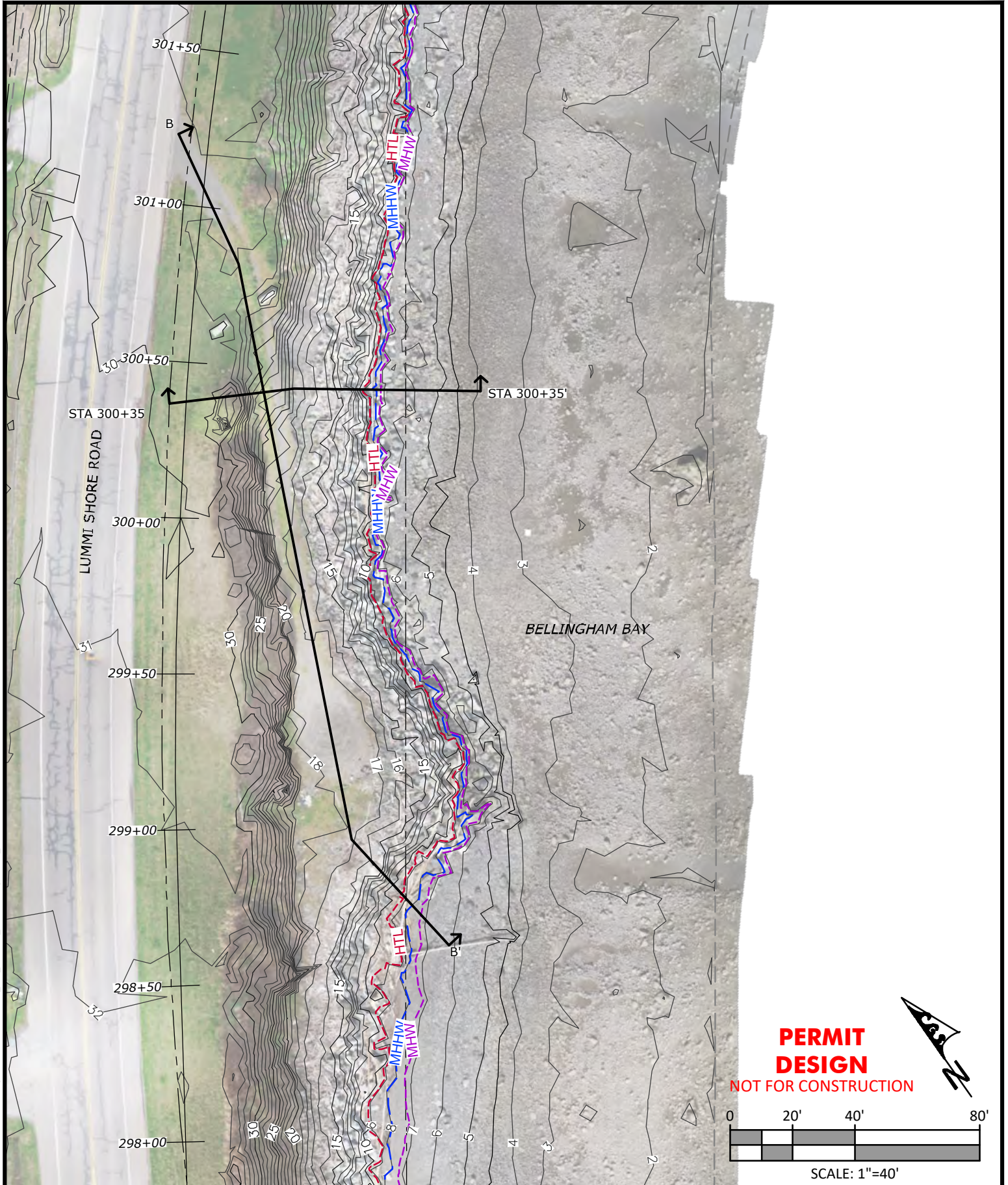
Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**EXISTING CONDITIONS - SITE PLAN**  
(STA 294+50 - STA 297+50)  
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Sheet: 22 OF: 74

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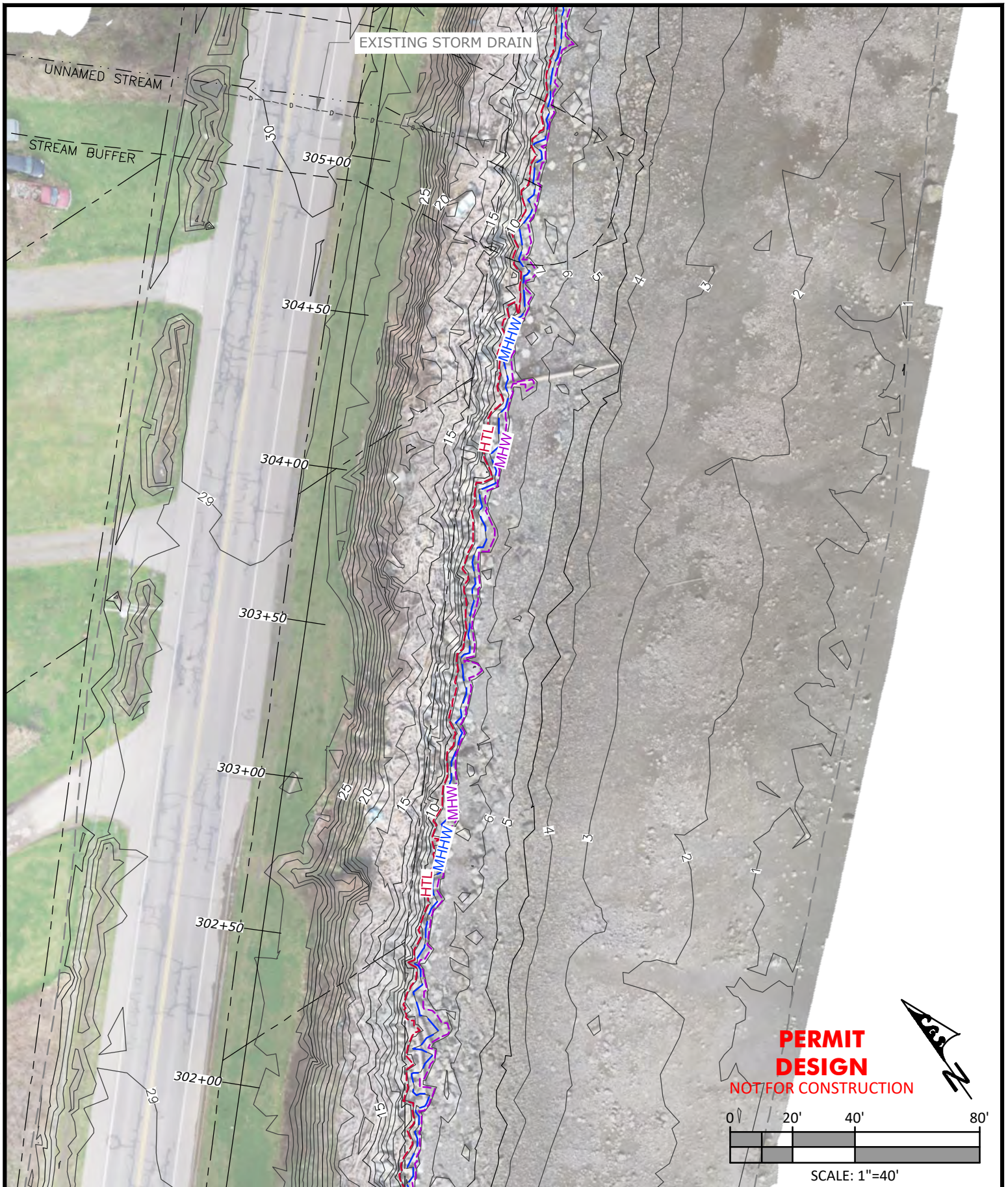
Natural Systems Design  
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LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 298+00 - STA 301+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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USACE Ref. #: NWS-2024-185  
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2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
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Sheet: 23 OF: 74

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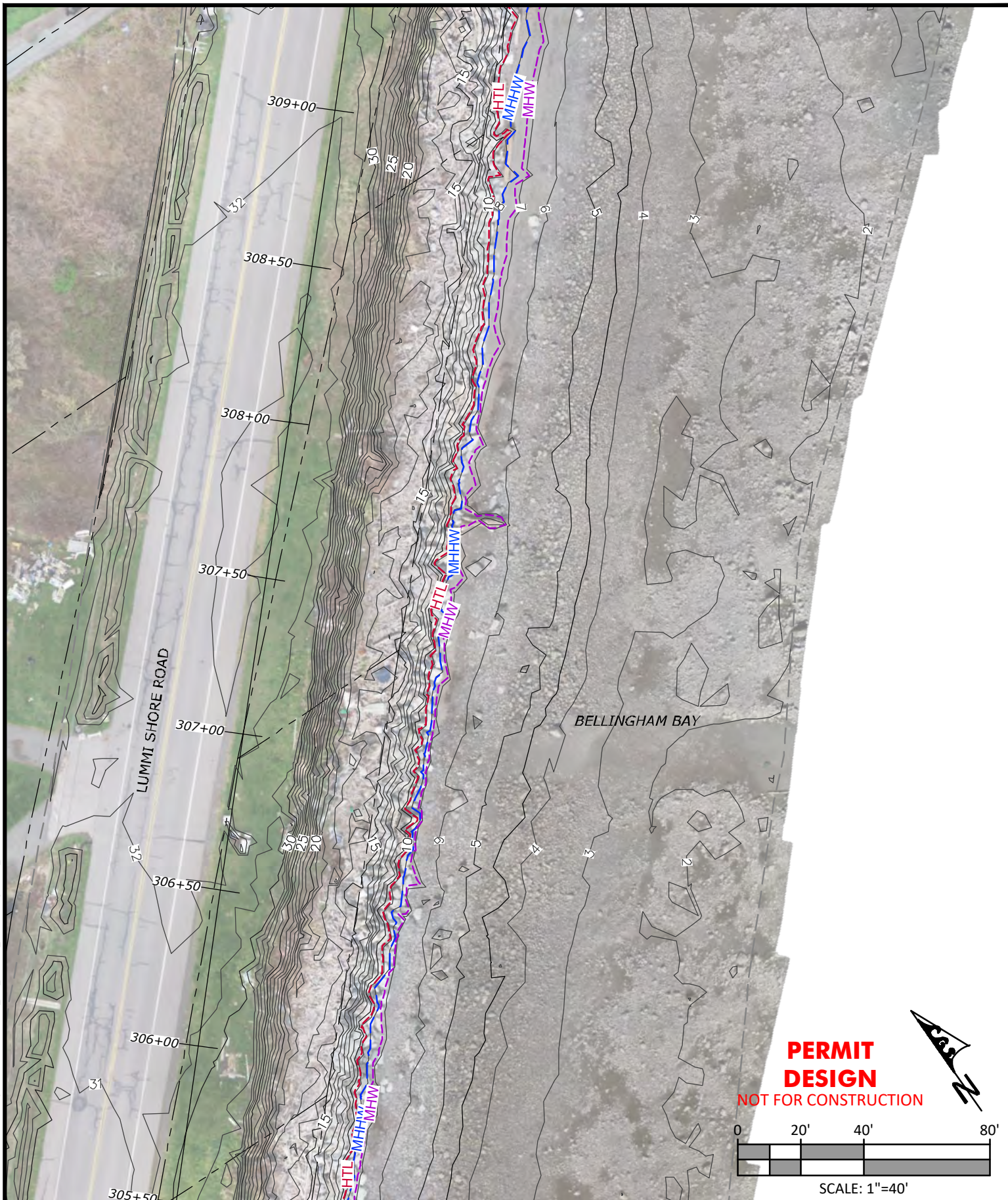


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**EXISTING CONDITIONS - SITE PLAN**  
(STA 302+00 - STA 305+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

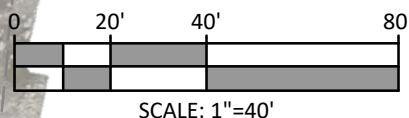
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Sheet: 24 OF: 74

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**PERMIT  
DESIGN**  
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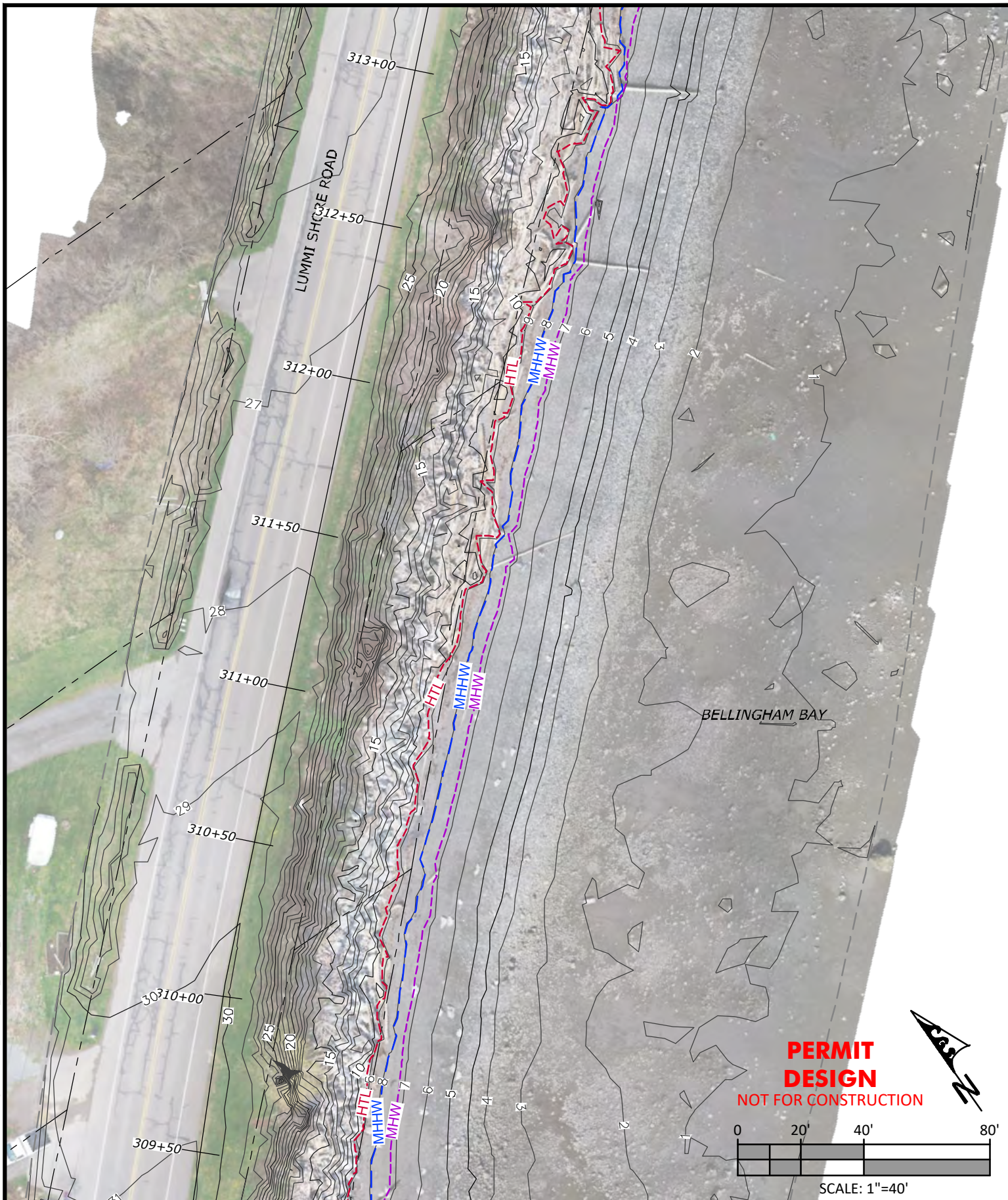


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**EXISTING CONDITIONS - SITE PLAN**  
(STA 305+50 - STA 309+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

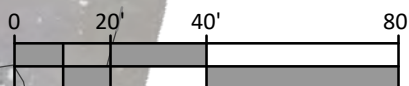
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Sheet: 25 OF: 74

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**PERMIT  
DESIGN**  
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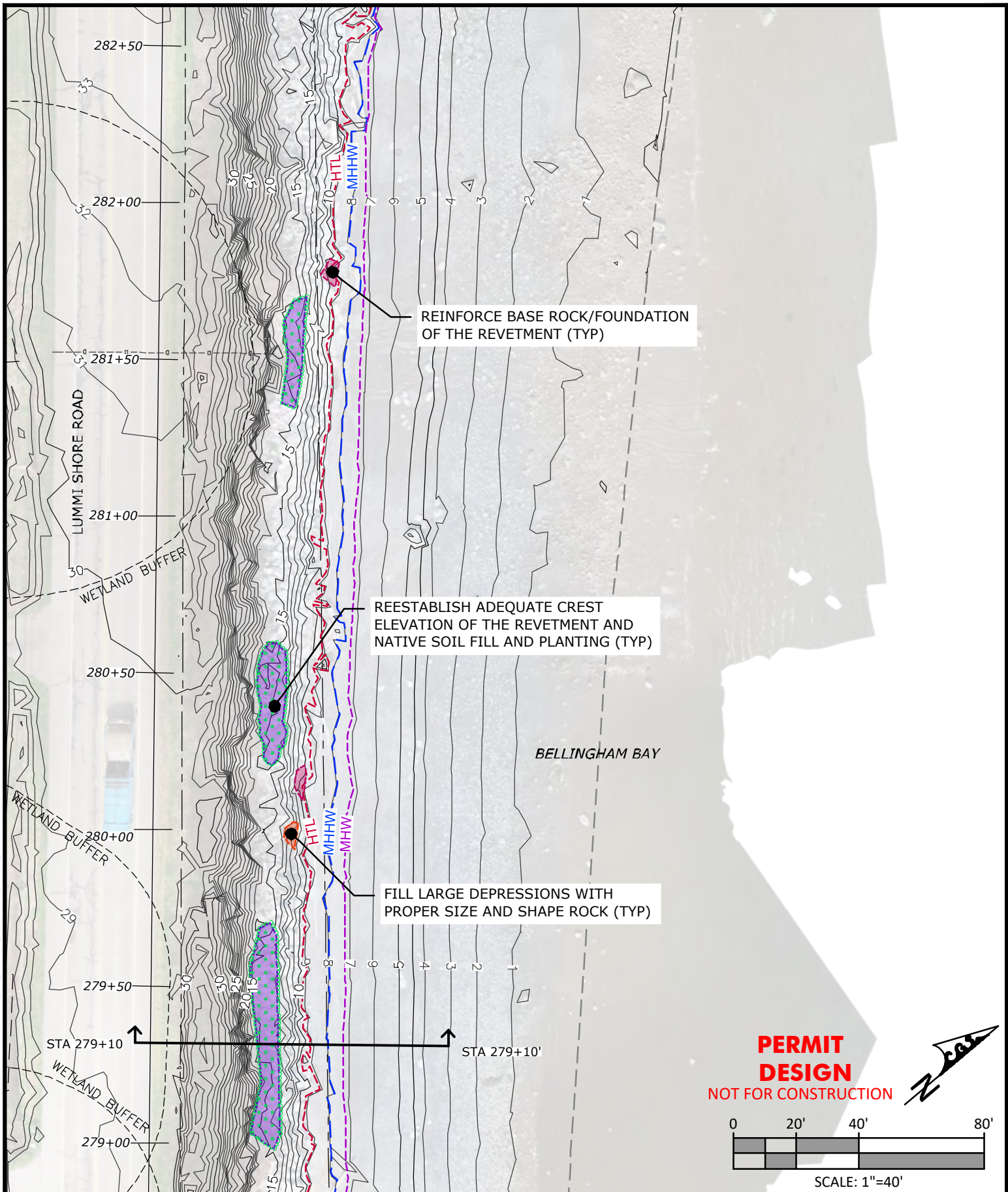
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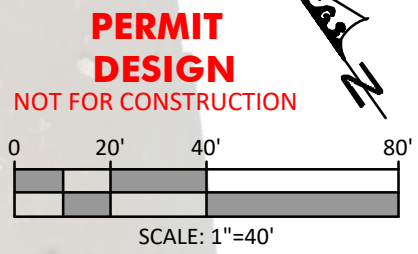
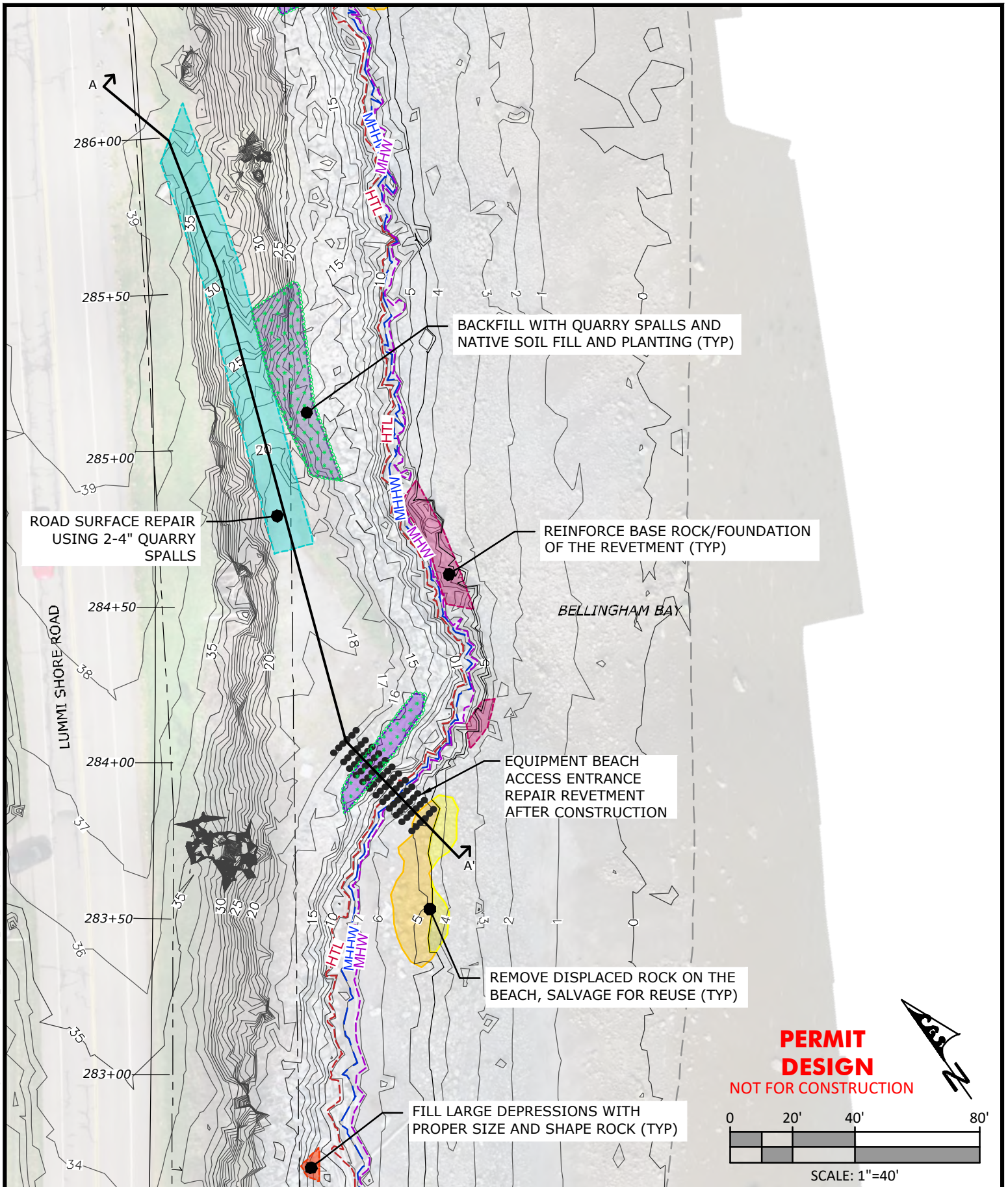
LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**EXISTING CONDITIONS - SITE PLAN**  
(STA 309+50 - STA 313+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
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2665 KWINA RD, BELLINGHAM, WA 98226-9291  
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Sheet: 26 OF: 74



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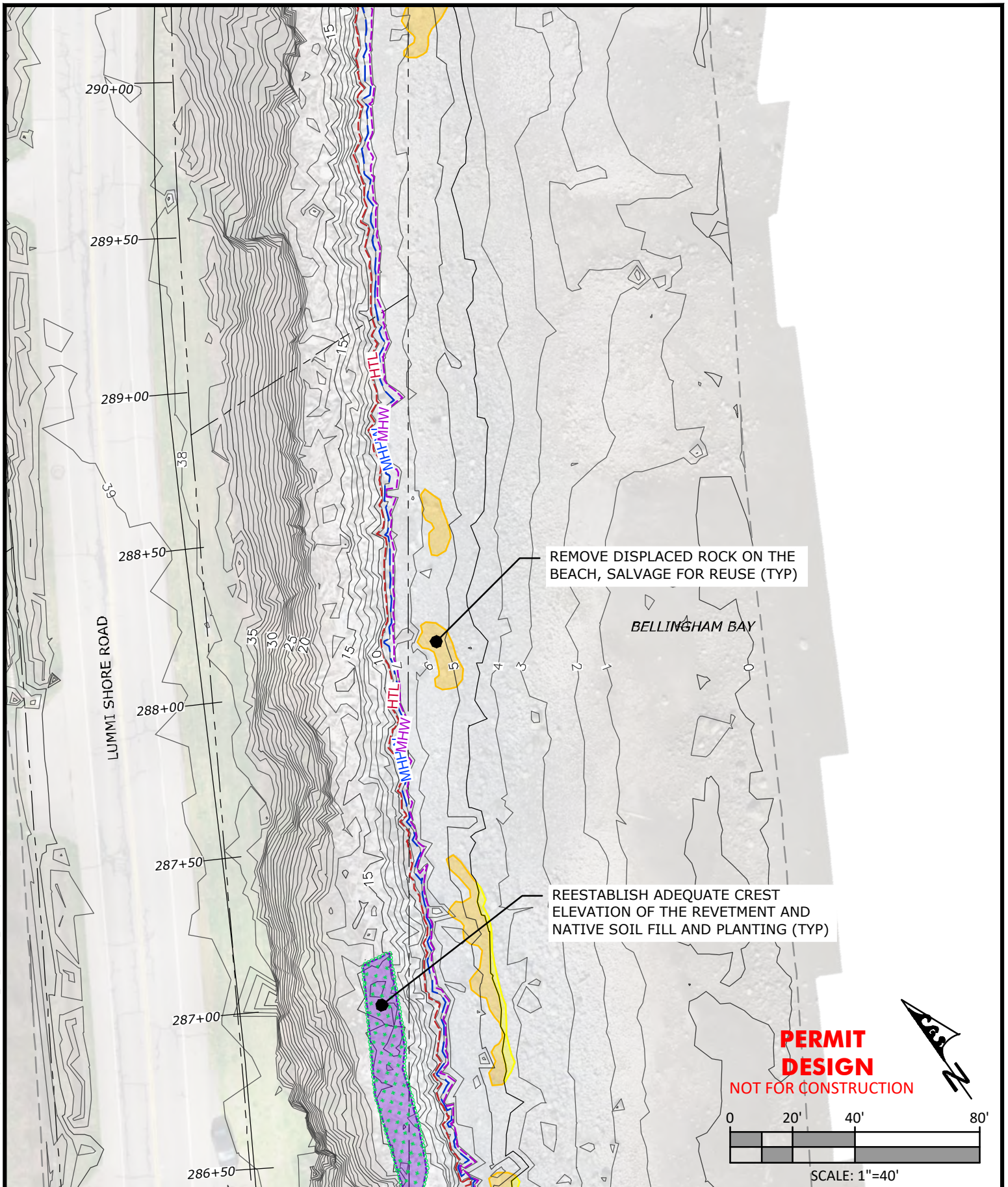


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
(STA 283+00 - STA 286+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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Sheet: 28 OF: 74

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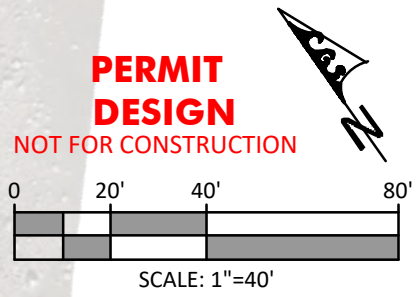
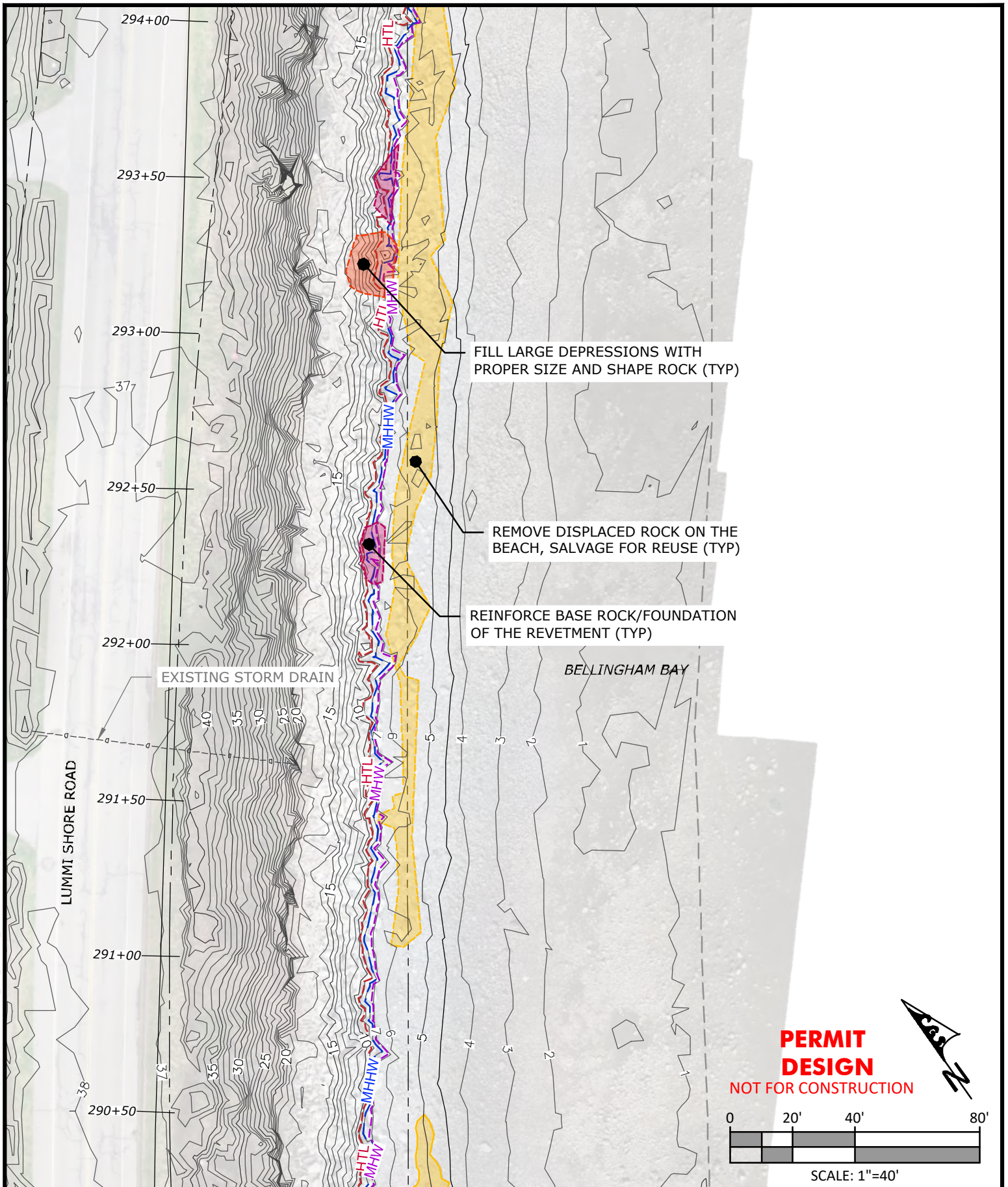


