Planning & Development Services Fact Sheet PL 09-0485

Community Development Division

Date Received

☒ Shoreline Substantial Development
☐ Shoreline Conditional Use
☐ Shoreline Variance Permit N/A
☐ Other _____

Brief project description: See Attachment A

Applicant Name: The Nature Conservancy

Other Related Permits or Approvals: 401, 404, SEPA, Special Use, HPA, FHEP, Critical Areas

Parcel ID#: See Attachment A Assessor Tax #: _____ - _____ - _____ - _____

Parcel ID#: _____ Assessor Tax #: _____ - _____ - _____ - _____

Site Address: Pioneer Hwy (Old SR-530) at Fisher Slough Bridge Crossing, 1.4 miles S of Conway, WA

Section 30 Township 33N Range 4E Critical Area/Water within 200 feet?: ☒Yes ☐No

Name of Associated Shoreline/Waterbody: Fisher Slough

Shoreline Designation: Rural Shoreline

Lot of Record: ☒Yes ☐No Urban Growth Area: ☐Yes ☒No If yes, City: _____

Acreage / Lot Dimensions: 155 acres for entire construction footprint.

Comp Plan/Zoning within 200 feet: Ag-NRL

Flood Zone: A2 FIRM Map Panel #: 5301510425C Map Date: 1985

Road access: ☐Private ☒County - Permit #: TBD ☐State - Permit #: _____

Water Source: ☒Drilled Well - Permit #: See Attmt. A ☐Community Well ☐Public ☐PUD#1 ☐Anacortes

Sewage Disposal: ☐Septic - Permit #: N/A ☐Public Sewer: N/A

Pre-application meeting required: ☒Yes ☐No Meeting verification form enclosed: ☐Yes ☒No

Legal Description: See Attachment A

(Attach additional sheet if necessary.)

Attachment A: Substantial Shoreline Development Expanded Answers

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment, Skagit County, Washington

Brief Project Description: The purpose of the Fisher Slough – Tidal Marsh Restoration project is to reconnect natural freshwater tidal marsh hydrology to approximately 50 acres of currently diked floodplain, restore historical tidal marsh vegetation communities, and remove fish passage barriers, and provide critical juvenile Chinook rearing habitat areas. In addition to restoring rearing areas for juvenile Chinook, the project will provide improved fish passage to 15 – 17 miles of tributary spawning areas and increase watershed connectivity for coho, chum and other native fish species, and improve flood and sediment storage conditions for the tributary levee system.

Parcel No.	Assessor Tax #	Within Footprint or Adjacent Property	Owner
P17436	330429-0-005-0009	Footprint	The Nature Conservancy
P17519	330430-0-030-0005	Footprint	The Nature Conservancy
P17508	330430-0-022-0005	Footprint	The Nature Conservancy
P17450	330429-2-005-0005	Footprint	Earl Hanson
P17518	330430-0-029-0008	Footprint	Harvey L. Moyer
P17433	330429-0-002-0002	Footprint	Harvey L. Moyer
P17467	330429-3-003-0005	Footprint	Harvey L. Moyer
P17466	330429-3-002-0006	Footprint	Harvey L. Moyer
P16854	330419-0-020-0002	Footprint	Roger Jungquist
P17453 P17449	330429-2-005-0302	Adjacent	Maplewood Farms
P17486	330430-0-001-0000	Footprint	Maplewood Farms
P17523	330430-1-001-0008	Footprint	Maplewood Farms
P17468	330429-3-004-0004	Adjacent	Sersland
P17455	330429-2-008-0010	Adjacent	Palmer
P17510 P17497 P17526	330430-0-024-0003	Adjacent	S&B Properties
P17524 P17454 P17457	330430-1-002-0007	Footprint	Skagit County Diking District #3
P17509	330430-0-023-0004	Footprint	Skagit County Diking District #3
P17434	330429-0-003-0001	Footprint	Skagit County Diking District #3

Right-of-way		Footprint	Burlington Northern Santa Fe (BNSF) Railroad
P17507	330430-0-021-0006	Footprint	Skagit County Drainage District #17
P17509	330430-0-023-0004	Footprint	Skagit County
Right-of-way		Footprint	*Skagit County

Meeting Verification: The pre-application meeting was held on 7 May 2009 (PL# 09-0206). See Special Use Permit application Attachment B for meeting notes.

Well Source: Well Log ID - 77466, NOI Number - W009684

Legal Description:

BEGINNING AT THE NORTHEAST CORNER OF SECTION 30, TOWNSHIP 33 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN, SKAGIT COUNTY, WASHINGTON SAID CORNER ALSO BEING THE NORTHWEST CORNER OF SECTION 29, TOWNSHIP 33 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN SKAGIT COUNTY WASHINGTON:

THENCE SOUTH 01°08'39" WEST ALONG THE EAST LINE OF SAID SECTION 30 (WEST LINE SAID SECTION 29 A DISTANCE OF 1297.97 FEET; THENCE SOUTH 31°42'08" WEST A DISTANCE OF 198.78 FEET; THENCE SOUTH 55°32'31" EAST A DISTANCE OF 476.20 TO A POINT ON THE WEST LINE OF SKAGIT COUNTY ASSESSOR PARCEL NO. P17454; THENCE SOUTH 00°00'00" WEST ALONG THE WEST LINE OF SAID PARCEL NO. P17454 A DISTANCE OF 86.04 FEET; THENCE SOUTH 90°00'00" EAST ALONG THE SOUTH LINE OF SAID PARCEL NO. P17454 A DISTANCE OF 46.30 FEET; THENCE NORTH 00°00'00" EAST ALONG THE EAST LINE OF SAID PARCEL NO. P17454 A DISTANCE OF 54.27 FEET; THENCE SOUTH 55°32'31" EAST A DISTANCE OF 29.41 FEET; THENCE SOUTH 44°14'01" EAST A DISTANCE OF 69.66 FEET; THENCE SOUTH 27°07'27" EAST A DISTANCE OF 59.16 FEET; THENCE SOUTH 01°39'33" WEST A DISTANCE OF 157.15 FEET TO THE NORTHERLY MOST CORNER OF SKAGIT COUNTY ASSESSOR PARCEL NO. 17434; THENCE SOUTH 41°20'21" EAST ALONG THE EASTERLY LINE OF SAID PARCEL NO. 17434 A DISTANCE OF 583.65 FEET; THENCE NORTH 87°48'22" WEST ALONG THE SOUTH LINE OF SAID PARCEL NO. 17434 A DISTANCE OF 268.44 FEET; THENCE SOUTH 19°35'04" EAST A DISTANCE OF 80.55 FEET; THENCE SOUTH 15°44'50" EAST A DISTANCE OF 103.49 FEET; THENCE SOUTH 11°04'59" WEST A DISTANCE OF 51.29 FEET; THENCE SOUTH 14°45'59" WEST A DISTANCE OF 25.56 FEET; THENCE SOUTH 27°43'02" WEST A DISTANCE OF 42.88 FEET; THENCE S 39°33'44" WEST A DISTANCE OF 29.40 FEET; THENCE SOUTH 45°01'50" WEST A DISTANCE OF 65.86 FEET; THENCE SOUTH 43°48'50" WEST A DISTANCE OF 59.36 FEET; THENCE SOUTH 38°31'31" WEST A DISTANCE OF 19.88 FEET; THENCE SOUTH 41°43'29" W A DISTANCE OF 16.82 FEET; THENCE SOUTH 24°52'48" WEST A DISTANCE OF 39.73 FEET; THENCE SOUTH 30°57'55" WEST A DISTANCE OF 10.13 FEET; THENCE SOUTH 24°44'09" WEST A DISTANCE OF 47.21 FEET; THENCE SOUTH 20°07'08" WEST A DISTANCE OF 35.92 FEET; THENCE SOUTH 16°35'41" WEST A DISTANCE OF 12.50 FEET; THENCE SOUTH 01°45'52" WEST A DISTANCE OF 8.17 FEET; THENCE SOUTH 01°50'01" EAST A DISTANCE OF 19.05 FEET; THENCE SOUTH 10°39'35" EAST A DISTANCE OF 29.50 FEET; THENCE SOUTH 16°54'48" EAST A DISTANCE OF 27.88 FEET; THENCE SOUTH 18°40'57" EAST A DISTANCE OF 19.98 FEET; THENCE SOUTH 24°05'06" EAST A DISTANCE OF 16.08 FEET; THENCE SOUTH 26°00'03" EAST A DISTANCE OF 27.71 FEET; THENCE SOUTH 21°41'34" EAST A DISTANCE OF 14.77

