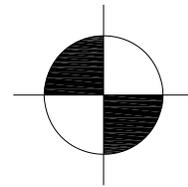


VICINITY MAP

LAT 47.22304 N , LONG -122.67582 W
PIERCE COUNTY

SECTION 15 & 16, TOWNSHIP 20 NORTH, RANGE 1 EAST W.M.



DIRECTIONS TO SITE

LEFT (WEST) FROM FERRY DOCK, RIGHT ALONG FENCE WEST OF THE YARD, CROSS N10TH AVENUE. GO 1.1 MILES ON STILL HARBOR ROAD THEN RIGHT ON COASTAL ROAD 1.1 MILES.

VERTICAL DATUM
ASSUMED

PURPOSE: FISH PASSAGE AND HABITAT RESTORATION DATUM: ASSUMED ADJACENT LANDOWNERS: WA DNR WA DSHS	SITE ID 981770 MCNEIL ISLAND MILEWA CREEK <hr style="width: 50%; margin: auto;"/> COVER	IN: MILEWA CREEK TRIBUTARY TO PUGET SOUND NEAR: MCNEIL ISLAND, WASHINGTON COUNTY OF: PIERCE STATE: WASHINGTON APPLICATION BY: WASHINGTON DEPT. FISH & WILDLIFE SHEET 1 OF 7 600 CAPITOL WAY N DATE: 10-18-19 OLYMPIA, WA 98501
---	--	--

SHEET NO.

1. COVER SHEET
2. SHEET INDEX
3. PLAN VIEW
4. STREAM PROFILE
5. STREAM SECTION
6. DETAILS
7. MATERIAL QUANTITIES

PROJECT PARTNERS

WASHINGTON DEPARTMENT
FISH & WILDLIFE

WASHINGTON DEPARTMENT
OF NATURAL RESOURCES

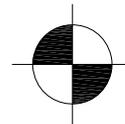
WASHINGTON DEPARTMENT
OF CORRECTIONS

LANDOWNER REPRESENTATIVE

DARRIC LOWERY, WILDLIFE AREA MANAGER
WASHINGTON DEPARTMENT FISH & WILDLIFE

PROJECT CONTROL POINTS

<u>TBM TABLE</u> <u>Description</u>	<u>Easting</u>	<u>Northing</u>	<u>Elevation</u>
1. CP #1 HUB M-1	8000.00'	10000.00'	23.11'
2. CP #4 HUB M-4	82534.72'	86995.44'	24.54'



