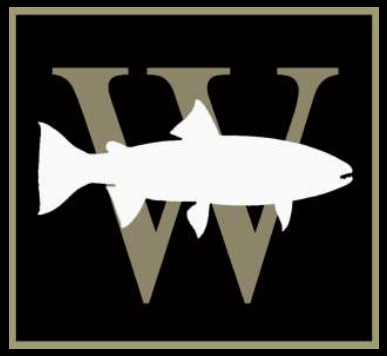


Wild Fish Conservancy

NORTHWEST

Jamie Glasgow, Director of Science

Finn Creek Restoration Project

PROJECT GOAL

Restore natural watershed / estuarine / nearshore processes in a N. Kitsap watershed with excellent public outreach opportunities

Finn Creek Restoration Project

Phase I: OBJECTIVES (completed)

Identify constraints

Develop and evaluate restoration alternatives

Recommend approach

Finn Creek Restoration Project

Phase II: OBJECTIVES

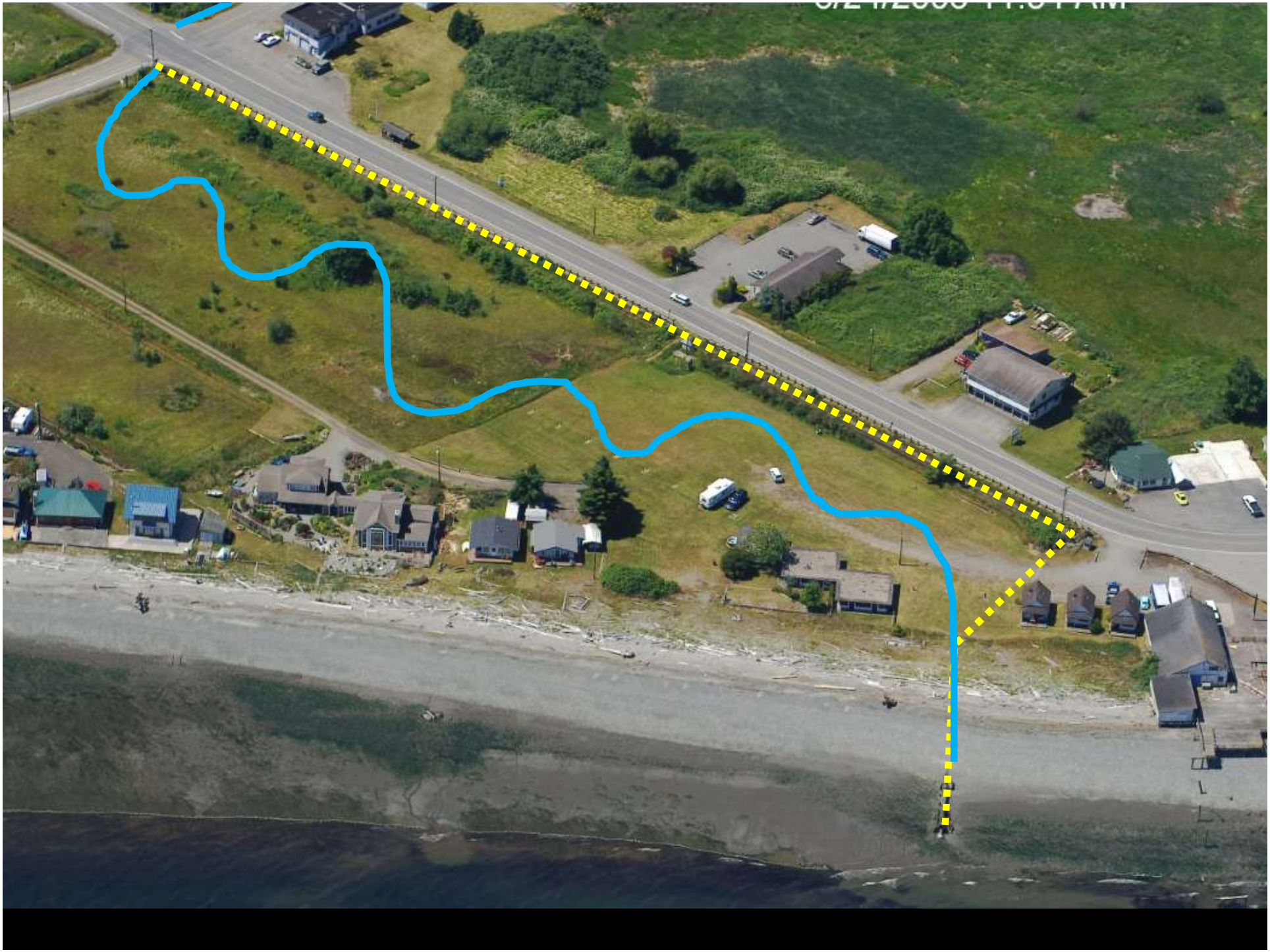
Address remaining data gaps

Final designs and permits

Acquisition purchase or option agreement

Shovel-ready for next phase

HO REVIEW DR NE
HANSVILLE RD NE
POINT NO POINT RD
HANSVILLE DR NE
NE HUNT CLUB LN
NE IDLENOT LN
NE BUCK LAKE RD
AT 18.1
AT 18
NE BUCK LAKE RD
BAKER LN
HANSVILLE RD NE
HANSVILLE DR NE



300 foot long failing culvert and tide gate

300 foot long failing culvert and tide gate

900 foot long
ditched channel
along Hansville Rd.