FEET; THENCE SOUTH 17°59'54" EAST A DISTANCE OF 12.95 FEET; THENCE SOUTH 16°16'19" EAST A DISTANCE OF 31.88 FEET; THENCE SOUTH 13°56'05" EAST A DISTANCE OF 17.54 FEET; THENCE SOUTH 09°06'48" EAST A DISTANCE OF 23.45 FEET; THENCE SOUTH 00°41'26" EAST A DISTANCE OF 24.81 FEET; THENCE SOUTH 00°41'26" EAST A DISTANCE OF 21.17 FEET; THENCE SOUTH 06°02'11" EAST A DISTANCE OF 21.39 FEET; THENCE SOUTH 06°07'09" EAST A DISTANCE OF 20.40 FEET; THENCE SOUTH 11°27'42" EAST A DISTANCE OF 19.53 FEET; THENCE SOUTH 17°53'17" EAST A DISTANCE OF 41.73 FEET; THENCE SOUTH 21°28'37" EAST A DISTANCE OF 7.63 FEET; THENCE SOUTH 30°22'22" EAST A DISTANCE OF 53.34 FEET; THENCE SOUTH 38°28'11" EAST A DISTANCE OF 116.84 FEET; THENCE SOUTH 89°04'35" EAST A DISTANCE OF 665.52 FEET; THENCE SOUTH 01°35'10" WEST A DISTANCE OF 31.10 FEET; THENCE NORTH 88°55'31" WEST A DISTANCE OF 666.64 FEET; THENCE NORTH 88°08'39" WEST A DISTANCE OF 115.19 FEET; THENCE NORTH 55°19'37" WEST A DISTANCE OF 77.40 FEET; THENCE NORTH 82°57'33" WEST A DISTANCE OF 46.66 FEET; THENCE NORTH 36°32'27" WEST A DISTANCE OF 17.04 FEET; THENCE NORTH 24°00'14" WEST A DISTANCE OF 28.53 FEET; THENCE NORTH 01°11'30" WEST A DISTANCE OF 36.77 FEET; THENCE NORTH 17°49'45" WEST A DISTANCE OF 19.36 FEET; THENCE NORTH 50°30'37" WEST A DISTANCE OF 32.63 FEET; THENCE NORTH 45°34'03" WEST A DISTANCE OF 44.91 FEET; THENCE NORTH 16°01'19" WEST A DISTANCE OF 43.48 FEET; THENCE NORTH 13°54'21" WEST A DISTANCE OF 35.82 FEET; THENCE NORTH 00°32'02" WEST A DISTANCE OF 42.00 FEET; THENCE NORTH 39°15'57" WEST A DISTANCE OF 27.72 FEET; THENCE NORTH 33°34'37" WEST A DISTANCE OF 99.55 FEET; THENCE NORTH 35°09'47" WEST A DISTANCE OF 66.68 FEET; THENCE NORTH 44°00'44" WEST A DISTANCE OF 54.35 FEET; THENCE NORTH 82°49'03" WEST A DISTANCE OF 40.55 FEET TO A POINT ON THE EASTERLY LINE OF SKAGIT COUNTY ASSESSOR'S PARCEL NO. P17436; THENCE SOUTH 26°08'14" WEST ALONG SAID EASTERLY LINE A DISTANCE OF 211.84 FEET TO THE SOUTHEAST CORNER OF SKAGIT COUNTY ASSESSOR'S PARCEL NO. P17519; THENCE NORTH 88°42'17" WEST ALONG THE SOUTH LINE OF SAID SKAGIT COUNTY ASSESSOR'S PARCEL NO. P17519 A DISTANCE OF 604.40 FEET; THENCE ALONG A 401.62 NON-TANGENT CURVE TO THE RIGHT THE CENTER OF WHICH BEARS NORTH 55°41'14" WEST THROUGH A CENTRAL ANGLE OF 11°42'51" FOR AN ARC LENGTH OF 82.11 FEET; THENCE SOUTH 13°14'14" WEST A DISTANCE OF 131.76 FEET; THENCE ALONG A 271.18 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT THE CENTER OF WHICH BEARS SOUTH 74°51'33" EAST THROUGH A CENTRAL ANGLE OF 22°41'15" FOR AN ARC LENGTH OF 107.38 FEET; THENCE SOUTH 04°10'22" EAST A DISTANCE OF 169.97 FEET; THENCE ALONG A 461.59 FOOT RADIUS CURVE TO THE RIGHT THROUGH A CENTRAL OF 13°57'20" FOR AN ARC LENGTH OF 112.43 FEET; THENCE SOUTH 08°41'12" WEST A DISTANCE OF 256.04 FEET; THENCE ALONG A 890.23 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT THE CENTER OF WHICH BEARS SOUTH 82°29'08" EAST THROUGH A CENTRAL ANGLE OF 7°39'48" FOR AN ARC LENGTH OF 119.07 FEET; THENCE ALONG A 52.02 FOOT RADIUS NON-TANGENT REVERSE CURVE TO THE RIGHT THE CENTER OF WHICH BEARS NORTH 88°00'07" WEST THROUGH A CENTRAL ANGLE OF 83°23'03" FOR AN ARC LENGTH OF 75.71 FEET; THENCE NORTH 89°30'30" WEST A DISTANCE OF 1604.48 FEET; THENCE NORTH 14°33'51" EAST A DISTANCE OF 41.24 FEET; THENCE SOUTH 89°30'30" EAST A DISTANCE OF 1592.04 FEET; THENCE ALONG A 12.02 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT THE CENTER OF WHICH BEARS NORTH 10°08'53" WEST THROUGH A CENTRAL ANGLE OF 75°34'06" FOR AN ARC LENGTH OF 15.85 FEET; THENCE ALONG A 930.23 FOOT RADIUS NON-TANGENT REVERSE CURVE TO THE RIGHT THE CENTER OF WHICH BEARS NORTH 89°54'50" EAST THROUGH A CENTRAL ANGLE OF 7°37'34" FOR AN ARC LENGTH OF 123.81 FEET; THENCE NORTH 08°41'12" EAST A DISTANCE OF 256.84 FEET; THENCE ALONG A 421.59 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT THE CENTER OF WHICH BEARS NORTH 80°09'59" WEST THROUGH A CENTRAL ANGLE OF 14°00'23" FOR AN ARC LENGTH OF 103.06 FEET;

THENCE NORTH 04°10'22" WEST A DISTANCE OF 168.84 FEET; THENCE ALONG A 311.18 FOOT RADIUS NON-TANGENT CURVE TO THE RIGHT THE CENTER OF WHICH BEARS NORTH 82°40'40" EAST THROUGH A CENTRAL ANGLE OF 22°20'12" FOR AN ARC LENGTH OF 121.31 FEET; THENCE NORTH 13°14'14" EAST A DISTANCE OF 129.35 FEET; THENCE NORTH 37°14'18" EAST A DISTANCE OF 70.74 FEET TO THE SOUTHWEST CORNER OF SAID SKAGIT COUNTY ASSESSOR'S PARCEL NO. P17519; THENCE NORTH 03°30'06" EAST ALONG THE WEST LINE OF SAID SKAGIT COUNTY ASSESSOR'S PARCEL NO. P17519 A DISTANCE OF 1316.37 FEET TO THE NORTHWEST CORNER OF SAID SKAGIT ASSESSOR'S PARCEL NO. P17519 SAID POINT ALSO BEING ON THE NORTH LINE OF THE SOUTH ONE-HALF OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE NORTH 88°37'38" WEST ALONG SAID NORTH LINE AND THE WESTERLY EXTENSION THEREOF A DISTANCE OF 1250.41 FEET; THENCE SOUTH 80°11'39" WEST A DISTANCE OF 33.48 FEET; THENCE SOUTH 78°21'48" WEST A DISTANCE OF 16.51 FEET; THENCE SOUTH 73°12'04" WEST A DISTANCE OF 16.50 FEET; THENCE SOUTH 68°03'01" WEST A DISTANCE OF 16.51 FEET; THENCE SOUTH 62°54'26" WEST A DISTANCE OF 16.51 FEET; THENCE SOUTH 52°53'16" WEST A DISTANCE OF 50.13 FEET; THENCE SOUTH 39°52'25" WEST A DISTANCE OF 33.47 FEET; THENCE SOUTH 32°04'40" WEST A DISTANCE OF 16.76 FEET; THENCE SOUTH 26°48'35" WEST A DISTANCE OF 16.76 FEET; THENCE SOUTH 19°02'08" WEST A DISTANCE OF 33.48 FEET; THENCE SOUTH 14°48'50" WEST A DISTANCE OF 30.74 FEET; THENCE SOUTH 02°50'05" WEST A DISTANCE OF 3.92 FEET; THENCE NORTH 87°09'55" WEST A DISTANCE OF 107.53 FEET; THENCE NORTH 07°39'58" EAST A DISTANCE OF 257.56 FEET; THENCE NORTH 04°47'17" EAST A DISTANCE OF 678.03 FEET; THENCE NORTH 86°11'43" WEST A DISTANCE OF 105.35 FEET; THENCE NORTH 04°49'58" EAST A DISTANCE OF 244.38 FEET; THENCE SOUTH 86°11'43" EAST A DISTANCE OF 100.97 FEET; THENCE NORTH 04°31'57" EAST A DISTANCE OF 1004.11 FEET; THENCE SOUTH 88°39'19" EAST A DISTANCE OF 1814.25 FEET; THENCE NORTH 67°04'30" EAST A DISTANCE OF 82.47 FEET; THENCE NORTH 44°07'07" EAST A DISTANCE OF 75.95 FEET; THENCE NORTH 18°23'22" EAST A DISTANCE OF 78.75 FEET; THENCE SOUTH 89°53'33" EAST A DISTANCE OF 93.73 FEET; THENCE SOUTH 02°53'42" WEST A DISTANCE OF 222.04 FEET; THENCE NORTH 87°06'34" WEST A DISTANCE OF 39.66 FEET TO THE POINT OF BEGINNING.

CONTAINING 138.6 ACRES MORE OR LESS.

THE ABOVE REFERENCED LEGAL DESCRIPTIION WAS DERIVED FROM A VARIETY OF SOURCES INCLUDING SURVEYED POSITION OF CORNERS, RECORDED SURVEYS, SKAGIT COUNTY ASSESSOR PARCEL MAPPING, AND PROJECT BOUNDARY LINE LOCATIONS PROVIDED BY OTHERS REPRESENTING THE BEST AVAILABLE SOURCE OF INFORMATION AT THE TIME.

Applicant

The Nature Conservancy

Name

Pioneer Hwy (Old SR-530) at Fisher Slough Bridge Crossing, 1.4 miles S of Conway, WA

Address

360-419-7022	360-419-0817	jbaker@tnc.org
Phone	Fax	E-mail Address

Signature J L Baker

Owner

The Nature Conservancy

Name

410 N. 4th Street, Mount Vernon, WA 98273

Address

360-419-0817	360-419-0817	jbaker@tnc.org
Phone	Fax	E-mail Address

Contact

David Munro, Tetra Tech

Name

1020 SW Taylor Street Suite 530, Portland, OR 97205

Address

503-233-5388	503-228-8631	david.munro@tetratech.com
Phone	Fax	E-mail Address

DISCLOSED

OWNERSHIP CERTIFICATION

I, Jenny Baker, hereby certify that I am the major property owner or officer of the corporation owning property described in the attached application, and I have familiarized myself with the rules and regulations of Skagit County with respect to filing applications for a Shoreline Substantial Development and Conditional Use Variance Permit, Special Use Permit and Fill & Grade Permit and that the statements, answers and information submitted presents the argument on behalf of this application and are in all respects true and correct to the best of my knowledge and belief. For those portions of the subject property where the Nature Conservancy is not the owner, the Nature Conservancy certifies that it is submitting these applications with the consent of the owners of the tax parcels listed below.