VERTICAL DATUM
ASSUMED

PURPOSE: FISH PASSAGE AND
HABITAT RESTORATION

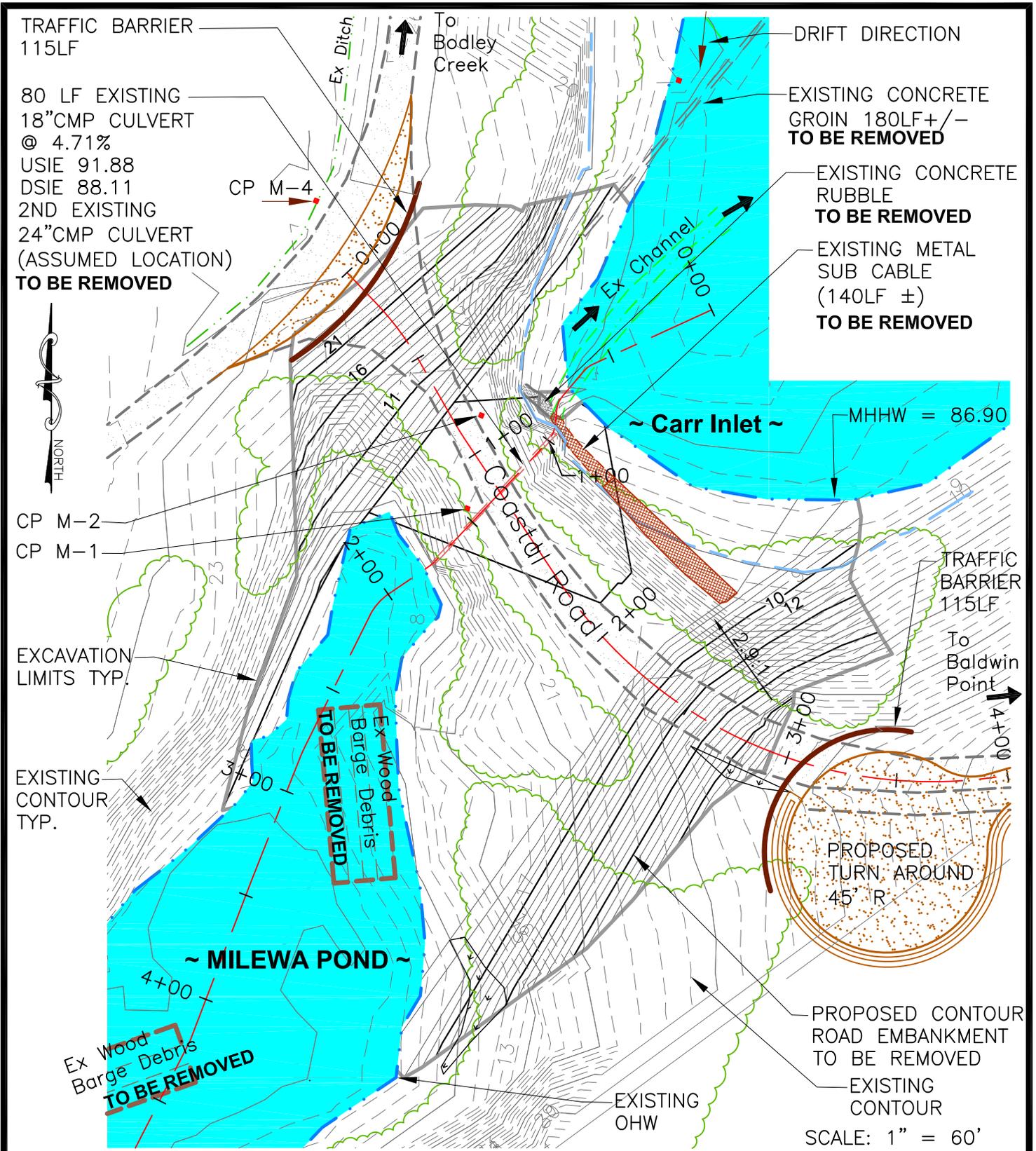
DATUM: ASSUMED

ADJACENT
LANDOWNERS: WA DNR
WA DSHS

SITE ID 981770
MCNEIL ISLAND
MILEWA CREEK

SHEET INDEX

IN: MILEWA CREEK
TRIBUTARY TO PUGET SOUND
NEAR: MCNEIL ISLAND, WASHINGTON
COUNTY OF: PIERCE STATE: WASHINGTON
APPLICATION BY: WASHINGTON DEPT.
FISH & WILDLIFE
SHEET 2 OF 7 600 CAPITOL WAY N
DATE: 10-18-19 OLYMPIA, WA 98501