Specific project **DESIGN** elements include:

1. Remove the full barrier culvert / tide gate at the stream mouth, restoring fish access to almost two miles of habitat and addressing longshore sediment obstruction on the beach;
2. Restore saltmarsh/tidal estuary at the stream mouth;
3. Improve stream + estuarine habitat through Norwegian Point County Park – add sinuosity, large woody debris, and a native riparian corridor;
4. Enhance public experience at Norwegian Point County Park: habitat restoration interpretive trail;
5. Complement adjacent Park / Hansville features

Aquatic Lands Enhancement Acct

WASHINGTON STATE Recreation and Conservation Office

Project Snapshot
PRISM Project #04-1484 (Completed)

Norwegian Point Acquisition Phase 1

Project Details

Kitsap County Parks and Rec; Norwegian Point Acquisition Phase 1 (#04-1484) Attachment #176201, Inspection Pic 2013 - Beach

Project Status: Closed Completed since 01/27/2009

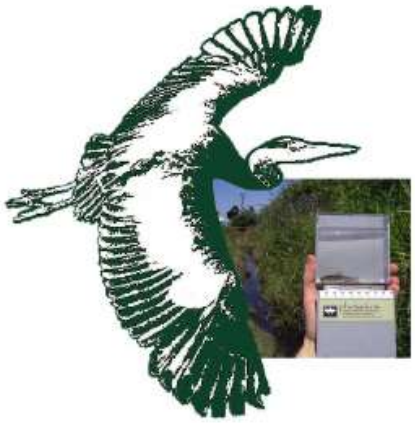
Project Type: Acquisition
Project Sponsor: Kitsap County Parks and Recreation
Funding Board: Recreation and Conservation Funding Board

Funding

Aquatic Lands Enhancement Acct:	$530,424
Total RCO Grant:	$530,424 (47%)
Sponsor Match:	$601,456 (53%)
Total Agreement:	$1,131,879 (100%)

Links

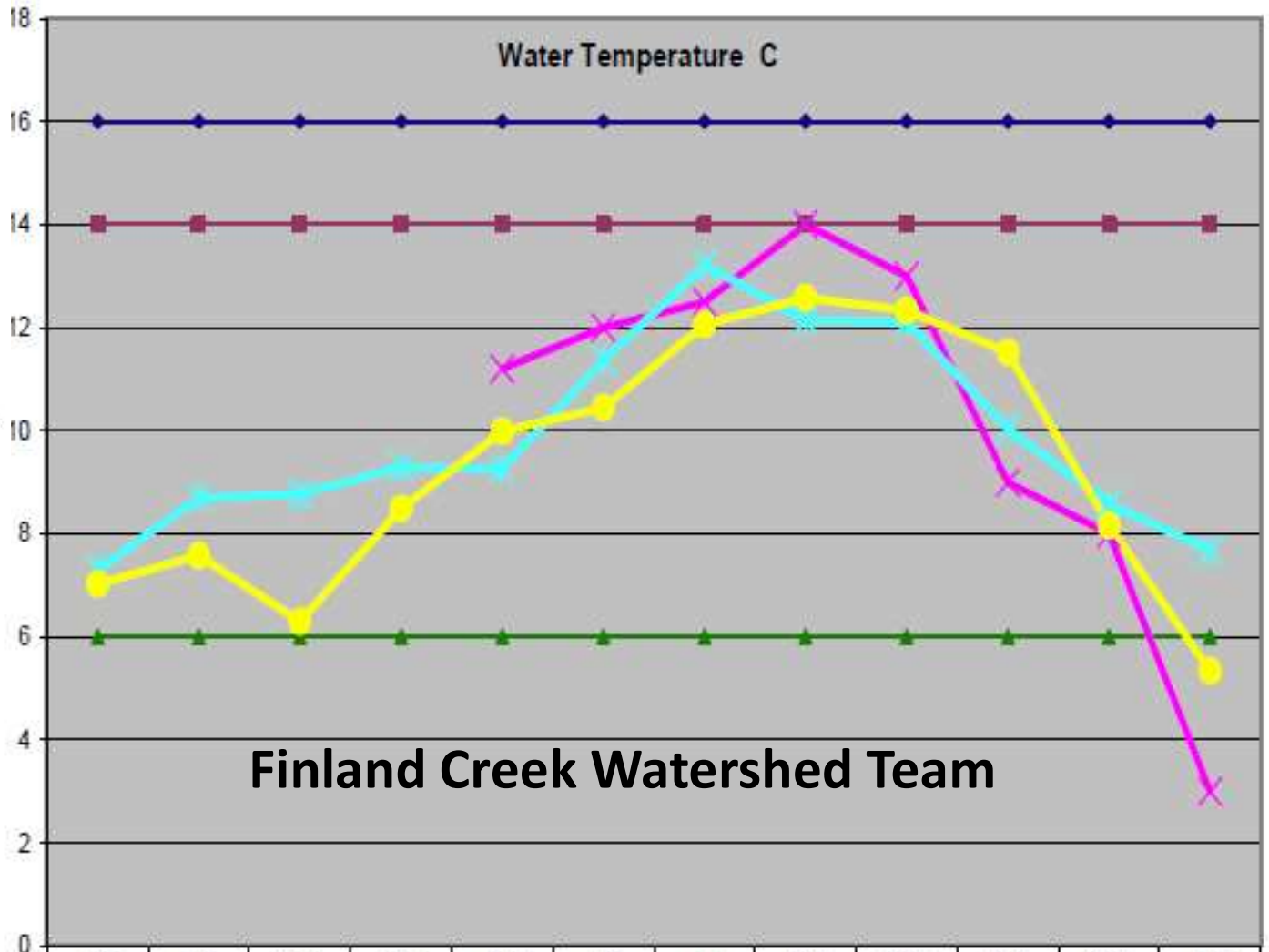
"…The stream and wetlands on this site would also be restored to enhance their habitat value."