Street Address: 410 N Fourth Street
City, State, Zip: Mt. Vernon, WA 98273
Phone: (360) 419-7022

TNC-owned parcels:

17508	THE NATURE CONSERVANCY
17519	THE NATURE CONSERVANCY
17436	THE NATURE CONSERVANCY

Non-TNC-owned parcels and owners:

PARCEL ID	OWNER
No_ID	Burlington Northern Santa Fe
No_ID	Drainage Dist. 17
17507	Drainage Dist. 17
No_ID	Dike District 3
17524	Dike District 3
17434	Dike District 3
17457	Dike District 3
17509	Dike District 3
17450	EARL HANSON
16854	ROGERJUNGQUIST
17486	MAPLEWOOD FARM INC.
17523	MAPLEWOOD FARM INC.
17433	HARVEY MOYER
17466	HARVEY MOYER
17467	HARVEY MOYER
17518	HARVEY MOYER
17511	S&B Properties
17510	S&B Properties
No_ID #1	SKAGIT COUNTY
No_ID #2	SKAGIT COUNTY
No_ID #3	SKAGIT COUNTY
17507	SKAGIT COUNTY

Signature(s):

J K Baker

for: The Nature Conservancy
(corporation or company name, if applicable)

STATE OF WASHINGTON)
) ss.
COUNTY OF SKAGIT)

On this day personally appeared before me Jenny L Baker, known to be the individual(s) described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purpose therein mentioned.

Given under my hand and official seal this 23rd day of November, 2009.

Notary's Signature Becky A Manion

Notary Public in and for the State of Washington residing at Sedro Woolley.

My Commission Expires 1/31/12

Attachment B: Substantial Shoreline Development
Expanded Answers to Narrative Requirements

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment, Skagit County, Washington

1. **Provide a general description of the proposed project that includes the proposed use or uses and the activities necessary to accomplish the project.** The purpose of the Fisher Slough Tidal Marsh Restoration Project is to reconnect natural hydrology to approximately 50 acres of currently diked floodplain, restore historical tidal marsh vegetation communities, and remove fish passage barriers. This work is needed to restore rearing areas for juvenile Chinook, increase watershed connectivity for coho, chum and other native fish species, and improve flood and sediment storage conditions for the tributary levee system.

   Overall, the project will provide multiple habitat restoration, improved fish passage, natural hydrology and flood control benefits. The project is a collaborative effort led by The Nature Conservancy with their partners including Dike District #3, Drainage District #17, Skagit County and other partners.

   Project development and implementation is occurring in the following three phases:

   Phase I (JARPA Sheet 4): Floodgate replacement - involves retrofit of an existing floodgate that is a fish passage barrier and contributes to increased water temperature and decreased dissolved oxygen in the slough during low tides. A self-regulating floodgate will be installed to increase the period of time water is flowing through the structure, and improve fish passage to tidal marsh rearing areas during juvenile Chinook spring migration, and fall coho spawning migration periods. Permits for this work have been approved and work was completed between August 1 - November 30, 2009.

   Phase II (JARPA Sheet 5): Big Ditch Realignment & South Levee Setback Pre-loading, and Tidal Marsh Restoration Pre-Excavation - involves realigning Big Ditch to the west to consolidate with other crossing infrastructure, constructing an inverted siphon crossing, constructing the levee setback initial pre-load, pre-excavating the tidal marsh restoration pilot channels, main tidal channel and tributary realignments in the dry, and regrading local irrigation drainage ditches.

   Phase III (JARPA Sheet 6): South Levee Setback Final Loading, South Levee Removal & Tidal Marsh Restoration Channel Connections - involves final loading of the levee setback structure, tidal marsh restoration connection of the tidal marsh restoration pilot channels, and main tidal channel and tributary channel

realignments, and removal of the existing south levee and demolition of the existing Big Ditch crossing.

2. **Provide a general description of the property as it now exists including its physical characteristics and improvements and structures.** Fisher Slough and the surrounding farmland has been highly modified from historic conditions as a result of channelization, levee construction for flood control, drainage, and agricultural development on the Skagit River delta for the past 150 years. Currently, the presence of the floodgate that closes during high tidal and river flow events is a fish passage barrier. In addition, the Big Ditch culvert crossing is also a fish passage barrier at low tides and low tributary flows.

   The project site near the floodgates contains a county bridge on Pioneer Hwy that spans Fisher Slough; a set of floodgates that connect the Dike District #3 levee system; a flood return structure along the North Levee, the Big Ditch crossing and spillway structure, and a BNSF railroad crossing west of the Pioneer Hwy bridge. There are also utility crossings in the area including fiber optic cables and overhead electrical utilities. There is a small railroad signal box to the south of the project site.

   The downstream floodgate affixed to the Pioneer Hwy bridge provides flood protection during Skagit River floods. This structure is a partial fish passage barrier and is having the gates replaced with self-regulating gates to provide fish passage in Phase I of the project.

   The Dike District #3 levees are tributary crossing levees that prevent flooding of local farm areas from the Fisher Slough tributaries, and the Skagit River. The north levee has a five-gate return structure that acts to return flows to the Skagit River if levees were to break or overtop north of the project site. The south levee has an emergency spillway at the Big Ditch crossing. The entire levee structure is being set back, and the emergency spillway improved, to provide an additional 300 acre-ft of flood storage and restoration of an additional 50 acres of freshwater tidal marsh habitat.

   The Big Ditch crossing is an agricultural drain that has been constructed several feet lower than the surrounding drainage system to provide interior drainage for local farm areas. The existing Big Ditch culvert crosses beneath Fisher Slough, and is a fish passage barrier. The existing structure is being demolished and realigned to the west near the Pioneer Hwy bridge as an inverted siphon structure.

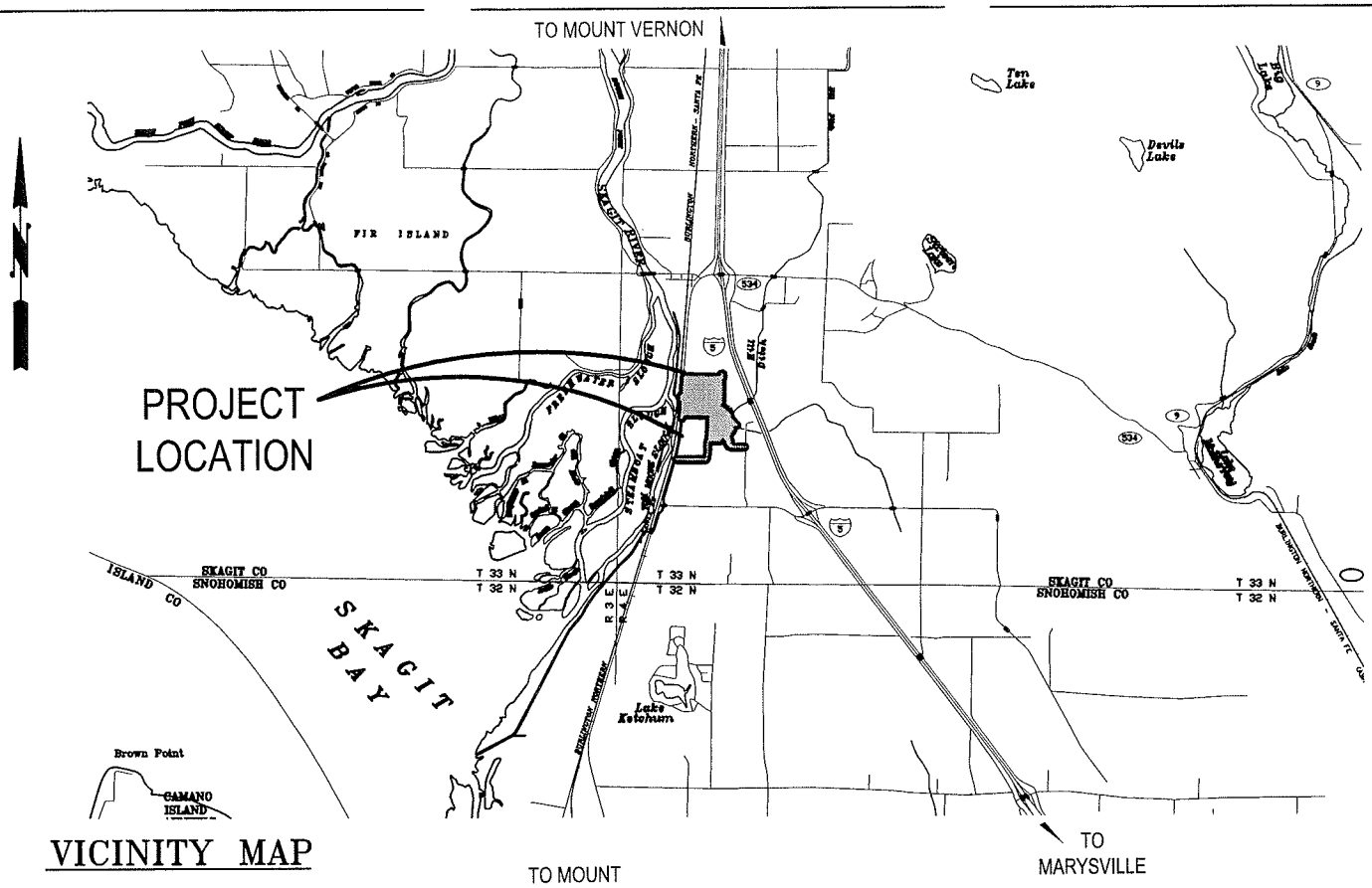
   On the north side of the project, the Junquist property has minor farm drainage infrastructure including ditches and farm road crossing culverts. Modification of these structures is planned as part of the Big Ditch Realignment.