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
(STA 286+50 - STA 290+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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Sheet: 29 OF: 74

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**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

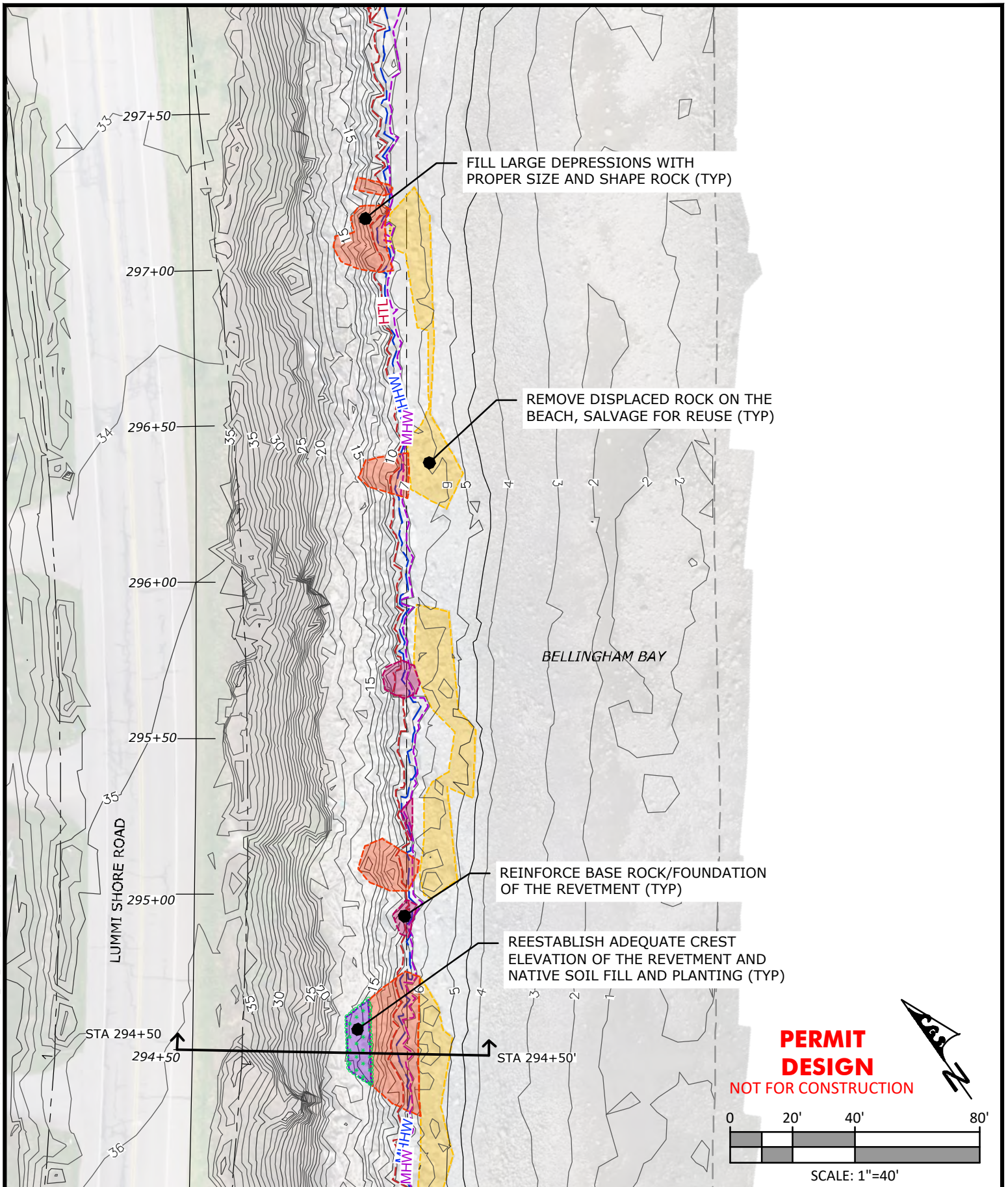


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
(STA 290+50 - STA 294+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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Sheet: 30 OF: 74

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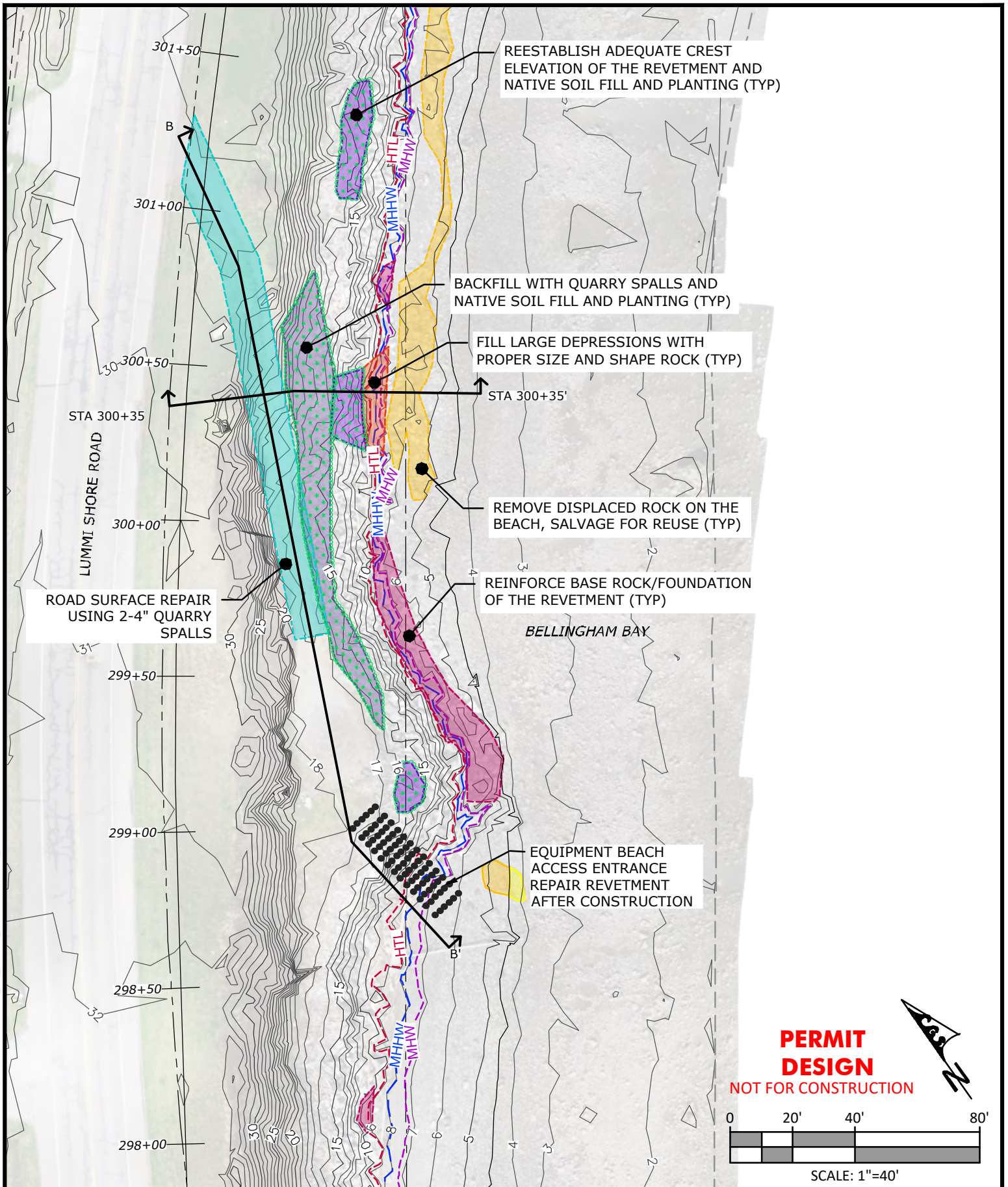


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
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LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

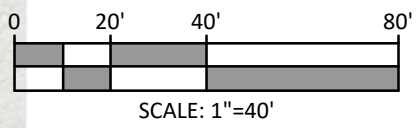
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Sheet: 31 OF: 74

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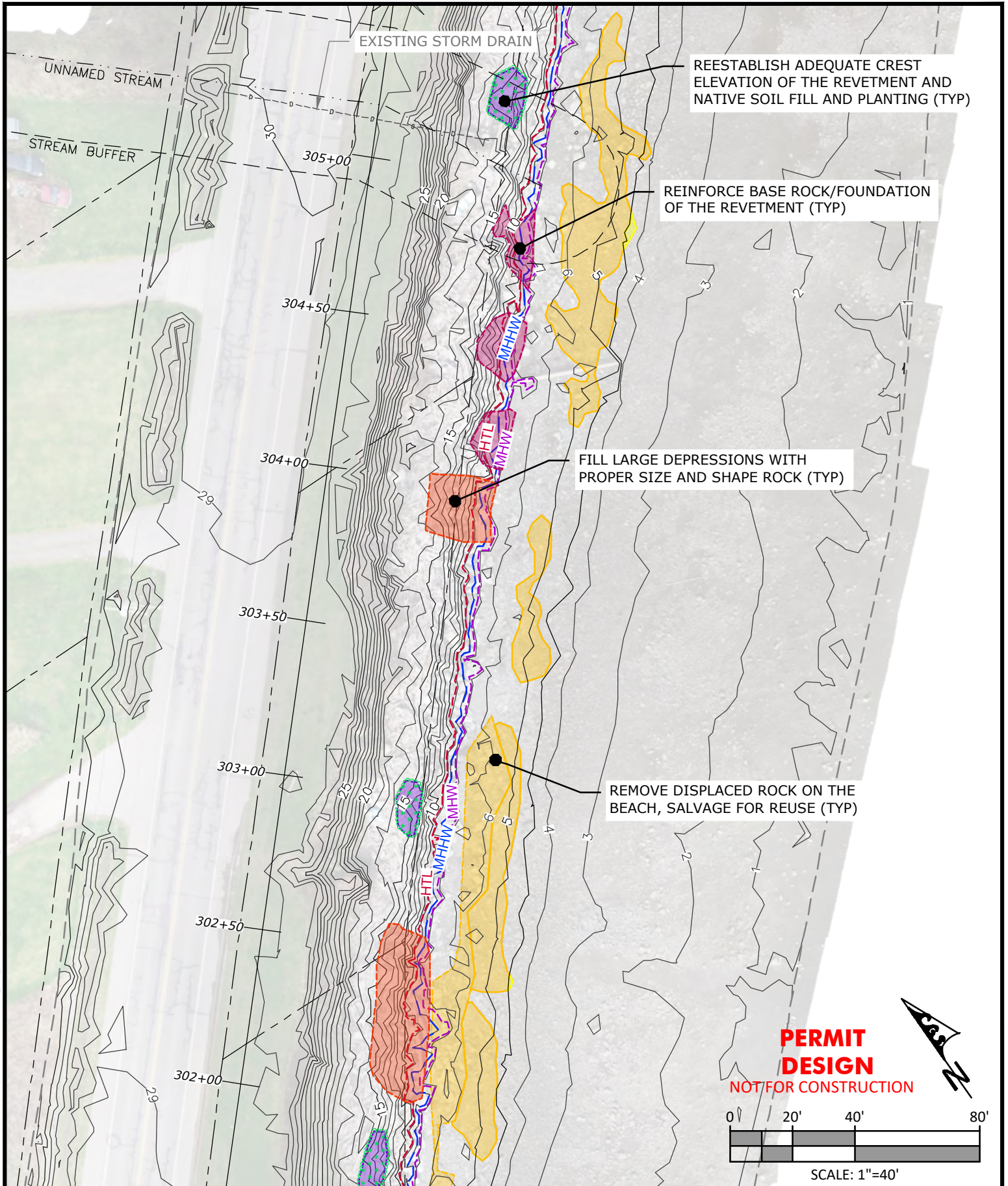
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LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
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Sheet: 32 OF: 74



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
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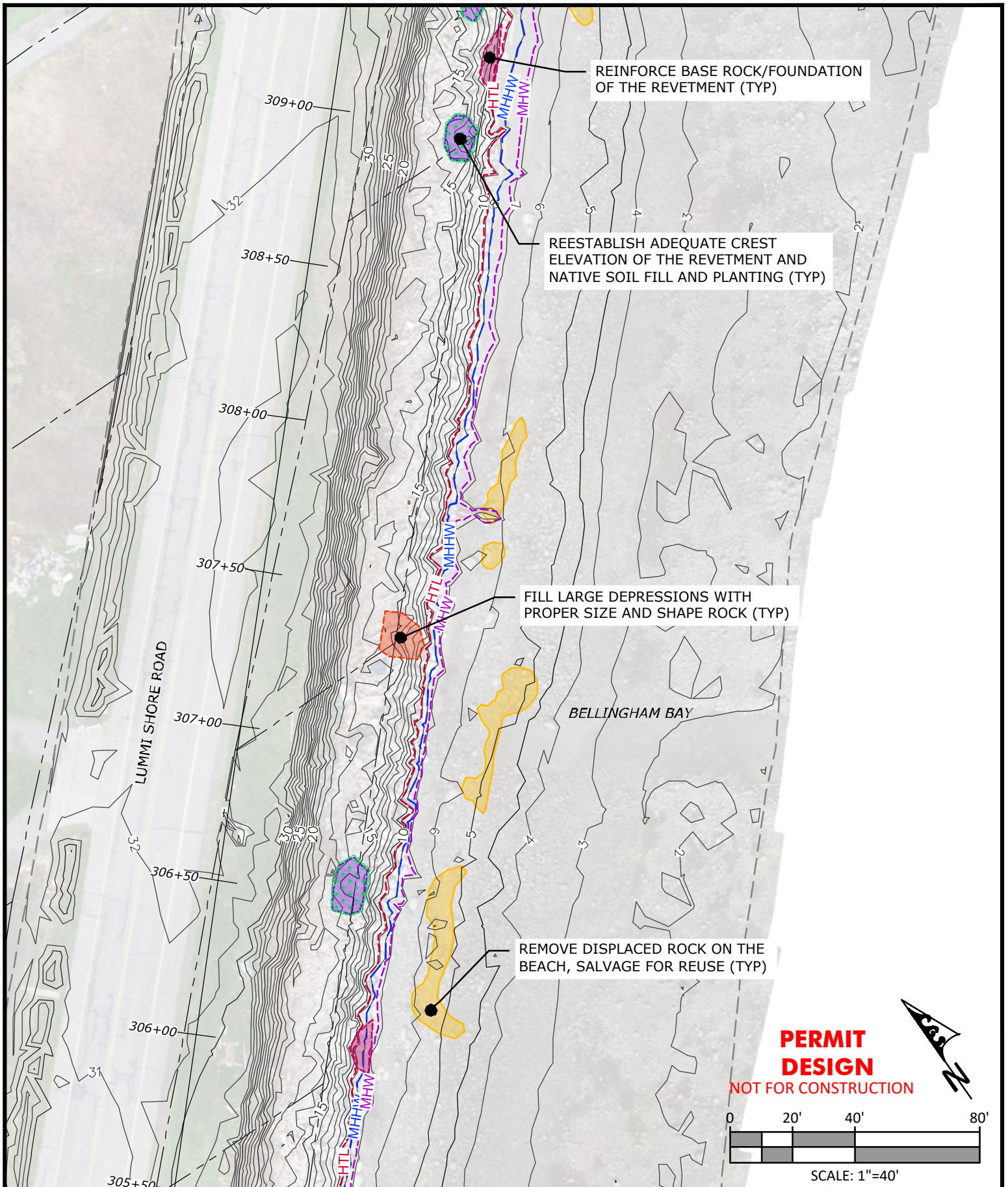
Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE

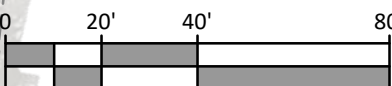


DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.19 FT  
Elev. MHHW: 7.94 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 33 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_280-313\_PermittDesign-2024\_CGS



**PERMIT DESIGN**  
NOT FOR CONSTRUCTION



SCALE: 1"=40'

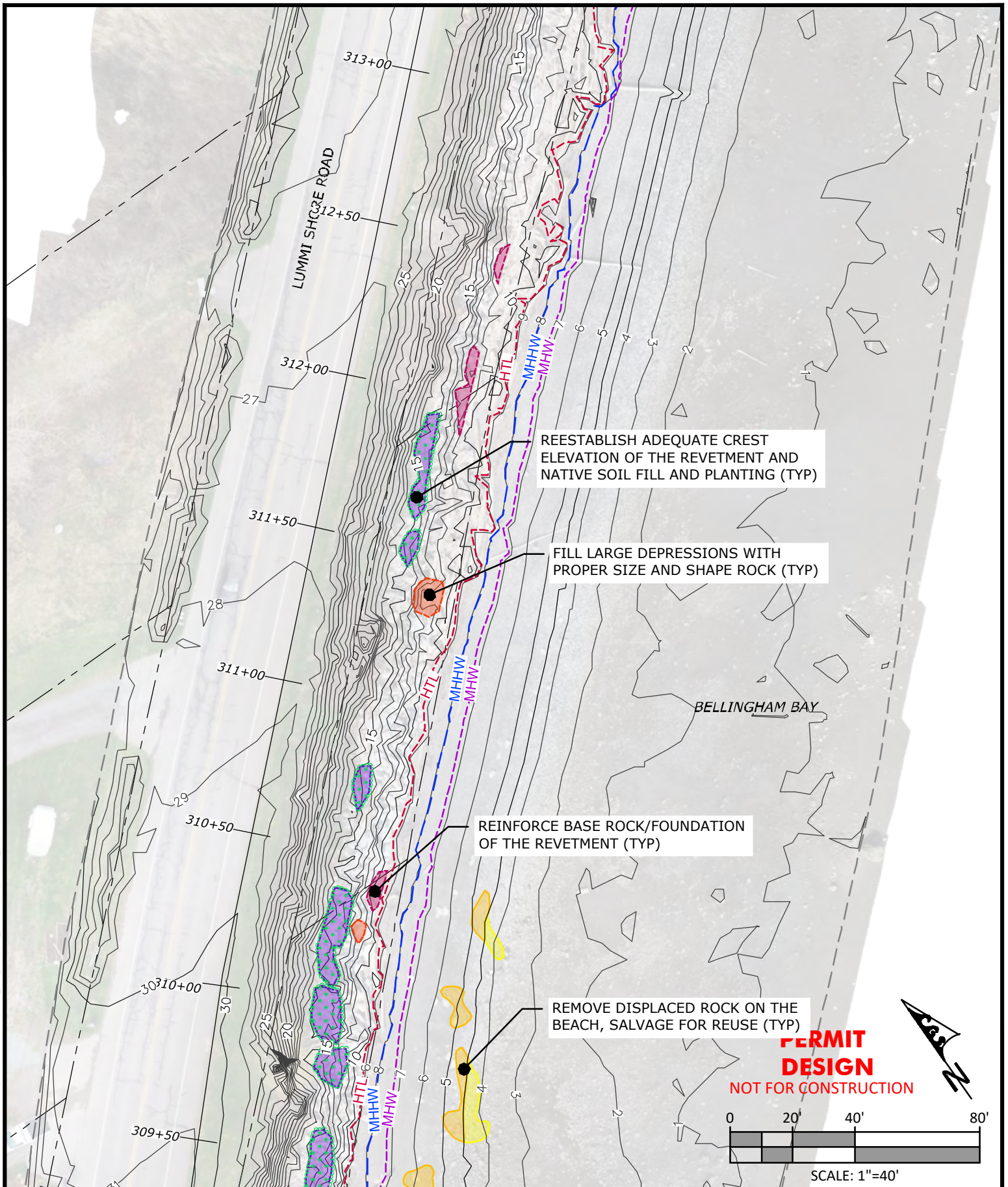


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
(STA 305+50 - STA 309+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE  
  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHHW: 7.19 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 34 OF: 74

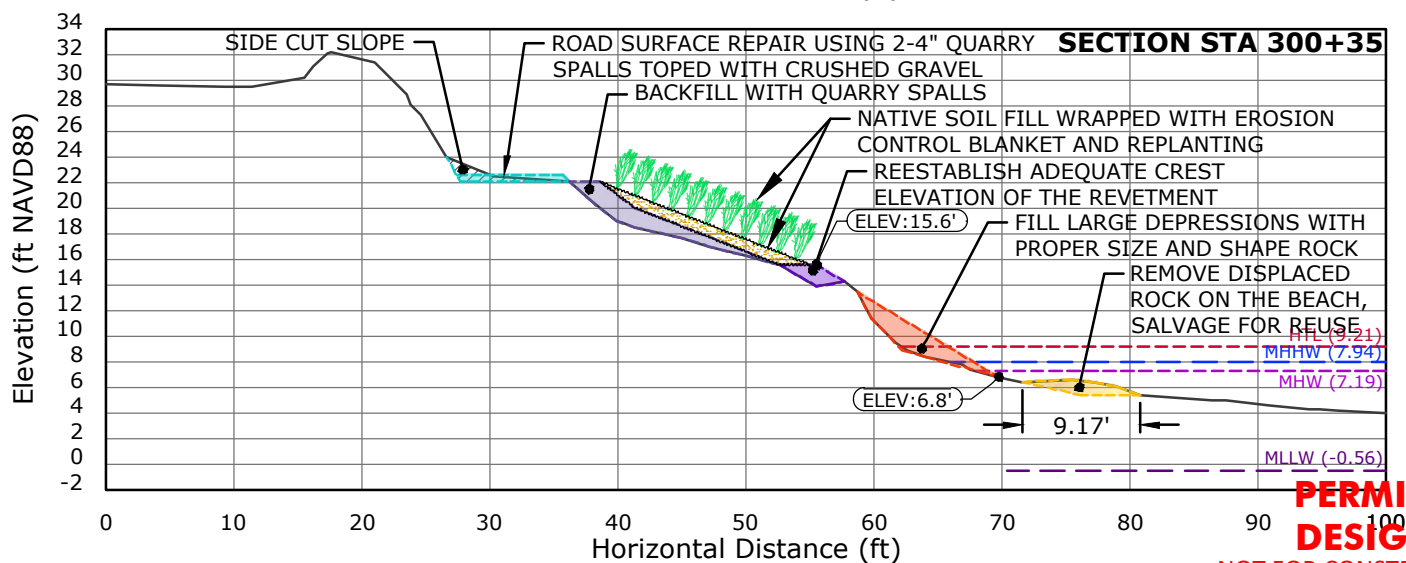
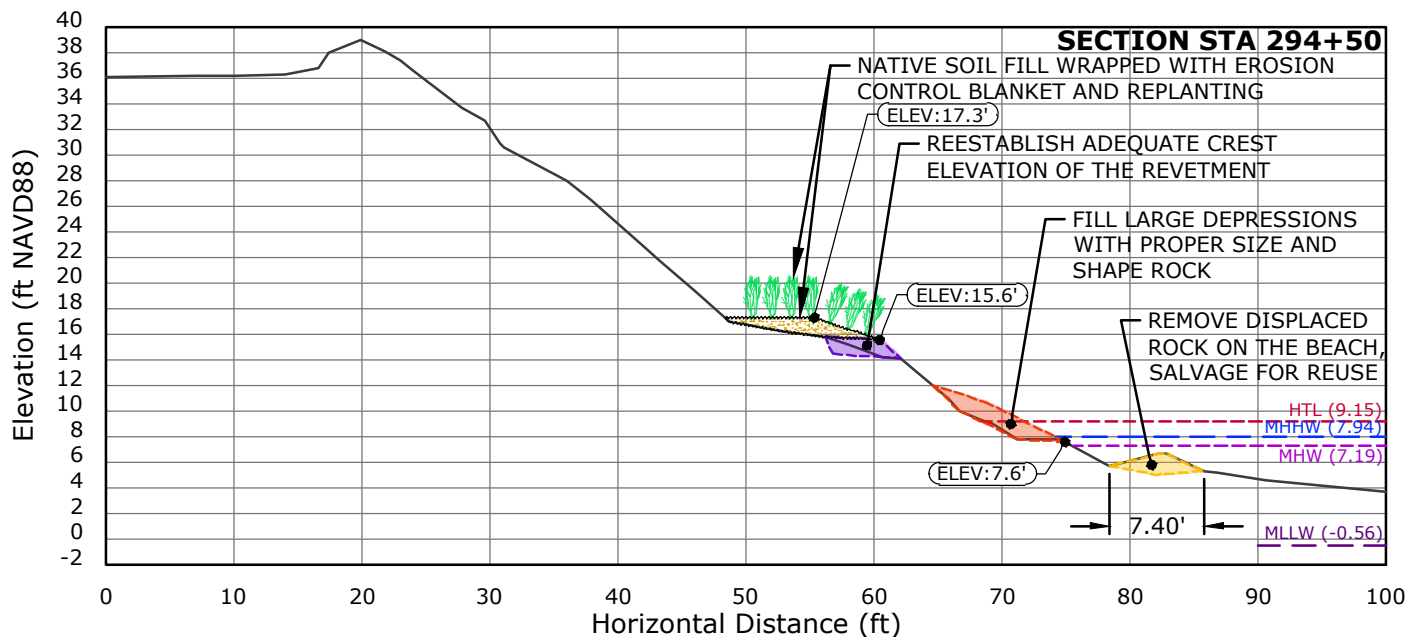
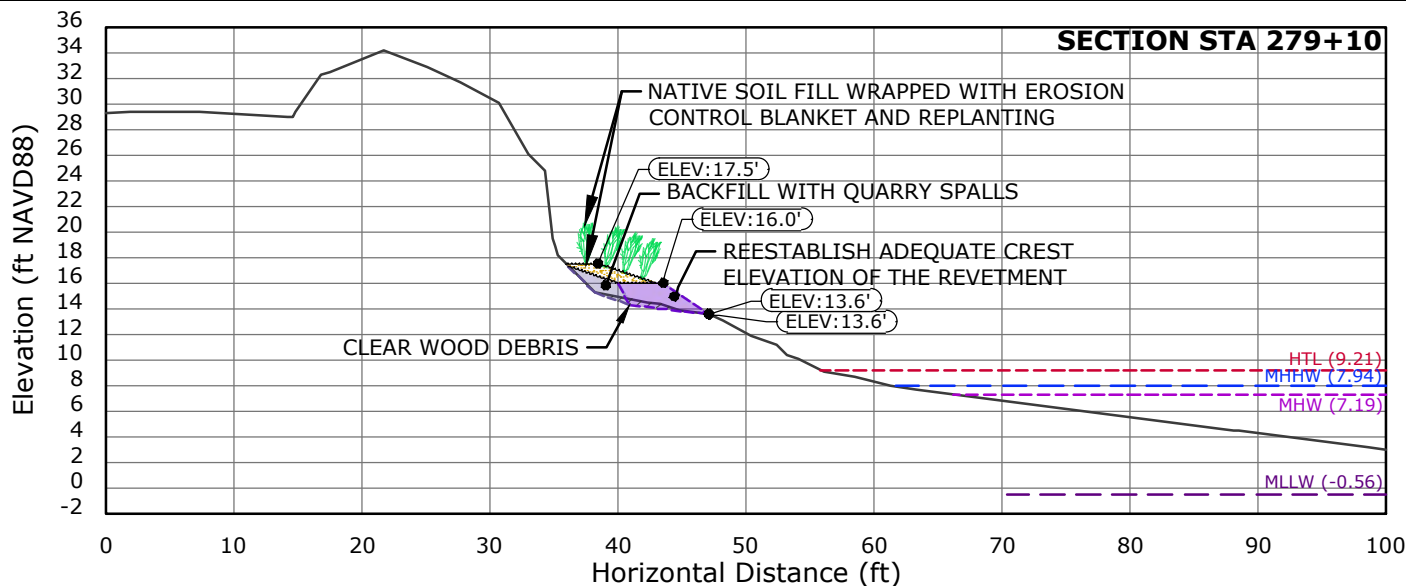
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LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**PROPOSED CONDITIONS - REPAIR SITE PLAN**  
(STA 309+50 - STA 313+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHHW: 7.19 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 35 OF: 74