Finland Creek Stream monitoring Program
2011
Annual report

SSWM

HANSVILLE GREENWAY



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
State Standard high	16	16	16	16	16	16	16	16	16	16	16	16
Expected high value	14	14	14	14	14	14	14	14	14	14	14	14
Expected low value	6	6	6	6	6	6	6	6	6	6	6	6
2009					11.2	12	12.5	14	13	9	8	3
2010	7.3	8.7	8.76	9.3	9.26	11.36	13.22	12.14	12.1	10.03	8.59	7.67
2011	7.02	7.58	6.3	8.49	9.99	10.45	12.06	12.58	12.33	11.52	8.16	5.34

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photarium
a product of Wild Fish Conservancy
for information: 425/788-1167
photarium@wildfishconservancy.org

FINN CREEK RESTORATION DESIGN PROJECT

TECHNICAL REPORT

Prepared for:

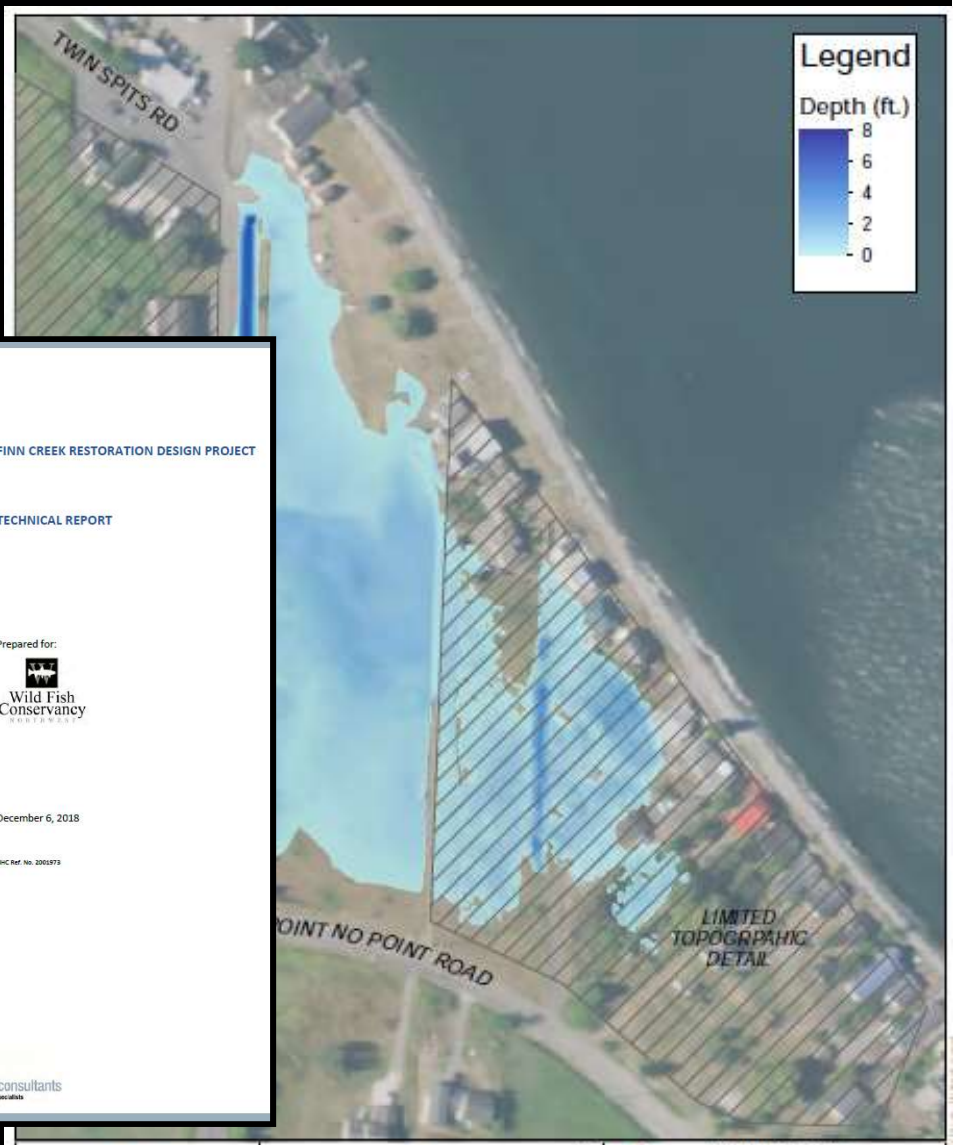
Wild Fish Conservancy

December 6, 2018

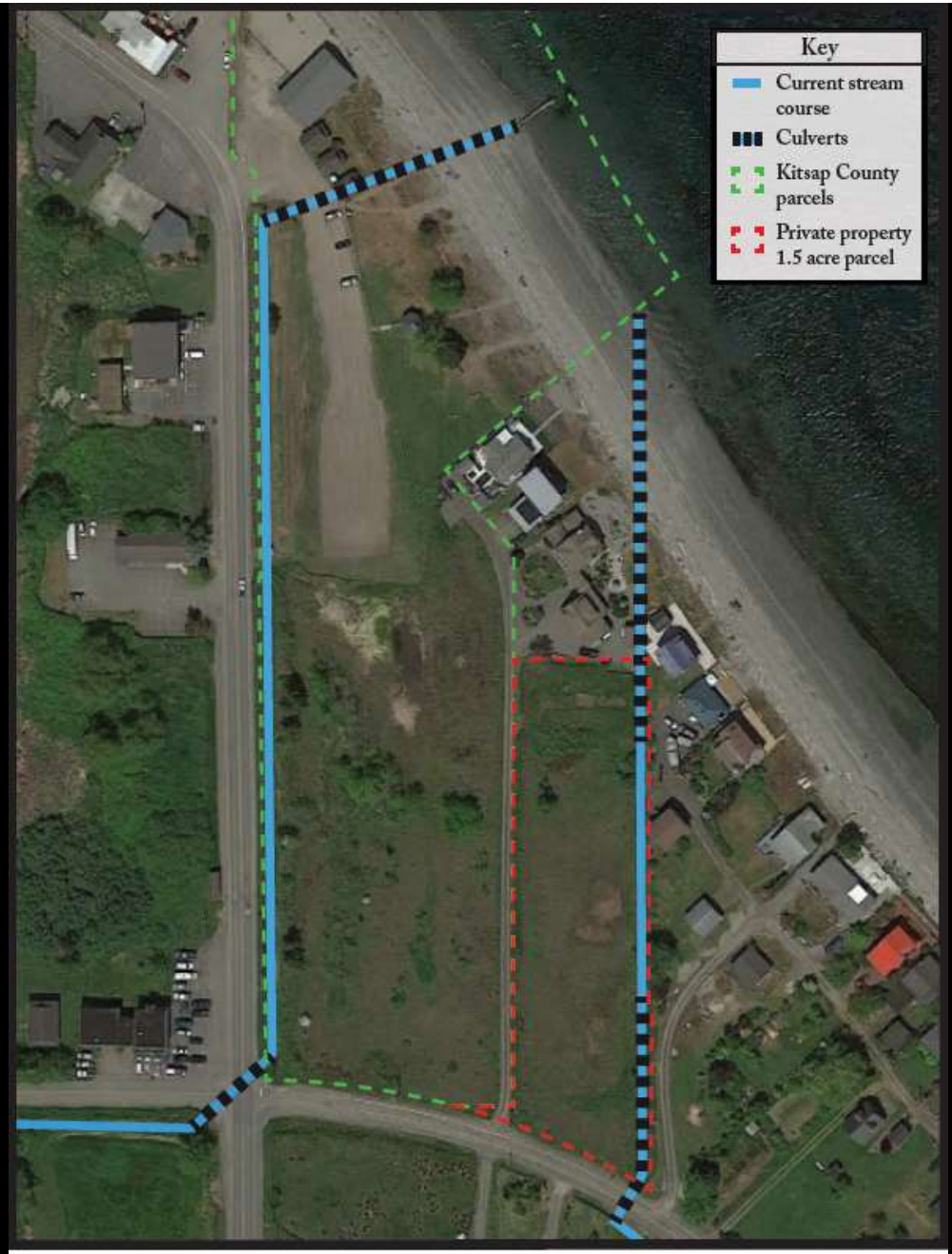
NHC Ref. No. 2001973

nhc northwest hydraulic consultants water resource specialists