3. **Provide a general description of the vicinity of the proposed project including identification of the adjacent uses, structures and improvements, intensity of development and physical characteristics.** The project site lies in the Eastern Puget Riverine Lowlands ecoregion (EPA 2000). This ecoregion is composed of floodplains and terraces. The mainstem Skagit River within the project area is a large low-gradient channel ranging from 550 to 750 LF wide. The river is predominantly a run or glide throughout this area, with tidal influence.

This portion of the Skagit River provides migratory and rearing habitat for all of the salmon species that utilize the Skagit River, as well as habitat for a diversity of other aquatic and terrestrial species. Salmonid species in the project area include Chinook, pink, chum, steelhead, coho, bull trout, rainbow trout, and cutthroat trout, and likely whitefish. Downstream of Mount Vernon, the river splits into the North and South Forks. The project site is located within the floodplain of the Skagit River Delta and is located to the east of the South Fork Skagit River at RM 1. The project is a freshwater tidal marsh and is upstream of the salt-water tidal areas.

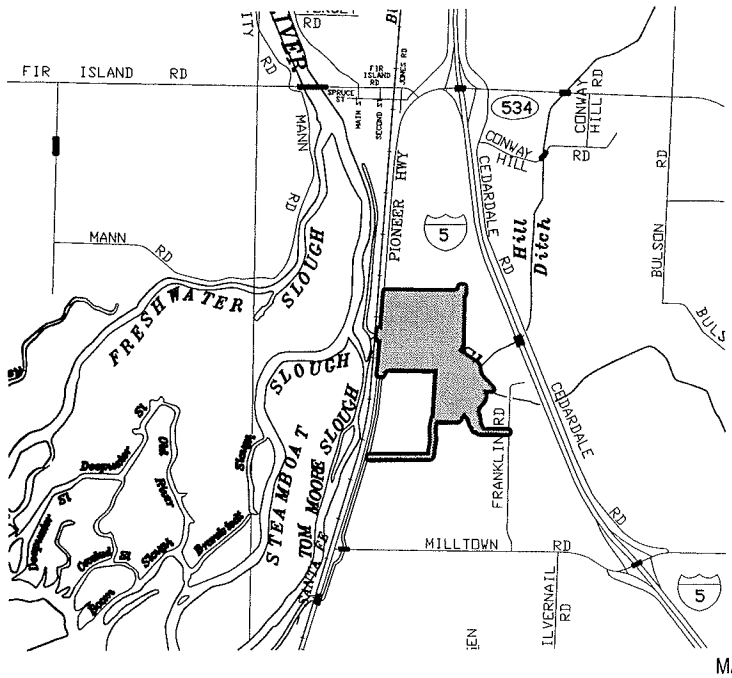
Adjacent properties are used for agriculture and flood control and are zoned as Agricultural – Natural Resource Lands (Ag-NRL) by Skagit County. Agricultural uses include:

Directly to the north and south are farm properties that produce cucumbers and potatoes, as well as a variety of intermittent crops. To the east, there are a number of residential properties that overlook the property from the adjacent hills. A small dingy boat building company is located directly east of the project. Further north and south, there are a sparse number of residential and farm storage facilities in the farm and floodplain areas between Conway and Milltown, along the Pioneer highway. Overall, the area is lightly populated with a few rural residences and the landscape is primary agricultural farm land, with intermittent natural stream, wetland and floodplain areas.



VICINITY MAP

APPROX SCALE: 1" = 1000'



DIRECTIONS TO SITE

1. Take I-5 to Exit 221 (SR-534)
2. S. 1.4 Miles on Pioneer Highway
3. Access at Smith A 0.15 Miles South of Fisher Slough Bridge (Project Site as Shown)

PROJECT LOCATION

NO SCALE

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

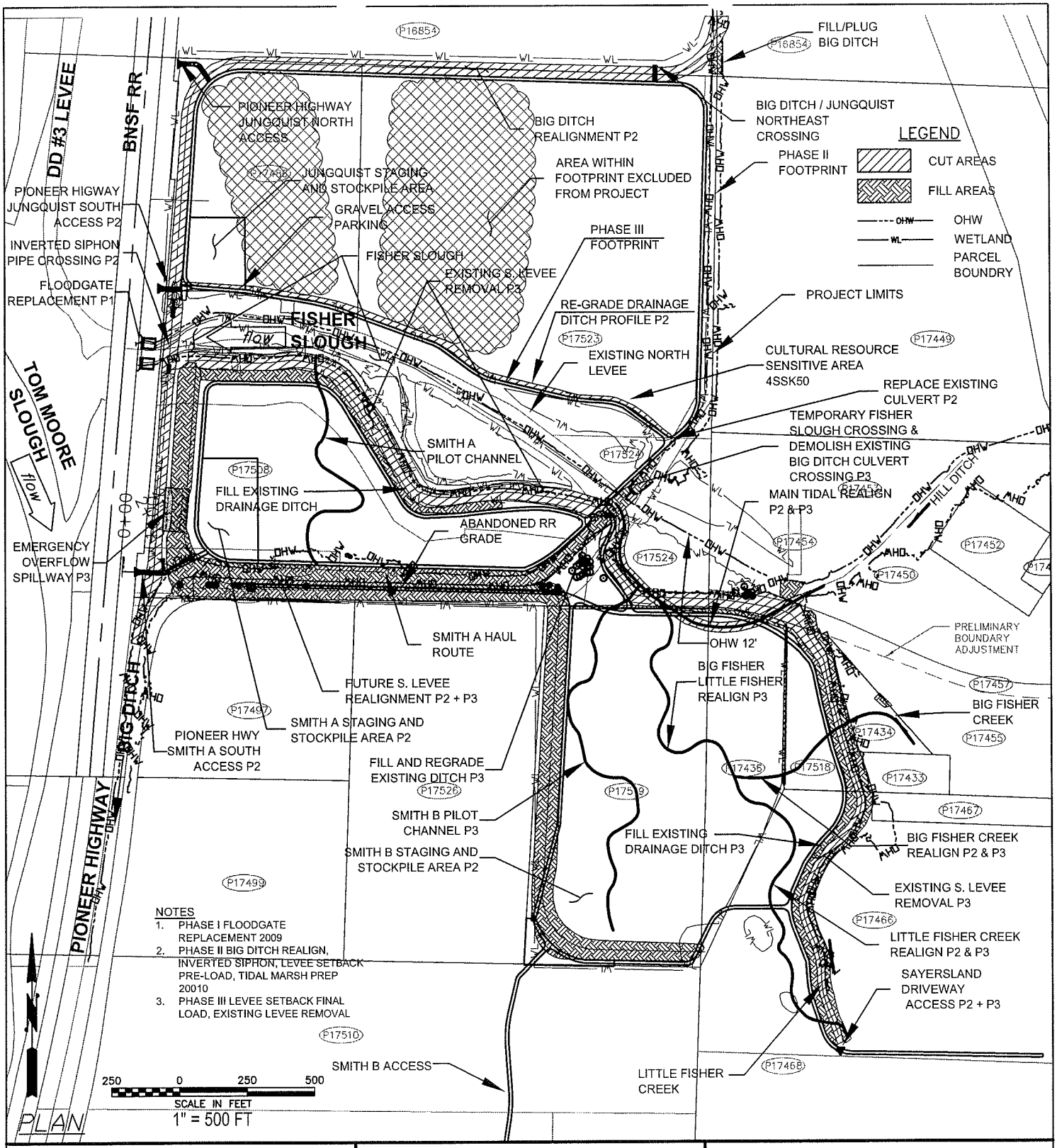
APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Vicinity Map