PURPOSE: FISH PASSAGE AND HABITAT RESTORATION

DATUM: ASSUMED

ADJACENT LANDOWNERS: WA DNR
WA DSHS

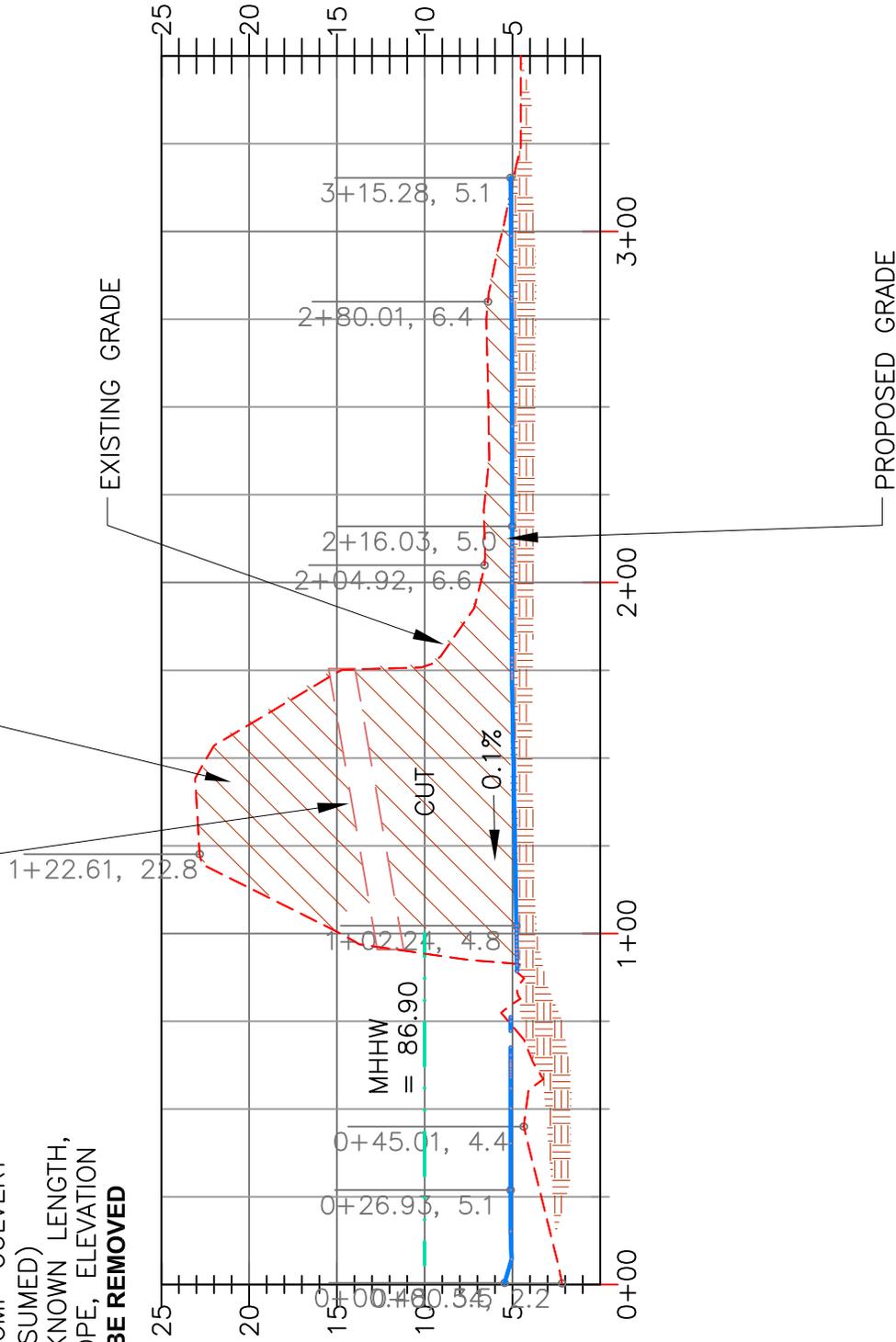
SITE ID 981770
MCNEIL ISLAND
MILEWA CREEK

PLAN VIEW

IN: MILEWA CREEK
TRIBUTARY TO PUGET SOUND
NEAR: MCNEIL ISLAND, WASHINGTON
COUNTY OF: PIERCE STATE: WASHINGTON
APPLICATION BY: WASHINGTON DEPT. FISH & WILDLIFE
600 CAPITOL WAY N
OLYMPIA, WA 98501

EXISTING 80 LF 18" CMP CULVERT
 S = 4.71%
 US IE. 91.88
 DS IE. 88.11
TO BE REMOVED
 2ND EXISTING
 24" CMP CULVERT
 (ASSUMED)
 UNKNOWN LENGTH,
 SLOPE, ELEVATION
TO BE REMOVED

ROAD EMBANKMENT
 TO BE REMOVED
 SEE QUANTITIES SHEET 7



STREAM PROFILE

SCALE: 1" = 50' HORIZ., 1" = 10' VERT.

PURPOSE: FISH PASSAGE AND HABITAT RESTORATION
 DATUM: ASSUMED
 ADJACENT LANDOWNERS: WA DNR
 WA DSHS

SITE ID 981770
 MCNEIL ISLAND
 MILEWA CREEK
 STREAM PROFILE

IN: MILEWA CREEK
 TRIBUTARY TO PUGET SOUND
 NEAR: MCNEIL ISLAND, WASHINGTON
 COUNTY OF: PIERCE STATE: WASHINGTON
 APPLICATION BY: WASHINGTON DEPT. FISH & WILDLIFE
 SHEET 4 OF 9 600 CAPITOL WAY N
 DATE: 10-18-19 OLYMPIA, WA 98501

EXISTING GRADE

SLOPES TO BE PLANTED WITH COMBINATION OF TREES, BRUSH, GRASSES, AND GROUND COVER.