WILD FISH CONSERVANCY	SCALE - 1:1,800 0 75 150 300 Feet N	DRAFT	FINN CREEK HYDRAULIC MODELING RESULTS 2 YEAR FLOWS (10 CFS) MEAN HIGHER HIGH TIDE
nhc northwest hydraulic consultants	Coordinate System: NAD 1983 HARN STATEPLANE WASHINGTON SOUTH FIPS 4602 FEET		FIGURE 1
	Job: 2001973	Date: February 2018	



WILD FISH CONSERVANCY	SCALE - 1:1,800 0 75 150 300 Feet N	DRAFT	FINN CREEK HYDRAULIC MODELING RESULTS 2 YEAR FLOWS (19 CFS) ANNUAL HIGH TIDE
nhc northwest hydraulic consultants	Coordinate System: NAD 1983 HARN STATEPLANE WASHINGTON SOUTH FIPS 4602 FEET		FIGURE 2
	Job: 2001973	Date: February 2018	



Finn Creek
Existing Conditions

0 100 200 300 400 ft.

N

Finn Creek Low Tide

0 100 200 300 400 ft.

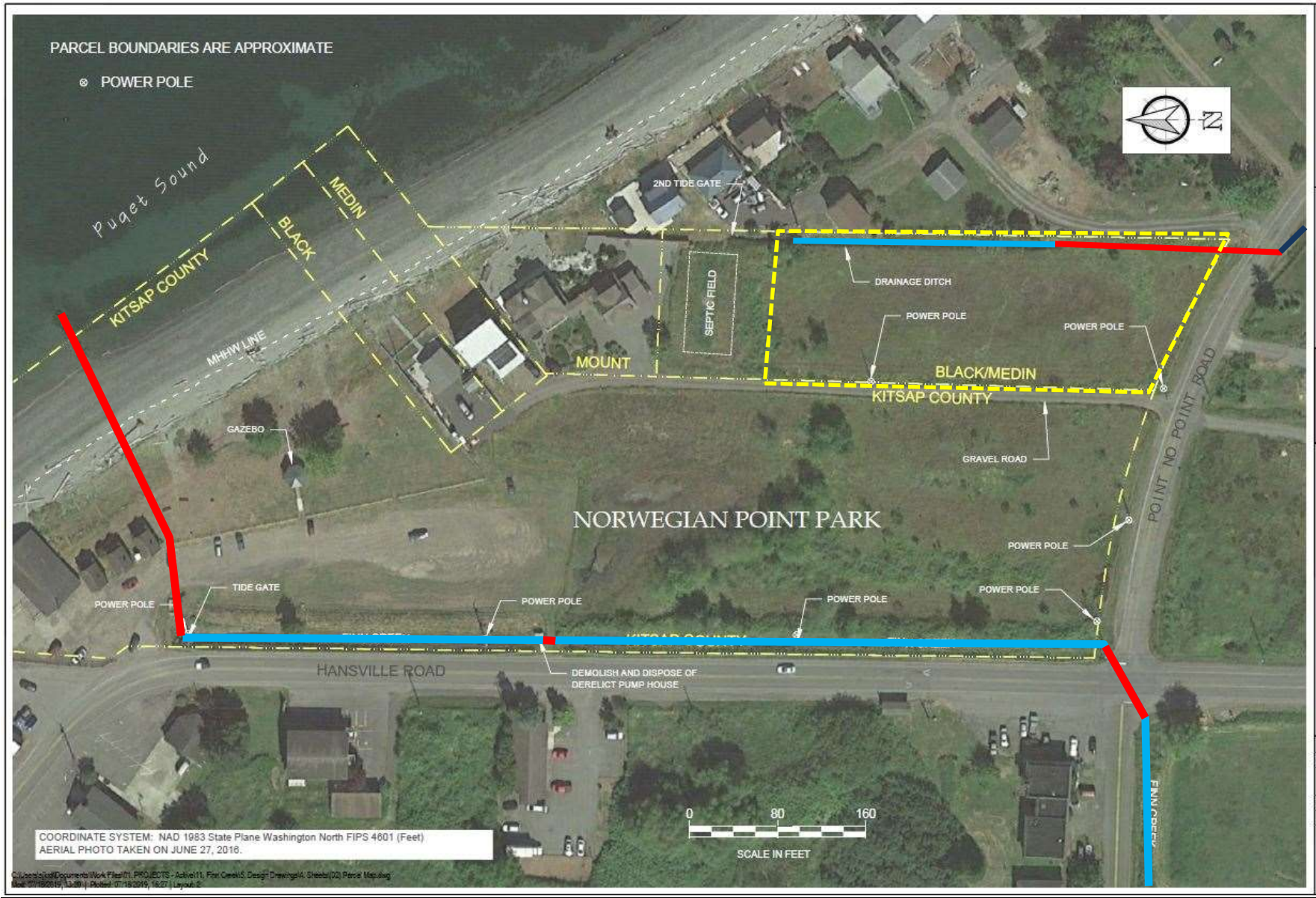
N

Key
Native shrubs
Native trees
Existing trees
Interpretive trail on top of flood protection berm
Private property 1.5 acre parcel
Historic building locations
Relocate gazebo
Angle-in parking
Observation platform
New driveway access
Install LWD
Finn Creek High Tide
0
100
200
300
400 ft.
N