**PERMIT DESIGN**  
NOT FOR CONSTRUCTION



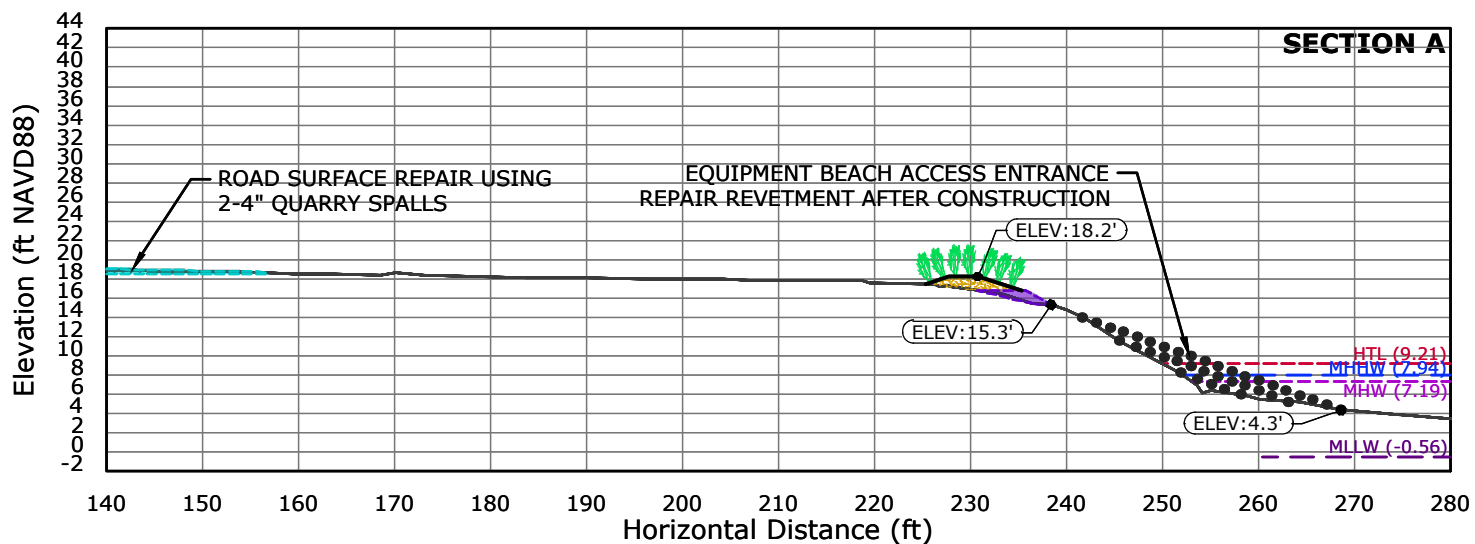
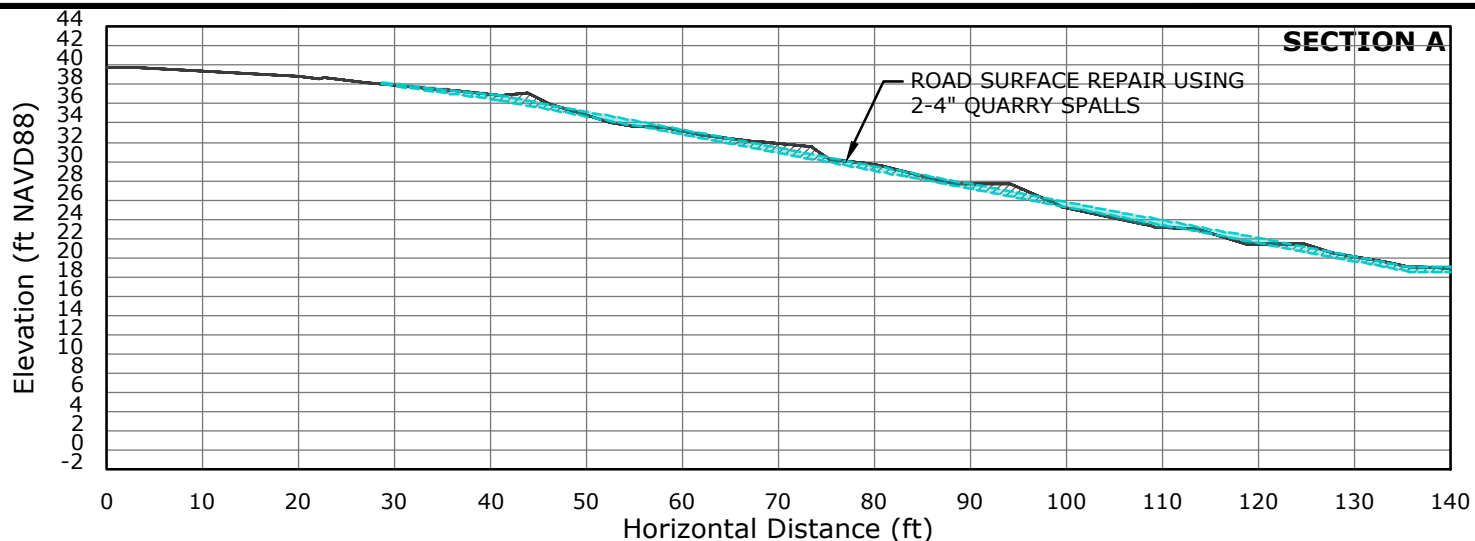
Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
REPAIR CROSS SECTIONS  
(STA 279+10 - STA 300+35)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.19 FT  
Elev. MTHW: 7.94 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 36 OF: 74





**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



Natural Systems Design  
+ Coastal Geologic Services

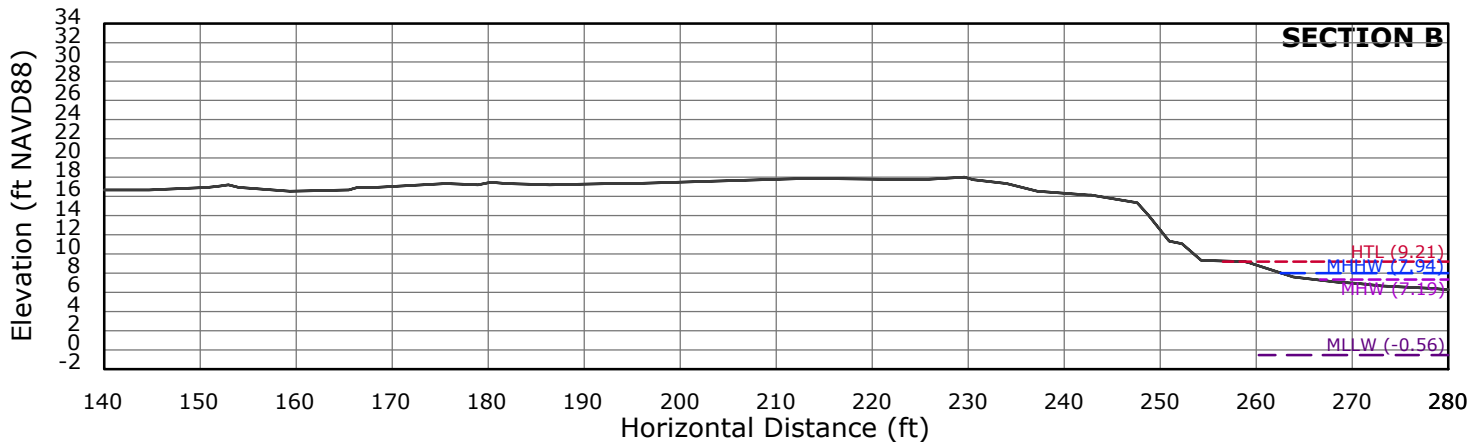
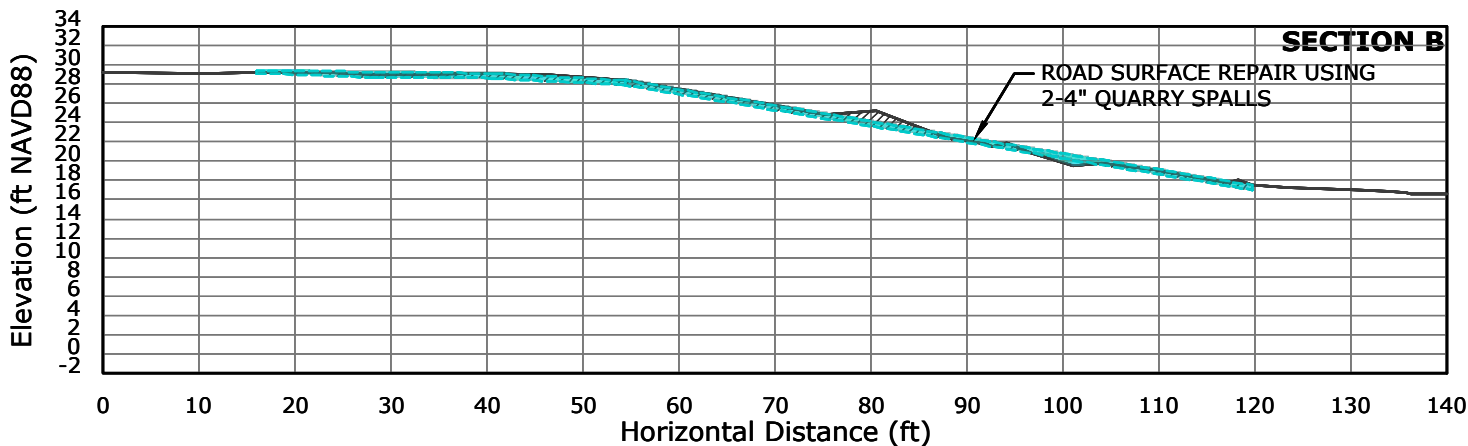
LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
REPAIR CROSS SECTIONS  
SECTION A  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.19 FT  
Elev. MHHW: 7.94 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 37 OF: 74



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SOUTH OF SMOKEHOUSE ROAD (STA 279+00-STA 313+00)  
**REPAIR CROSS SECTIONS**  
SECTION B  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 17  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 17

Location: 48.743788 LATITUDE  
-122.628601 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.19 FT  
Elev. MHHW: 7.94 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 38 OF: 74

# SMOKEHOUSE ACCESS (STA 314+00 - STA 317+00)

## LEGEND (APPLIES TO SHEETS 39-45):

| FEATURE                              | EXISTING | PROPOSED |
|--------------------------------------|----------|----------|
| CONTOURS, MAJOR                      |          |          |
| CONTOURS, MINOR                      |          |          |
| PROPERTY LINE/ROW                    |          |          |
| MEAN HIGH WATER                      |          |          |
| MEAN HIGHER HIGH WATER               |          |          |
| HIGH TIDE LINE                       |          |          |
| REMOVE DENSE ROCK COVER ON THE BEACH |          |          |
| REKETEMENT TOE REPAIR EXCAVATION     |          |          |
| REBUILD REVETMENT                    |          |          |
| REKETMENT TOP AND TOE REINFORCEMENT  |          |          |
| ROCK FILL                            |          |          |
| SPOT REPAIR (10% COVERAGE)           |          |          |
| REGRADE ACCESS ROAD                  |          |          |
| NATIVE SOIL FILL AND PLANTING        |          |          |
| TEMPORARY CONSTRUCTION ACCESS        |          |          |

## PERMIT LAND DISTURBANCE QUANTITIES

HAT to +5FT MLLW: 1,818 SF (85%), +5FT to -10FT MLLW: 296 SF (70%)  
CUT: ABOVE HTL: 0 CY / BELOW HTL: 92 CY  
AREA: ABOVE HTL: 15 SF / BELOW HTL: 433 SF  
CUT: ABOVE HTL: 1 CY / BELOW HTL: 38 CY  
204 LF{ AREA: ABOVE HTL: 2,281 SF / BELOW HTL: 2,673 SF  
CUT: ABOVE HTL: 200 CY / BELOW HTL: 235 CY  
FILL: ABOVE HTL: 460 CY / BELOW HTL: 538 CY  
22 LF{ AREA: ABOVE HTL: 748 SF / BELOW HTL: 0 SF  
FILL: ABOVE HTL: 151 CY / BELOW HTL: 0 CY  
19 LF{ AREA: ABOVE HTL: 196 SF / BELOW HTL: 0 SF  
FILL: ABOVE HTL: 241 CY / BELOW HTL: 0 CY  
70 LF{ AREA: ABOVE HTL: 167 SF / BELOW HTL: 43 SF  
FILL: ABOVE HTL: 206 CY / BELOW HTL: 53 CY  
AREA: ABOVE HTL: 920 SF / BELOW HTL: 0 SF  
CUT & FILL: ABOVE HTL: 34 CY / BELOW HTL: 0 CY  
AREA: ABOVE HTL: 2,868 SF / BELOW HTL: 0 SF  
FILL: ABOVE HTL: 160 CY / BELOW HTL: 0 CY  
ABOVE HTL: 171 SF / BELOW HTL: 3 SF  
CUT & FILL: ABOVE HTL: 6 CY / BELOW HTL: 1 CY

## LOCATION MAP:



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REKETMENT REPAIR & INSTALLATION  
SMOKEHOUSE ACCESS (STA 314+00 - 317+00)

## LEGEND

## LEGEND

LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REKETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY / FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 40  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 40

Location: 48.7456 LATITUDE  
-122.6263 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.23 FT  
Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025

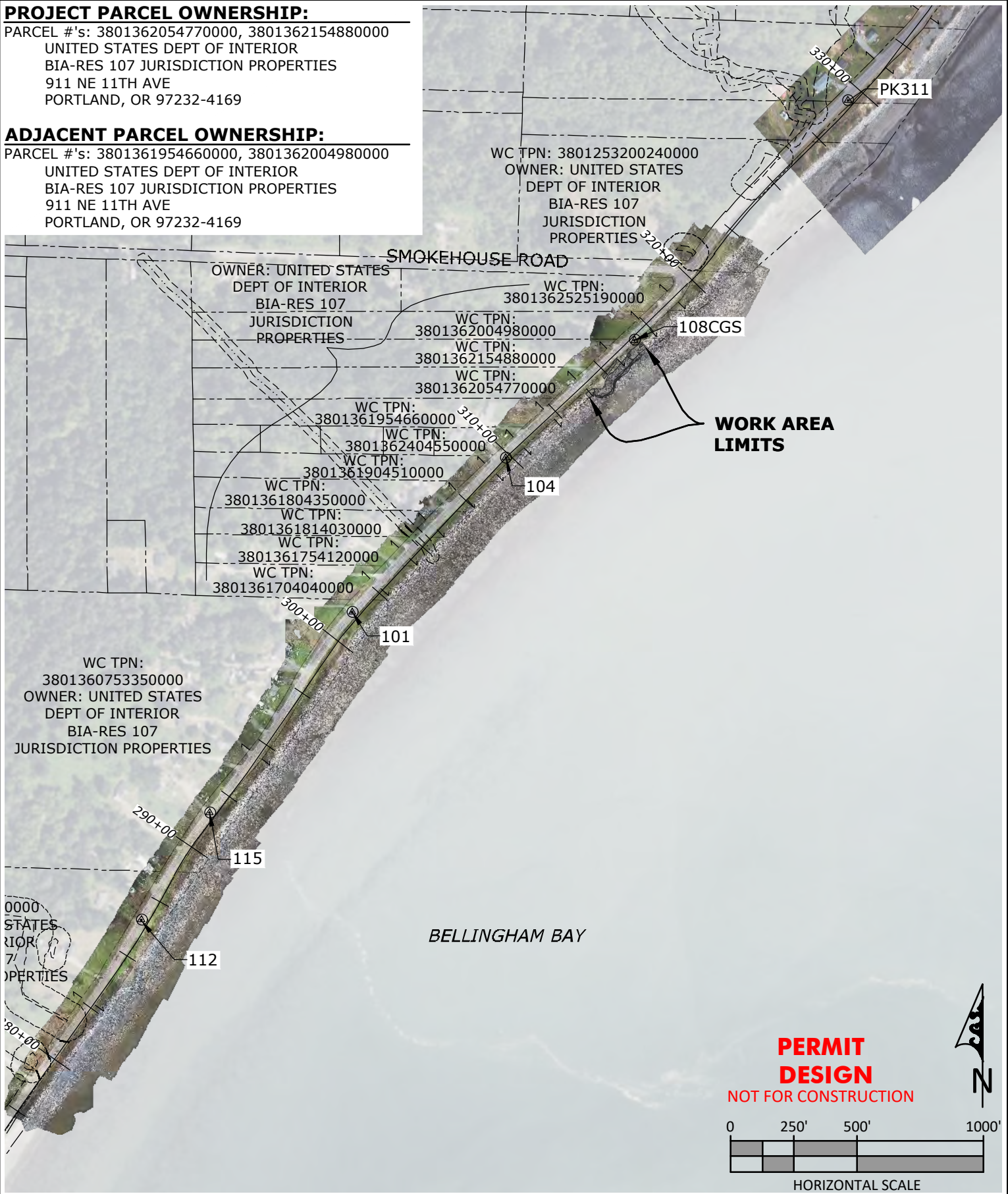
Sheet: 39 OF: 74

**PROJECT PARCEL OWNERSHIP:**

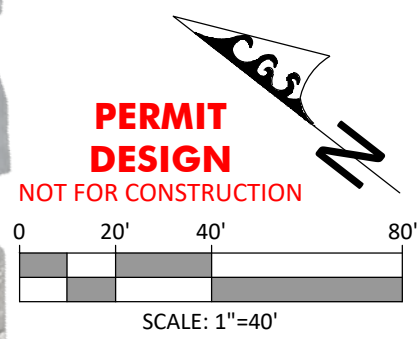
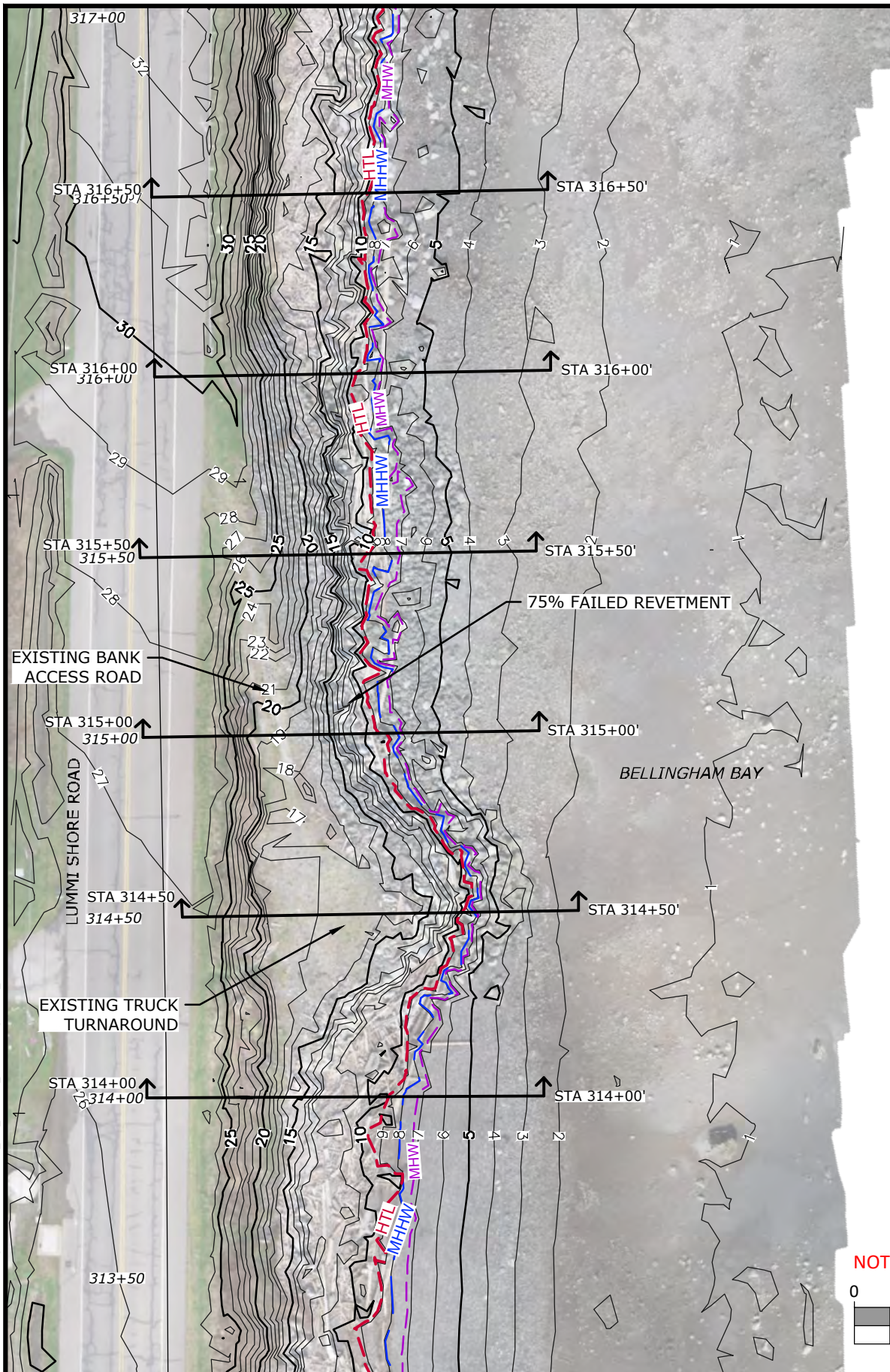
PARCEL #'s: 3801362054770000, 3801362154880000  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169

**ADJACENT PARCEL OWNERSHIP:**

PARCEL #'s: 3801361954660000, 3801362004980000  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169



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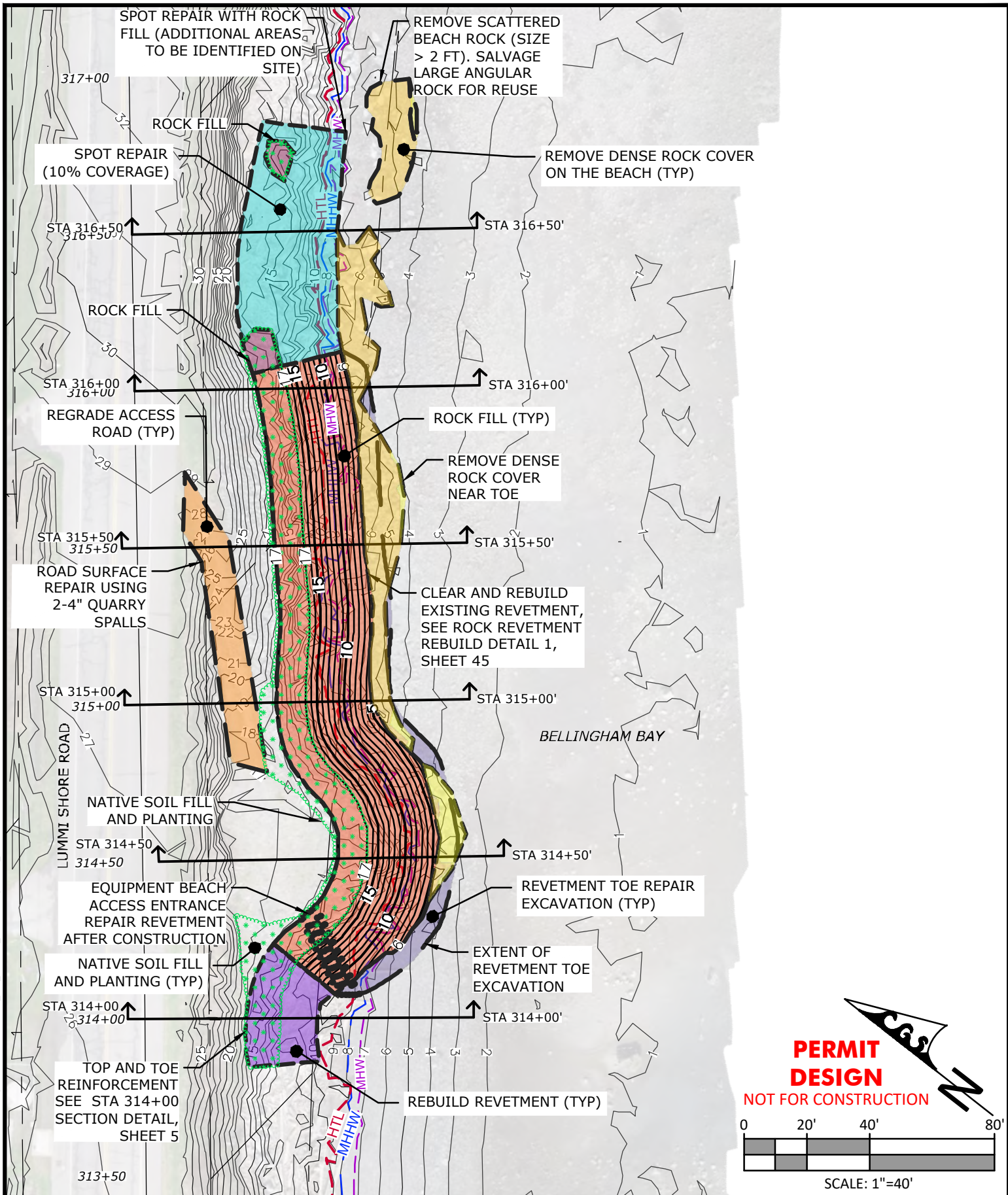


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
SMOKEHOUSE ACCESS (STA 314+00 - 317+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 314+00 - STA 317+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY / FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 40  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 40

Location: 48.7456 LATITUDE  
-122.6263 LONGITUDE  
  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHHW: 7.23 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 41 OF: 74

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Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SMOKEHOUSE ACCESS (STA 314+00 - 317+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 314+00 - STA 317+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

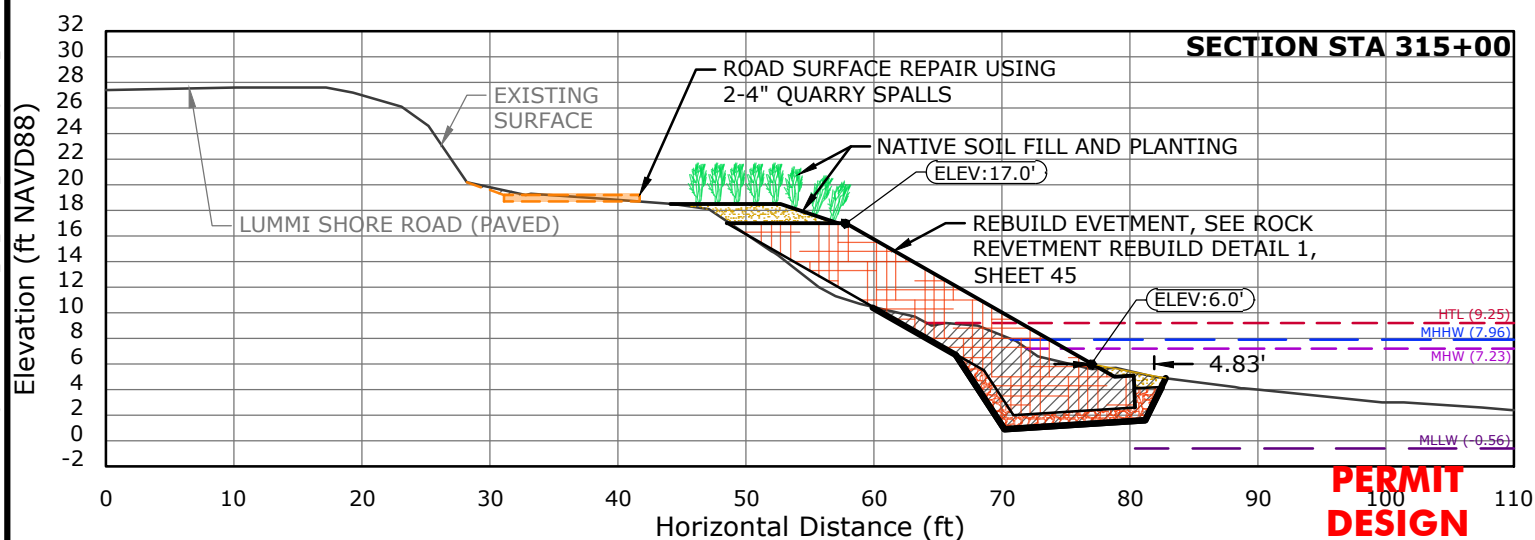
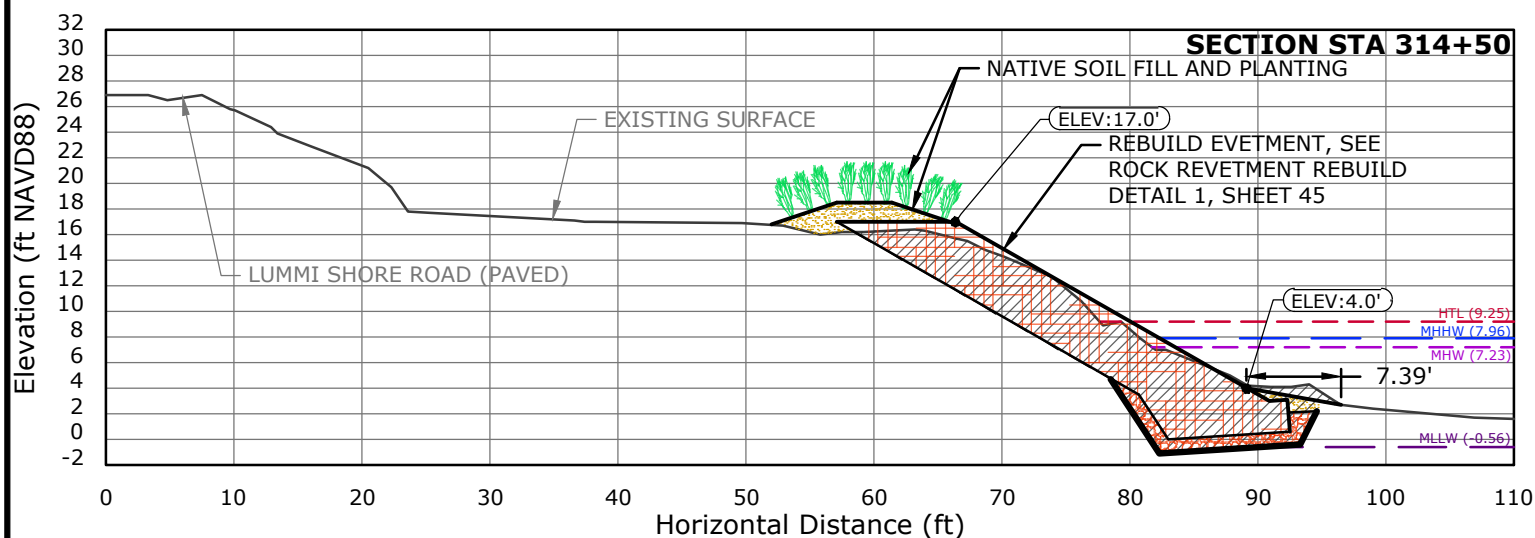
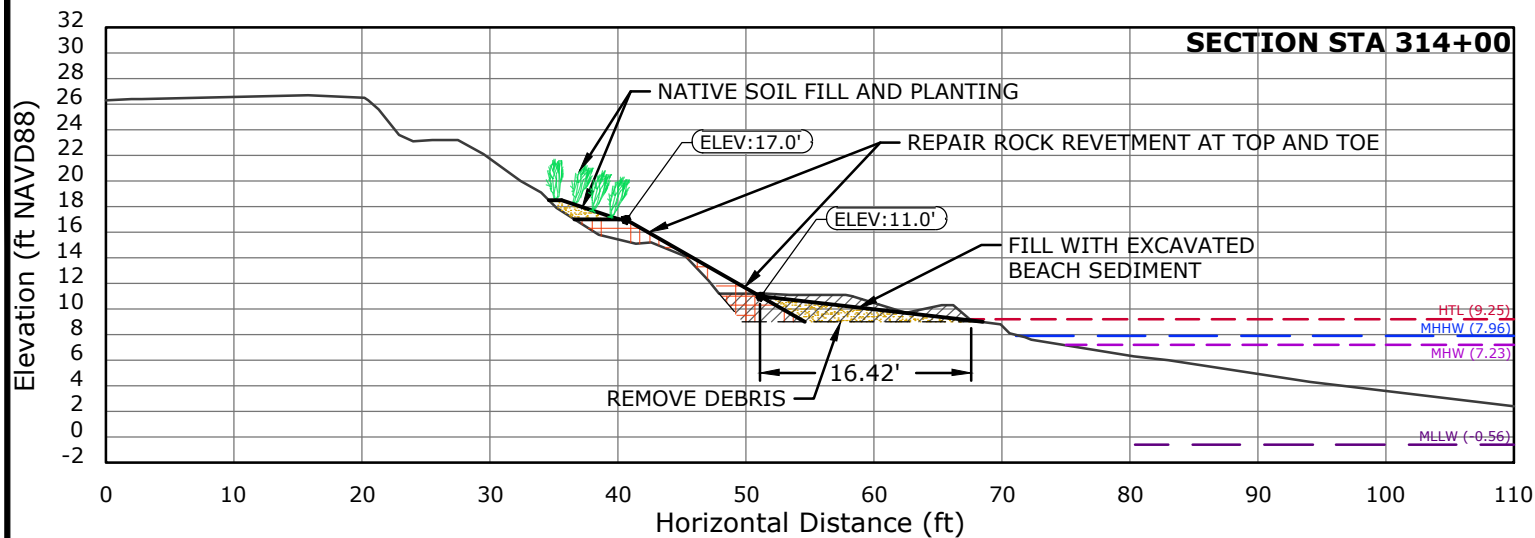
Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY / FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 40  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 40