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

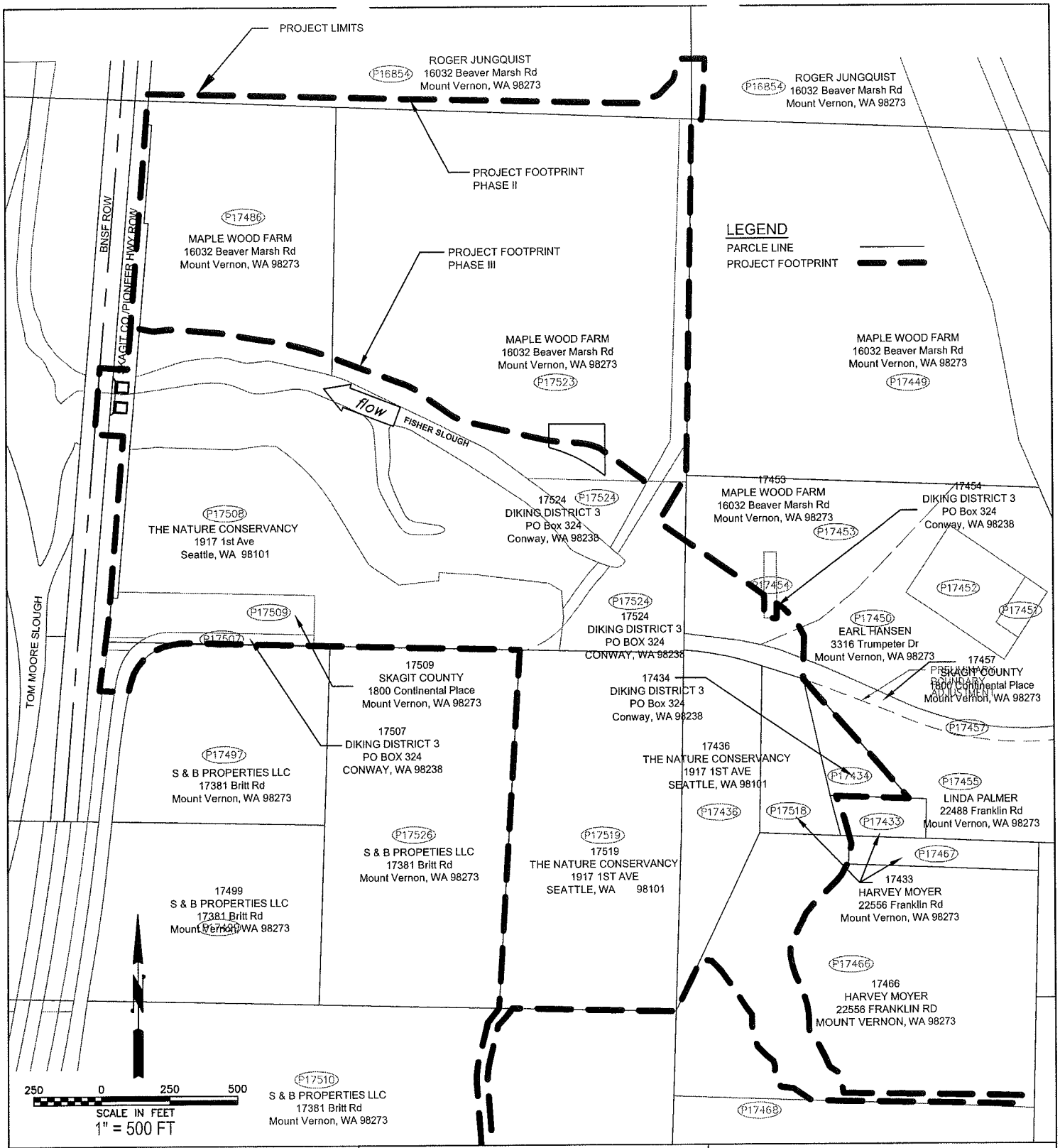
APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

General Site Plan

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Real Estate Plan

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
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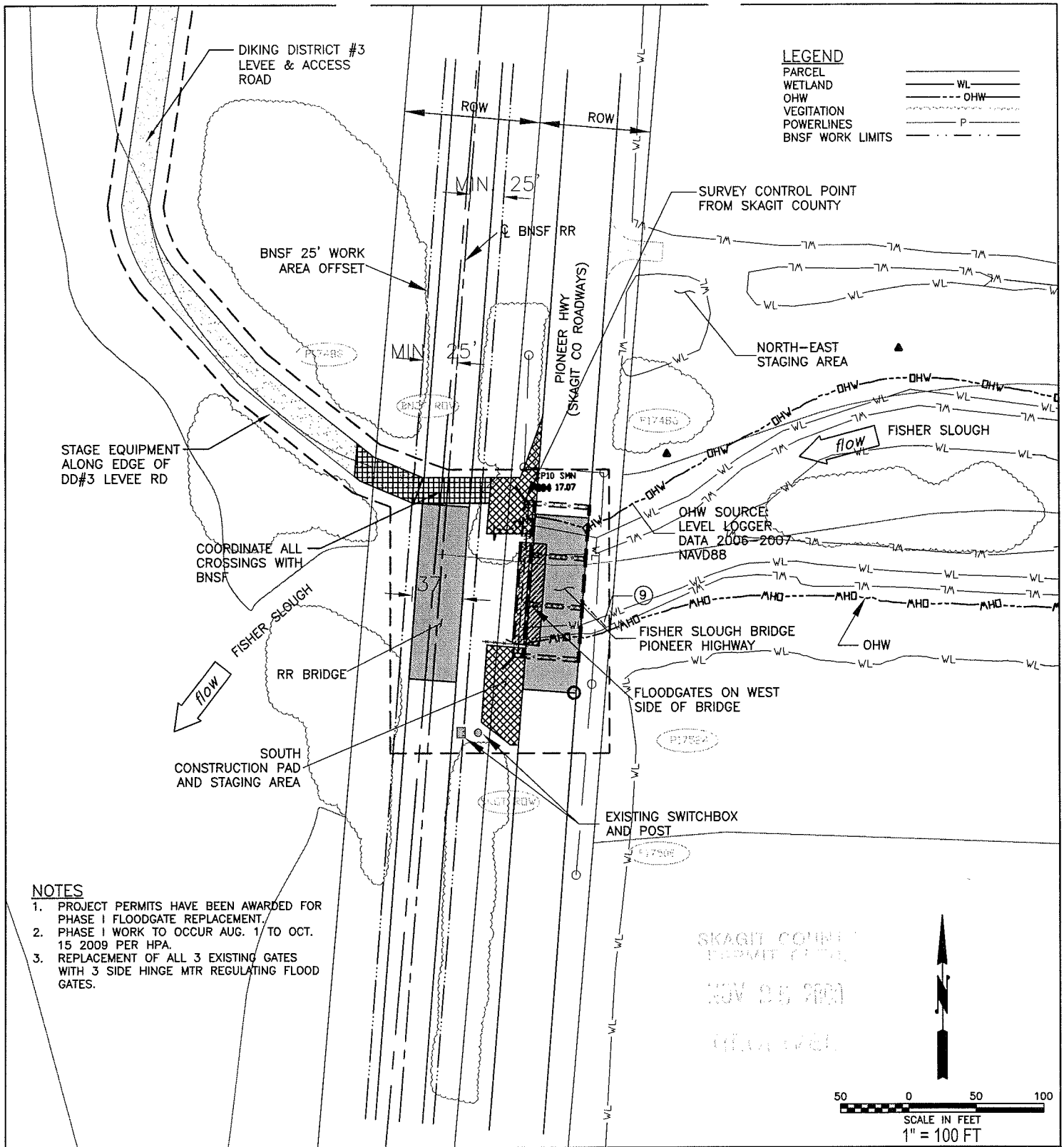


NOTES

1. PROJECT PERMITS HAVE BEEN AWARDED FOR PHASE I FLOODGATE REPLACEMENT.
2. PHASE I WORK TO OCCUR AUG. 1 TO OCT. 15 2009 PER HPA.
3. REPLACEMENT OF ALL 3 EXISTING GATES WITH 3 SIDE HINGE MTR REGULATING FLOOD GATES.

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

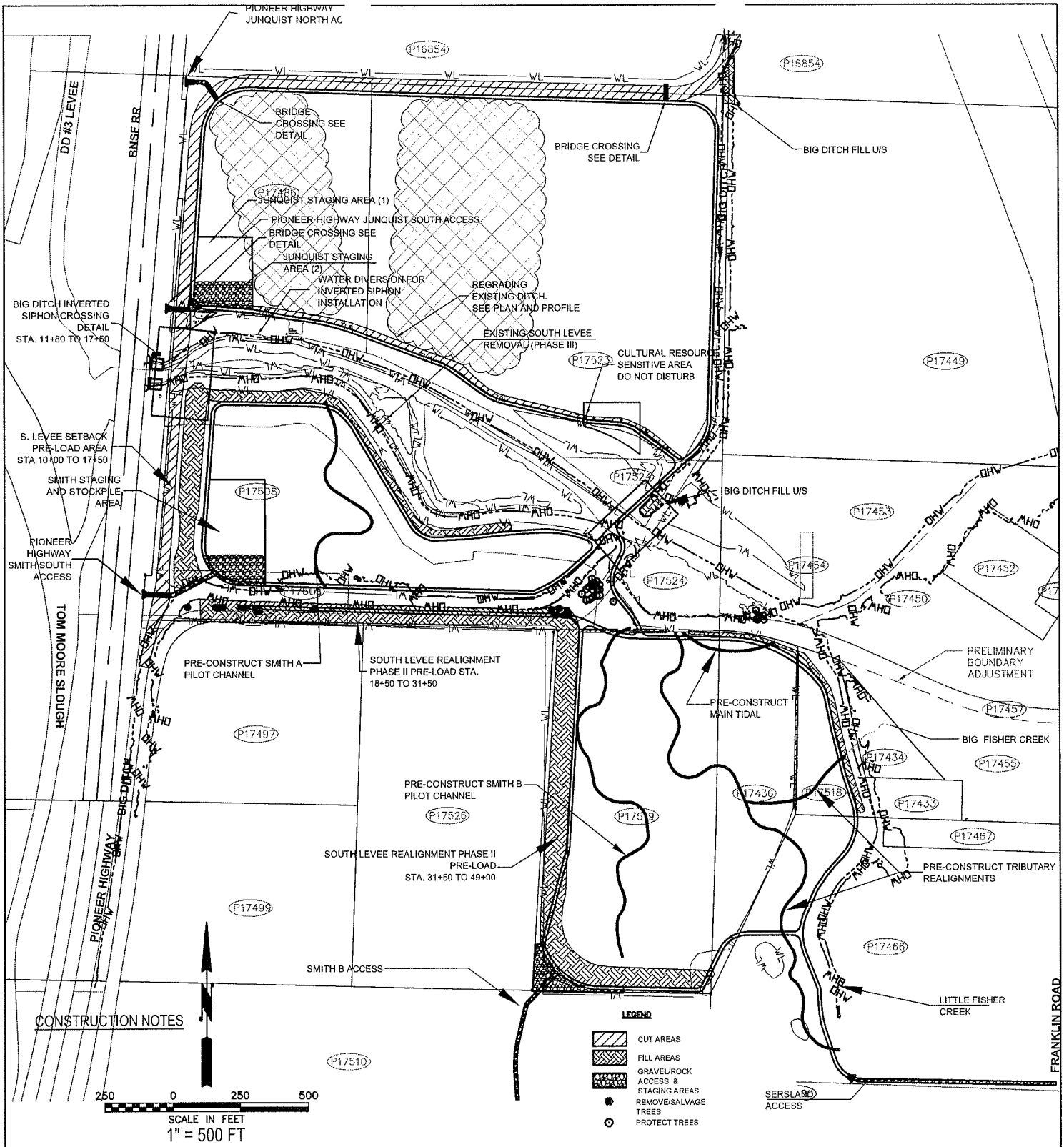
SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Phase 1
Floodgate Replacement Plan