GeoTech Assessment – Test Pits

Project costs α materials imported / exported

Apr. 2019



WILD FISH CONSERVANCY NORTHWEST
15629 Main Street NE
P.O. Box 402
Duvall, WA 98019

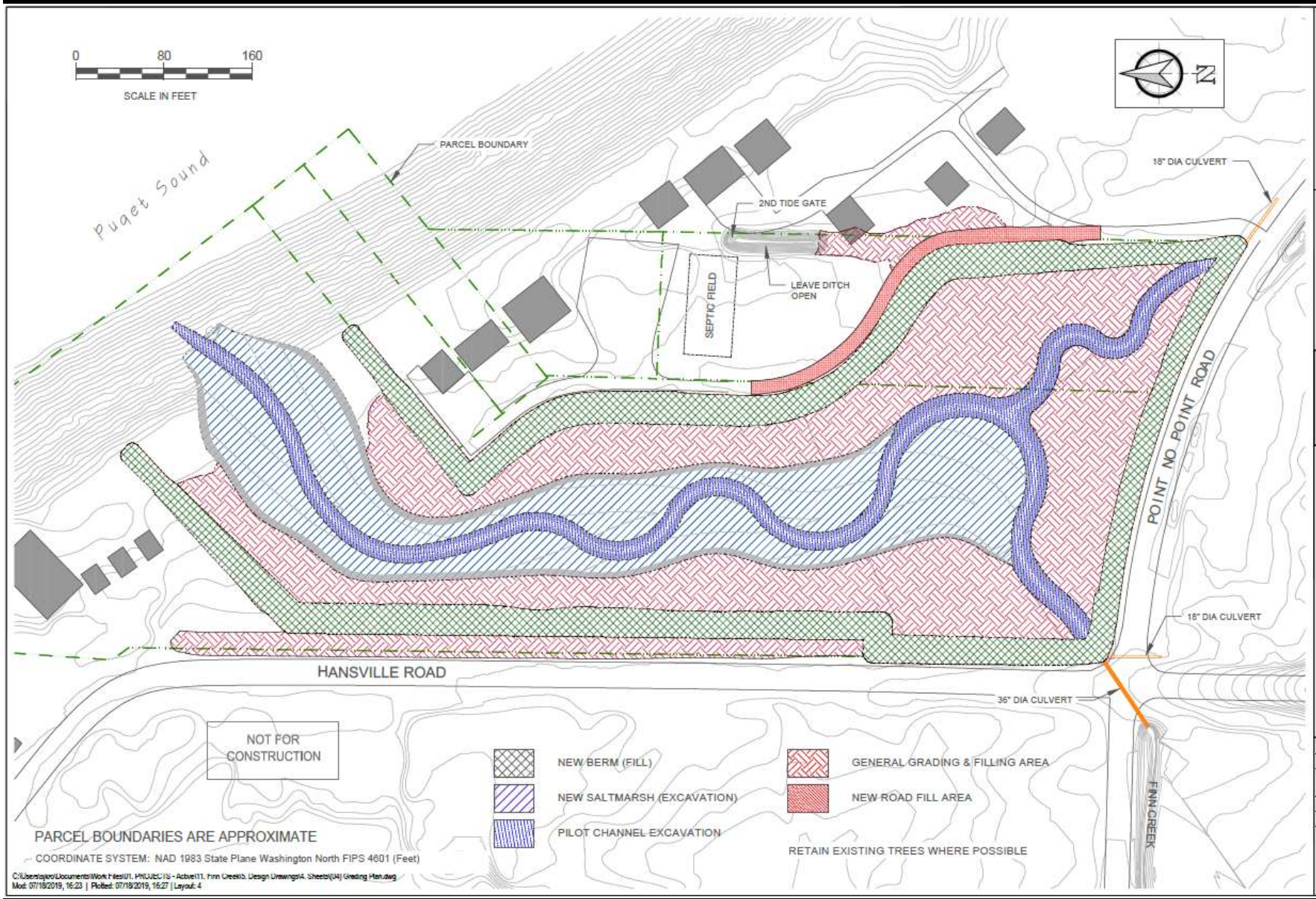
SEAL

PARCEL MAP

FINN CREEK RESTORATION

HANSVILLE, WA

DATE: 07-16-2019
DRAWN BY: S. KROPP
DESIGNED BY: A. STONKUS
S. KROPP
SCALE: 1" = 80'
JOB NO.:
SHEET NO.
2



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Mod: 07/19/2019, 16:23 | Plotted: 07/19/2019, 16:27 | Layout: 4

WILD FISH CONSERVANCY NORTHWEST
15629 Main Street NE
P.O. Box 402
Duvall, WA 98019