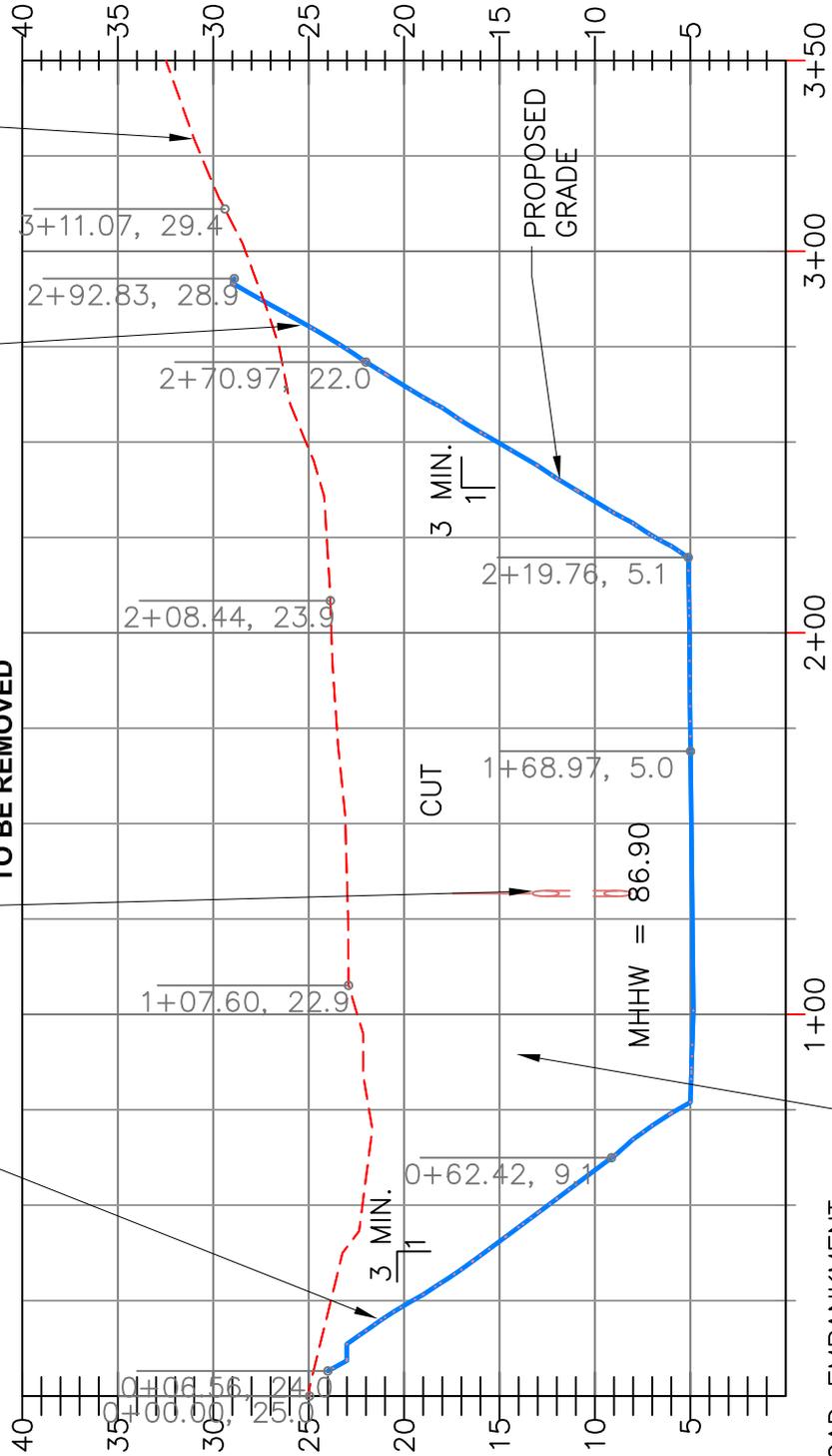
EXISTING 18" CMP CULVERT

S = 4.71%
US IE. 91.88
DS IE. 88.11

TO BE REMOVED

2ND EXISTING 24" CMP CULVERT

(ASSUMED)
UNKNOWN LENGTH,
SLOPE, ELEVATION
TO BE REMOVED



ROAD EMBANKMENT TO BE REMOVED
SEE QUANTITIES SHEET 7

STREAM SECTION

SCALE: 1" = 20' HORIZ., 1" = 5' VERT.