Location: 48.7456 LATITUDE  
-122.6263 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHHW: 7.23 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025

Sheet: 42 OF: 74



PERMIT  
DESIGN  
NOT FOR CONSTRUCTION



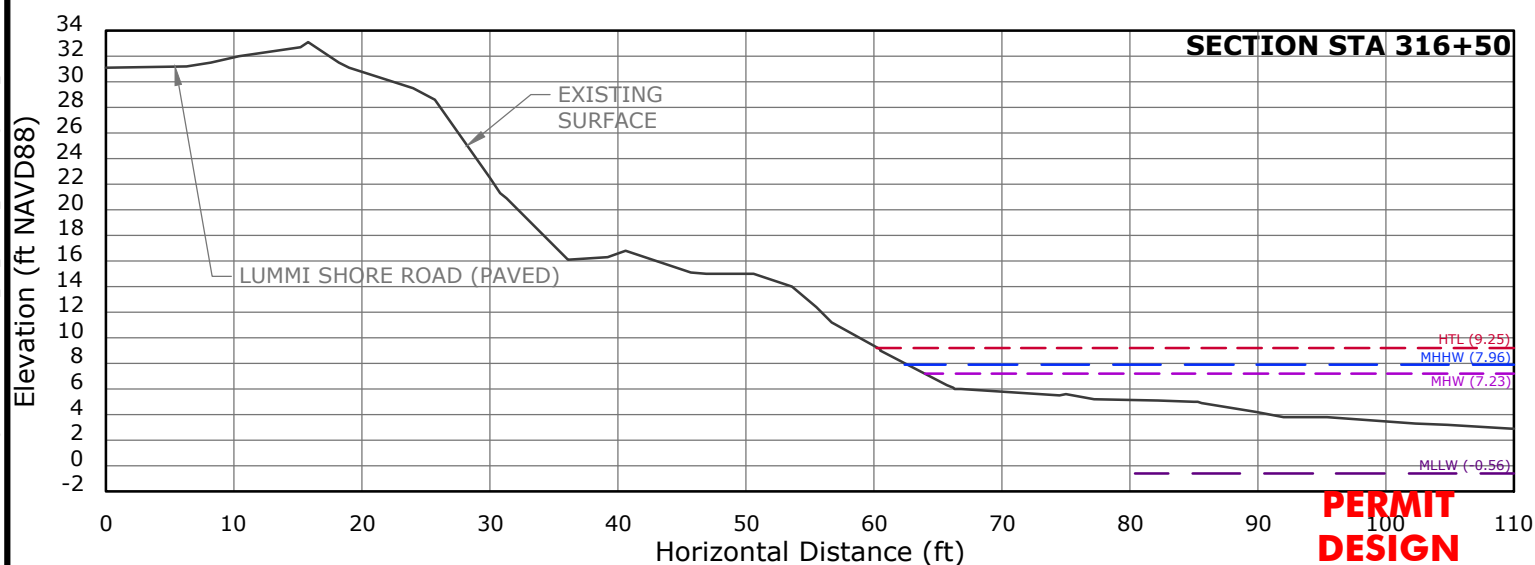
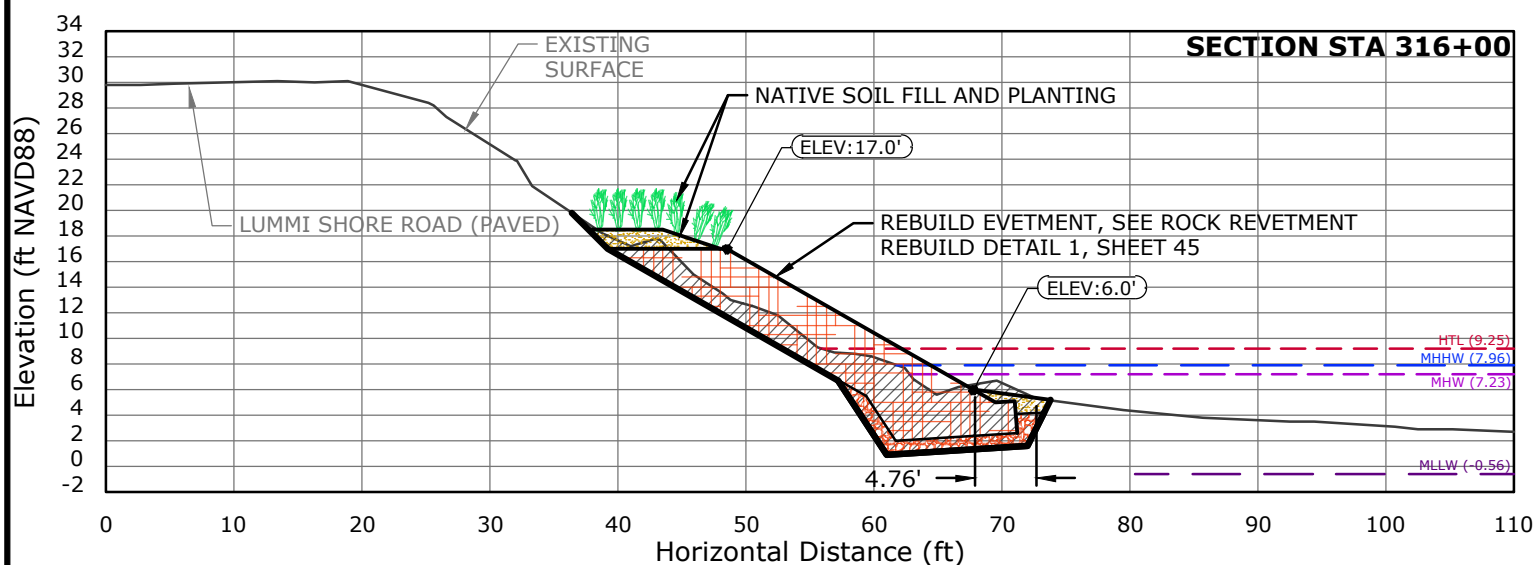
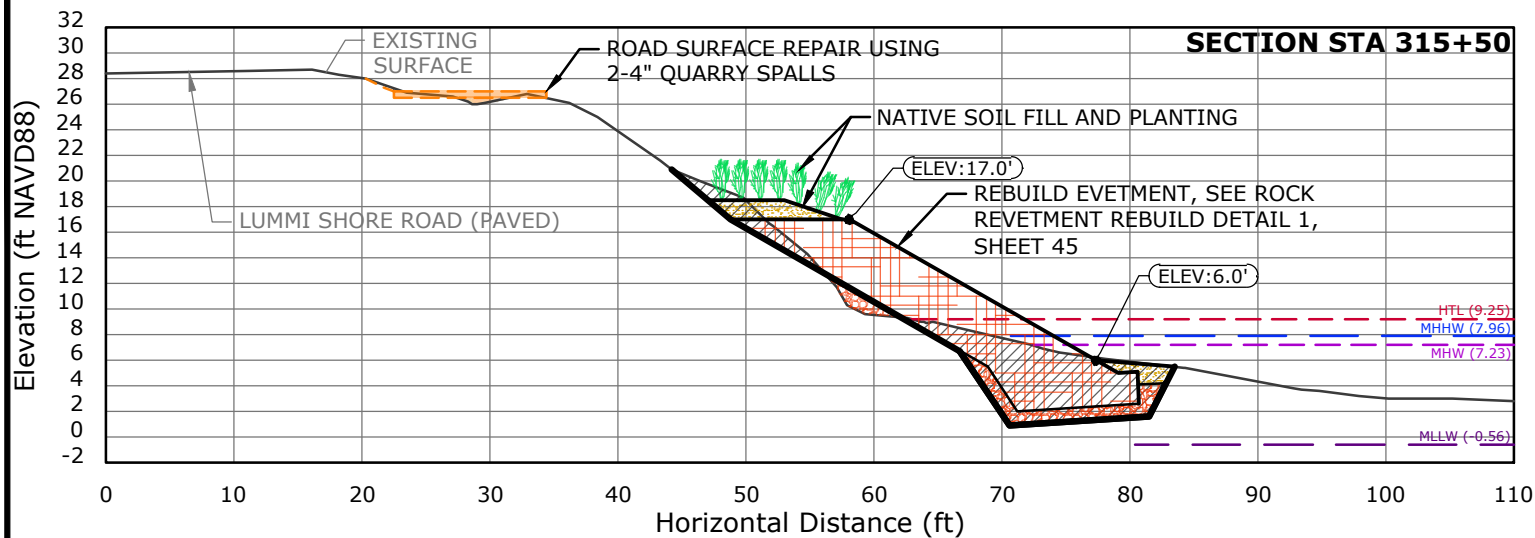
LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
 REVETMENT REPAIR & INSTALLATION  
 SMOKEHOUSE ACCESS (STA 314+00 - 317+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
 (STA 314+00 - STA 315+00)  
 LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
 USACE Ref. #: NWS-2024-185  
 IT: BELLINGHAM BAY / FISHERMANS COVE  
 County: WHATCOM State: WA  
 Application By:  
 INDIAN BUSINESS COUNCIL PUBLIC WORKS  
 2665 KWINA RD, BELLINGHAM, WA 98226-9291  
 Assessors Parcel Numbers:  
 MULTIPLE, SEE PLAN SHEET 40  
 Adjacent Property Owners:  
 MULTIPLE, SEE PLAN SHEET 40

Location: 48.7456 LATITUDE  
 -122.6263 LONGITUDE

**DATUM: NAVD88**  
 Elev. MLLW: -0.56 FT  
 Elev. MHW: 7.23 FT  
 Elev. MHHW: 7.96 FT  
 Elev. HTL: 9.21 FT  
 Date: 2/11/2025





**PERMIT  
DESIGN  
NOT FOR CONSTRUCTION**

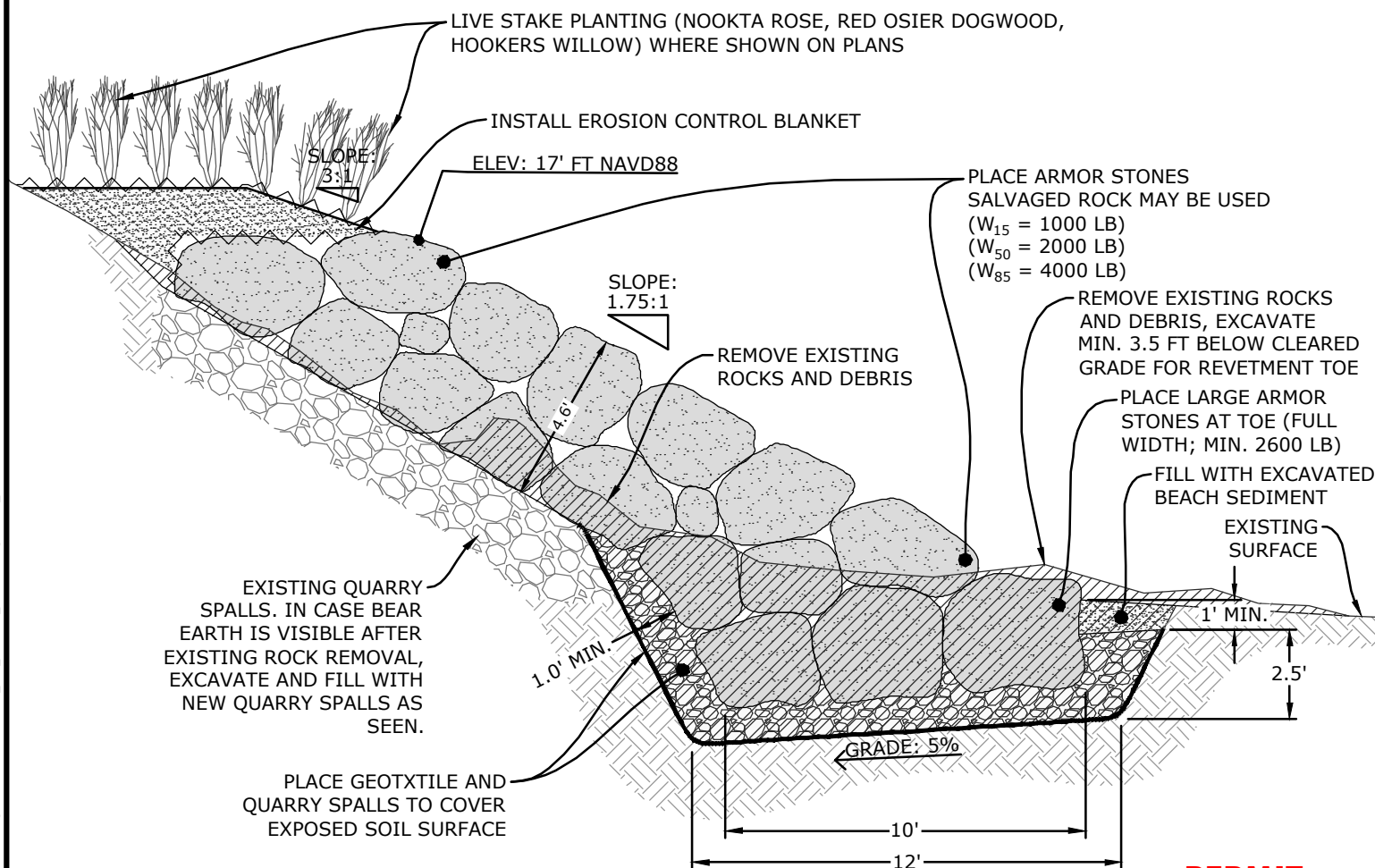


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
 REVETMENT REPAIR & INSTALLATION  
 SMOKEHOUSE ACCESS (STA 314+00 - 317+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
 (STA 315+50 - STA 316+50)  
 LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
 USACE Ref. #: NWS-2024-185  
 IT: BELLINGHAM BAY / FISHERMANS COVE  
 County: WHATCOM State: WA  
 Application By:  
 INDIAN BUSINESS COUNCIL PUBLIC WORKS  
 2665 KWINA RD, BELLINGHAM, WA 98226-9291  
 Assessors Parcel Sheet Numbers:  
 MULTIPLE, SEE PLAN SHEET 40  
 Adjacent Property Owners:  
 MULTIPLE, SEE PLAN SHEET 40

Location: 48.7456 LATITUDE  
 -122.6263 LONGITUDE  
 DATUM: NAVD88  
 Elev. MLLW: -0.56 FT  
 Elev. MHW: 7.23 FT  
 Elev. MHHW: 7.96 FT  
 Elev. HTL: 9.21 FT  
 Date: 2/11/2025  
 Sheet: 44 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_313-318\_PermittDesign-2024\_CGS



# **1 ROCK REVETMENT REBUILD DETAIL**

NOT TO SCALE

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SMOKEHOUSE ACCESS (STA 314+00 - 317+00)  
PROPOSED CONDITIONS - DETAIL  
DETAIL 1  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY / FISHERMANS COVE  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 40  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 40

Location: 48.7456 LATITUDE  
-122.6263 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHHW: 7.23 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025

Sheet: 45 OF: 74

# SECTION 14 (STA 332+50 - STA 358+00)

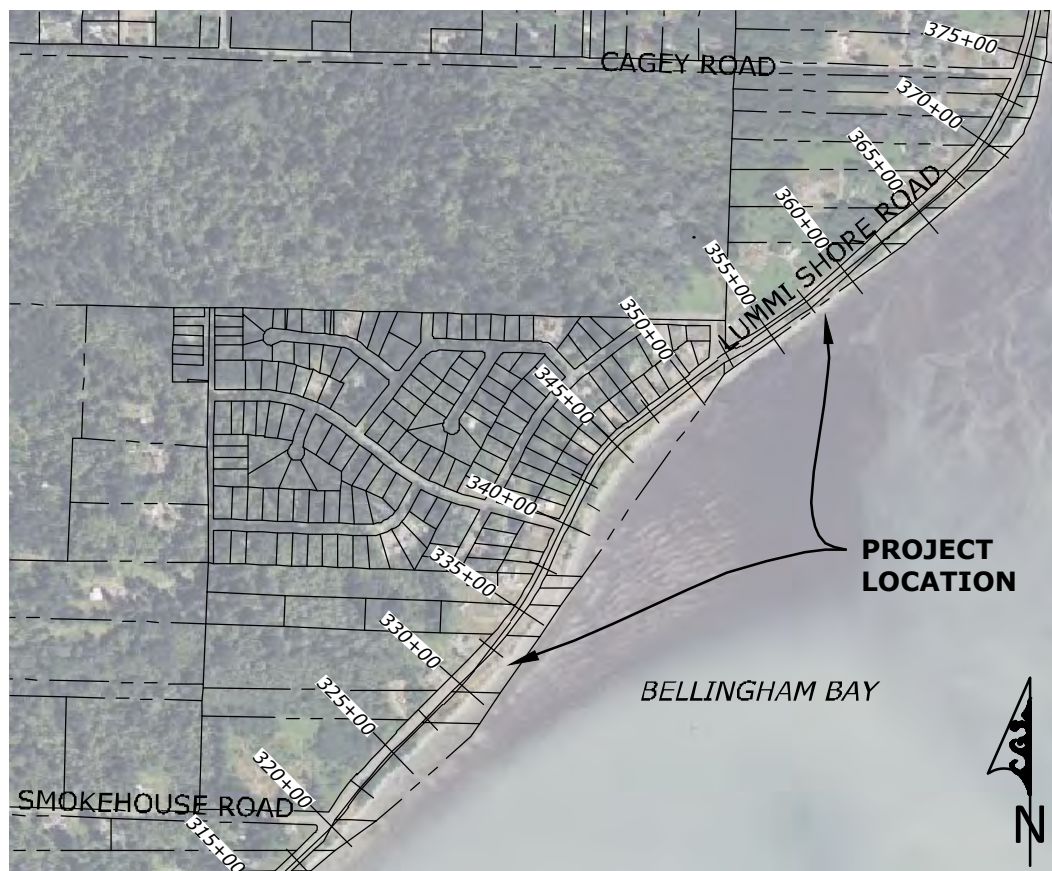
## LEGEND:

| FEATURE                                             | EXISTING | PROPOSED |
|-----------------------------------------------------|----------|----------|
| CONTOURS, MAJOR                                     | —#—      | —#—      |
| CONTOURS, MINOR                                     | —#—      | —#—      |
| PROPERTY LINE/ROW                                   | — — — —  | — — — —  |
| MEAN HIGH WATER                                     | —MHW—    | —MHW—    |
| MEAN HIGHER HIGH WATER                              | —MHHW—   | —MHHW—   |
| HIGH TIDE LINE                                      | —HTL—    | —HTL—    |
| STORM DRAIN CULVERT                                 | —●—●—    | —●—●—    |
| REMOVE DENSE ROCK COVER ON THE BEACH                |          |          |
| CLEAR AND REGRADE BANK AND REBUILD REVETMENT        |          |          |
| CLEAR BANK AND REPAIR REVETMENT                     |          |          |
| CLEAR EXISTING ROCK AND TIE INTO EXISTING REVETMENT |          |          |
| REGRADE ACCESS ROAD                                 |          |          |
| CUT AND CLEAR INNER BANK AND WIDEN ACCESS ROAD      |          |          |
| NATIVE SOIL FILL AND PLANTING                       |          |          |
| TEMPORARY CONSTRUCTION ACCESS                       |          |          |

## PERMIT LAND DISTURBANCE QUANTITIES

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| +5FT MLLW | HAT to +5FT MLLW: 54,521 SF (85%), +5FT to -10FT MLLW: 6,136 SF (70%) |
| -5FT MLLW | CUT: ABOVE HTL: 17 CY / BELOW HTL: 1,391 CY                           |
|           | AREA: ABOVE HTL: 18,854 SF / BELOW HTL: 8,330 SF                      |
|           | 900 LF CUT: ABOVE HTL: 2,284 CY / BELOW HTL: 1,008 CY                 |
|           | FILL: ABOVE HTL: 3,278 CY / BELOW HTL: 1,447 CY                       |
|           | AREA: ABOVE HTL: 36,876 SF / BELOW HTL: 9,453 SF                      |
|           | 1,550 LF CUT: ABOVE HTL: 4,763 CY / BELOW HTL: 1,212 CY               |
|           | FILL: ABOVE HTL: 4,608 CY / BELOW HTL: 1,171 CY                       |
|           | AREA: ABOVE HTL: 643 SF / BELOW HTL: 303 SF                           |
|           | 33 LF CUT: ABOVE HTL: 81 CY / BELOW HTL: 38 CY                        |
|           | FILL: ABOVE HTL: 92 CY / BELOW HTL: 43 CY                             |
|           | AREA: ABOVE HTL: 1,487 SF / BELOW HTL: 0 SF                           |
|           | CUT: ABOVE HTL: 55 CY / BELOW HTL: 0 CY                               |
|           | FILL: ABOVE HTL: 22 CY / BELOW HTL: 0 CY                              |
|           | AREA: ABOVE HTL: 758 SF / BELOW HTL: 0 SF                             |
|           | CUT: ABOVE HTL: 28 CY / BELOW HTL: 0 CY                               |
|           | FILL: ABOVE HTL: 11 CY / BELOW HTL: 0 CY                              |
|           | AREA: ABOVE HTL: 27,890 SF / BELOW HTL: 0 SF                          |
|           | FILL: ABOVE HTL: 1,033 CY / BELOW HTL: 0 CY                           |
|           | ABOVE HTL: 171 SF / BELOW HTL: 191 SF                                 |
|           | CUT & FILL: ABOVE HTL: 6 CY / BELOW HTL: 7 CY                         |

## LOCATION MAP:



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVIEW REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)

## LEGEND

## LEGEND

LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE



DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.23 FT  
Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025

Sheet: 46 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_333-357\_PermittDesign-2024\_CGS

**PROJECT PARCEL OWNERSHIP:**

PARCEL #'s 3801253300820000, 3801254021060000, 3801253501250000,  
3801254371270000, 3802300322850000:  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169  
PARCEL # 3801255141820000:  
KEL BAY COMMUNITY WATER ASSN  
JENNIFER REED  
2644 SHOREWOOD LN  
BELLINGHAM WA 98226-9224

**ADJACENT PARCEL OWNERSHIP:**

PARCEL #'s: 3801253330520000, 3802300403100000  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169



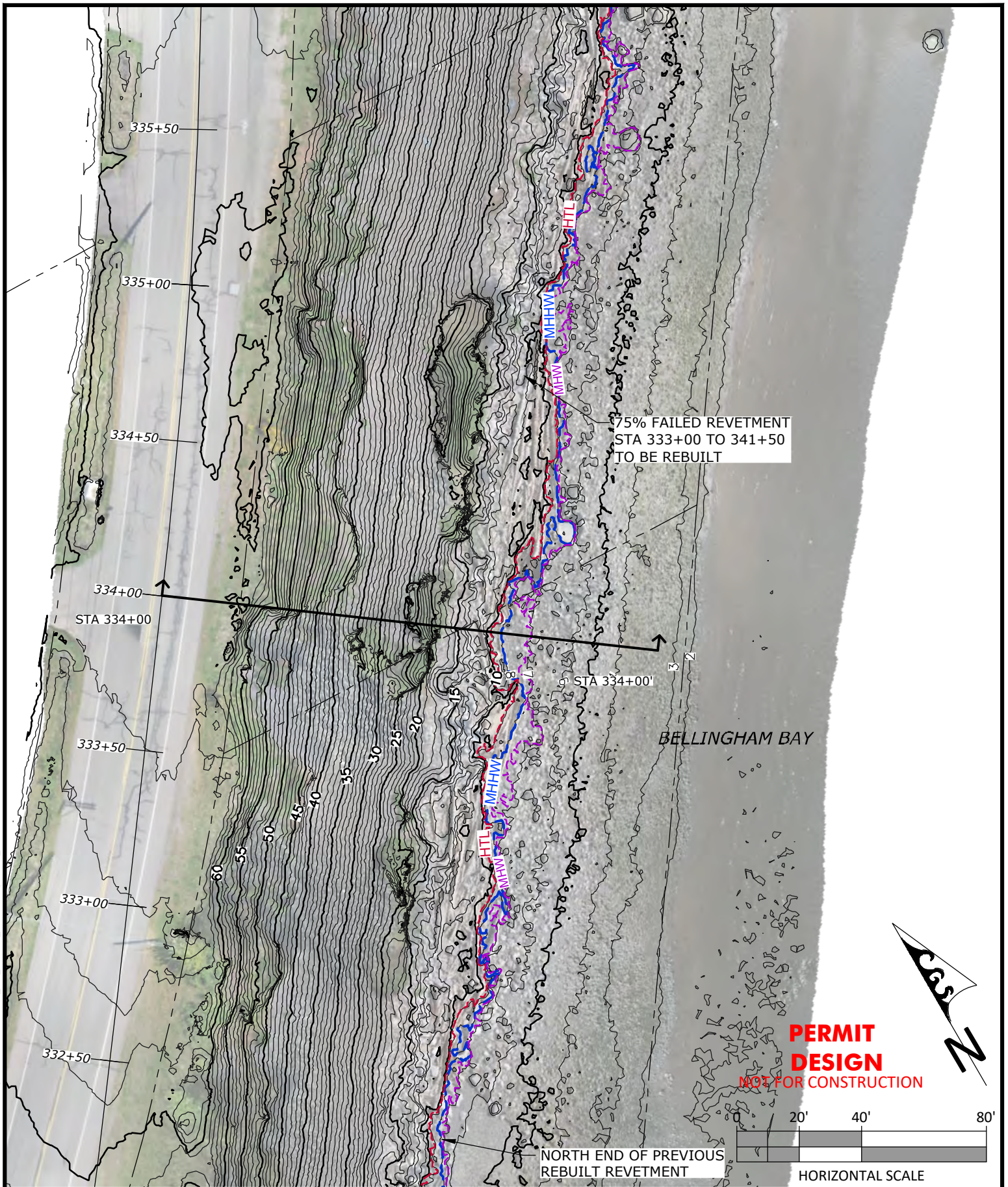
LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
OVERVIEW

AERIAL PHOTO - PROPERTY MAP - KEY MAP - MOUNMENT MAP  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.23 FT  
Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 47 OF: 74

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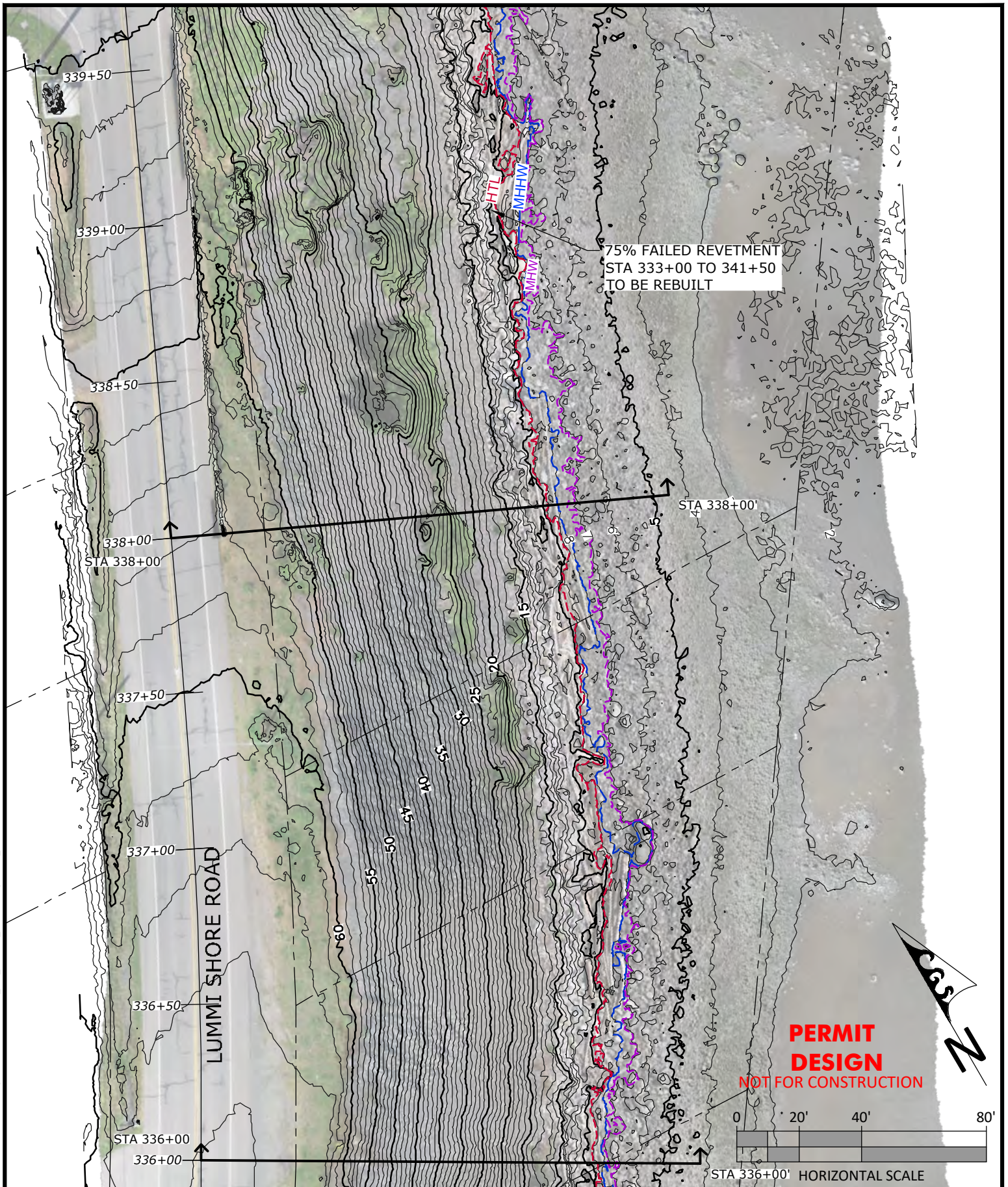


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 332+50 - STA 335 +50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.23 FT  
Elev. HTL: 7.96 FT  
Date: 2/11/2025  
Sheet: 48 OF: 74