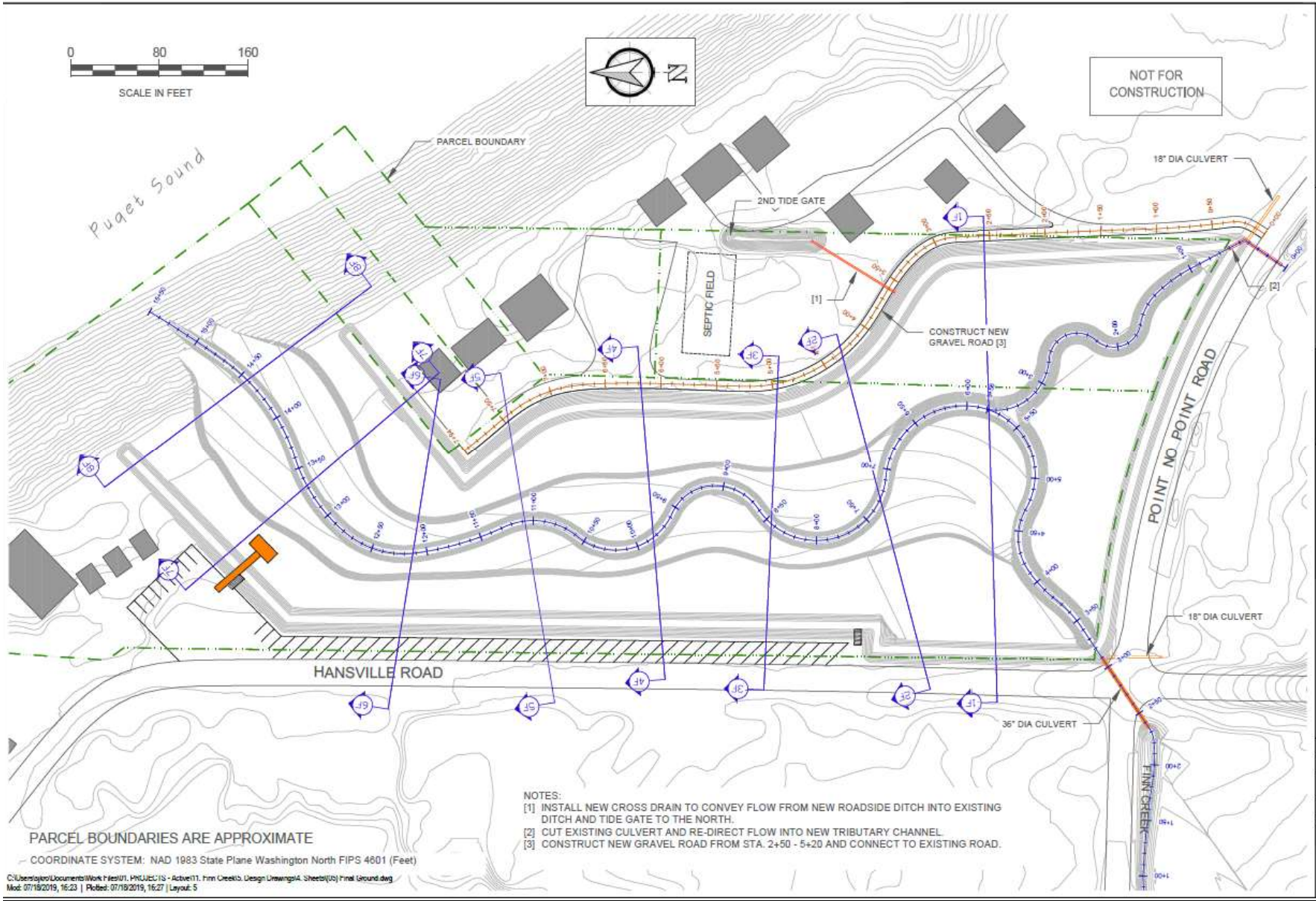
SEAL

GRADING PLAN

FINN CREEK RESTORATION

HANSVILLE, WA

DATE: 07-18-2019
DRAWN BY: S. KROPP
DESIGNED BY: A. STONKUS
S. KROPP
SCALE: 1" = 80'
JOB NO.:
SHEET NO.
4



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WILD FISH CONSERVANCY NORTHWEST
15629 Main Street NE
P.O. Box 402
Duvall, WA 98019