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.
AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

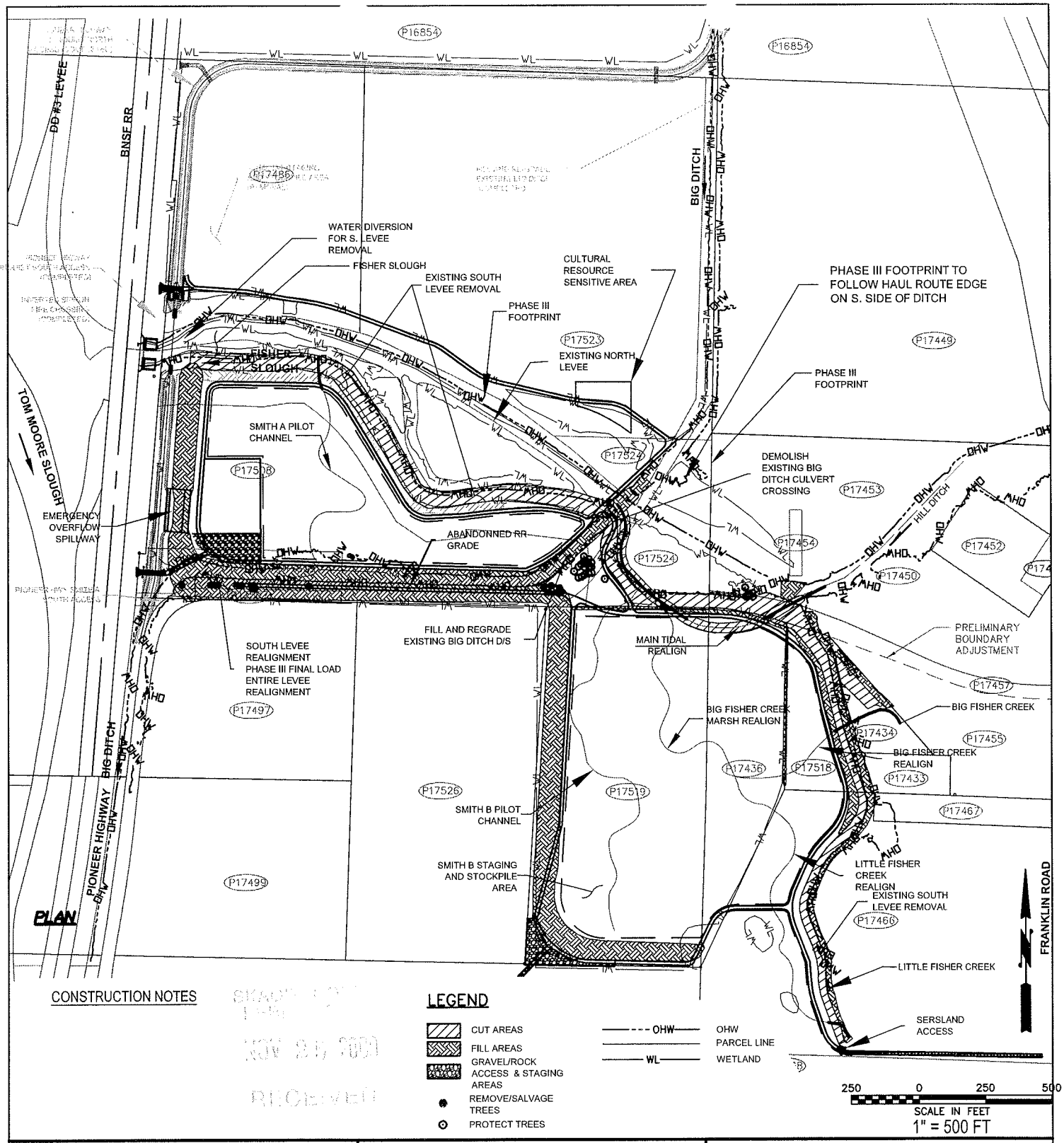
SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Phase 2
Big Ditch Realignment, Inverted Siphon, Pre-Load Levee Setback Pre-construct Pilot & Tributary Channels

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.
AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

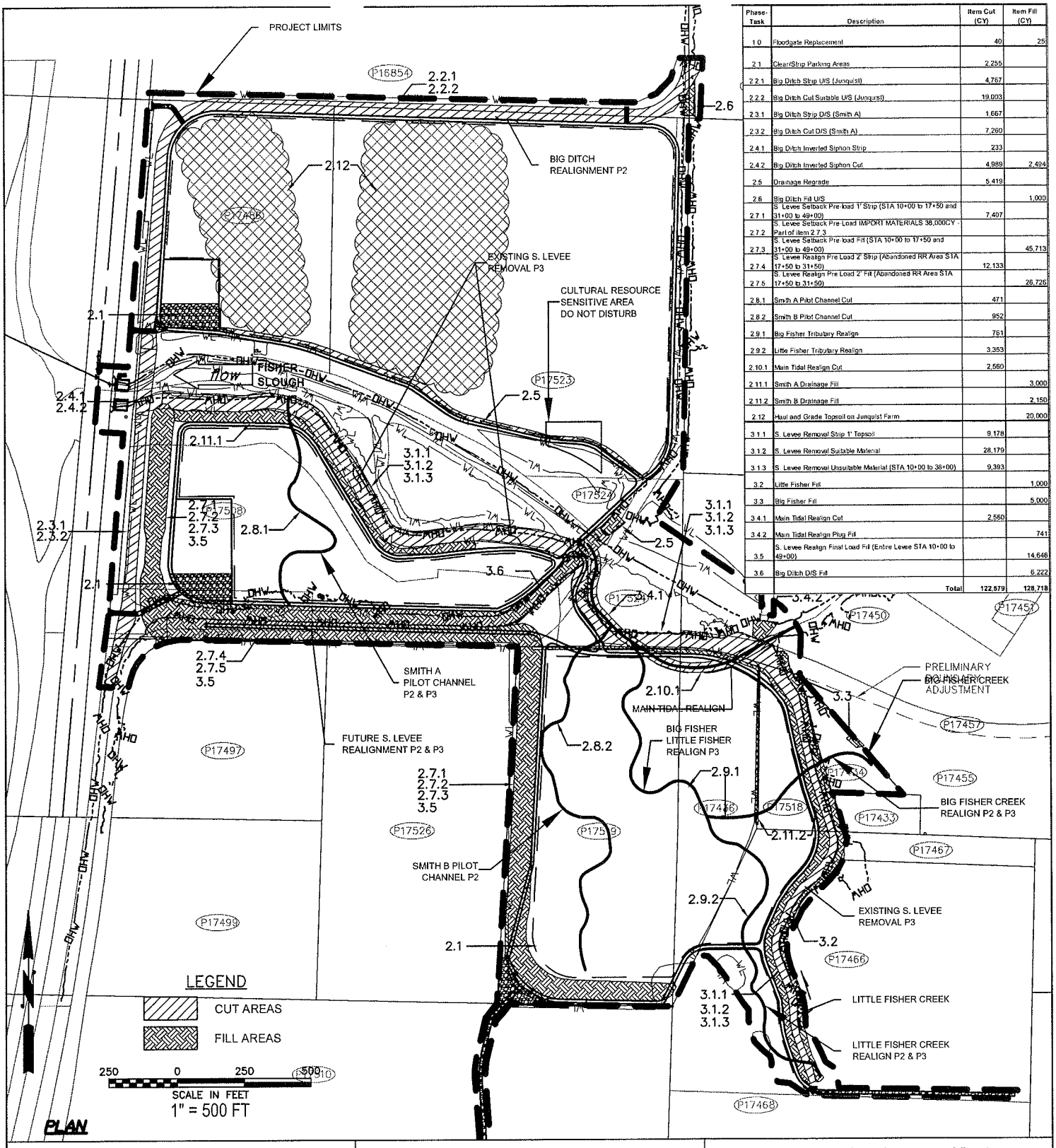
APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Phase 3
Final Load Setback, Tidal Marsh Restoration
S. Levee Removal & Tributary Connections

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



Phase-Task	Description	Item Cut (CY)	Item Fill (CY)
1.0	Floodgate Replacement	40	25
2.1	Clear/Strip Parking Areas	2,255	
2.2.1	Big Ditch Strip U/S (Junquist)	4,767	
2.2.2	Big Ditch Cut Suitable U/S (Junquist)	19,003	
2.3.1	Big Ditch Strip D/S (Smith A)	1,667	
2.3.2	Big Ditch Cut D/S (Smith A)	7,260	
2.4.1	Big Ditch Inverted Siphon Strip	233	
2.4.2	Big Ditch Inverted Siphon Cut	4,989	2,494
2.5	Drainage Regrade	5,419	
2.6	Big Ditch Fill U/S		1,000
2.7.1	S. Levee Setback Pre-load 1' Strip (STA 10+00 to 17+50 and 31+00 to 49+00)	7,407	
2.7.2	S. Levee Setback Pre-Load IMPORT MATERIALS 38,000CY - Part of item 2.7.3		
2.7.3	S. Levee Setback Pre-load Fill (STA 10+00 to 17+50 and 31+00 to 49+00)		45,713
2.7.4	S. Levee Realign Pre Load 2' Strip (Abandoned RR Area STA 17+50 to 31+50)	12,133	
2.7.5	S. Levee Realign Pre Load 2' Fill (Abandoned RR Area STA 17+50 to 31+50)		26,726
2.8.1	Smith A Pilot Channel Cut	471	
2.8.2	Smith B Pilot Channel Cut	952	
2.9.1	Big Fisher Tributary Realign	761	
2.9.2	Little Fisher Tributary Realign	3,353	
2.10.1	Main Tidal Realign Cut	2,560	
2.11.1	Smith A Drainage Fill		3,000
2.11.2	Smith B Drainage Fill		2,150
2.12	Haul and Grade Topsoil on Junquist Farm		20,000
3.1.1	S. Levee Removal Strip 1' Topsoil	9,178	
3.1.2	S. Levee Removal Suitable Material	28,179	
3.1.3	S. Levee Removal Unsuitable Material (STA 10+00 to 38+00)	9,393	
3.2	Little Fisher Fill		1,000
3.3	Big Fisher Fill		5,000
3.4.1	Main Tidal Realign Cut	2,560	
3.4.2	Main Tidal Realign Plug Fill		741
3.5	S. Levee Realign Final Load Fill (Entire Levee STA 10+00 to 49+00)		14,646
3.6	Big Ditch D/S Fill		6,222
	Total	122,579	128,718