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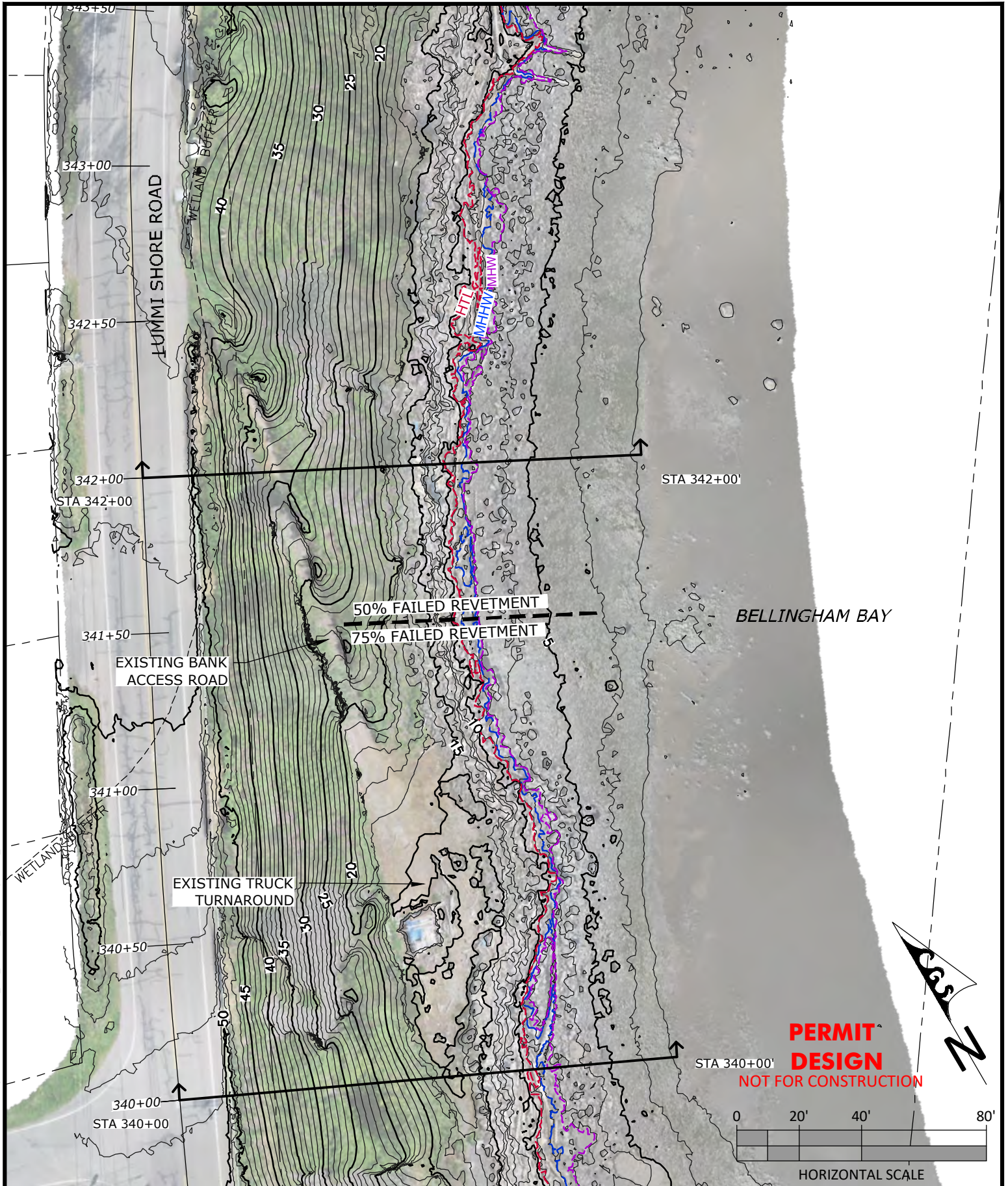


Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 336+00 - STA 339+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 49 OF: 74



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Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 340+00 - STA 343+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

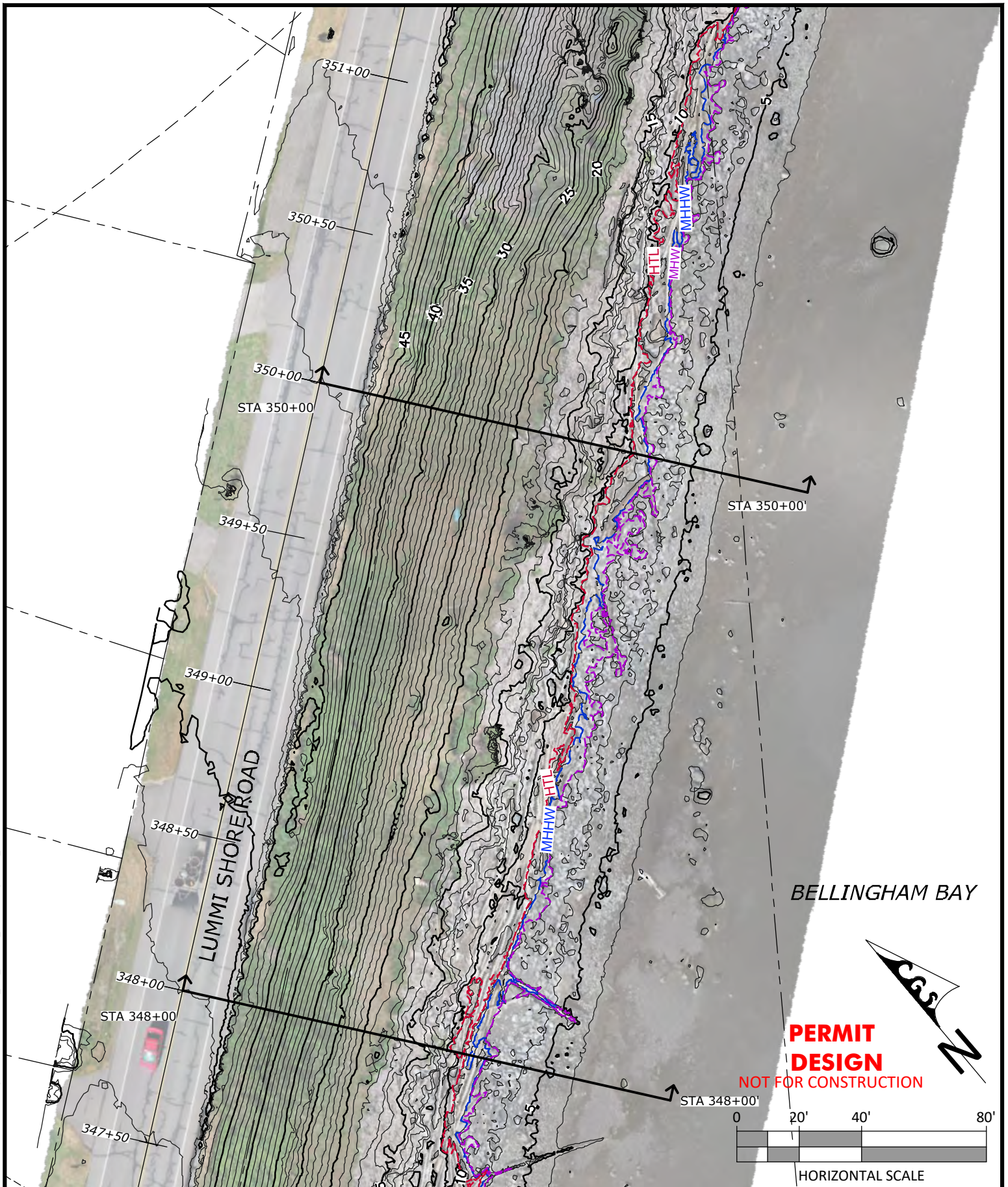
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USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
Elev. MHW: 7.23 FT  
Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 50 OF: 74





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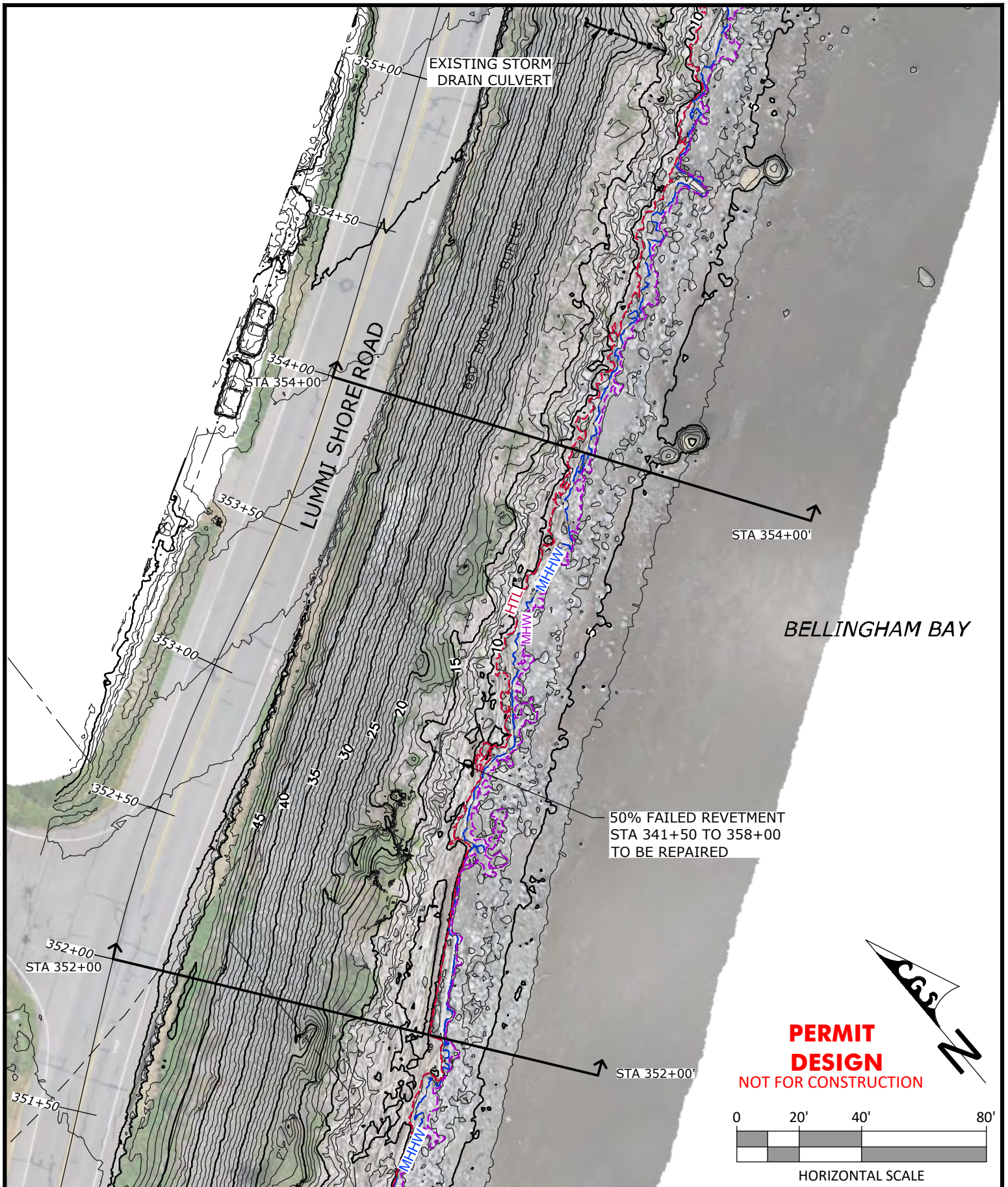


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**EXISTING CONDITIONS - SITE PLAN**  
(STA 348+00 - STA 351+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE  
DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
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Elev. HTL: 7.96 FT  
Date: 2/11/2025  
Sheet: 52 OF: 74

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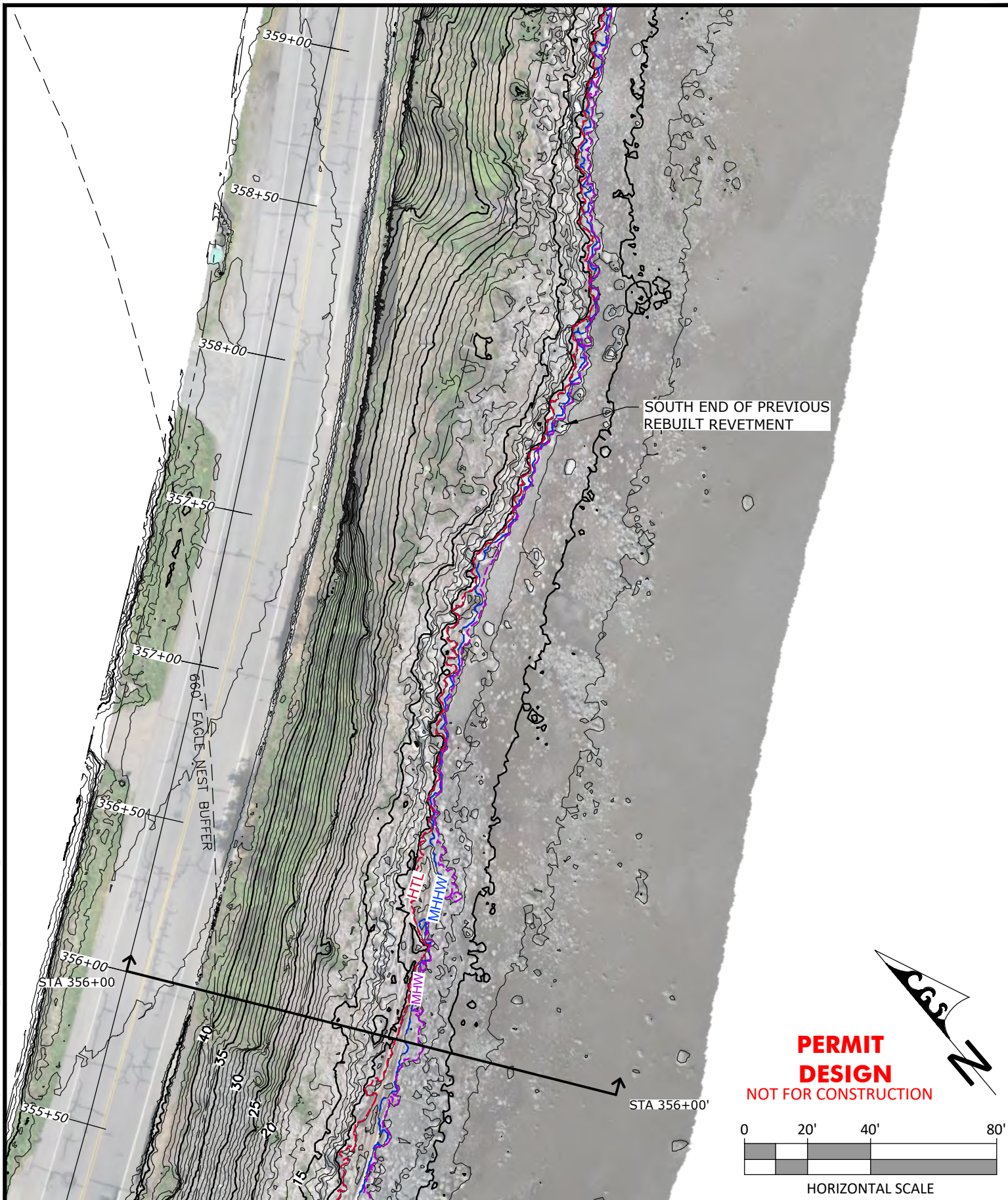


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 352+50 - STA 355+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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DATUM: NAVD88  
Elev. MLLW: -0.56 FT  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 53 OF: 74

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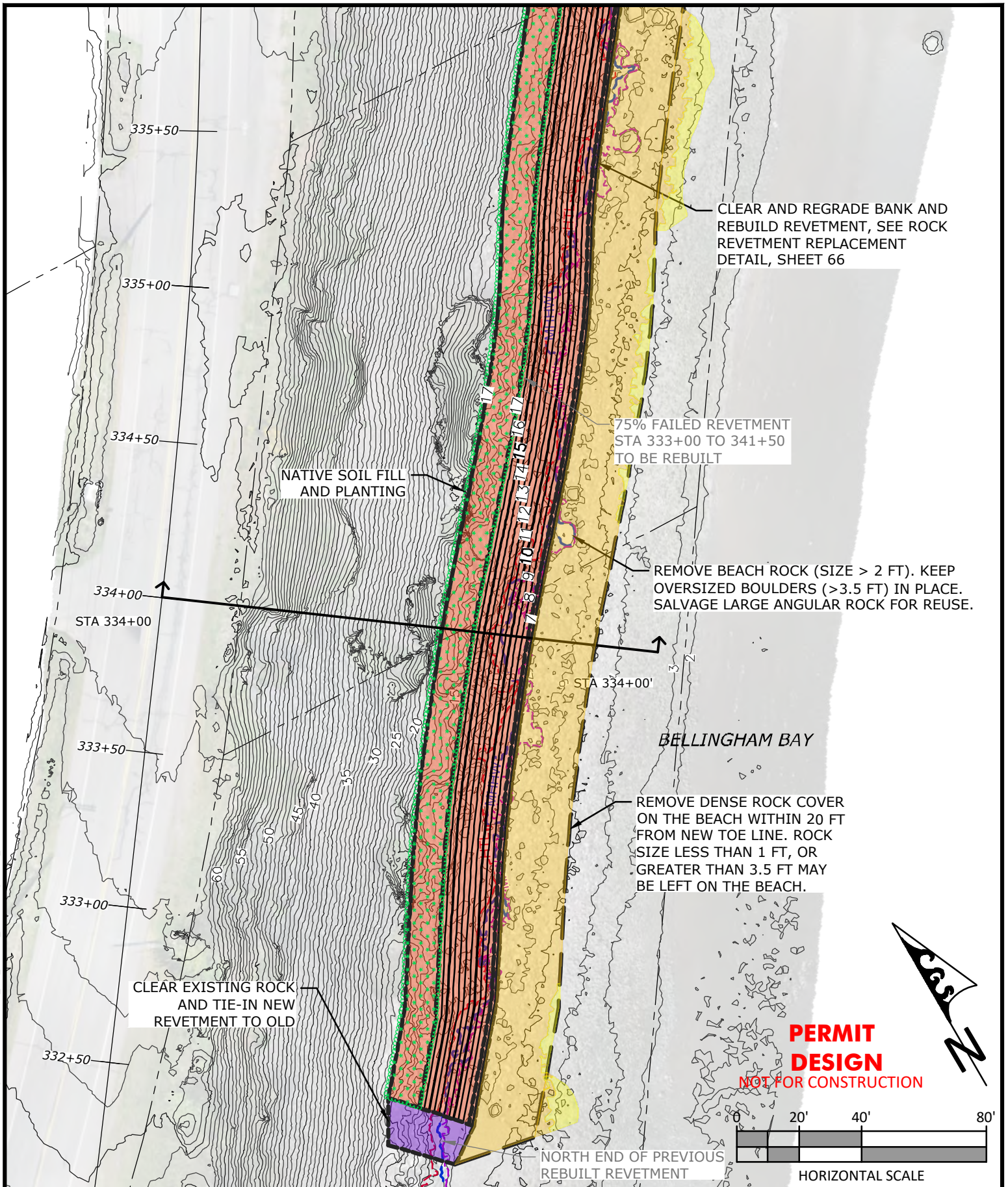


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 355+50 - STA 358+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 54 OF: 74

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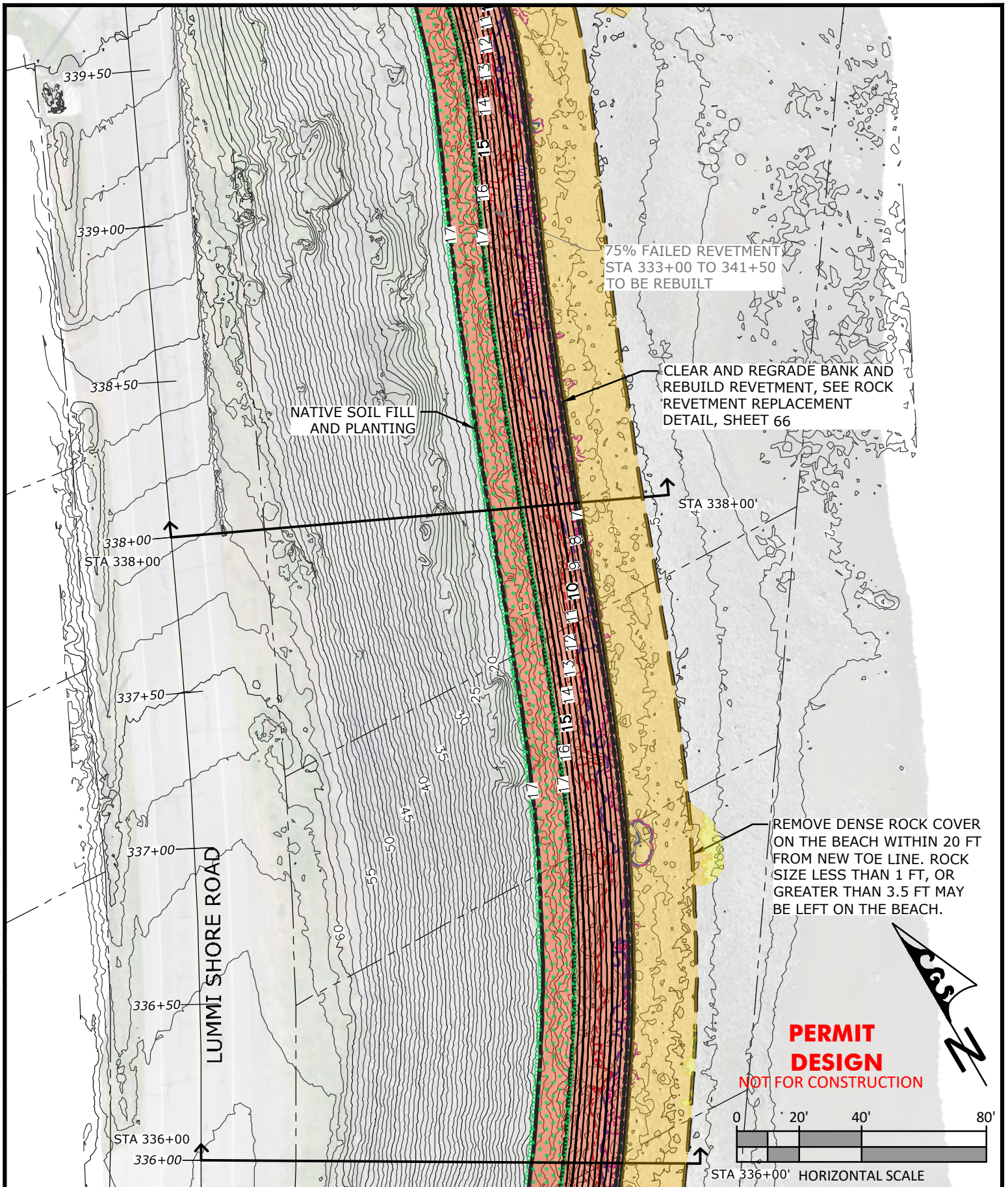


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 332+50 - STA 335+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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Date: 2/11/2025  
Sheet: 55 OF: 74

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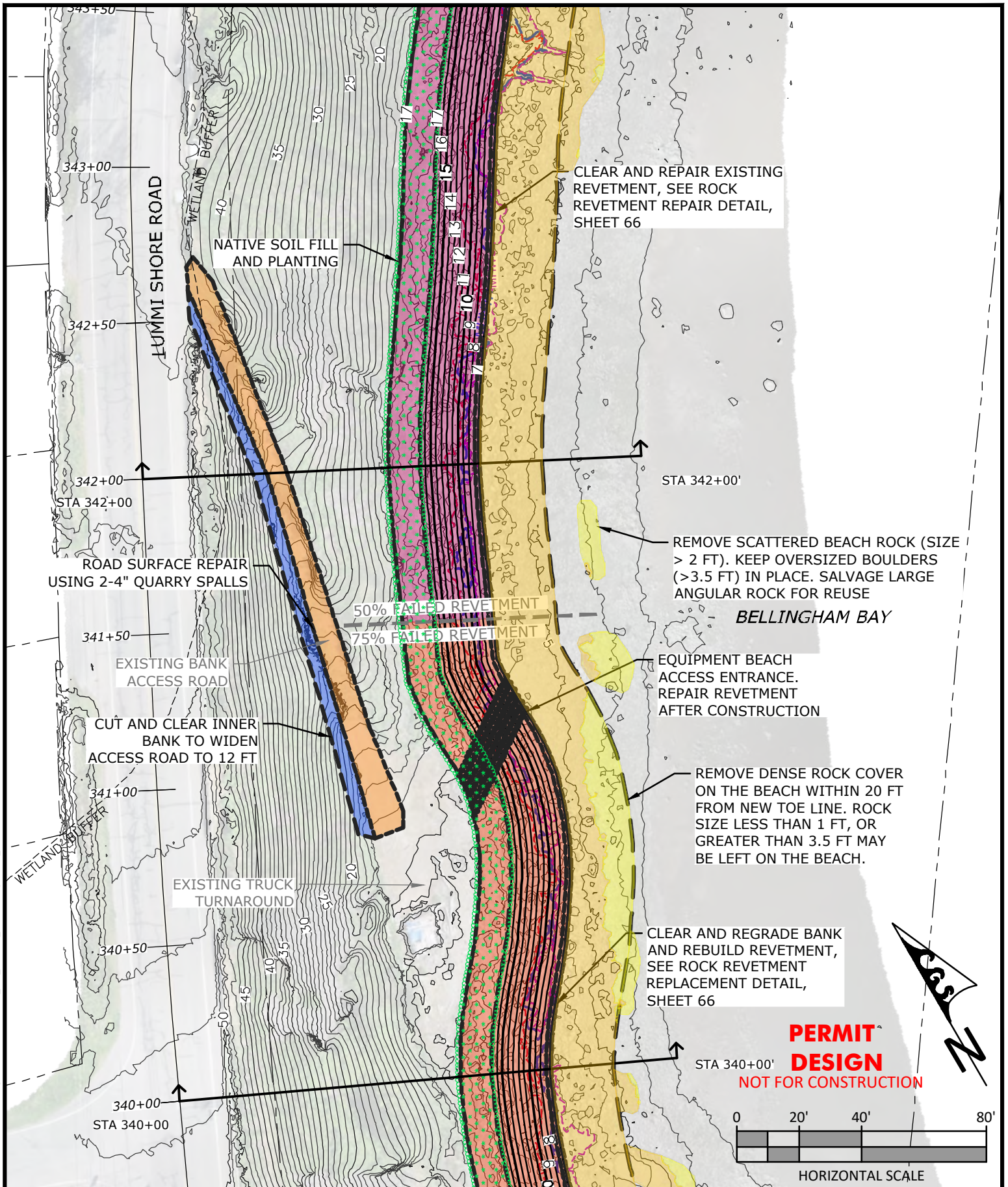
Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 336+00 - STA 339+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 56 OF: 74

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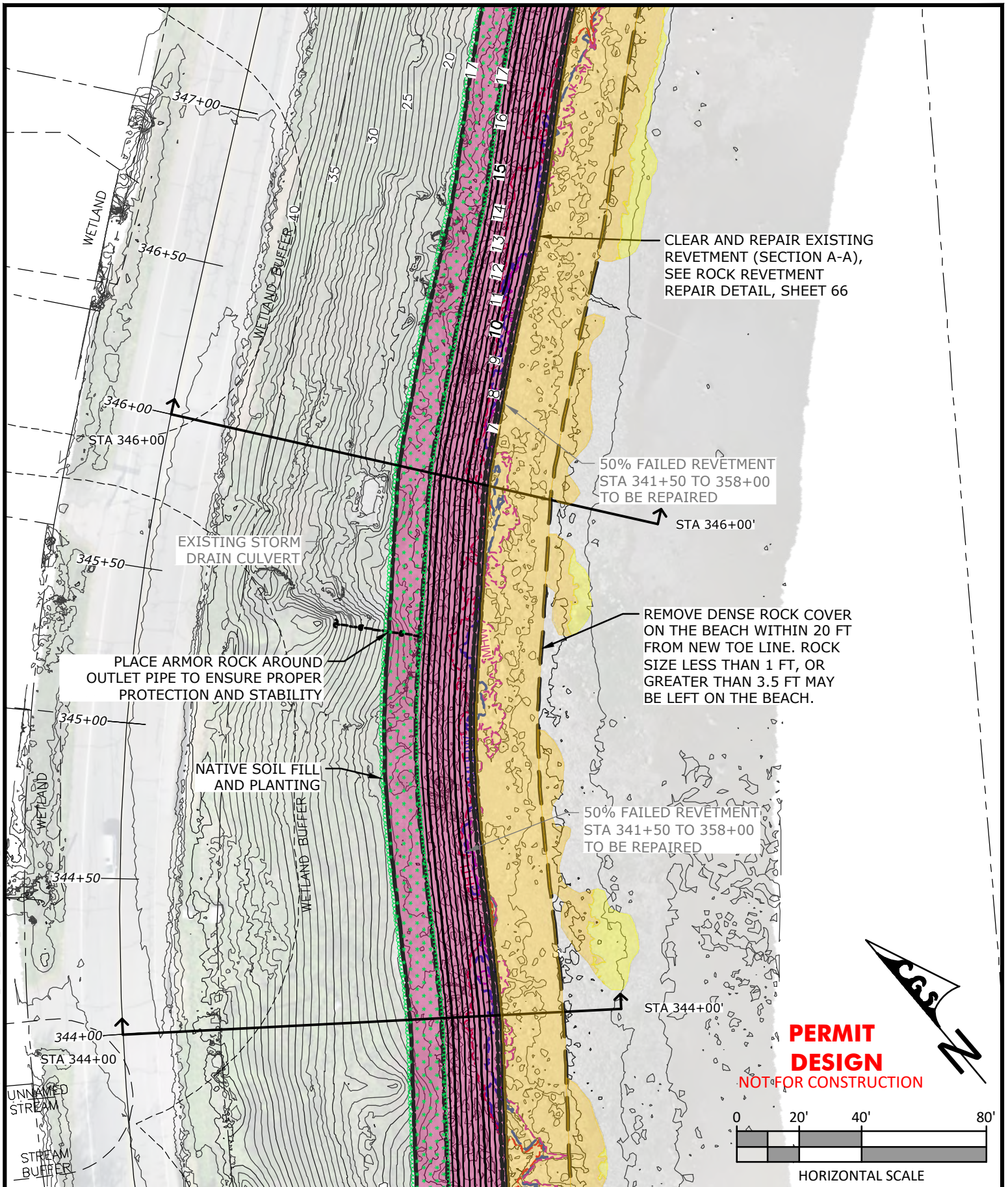


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 340+00 - STA 343+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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DATUM: NAVD88  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 57 OF: 74

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**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