PURPOSE: FISH PASSAGE AND HABITAT RESTORATION

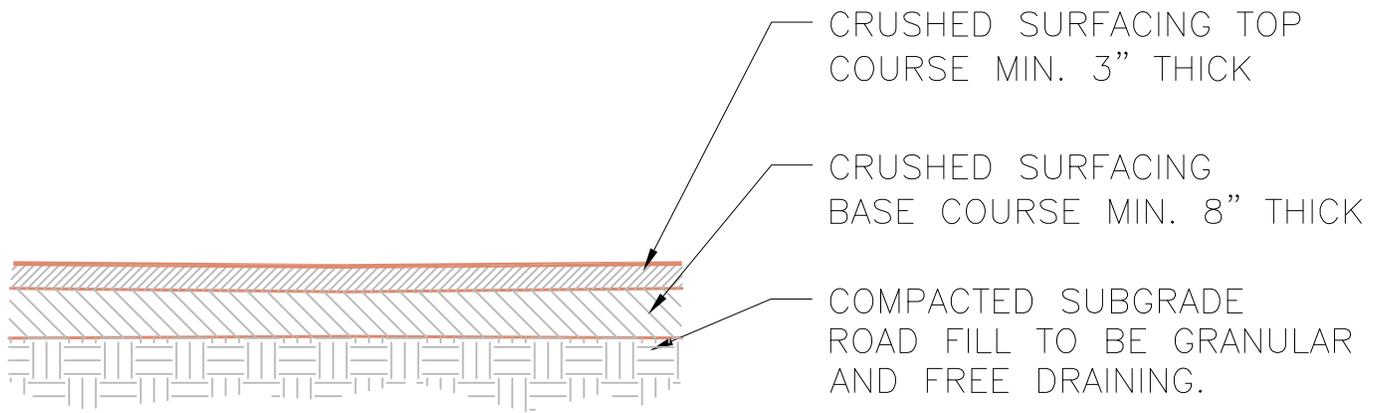
DATUM: ASSUMED

ADJACENT LANDOWNERS: WA DNR
WA DSHS

SITE ID 981770
MCNEIL ISLAND
MILEWA CREEK

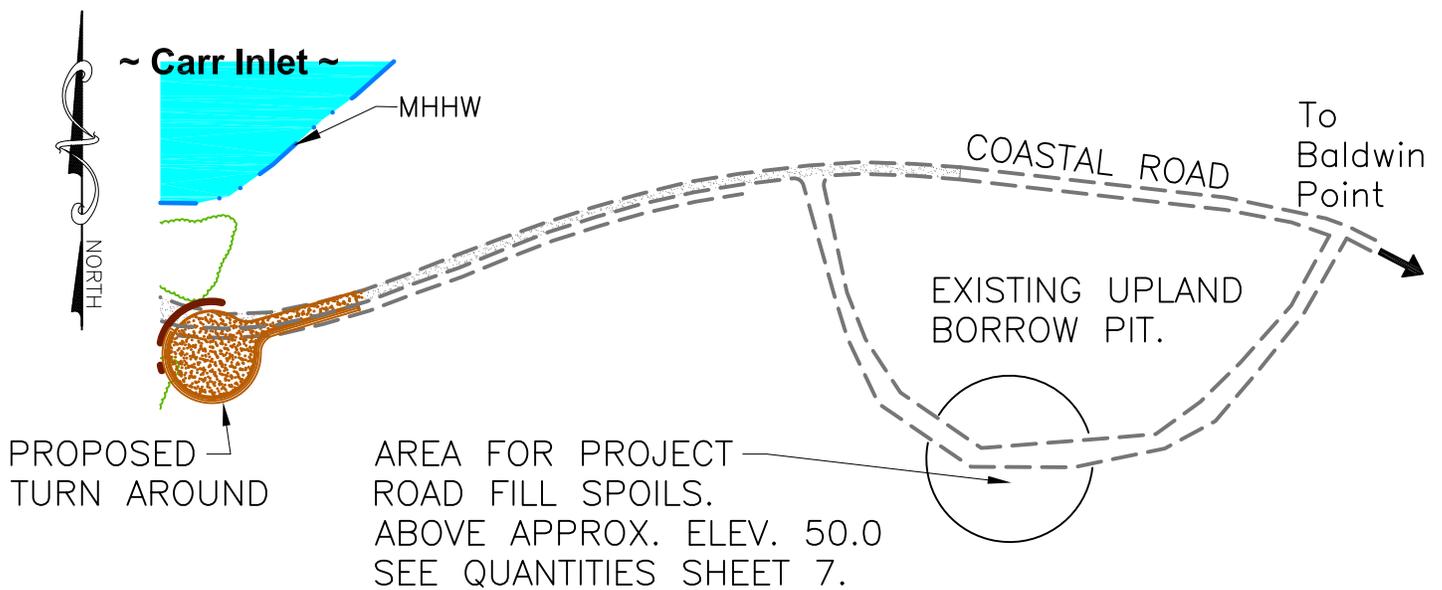
SECTION

IN: MILEWA CREEK
TRIBUTARY TO PUGET SOUND
NEAR: MCNEIL ISLAND, WASHINGTON
COUNTY OF: PIERCE STATE: WASHINGTON
APPLICATION BY: WASHINGTON DEPT. FISH & WILDLIFE
SHEET 5 OF 7 600 CAPITOL WAY N
DATE: 10-18-19 OLYMPIA, WA 98501



TURN AROUND AND PULL OUT SECTION

N.T.S.



AREA FOR EXCAVATED SPOILS PLACEMENT

1" = 200'

<p>PURPOSE: FISH PASSAGE AND HABITAT RESTORATION</p> <p>DATUM: ASSUMED</p> <p>ADJACENT LANDOWNERS: WA DNR WA DSHS</p>	<p>SITE ID 981770 MCNEIL ISLAND MILEWA CREEK</p> <hr/> <p>DETAIL</p>	<p>IN: MILEWA CREEK TRIBUTARY TO PUGET SOUND NEAR: MCNEIL ISLAND, WASHINGTON COUNTY OF: PIERCE STATE: WASHINGTON APPLICATION BY: WASHINGTON DEPT. FISH & WILDLIFE SHEET 6 OF 7 600 CAPITOL WAY N DATE: 10-18-19 OLYMPIA, WA 98501</p>
---	--	---