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Grading Plan

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
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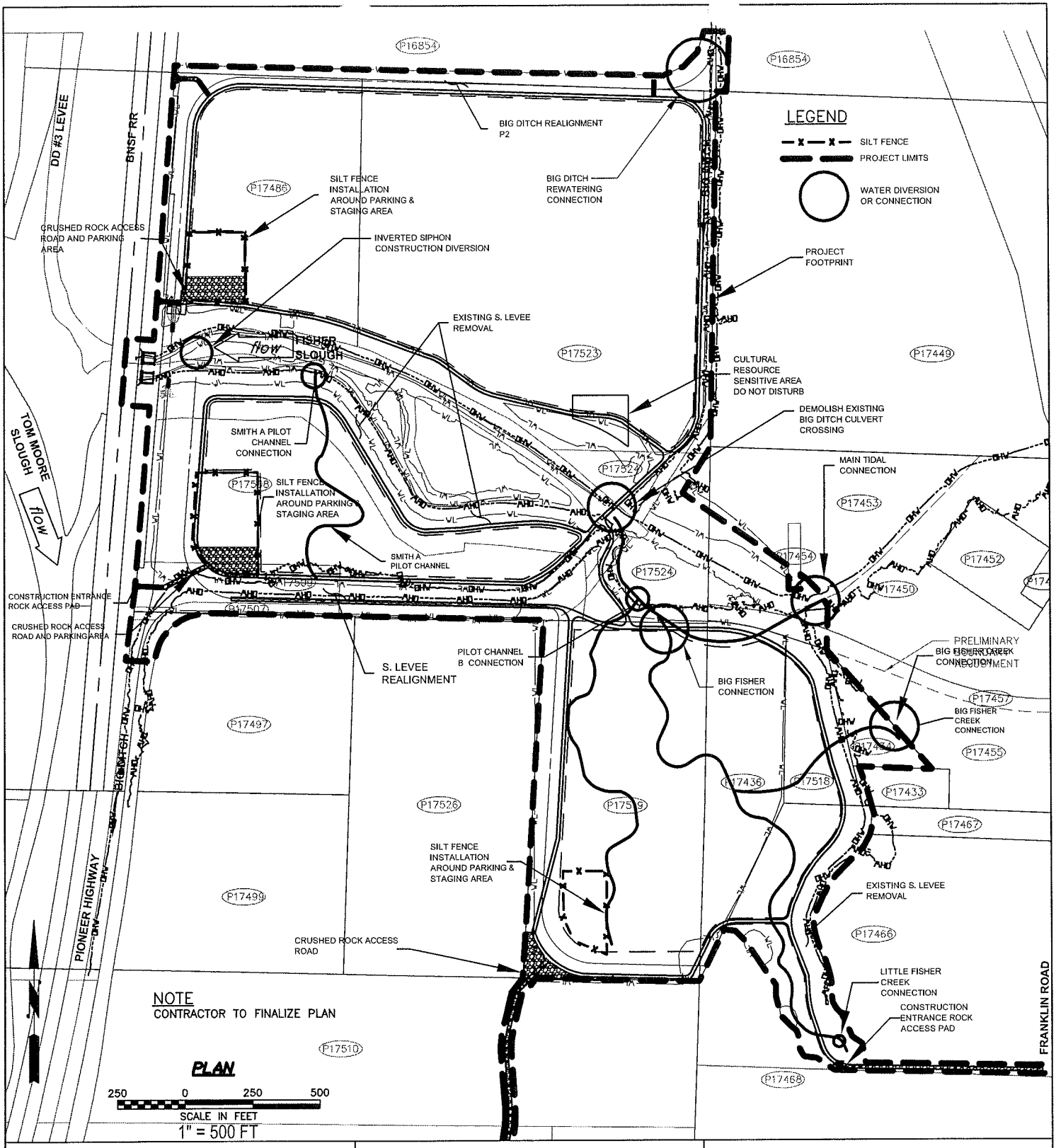

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

PRELIMINARY
TESC & Water Control Plan

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
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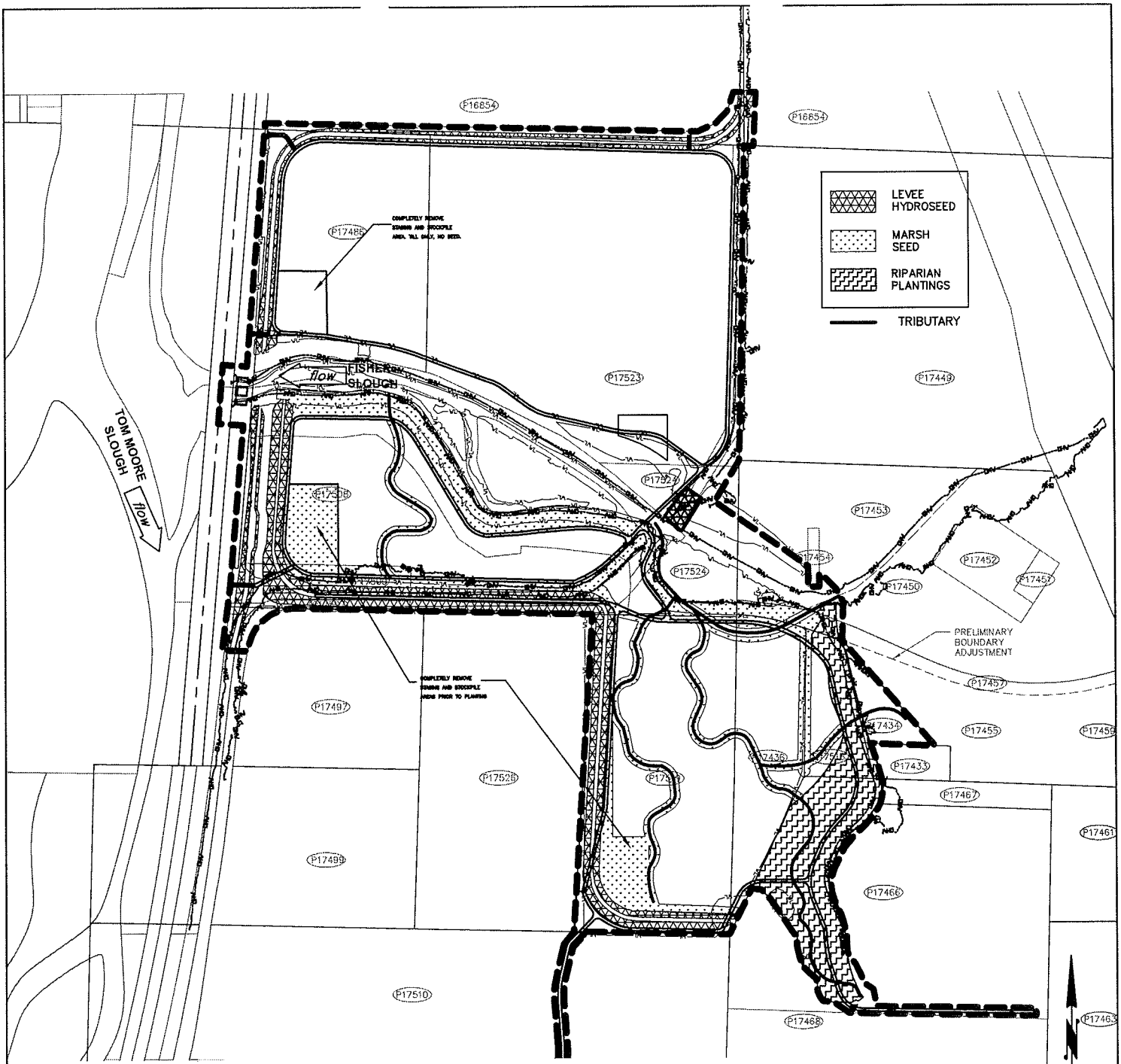

CONSTRUCTION NOTES

1. RIPARIAN PLANTINGS TO OCCUR IN FALL/WINTER 2010/2011
2. SEEDING, RAKING AND WATERING HIGH/LOW MARSH AREA 1 MONTH PRIOR TO LEVEE BREACH, JUNE–JULY 2011
3. HYDROSEEDING LEVEES AND WATERING PRIOR TO LEVEE BREACH JULY/AUG. 2011