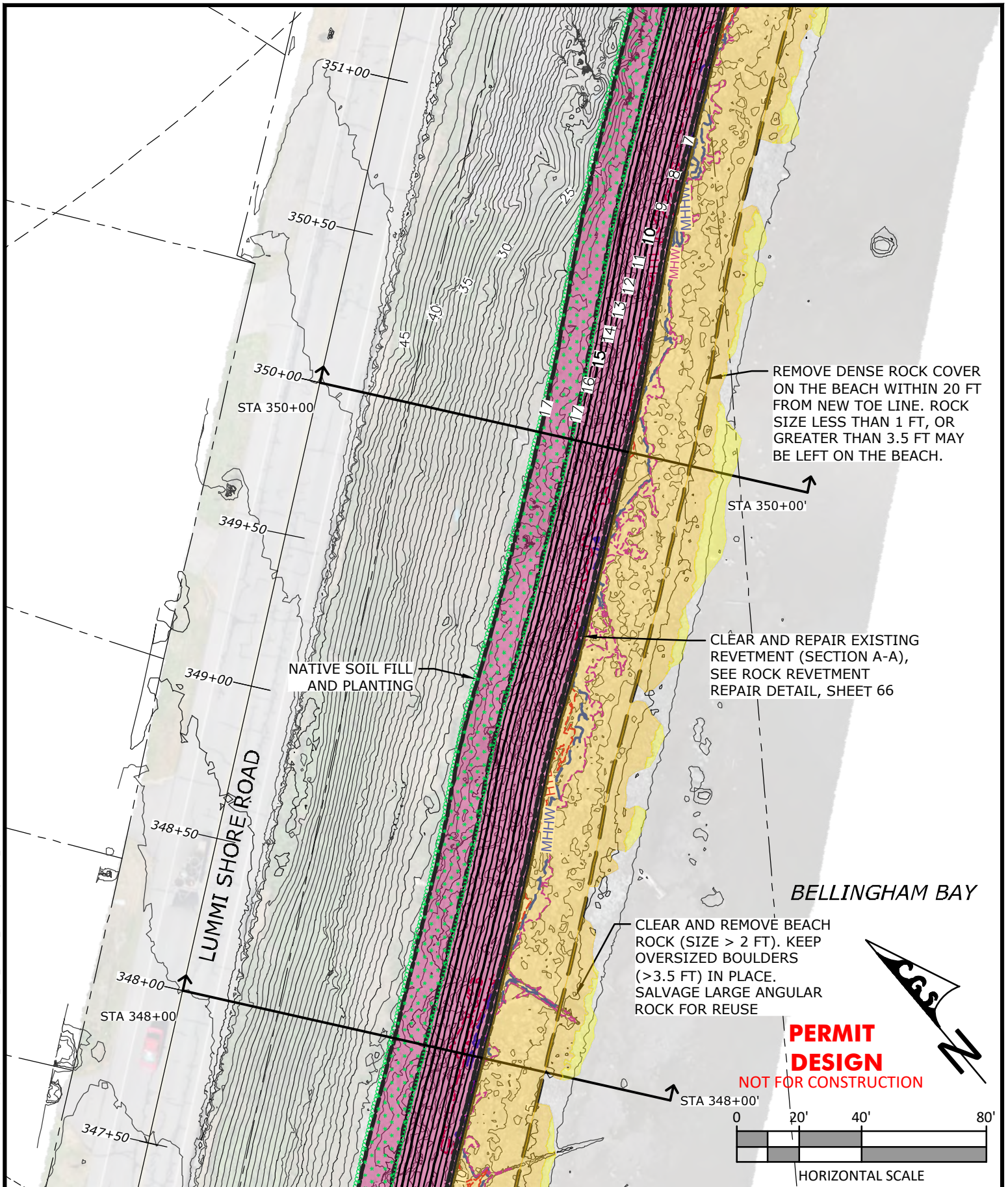


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 344+00 - STA 347+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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Date: 2/11/2025  
Sheet: 58 OF: 74

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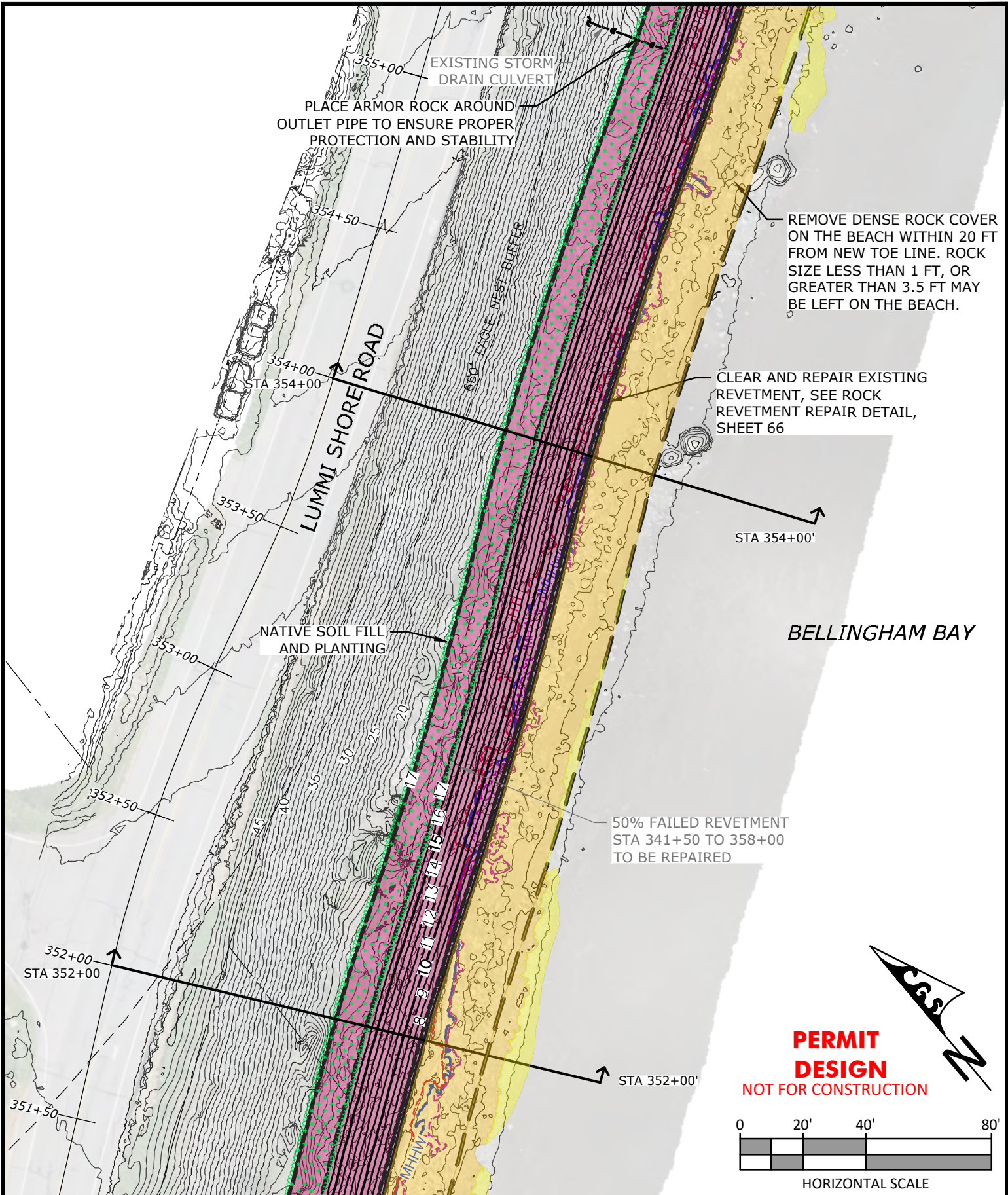


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 348+00 - STA 351+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 59 OF: 74





Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
PROPOSED CONDITIONS - SITE PLAN  
(STA 351+50 - STA 355+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

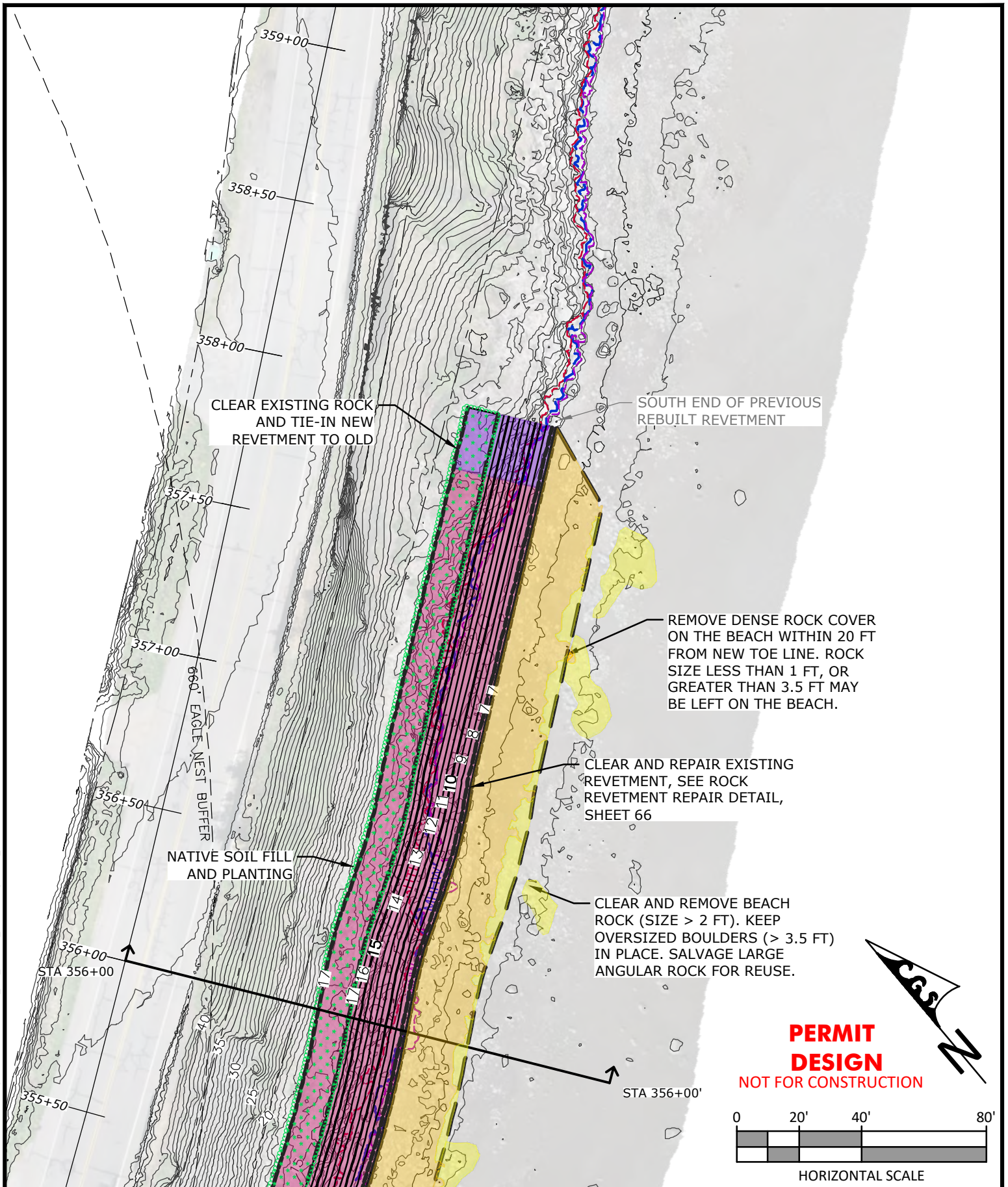
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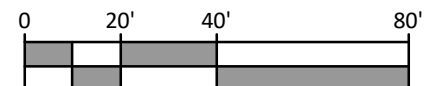
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Date: 2/11/2025

Sheet: 60 OF: 74

R:\Lummi Reservation\21-009 Lummi Shore Rd Permitting\CAD\Current\21-009\_STA\_333-357\_PermitDesign-2024\_CGS



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



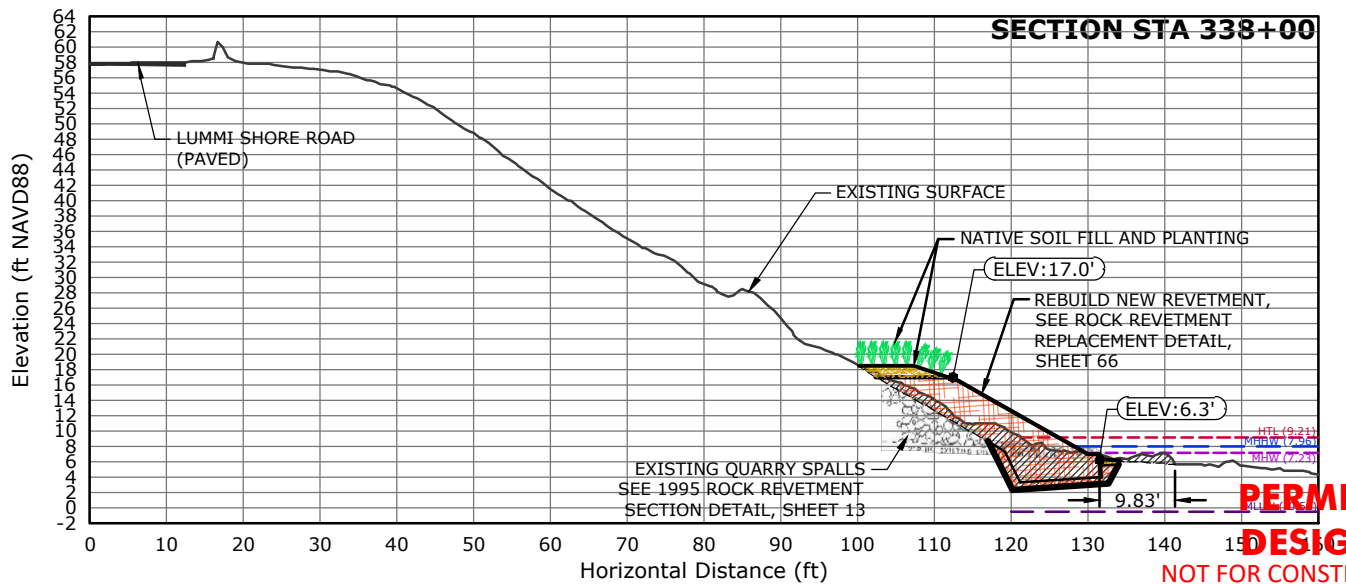
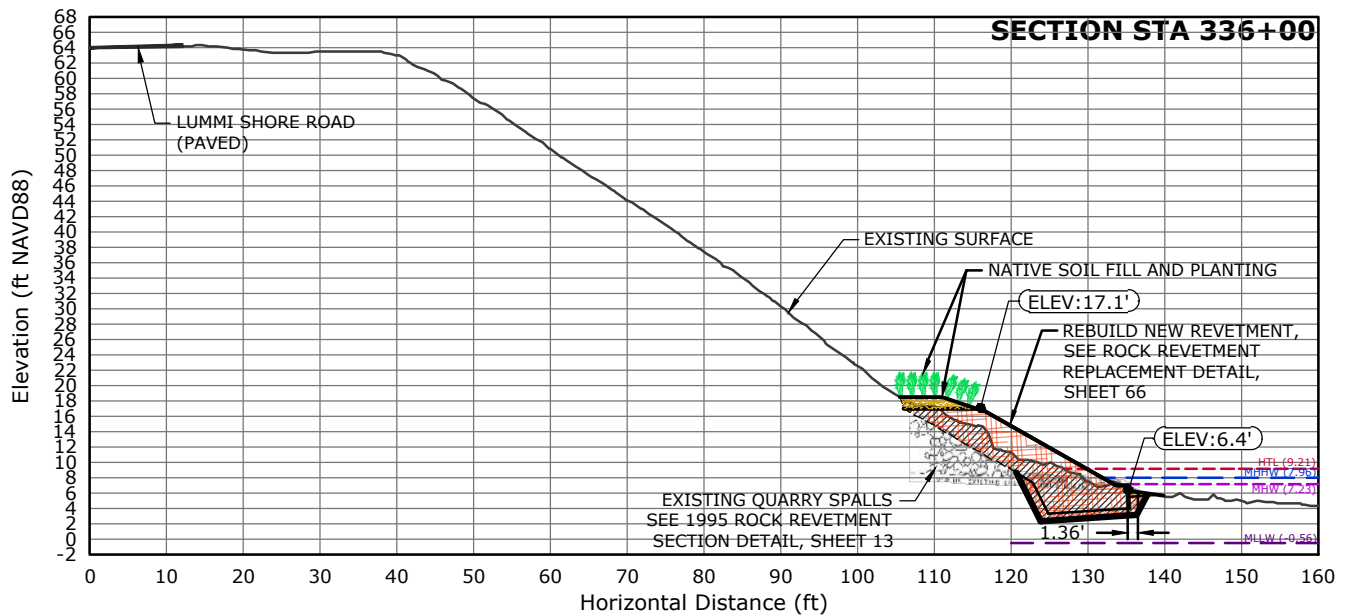
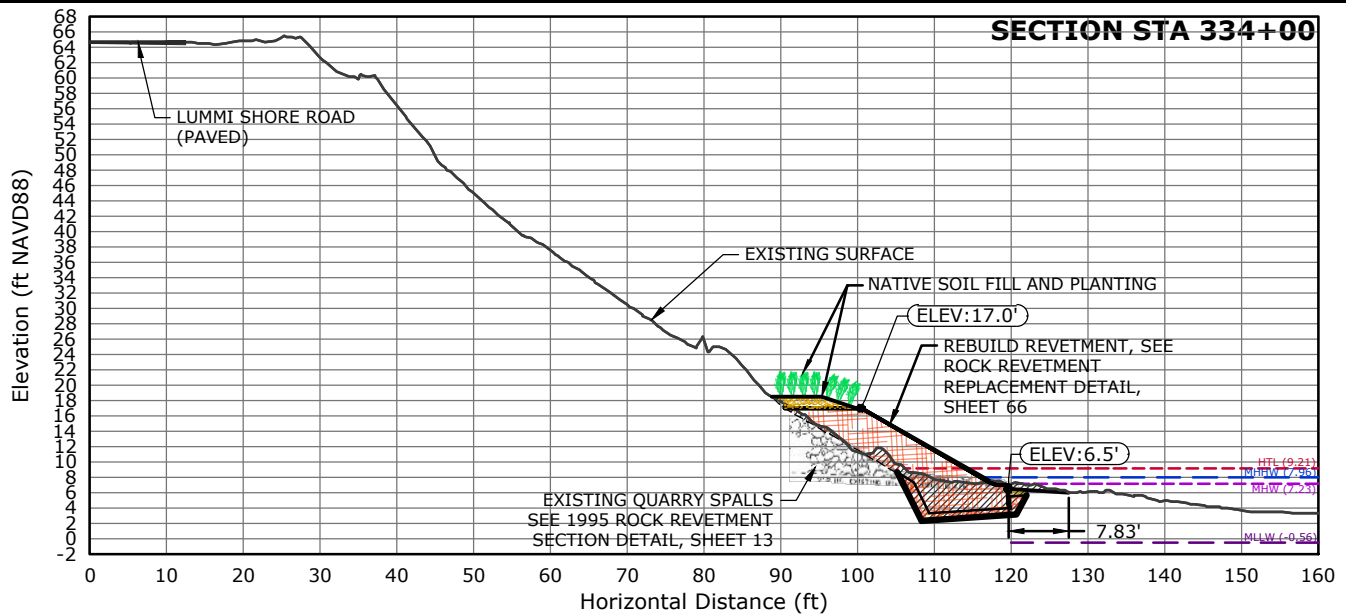
HORIZONTAL SCALE



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 355+50 - STA 358+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 47

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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 61 OF: 74



PERMIT  
DESIGN  
NOT FOR CONSTRUCTION

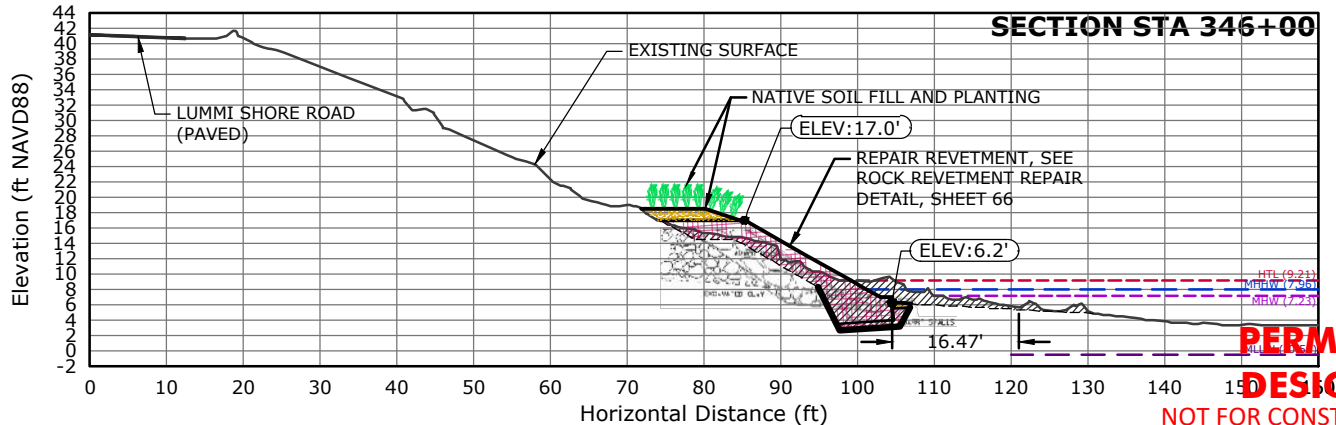
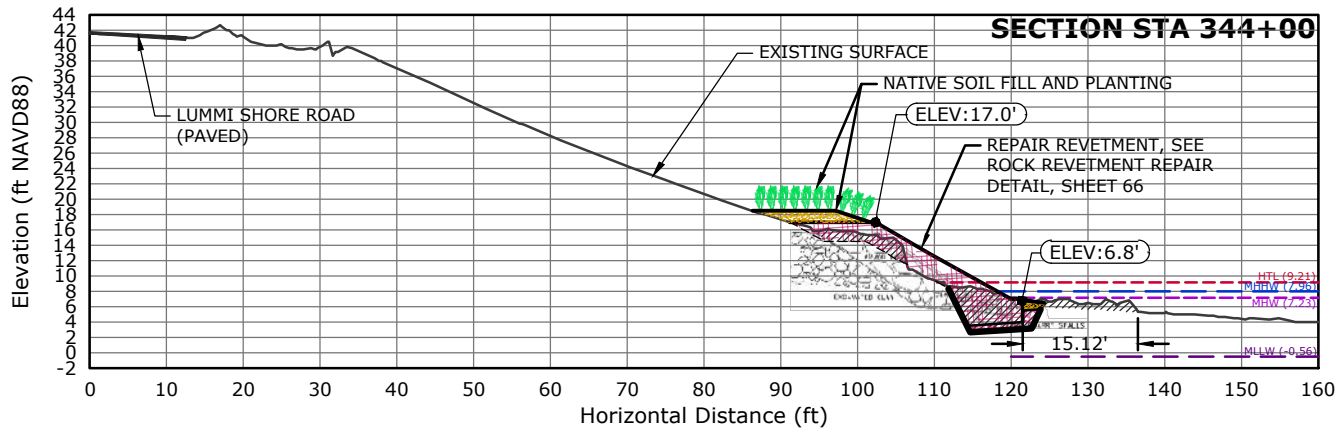
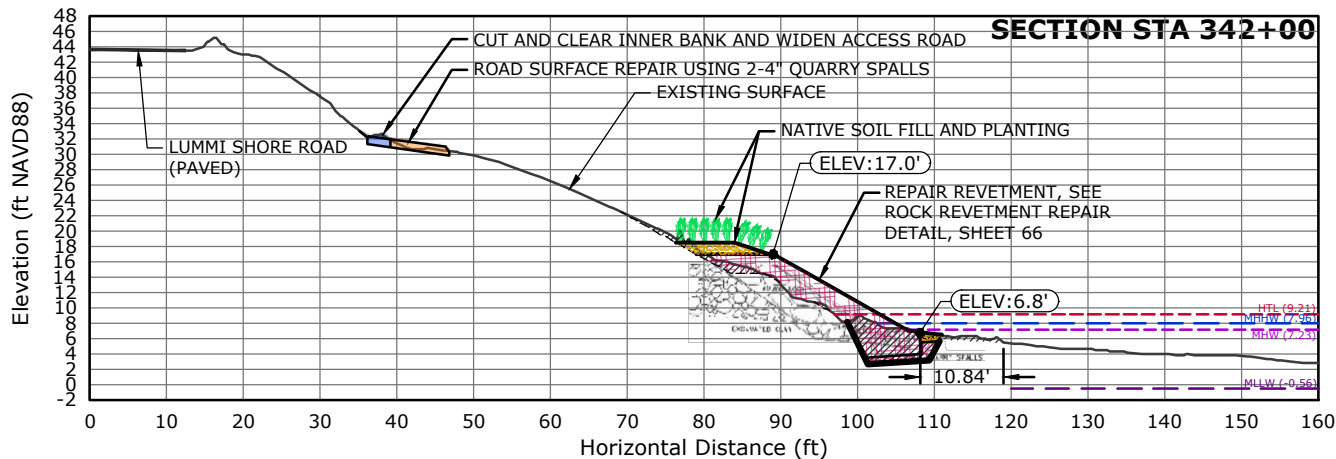
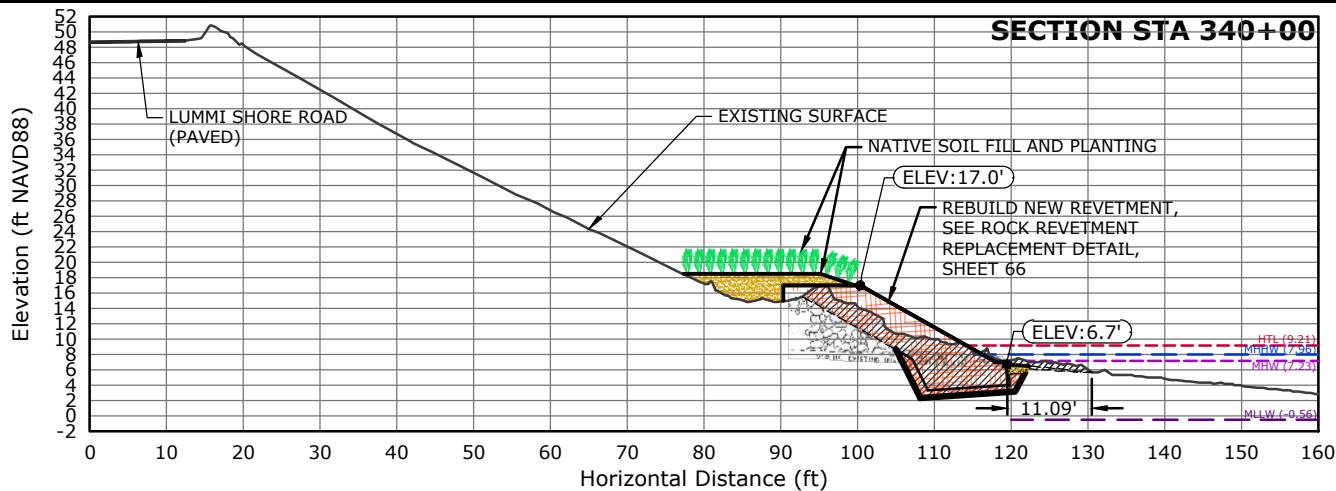


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
 REVETMENT REPAIR & INSTALLATION  
 SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
 (STA 334+00 - STA 338+00)  
 LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
 USACE Ref. #: NWS-2024-185  
 IN: BELLINGHAM BAY County: WHATCOM State: WA  
 Application By:  
 INDIAN BUSINESS COUNCIL PUBLIC WORKS  
 2665 KWINA RD, BELLINGHAM, WA 98226-9291  
 Assessors Parcel Numbers:  
 MULTIPLE, SEE PLAN SHEET 47  
 Adjacent Property Owners:  
 MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
 -122.619245 LONGITUDE

DATUM: NAVD88  
 Elev. MLLW: -0.56 FT  
 Elev. MHHW: 7.23 FT  
 Elev. MHW: 7.96 FT  
 Elev. HTL: 9.21 FT  
 Date: 2/11/2025  
 Sheet: 62 OF: 74



**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



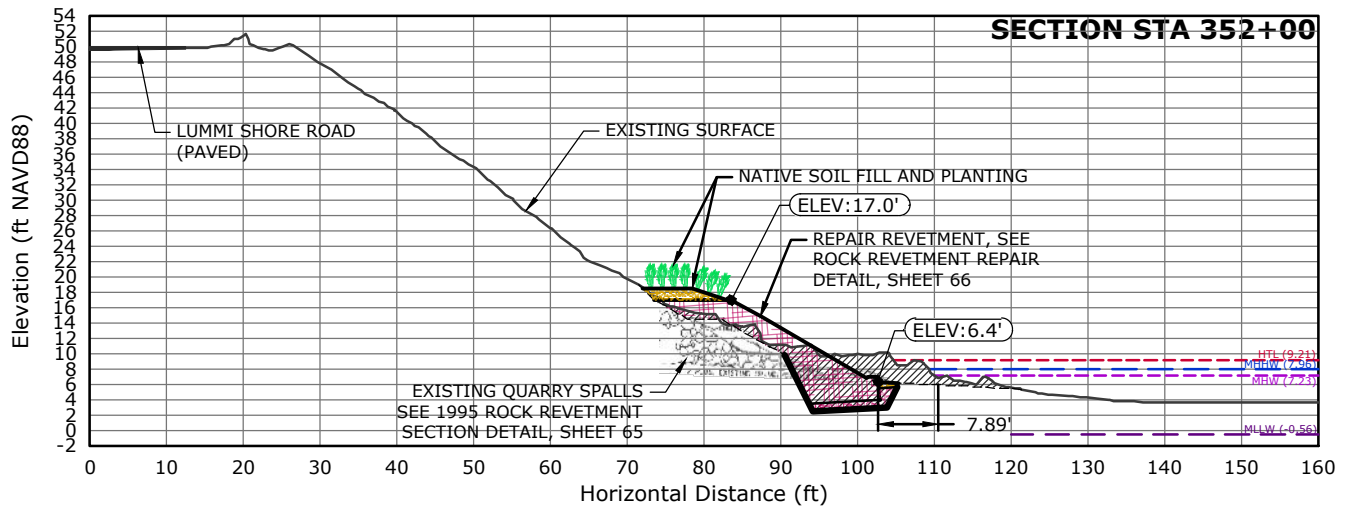
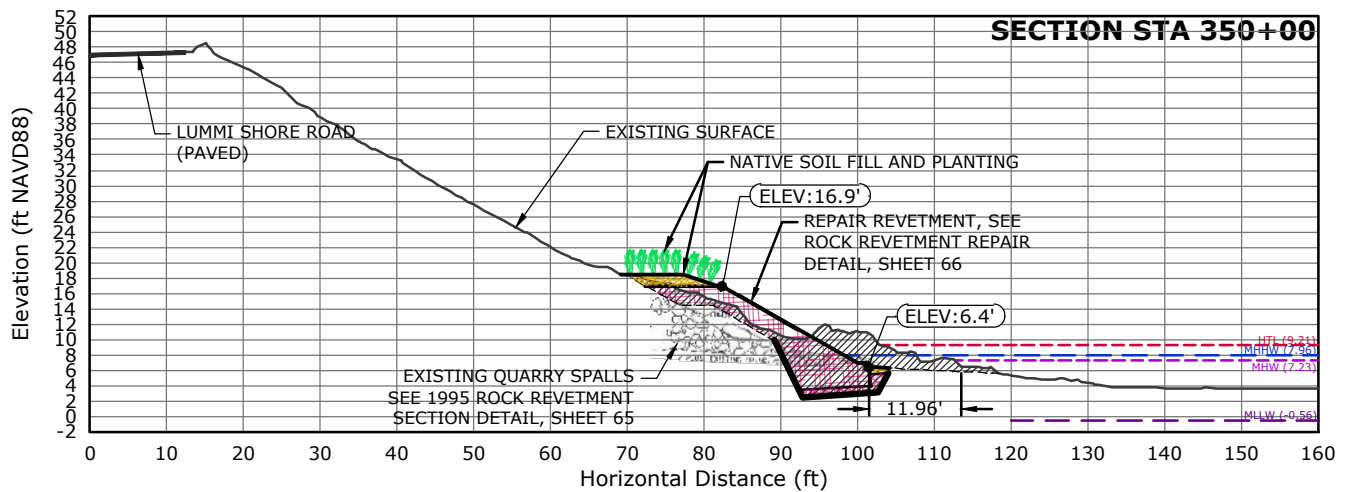
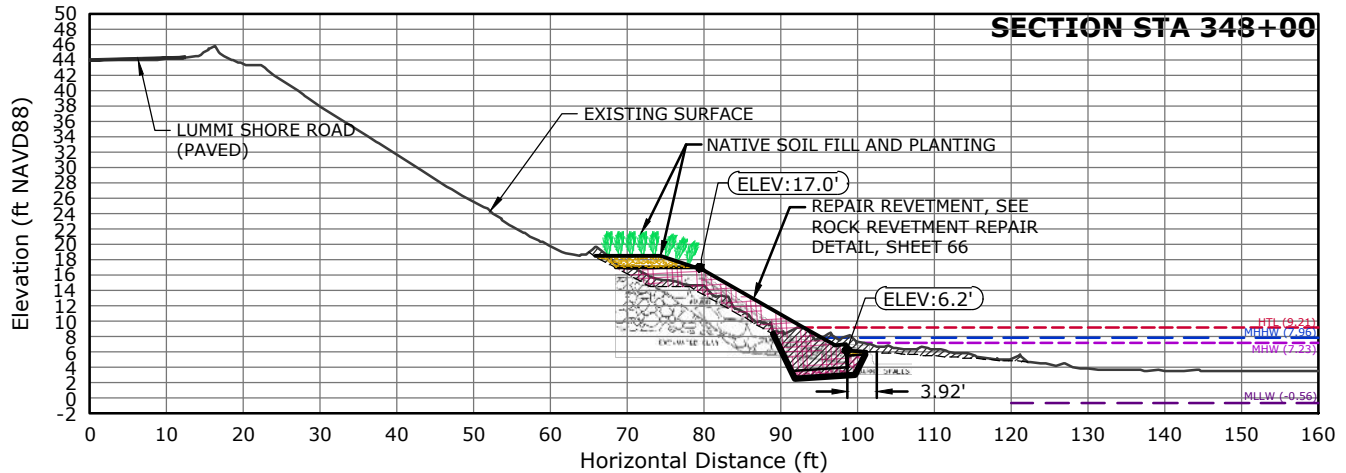
Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
(STA 340+00 - STA 346+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 47  
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Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 63 OF: 74