MATERIAL QUANTITIES

ALL QUANTITIES SHOWN IN CUBIC YARDS

* ALL CUT TO BE REMOVED FROM EXISTING ROAD EMBANKMENT

EXCAVATION

CUT BELOW MHHW = 15,017 C.Y.
FILL BELOW OHW = 0 C.Y.

EXCAVATION

TOTAL CUT = 18,168 C.Y.
RELIC BARGES = 2 EA.
SUBMARINE CABLE = 140 LF+/-
CONCRETE GROIN W/ DRAIN PIPE = 200 LF+/-

DISTURBED AREA

AREA SHOWN IN ACRES

EXCAVATION 1.29 ACRES

ALL GRAVEL FROM ROAD AND CUT TO BE DISPOSED OF ON ISLAND.
ROAD GRAVEL TO BE SALVAGED AND REUSED FOR ROAD
MAINTENANCE, CUT MATERIALS TO BE PLACED IN RELIC BORROW PIT
APPROXIMATELY 800' WEST (PRESUMED HISTORIC ROAD FILL
SOURCE).

PURPOSE: FISH PASSAGE AND
HABITAT RESTORATION

DATUM: ASSUMED

ADJACENT
LANDOWNERS: WA DNR
WA DSHS

SITE ID 981770
MCNEIL ISLAND
MILEWA CREEK

MATERIAL
QUANTITIES

IN: MILEWA CREEK
TRIBUTARY TO PUGET SOUND
NEAR: MCNEIL ISLAND, WASHINGTON
COUNTY OF: PIERCE STATE: WASHINGTON
APPLICATION BY: WASHINGTON DEPT.
FISH & WILDLIFE
SHEET 7 OF 7 600 CAPITOL WAY N
DATE: 10-18-19 OLYMPIA, WA 98501