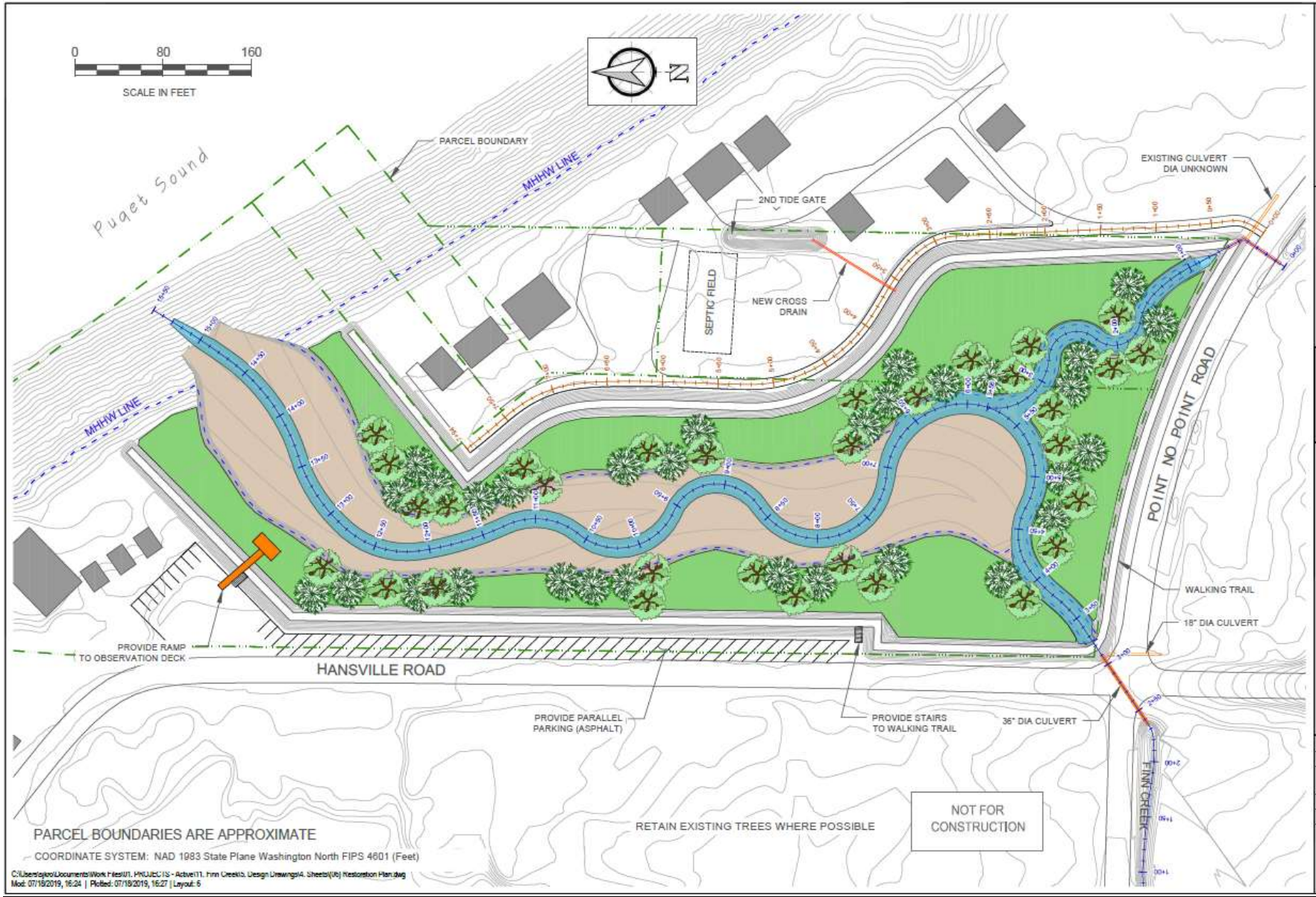
SEAL

FINAL GROUND

FINN CREEK RESTORATION

HANSVILLE, WA

DATE: 07-18-2019
DRAWN BY: S. KROPP
DESIGNED BY: A. STONKUS
S. KROPP
SCALE: 1" = 80'
JOB NO.:
SHEET NO.
5



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WILD FISH CONSERVANCY NORTHWEST
15629 Main Street NE
P.O. Box 402
Duvall, WA 98019