**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

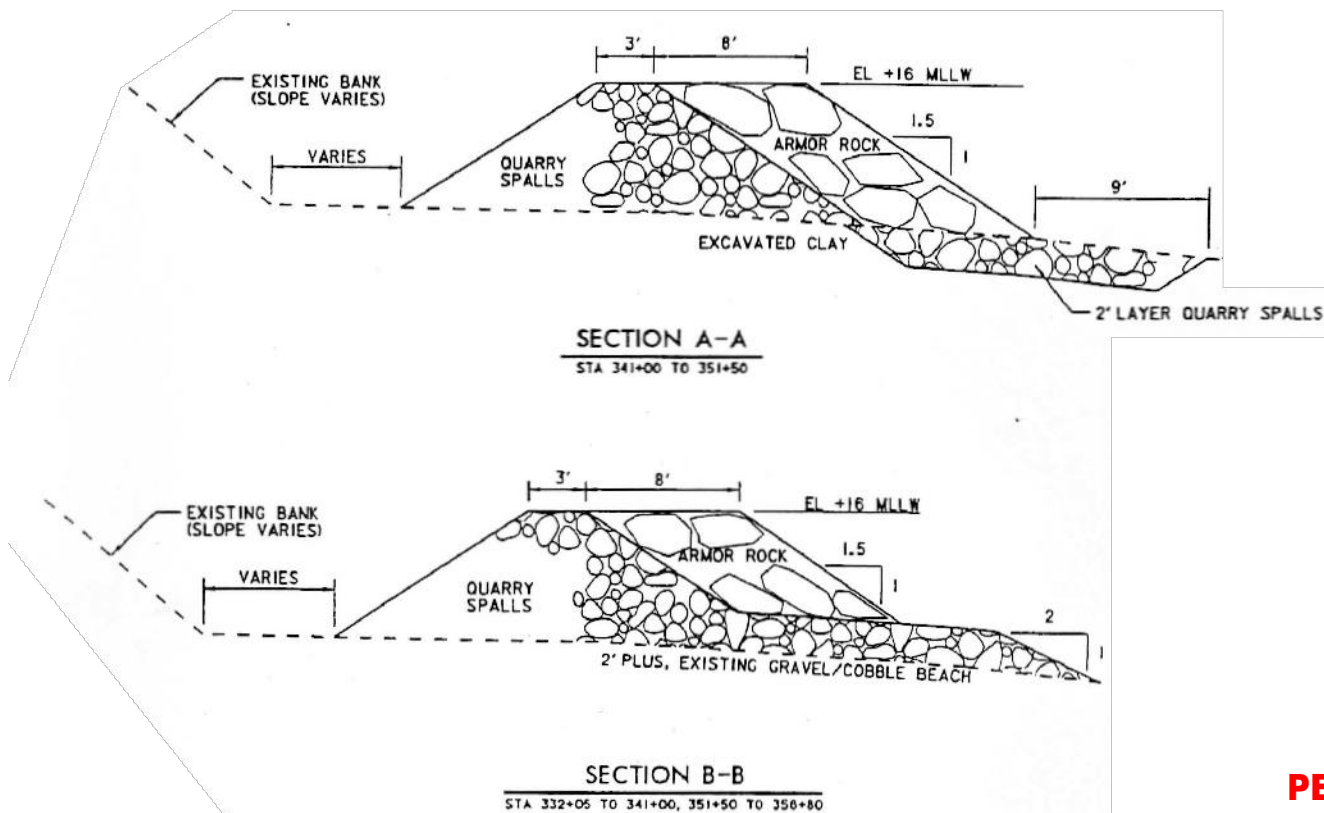
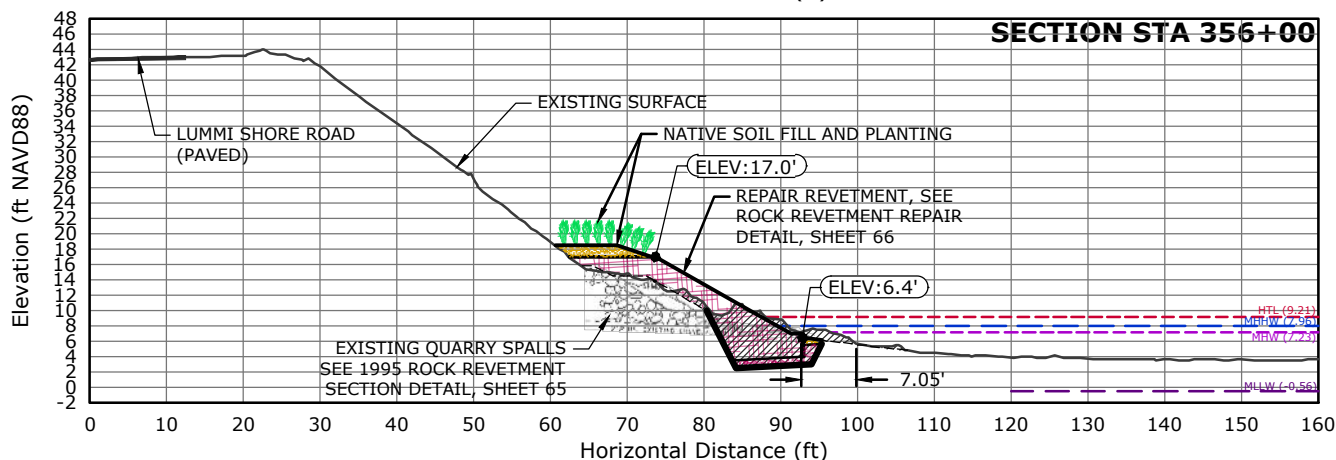
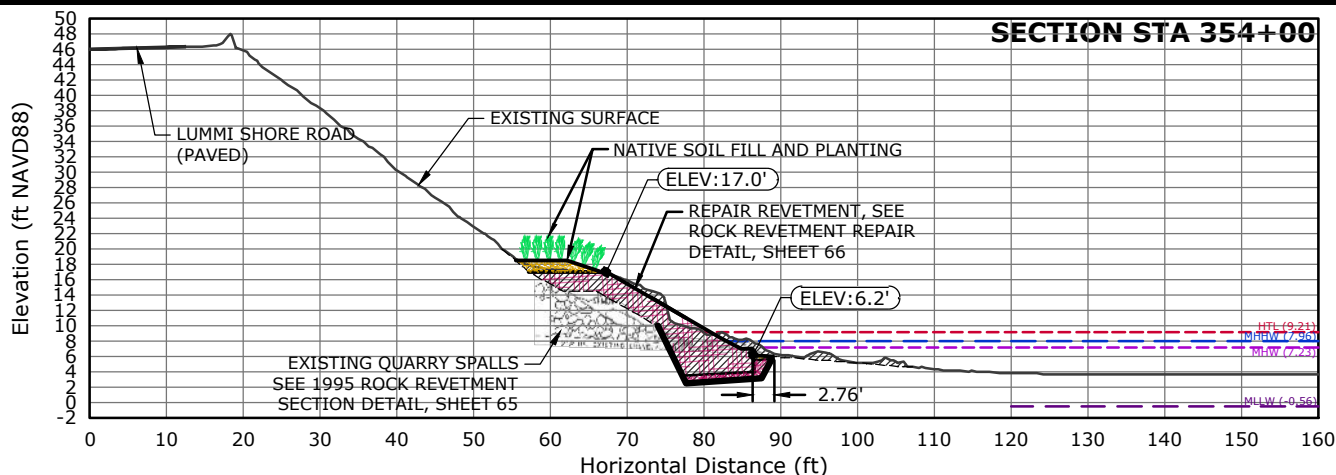


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
(STA 348+00 - STA 352+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
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IN: BELLINGHAM BAY  
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2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 64 OF: 74





**1995 ROCK REVETMENT SECTION DETAILS (FROM USACE DESIGN SHEETS AS REFERENCE)**

NOT TO SCALE

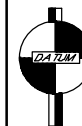


Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REKETMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS & DETAIL**  
(STA 354+00 - STA 356+00) - DETAIL  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

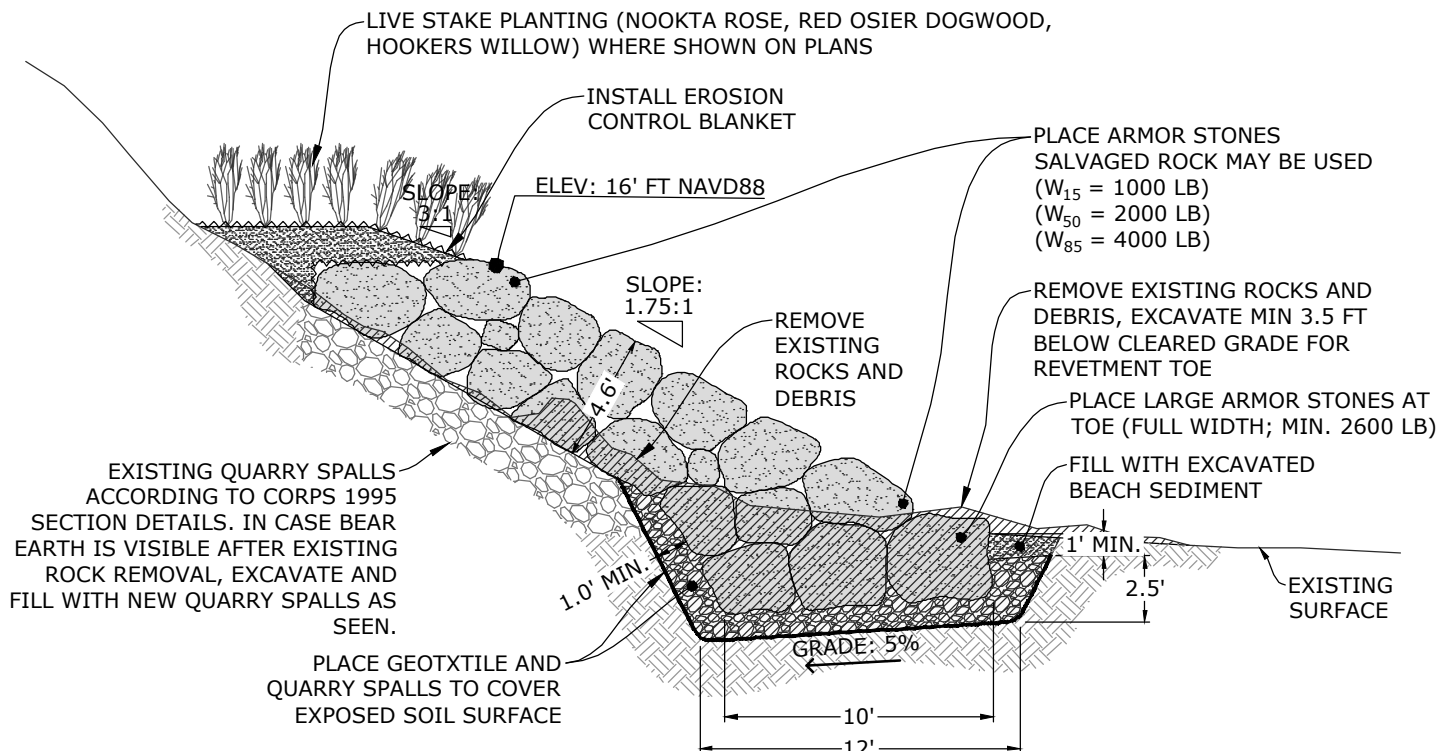
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County: WHATCOM State: WA  
Application By:  
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MULTIPLE, SEE PLAN SHEET 47

Location: 48.751315 LATITUDE  
-122.619245 LONGITUDE



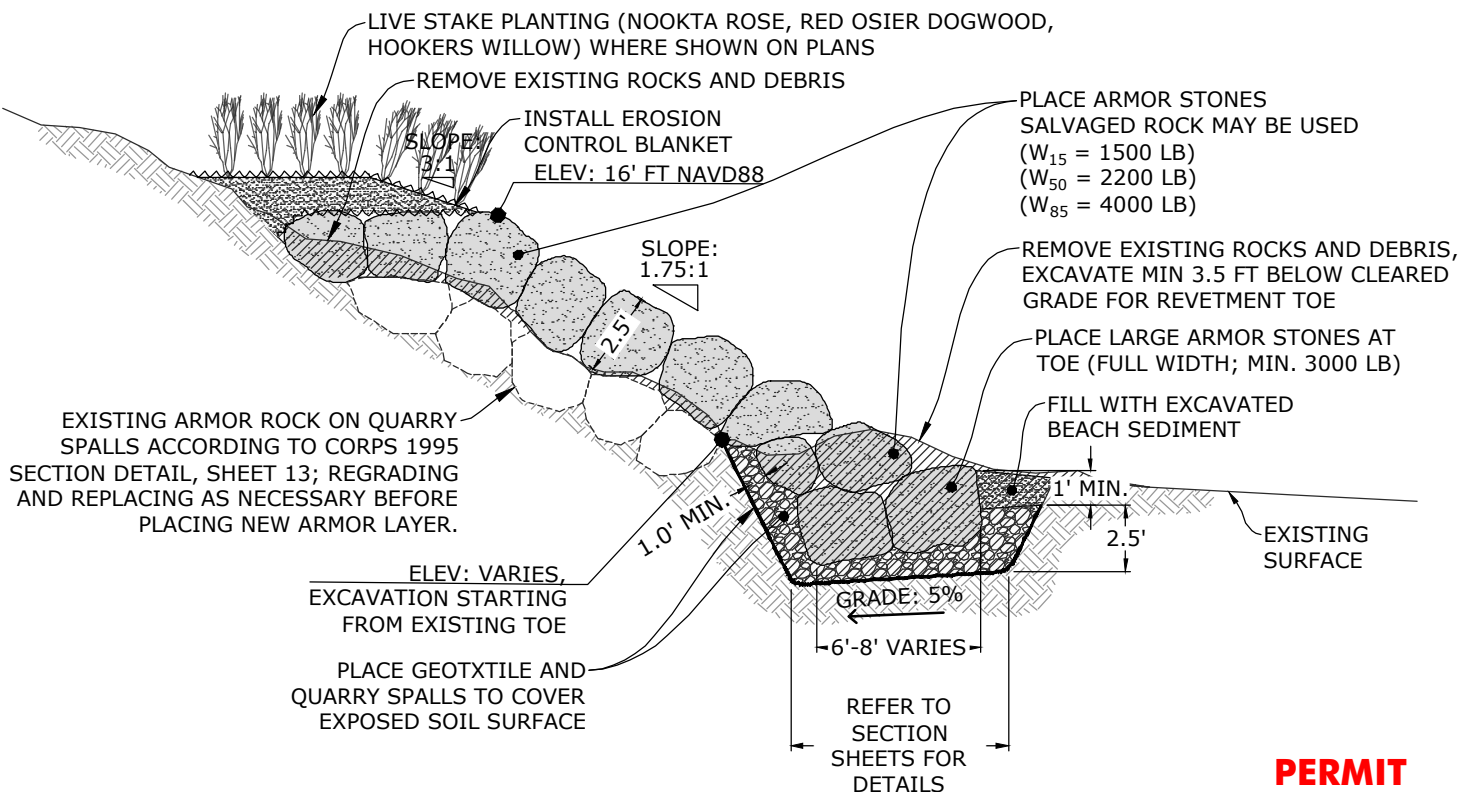
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Elev. MHHW: 7.96 FT  
Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 65 OF: 74

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION



#### ROCK REVETMENT REPLACEMENT DETAIL

NOT TO SCALE



#### ROCK REVETMENT REPAIR DETAIL

NOT TO SCALE

**PERMIT  
DESIGN**

NOT FOR CONSTRUCTION



Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
SECTION 14 (STA 332+50 - STA 358+00)  
PROPOSED CONDITIONS - DETAIL  
DETAILS  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
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Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWANA RD, BELLINGHAM, WA 98226-9291  
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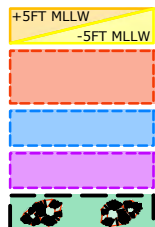
Sheet: 66 OF: 74

# END EFFECTS (STA 369+50 - STA 372+00)

## LEGEND:

| FEATURE                                             | EXISTING  | PROPOSED  |
|-----------------------------------------------------|-----------|-----------|
| CONTOURS, MAJOR                                     | —#—       | —#—       |
| CONTOURS, MINOR                                     | —#—       | —#—       |
| PROPERTY LINE/ROW                                   | — — —     | — — —     |
| MEAN HIGH WATER                                     | ---MHW--- | ---MHW--- |
| MEAN HIGHER HIGH WATER                              | —MHHW—    | —MHHW—    |
| HIGH TIDE LINE                                      | ---HTL--- | ---HTL--- |
| REMOVE DENSE ROCK COVER ON THE BEACH                |           |           |
| NEW ROCK REVETMENT                                  |           |           |
| BACKFILL AND PLANTING SEE SECTION DETAILS           |           |           |
| CLEAR EXISTING ROCK AND TIE-IN NEW REVETMENT TO OLD |           |           |
| FILL WITH LOGS AND SALVAGED BOULDERS                |           |           |

## PERMIT LAND DISTURBANCE QUANTITIES



HAT to +5FT MLLW: 4,656 SF (50%), +5FT to -10FT MLLW: 3,652 SF (50%)  
**CUT:** ABOVE HTL: 0 CY / BELOW HTL: 381 CY  
**AREA:** ABOVE HTL: 3,909 SF / BELOW HTL: 262 SF  
**CUT:** ABOVE HTL: 798 CY / BELOW HTL: 57 CY  
**FILL:** ABOVE HTL: 812 CY / BELOW HTL: 51 CY  
**AREA:** ABOVE HTL: 947 SF / BELOW HTL: 0 SF  
**FILL:** ABOVE HTL: 85 CY / BELOW HTL: 0 CY  
**AREA:** ABOVE HTL: 198 SF / BELOW HTL: 12 SF  
**FILL:** ABOVE HTL: 41 CY / BELOW HTL: 3 CY  
**AREA:** ABOVE HTL: 680 SF / BELOW HTL: 178 SF  
**FILL:** ABOVE HTL: 20 CY / BELOW HTL: 10 CY

## LOCATION MAP:



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
 REVETMENT REPAIR & INSTALLATION  
 END EFFECTS (STA 369+50 - STA 372+00)

## LEGEND

## LEGEND

LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVETMENT REPAIR & INSTALLATION  
 USACE Ref. #: NWS-2024-185  
 IN: BELLINGHAM BAY  
 County: WHATCOM State: WA  
 Application By:  
 INDIAN BUSINESS COUNCIL PUBLIC WORKS  
 2665 KWANA RD, BELLINGHAM, WA 98226-9291  
 Assessors Parcel Numbers:  
 MULTIPLE, SEE PLAN SHEET 68  
 Adjacent Property Owners:  
 MULTIPLE, SEE PLAN SHEET 68

Location: 48.756238 LATITUDE  
 -122.611048 LONGITUDE



DATUM: NAVD88  
 Elev. MLLW: -0.56 FT  
 Elev. MHW: 7.19 FT  
 Elev. MHHW: 7.94 FT  
 Elev. HTL: 9.21 FT  
 Date: 2/11/2025

Sheet: 67 OF: 74

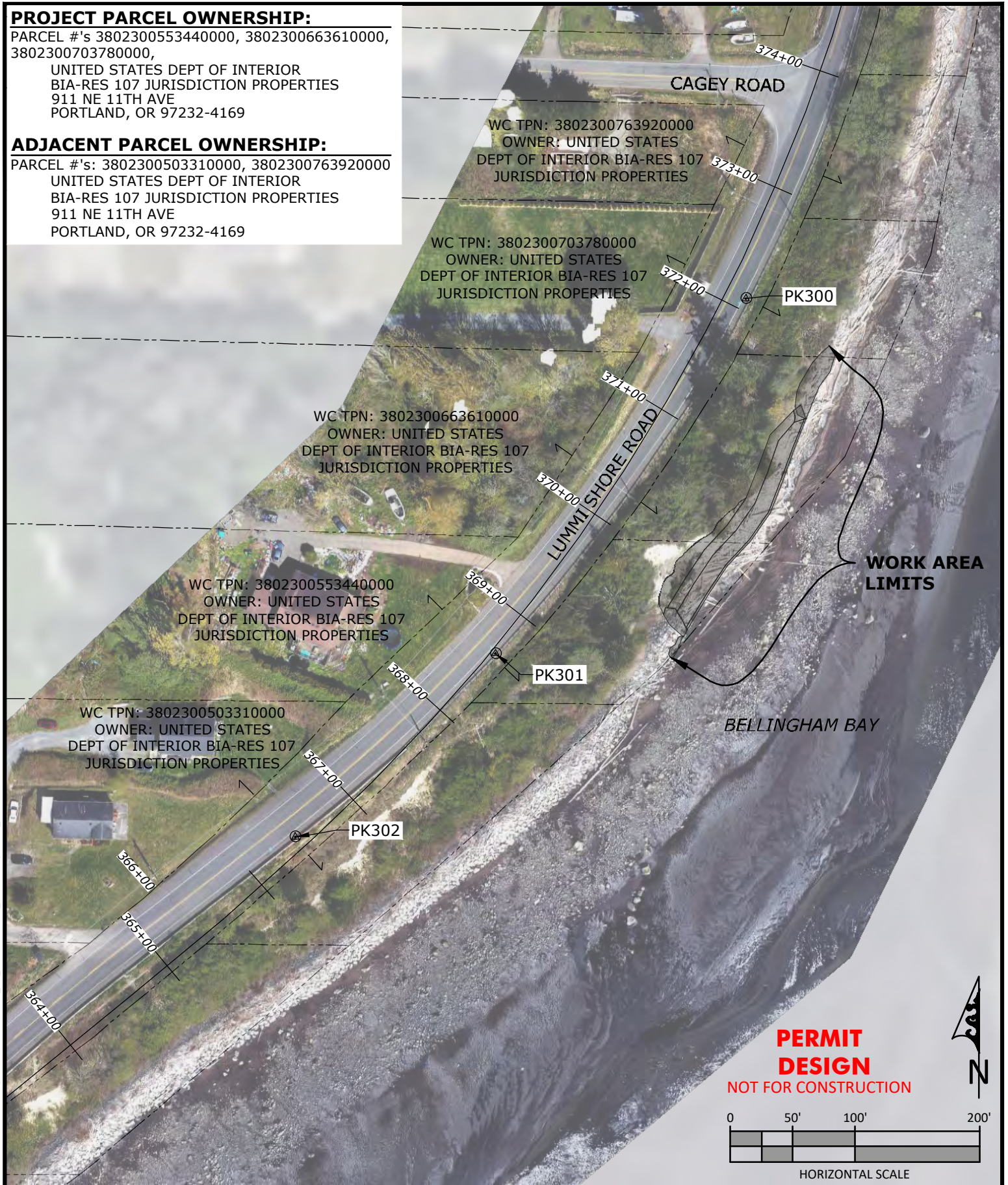
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**PROJECT PARCEL OWNERSHIP:**

PARCEL #'s 3802300553440000, 3802300663610000,  
3802300703780000,  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169

**ADJACENT PARCEL OWNERSHIP:**

PARCEL #'s: 3802300503310000, 3802300763920000  
UNITED STATES DEPT OF INTERIOR  
BIA-RES 107 JURISDICTION PROPERTIES  
911 NE 11TH AVE  
PORTLAND, OR 97232-4169



Natural Systems Design  
+ Coastal Geologic Services

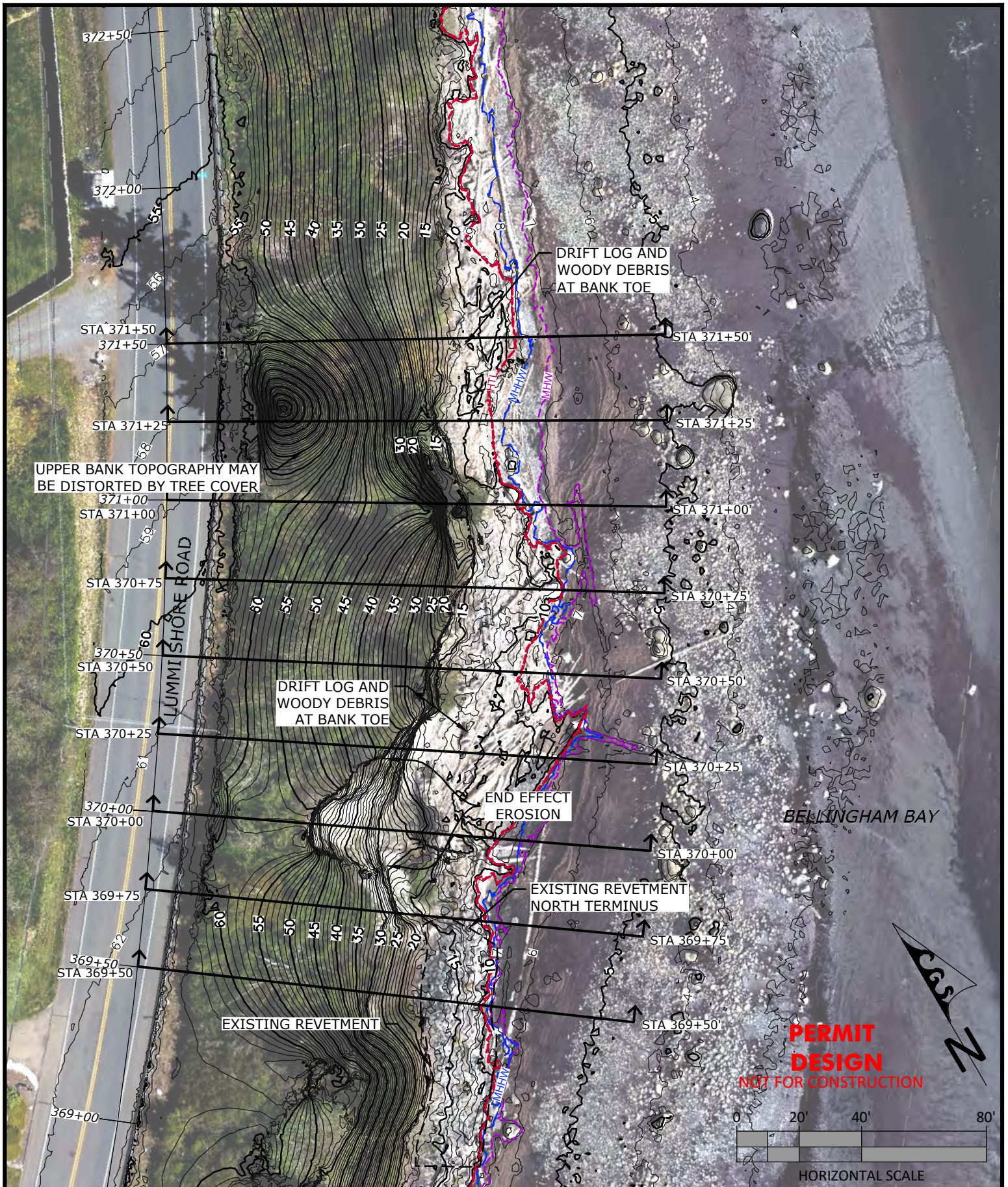
LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
END EFFECTS (STA 369+50 - STA 372+00)  
OVERVIEW

AERIAL PHOTO - PROPERTY MAP - KEY MAP - MOUNMENT MAP  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVTMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
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INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 68 OF: 74

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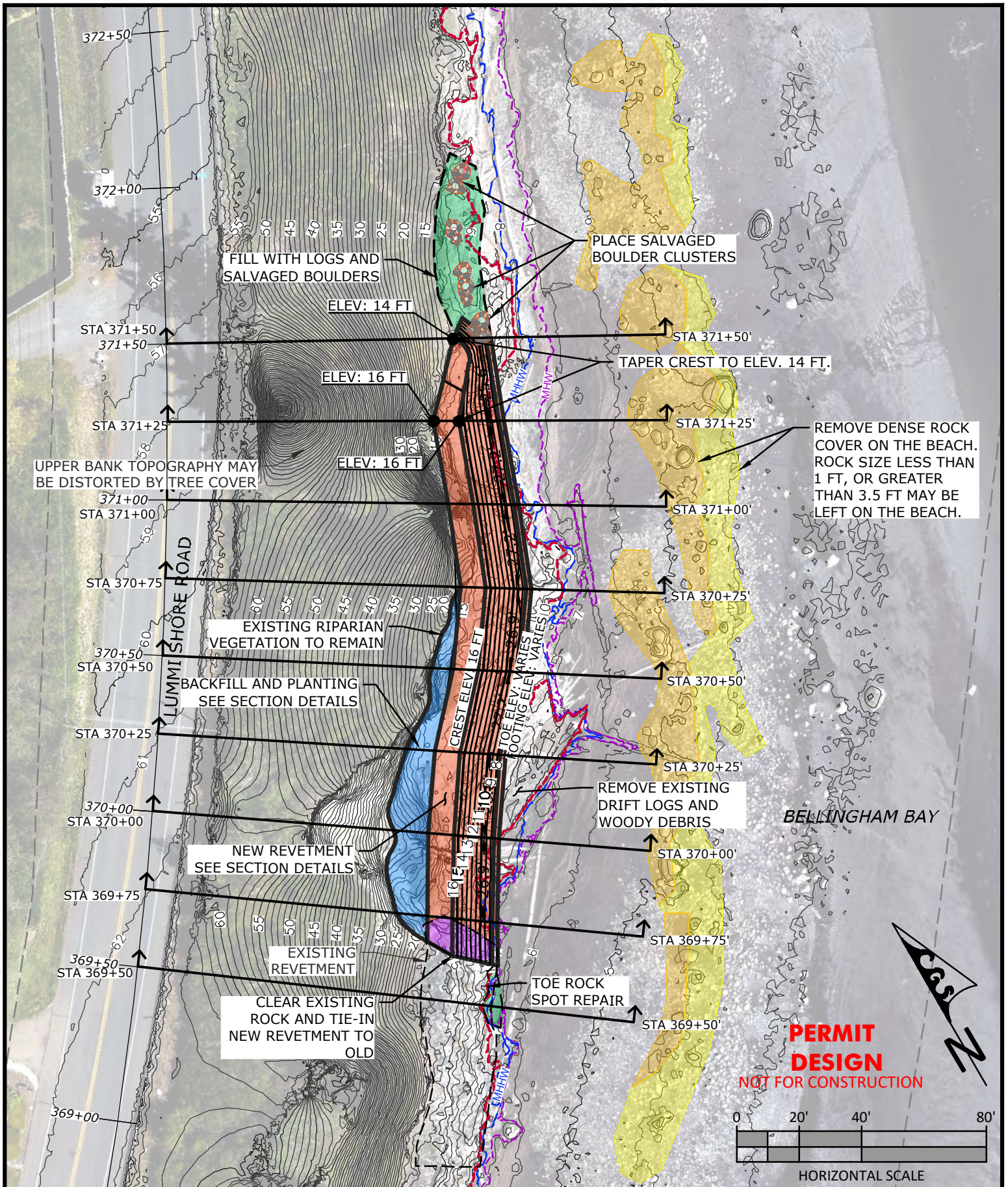


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEMENT REPAIR & INSTALLATION  
END EFFECTS (STA 369+50 - STA 372+00)  
EXISTING CONDITIONS - SITE PLAN  
(STA 369+50 - STA 372+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
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Date: 2/11/2025  
Sheet: 69 OF: 74

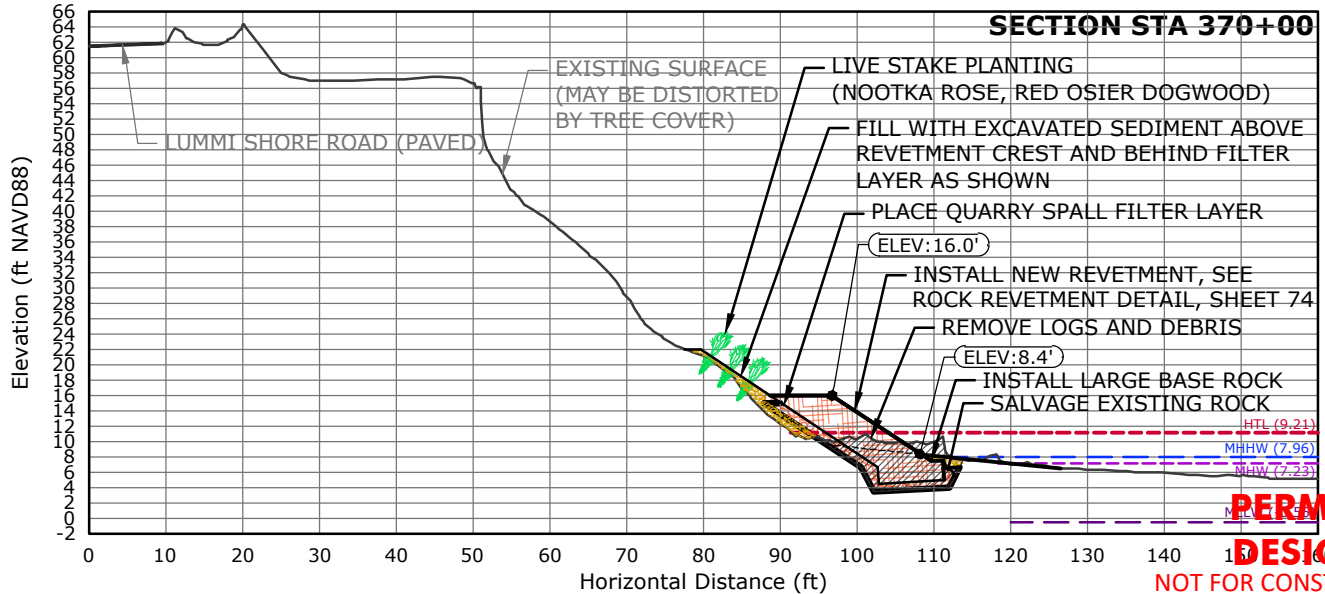
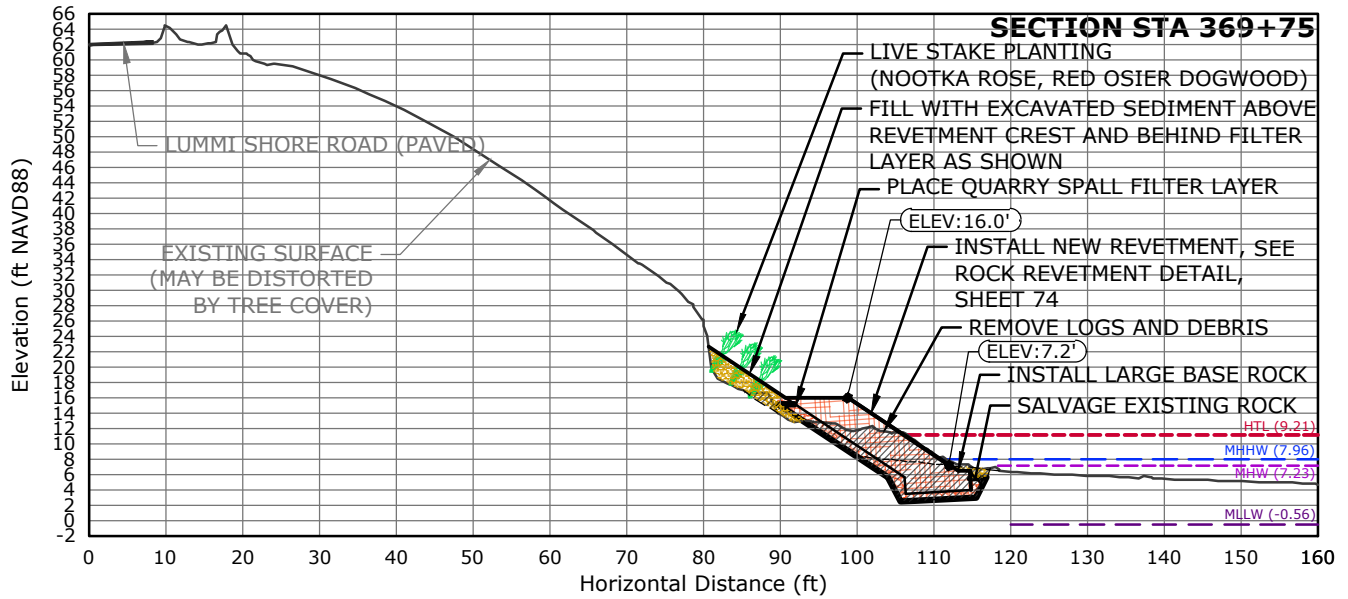
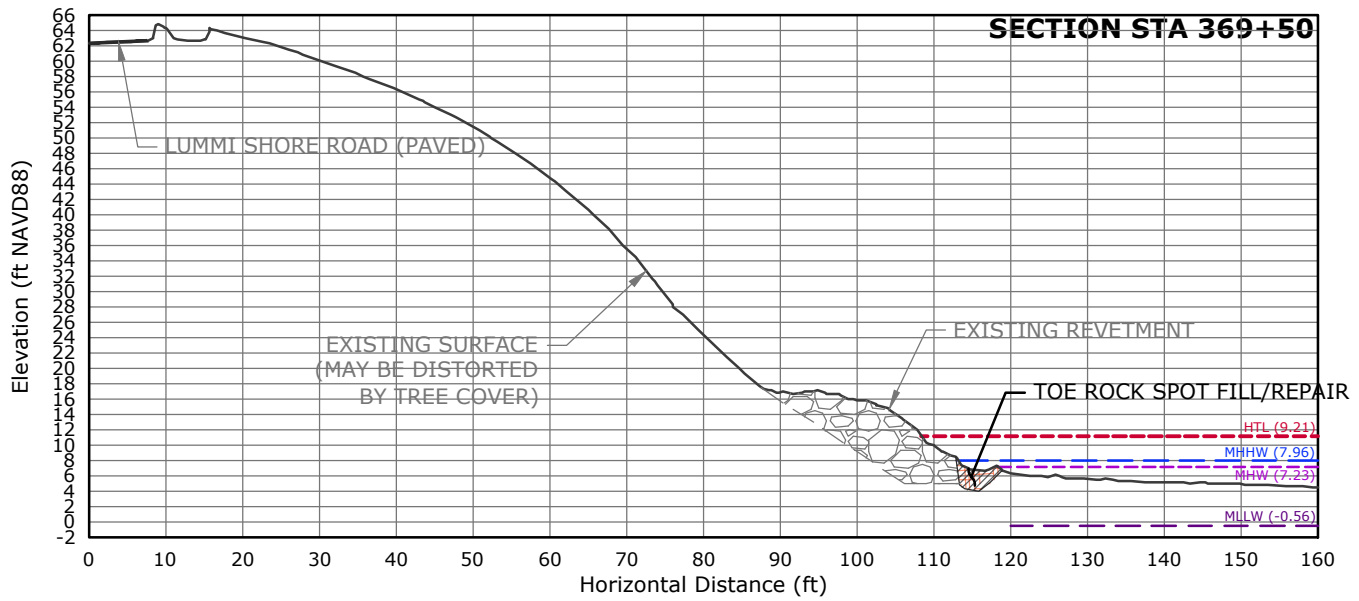
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LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVEITEMENT REPAIR & INSTALLATION  
END EFFECTS (STA 369+50 - STA 372+00)  
**PROPOSED CONDITIONS - SITE PLAN**  
(STA 369+50 - STA 372+00)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

Proposed: REVEITEMENT REPAIR & INSTALLATION  
USACE Ref. #: NWS-2024-185  
IN: BELLINGHAM BAY  
County: WHATCOM State: WA  
Application By:  
INDIAN BUSINESS COUNCIL PUBLIC WORKS  
2665 KWINA RD, BELLINGHAM, WA 98226-9291  
Assessors Parcel Numbers:  
MULTIPLE, SEE PLAN SHEET 68  
Adjacent Property Owners:  
MULTIPLE, SEE PLAN SHEET 68

Location: 48.756238 LATITUDE  
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Elev. HTL: 9.21 FT  
Date: 2/11/2025  
Sheet: 70 OF: 74



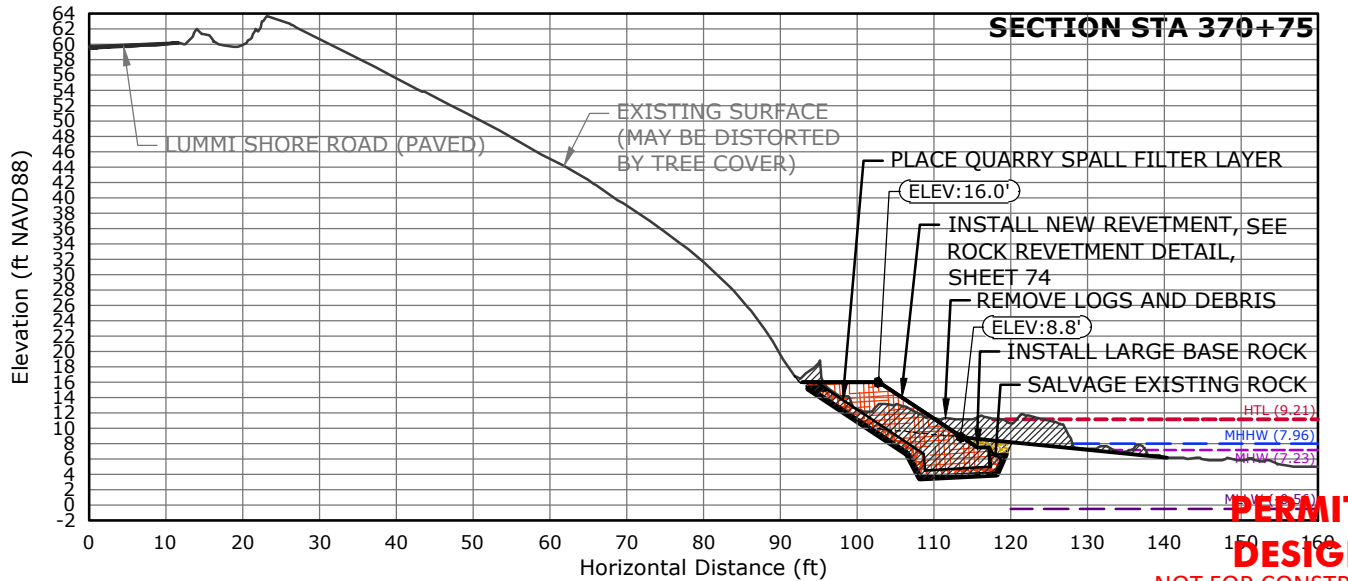
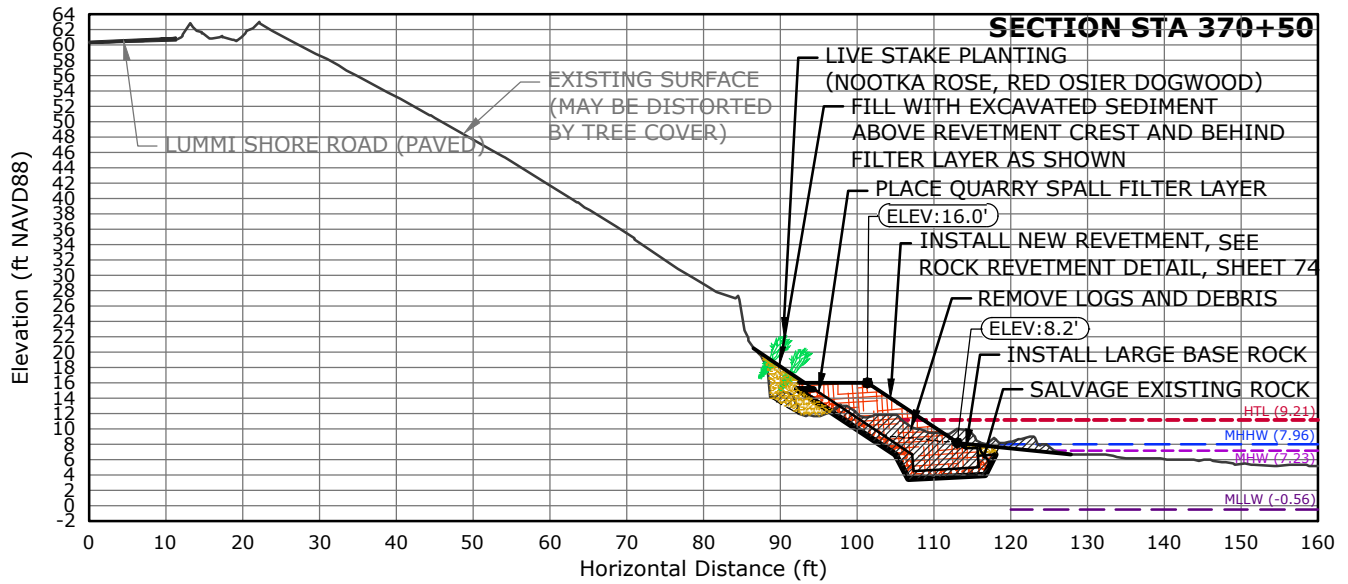
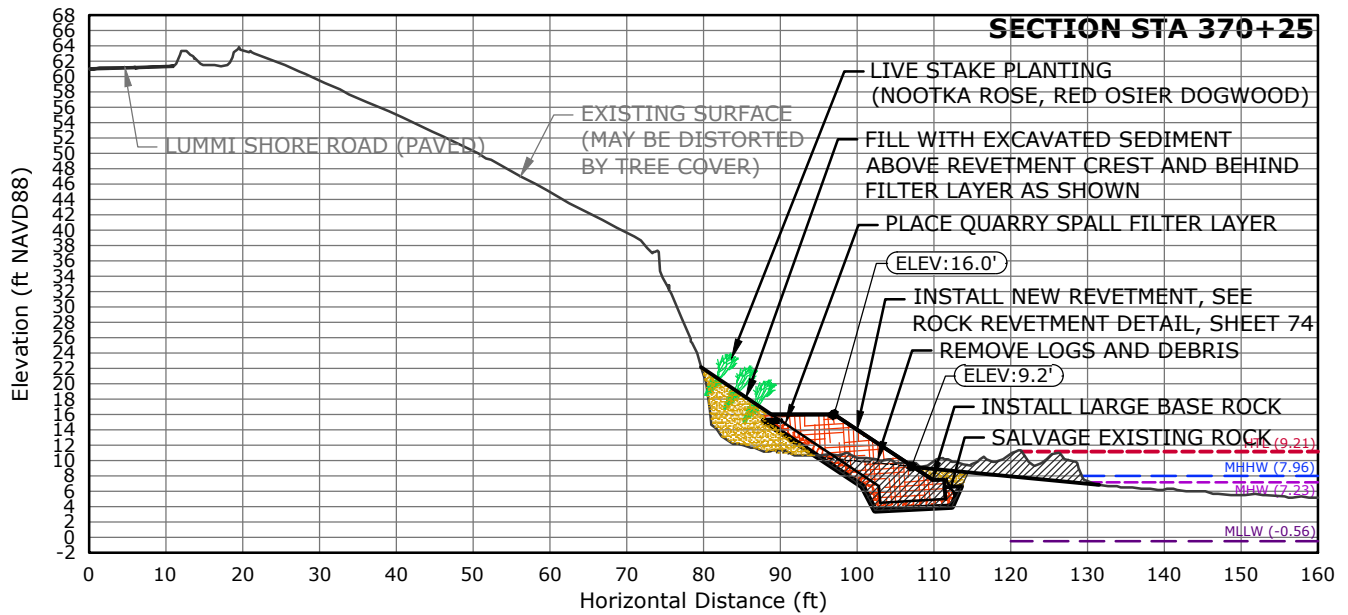
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DESIGN  
NOT FOR CONSTRUCTION



LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
 REVETMENT REPAIR & INSTALLATION  
 END EFFECTS (STA 369+50 - STA 372+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
 (STA 369+50 - STA 370+00)  
 LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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 2665 KWINA RD, BELLINGHAM, WA 98226-9291  
 Assessors Parcel Numbers:  
 MULTIPLE, SEE PLAN SHEET 68  
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Location: 48.756238 LATITUDE  
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 Date: 2/11/2025  
 Sheet: 71 OF: 74



**PERMIT  
DESIGN**

**NOT FOR CONSTRUCTION**

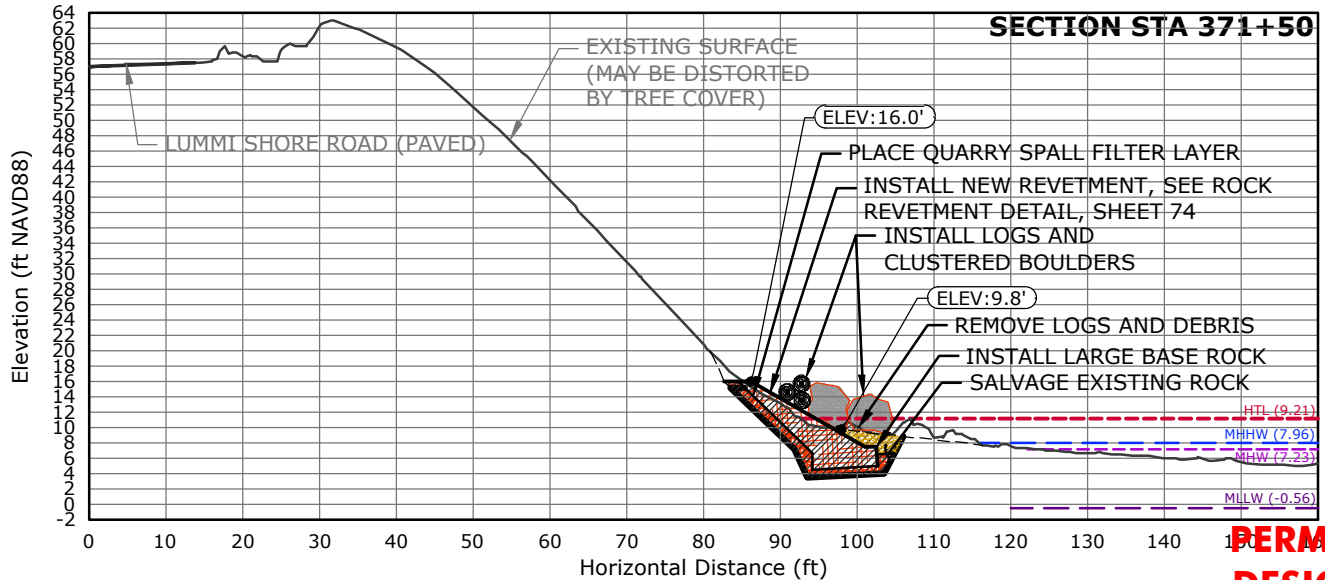
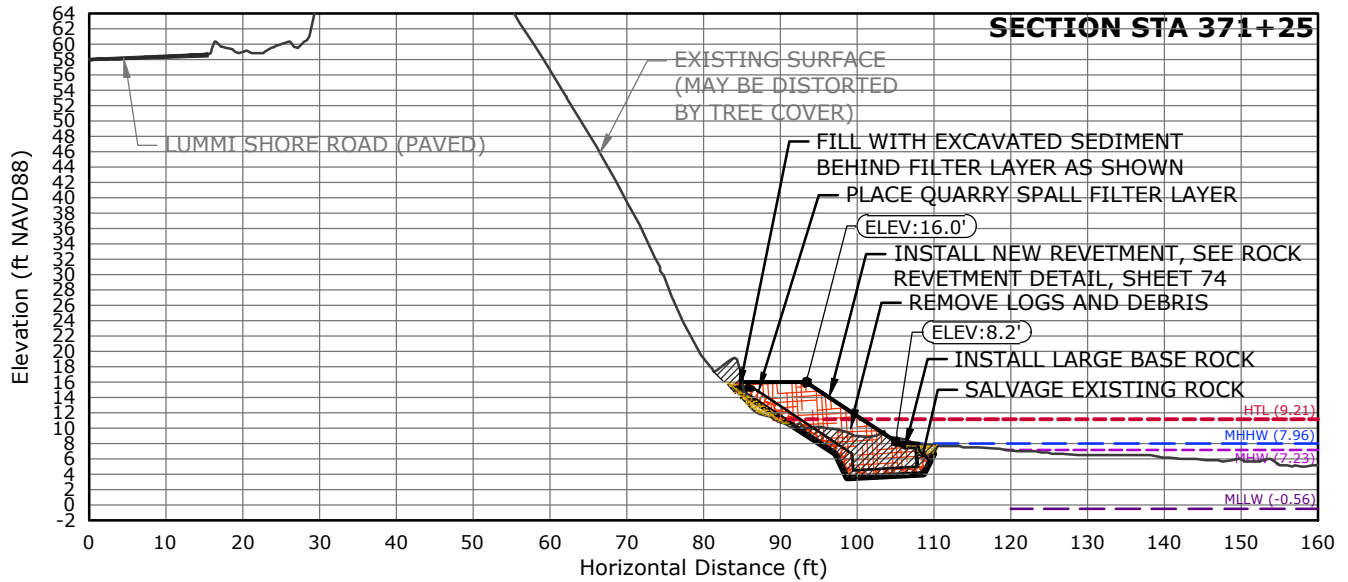
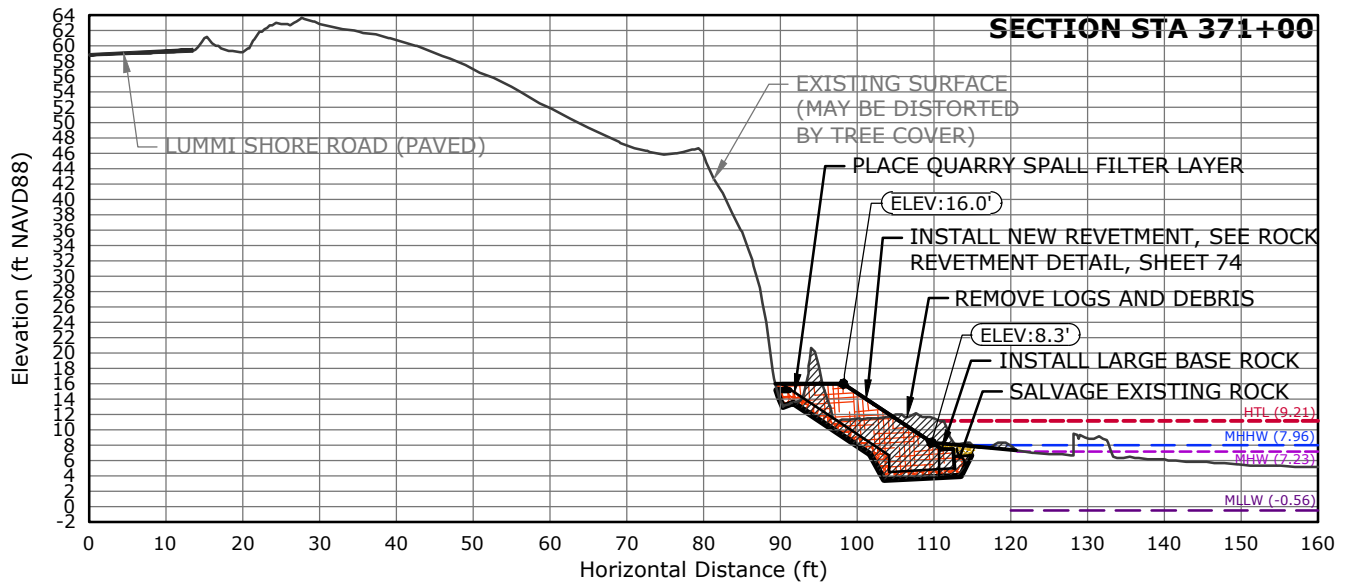


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
 REVETMENT REPAIR & INSTALLATION  
 END EFFECTS (STA 369+50 - STA 372+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
 (STA 370+25 - STA 370+75)  
 LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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 Sheet: 72 OF: 74





**PERMIT  
DESIGN  
NOT FOR CONSTRUCTION**

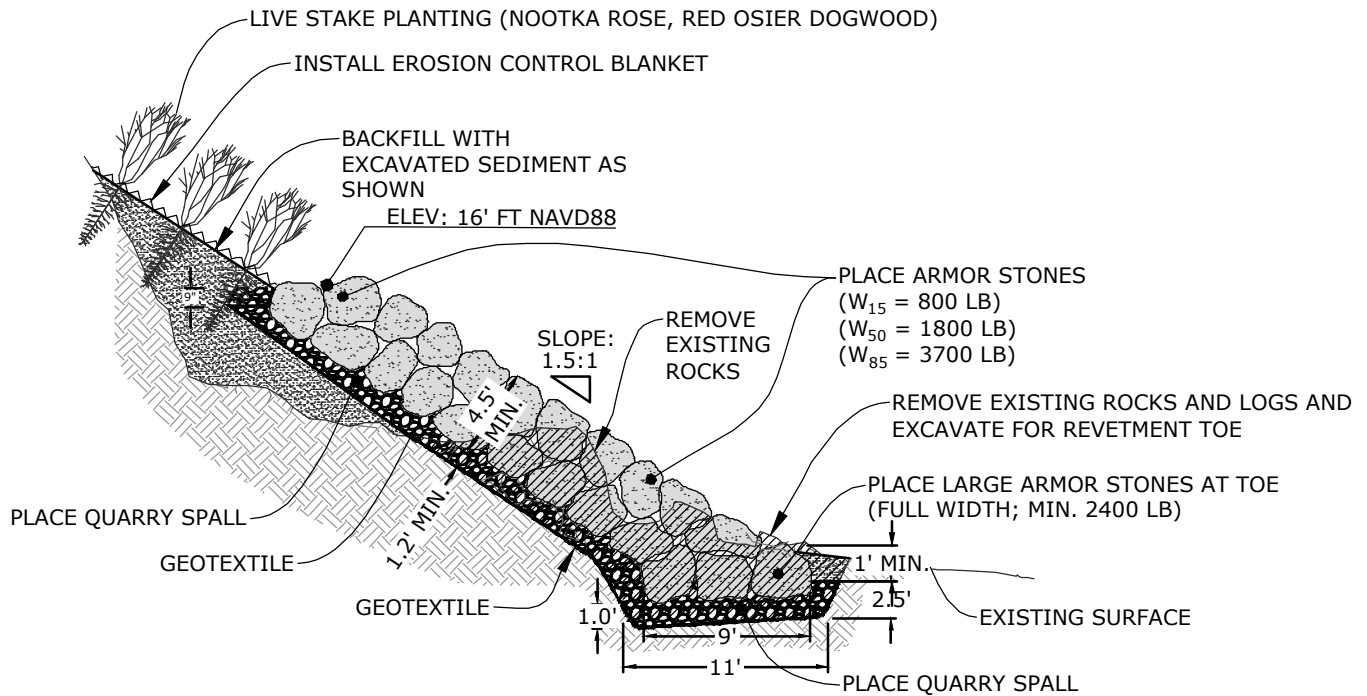


LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVETMENT REPAIR & INSTALLATION  
END EFFECTS (STA 369+50 - STA 372+00)  
**PROPOSED CONDITIONS - CROSS SECTIONS**  
(STA 371+25 - STA 371+50)  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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Date: 2/11/2025  
Sheet: 73 OF: 74





**ROCK REVETMENT DETAIL**  
NOT TO SCALE

**PERMIT  
DESIGN**  
NOT FOR CONSTRUCTION

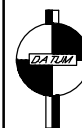


Natural Systems Design  
+ Coastal Geologic Services

LUMMI VIEW DRIVE - LUMMI SHORE ROAD  
REVTMENT REPAIR & INSTALLATION  
END EFFECTS (STA 369+50 - STA 372+00)  
**PROPOSED CONDITIONS - DETAIL**  
DETAIL  
LUMMI INDIAN BUSINESS COUNCIL PUBLIC WORKS

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Sheet: 74 OF: 74