SEAL

RESTORATION PLAN

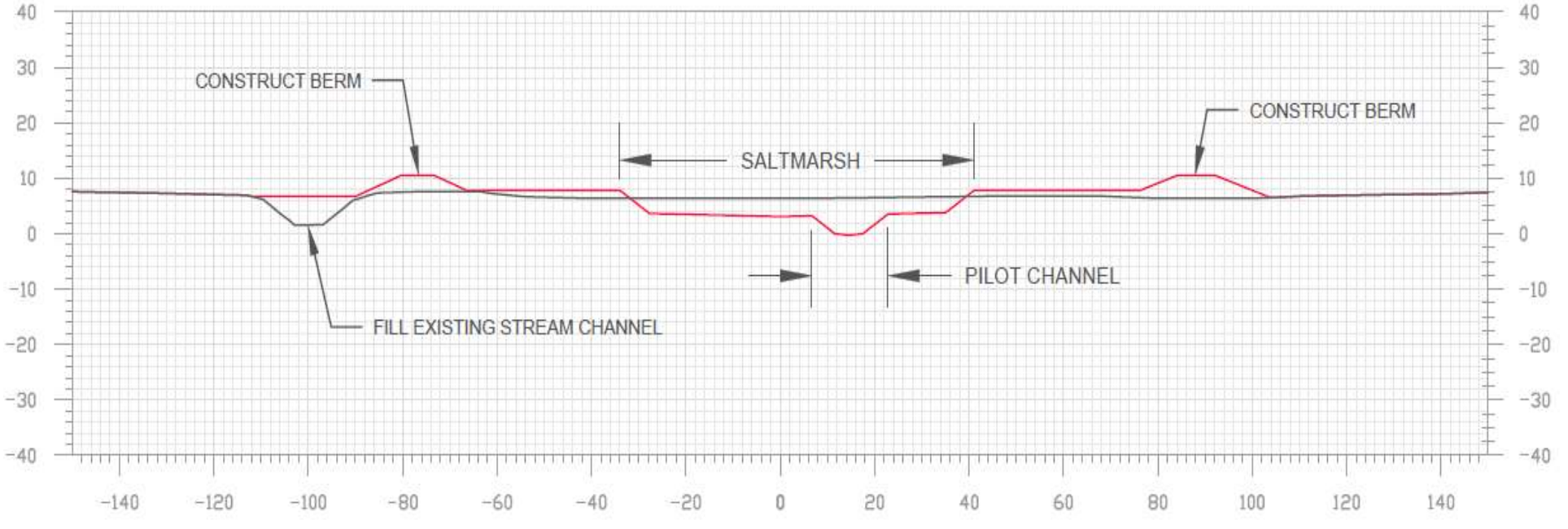
FINN CREEK RESTORATION

HANSVILLE, WA

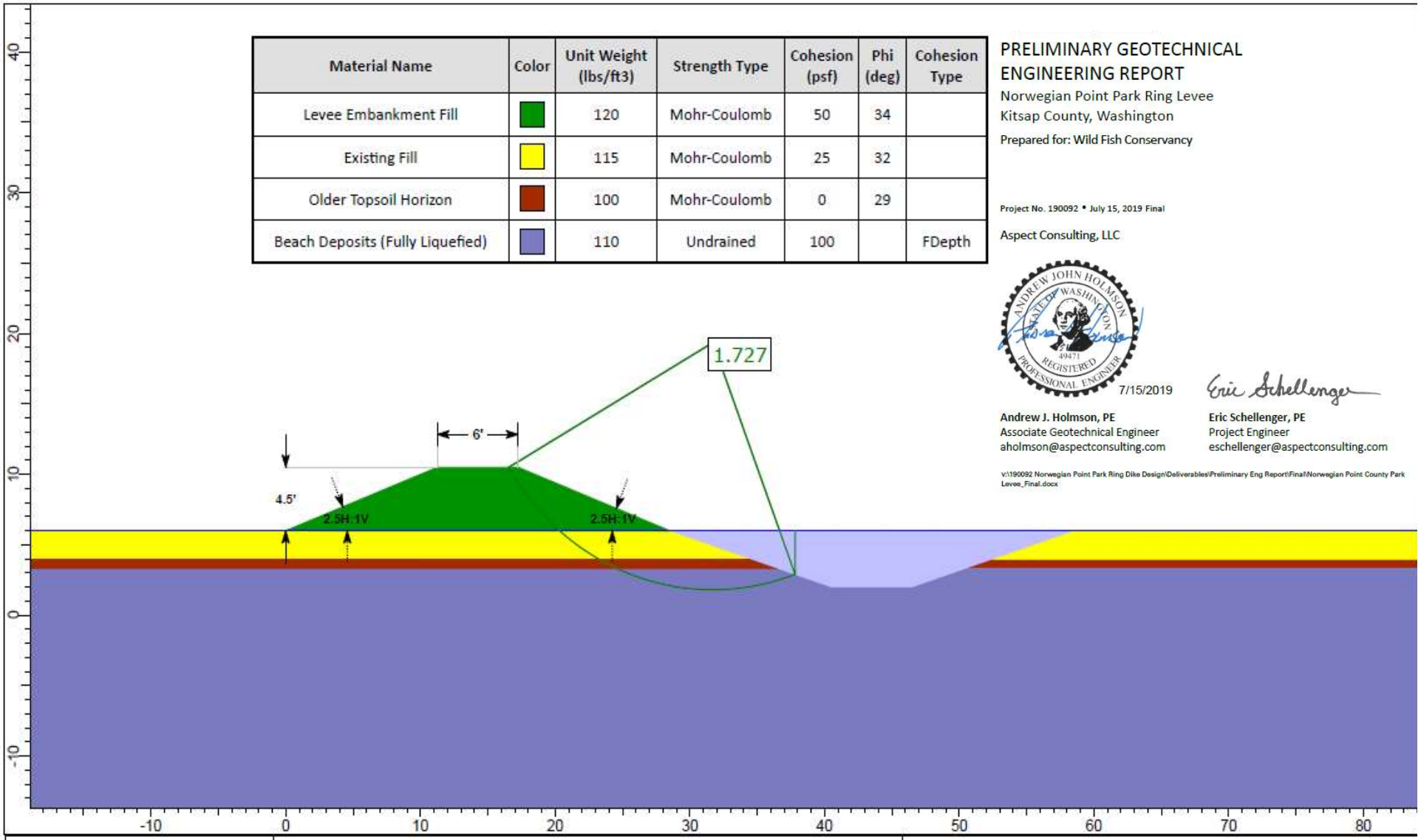
DATE: 07-18-2019
DRAWN BY: S. KROPP
DESIGNED BY: A. STONKUS
S. KROPP
SCALE: 1" = 80'
JOB NO.:
SHEET NO.
6

SEPTIC FIELD
NEW CROSS DRAIN
MHHW LINE
POINT NO POINT ROAD
WALKING TRAIL
18" DIA CULVERT
PROVIDE RAMP TO OBSERVATION DECK
SEAL
RESTORATION PLAN
HANSVILLE, WA

SECTION 5F


CONSTRUCT BERM
SALTMARSH
CONSTRUCT BERM
PILOT CHANNEL
FILL EXISTING STREAM CHANNEL
40
30
20
10
0
-10
-20
-30
-40
-140
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
140

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Cohesion Type
Levee Embankment Fill		120	Mohr-Coulomb	50	34	
Existing Fill		115	Mohr-Coulomb	25	32	
Older Topsoil Horizon		100	Mohr-Coulomb	0	29	
Beach Deposits (Fully Liquefied)		110	Undrained	100		FDepth



PRELIMINARY GEOTECHNICAL ENGINEERING REPORT

Norwegian Point Park Ring Levee
Kitsap County, Washington

Prepared for: Wild Fish Conservancy

Project No. 190092 • July 15, 2019 Final

Aspect Consulting, LLC

ANDREW JOHN HOLMSON STATE OF WASHINGTON 49471 REGISTERED PROFESSIONAL ENGINEER

7/15/2019

Andrew J. Holmson, PE
Associate Geotechnical Engineer
aholmson@aspectconsulting.com

Eric Schellenger, PE
Project Engineer
eschellenger@aspectconsulting.com

v:\190092 Norwegian Point Park Ring Dike Design\Deliverables\Preliminary Eng Report\Final\Norwegian Point County Park Levee_Final.docx

Levee at TP-1 - Baseflow Conditions Static Analysis

Slope Stability Analysis

Norwegian Point Park Ring Levee
Kitsap County, Washington

SLIDEINTERPRET 8.022	SCALE: 1":10' O:\Portland_Projects\190000_Projects\190092_Norwegian Point Park Ring Dike\Data\Analyses\Seepage and SSA\Base-Flow Stability - Waterside.slmd	Aspect CONSULTING	6/20/2019 PROJECT NO. 190092	BY: ECS REVIEWED BY: AJH	APPENDIX: C-1

Task 1. HEC-RAS modeling; coastal process and sediment transport analyses. [*Blue Coast*]

Task 2. Groundwater analyses [*Aspect Env*.]

Task 3. Draft final designs, specifications, and costs.

Task 4. Permitting

Task 5. Acquisition negotiations, prepare purchase or option agreement.

Scope and cost/budget of project

- Phased approach (Feas., Design, Construct) to address uncertainty
- Building off of SRFB Preliminary Design Project

Benefits to fish

- Fish passage, estuarine restoration, and nearshore project.
- Tier 1 project in Nearshore Integration Tool (top 50 of 420 nearshore projects).
- Acquisition to expand park footprint and daylight estuarine tributary

Certainty of success

- Experienced sponsor and strong partners
- Kitsap County support
- Restoring self-sustaining processes
- County Park will coordinate stewardship plan
- Immediate benefits – restoring access to 2+ miles of stream habitat

Questions?

Jamie Glasgow, Director of Science and Research

206/310-9302, jamie@wildfishconservancy.org

www.wildfishconservancy.org