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
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SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.
AT / NEAR: Mt. Vernon COUNTY: Skagit
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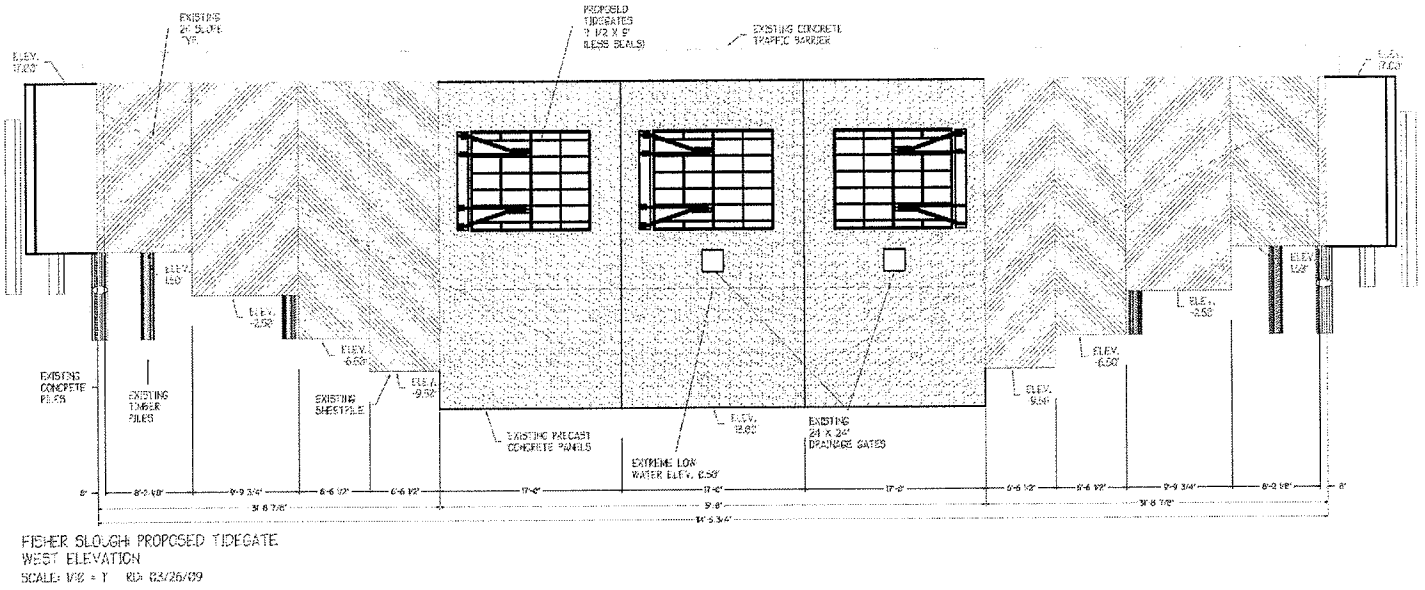
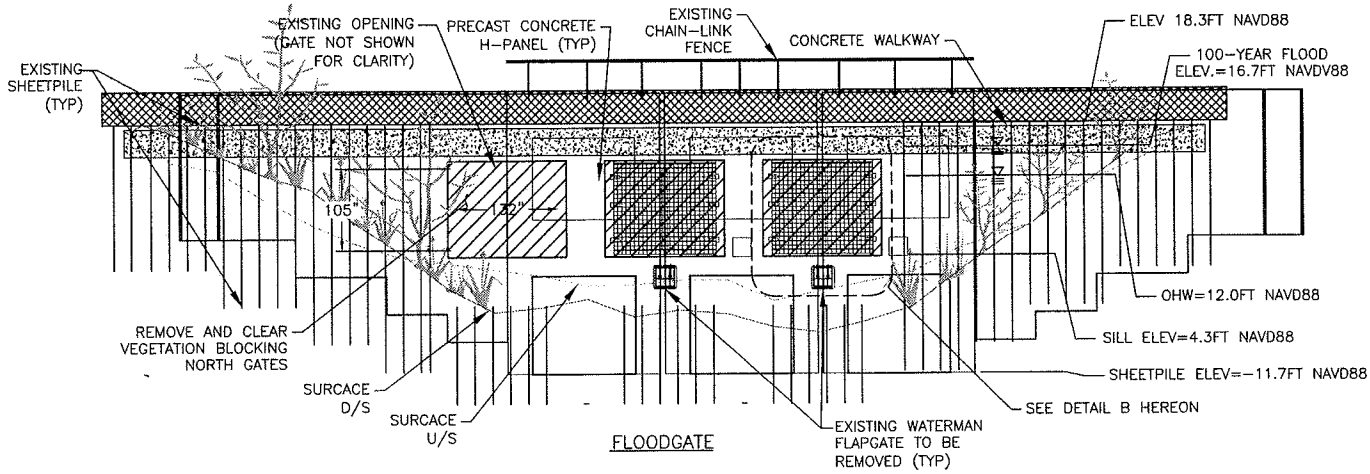
DATE: Nov, 23 2009

Planting Plan



FISHER SLOUGH PROPOSED TIDEGATE
WEST ELEVATION
SCALE: 1/8" = 1' RD: 03/26/09

FLOOD GATE INSTALLATION SECTION



EXISTING FLOODGATE ELEVATION

CONSTRUCTION NOTES

1. FLOODGATE REPLACEMENT TO OCCUR IN SEPT. 2009

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
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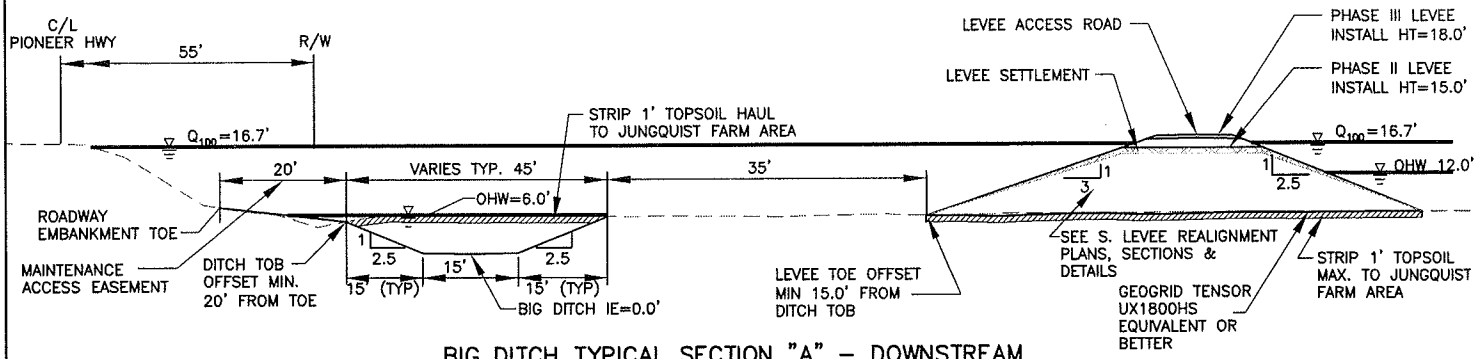
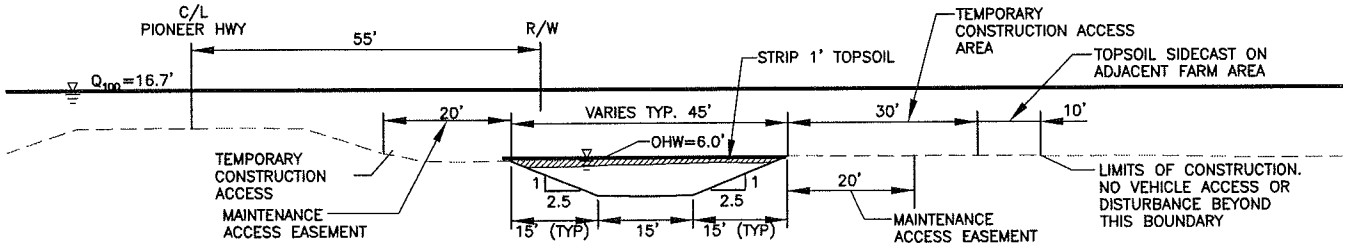
SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Floodgate Replacement
Section View

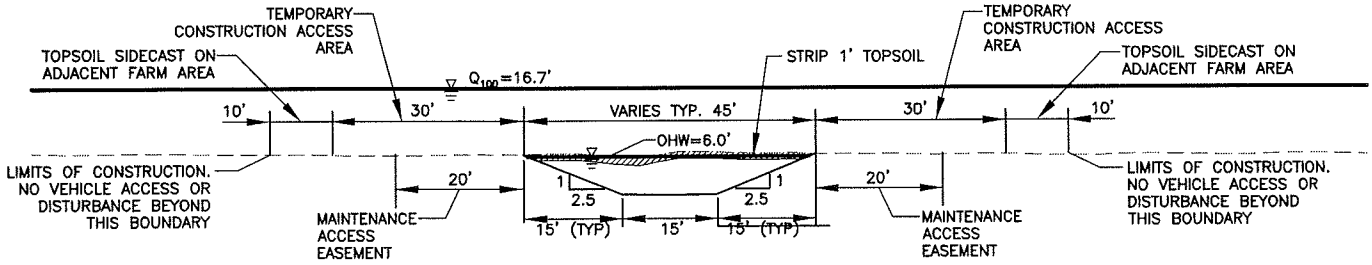
PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.
AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009 **SHEET 9 OF** 20



BIG DITCH TYPICAL SECTION "A" – DOWNSTREAM
STA 10+00 TO STA 20+00
(SMITH A LEVEE SETBACK AREA)



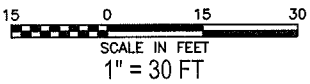
BIG DITCH TYPICAL SECTION "B"
STA 23+00 TO STA 31+00
(JUNGQUIST FARM/ PIONEER HWY AREA)



BIG DITCH TYPICAL SECTION "C" – UPSTREAM
STA 31+00 TO STA 51+60
(JUNGQUIST FARM AREA)

CONSTRUCTION NOTES

1. EXCAVATE BIG DITCH PER SECTIONS, PLANS AND DETAILS
2. STRIP TOPSOILS AND EITHER SIDECAST OR HAUL AND DUMP MATERIALS ON JUNQUIST FARM AREA.
3. ROLLER COMPACT W/ SHEEPSFOOT CHANNEL SIDESLOPES AND BOTTOM TO 90% MAX. DRY DENSITY (ASTMD-698).
4. PLUG FILL EXISTING BIG DITCH AT LOCATIONS SHOWN ON GRADING PLAN.



1" = 30 FT

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
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APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Typical Big Ditch Realignment Sections

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
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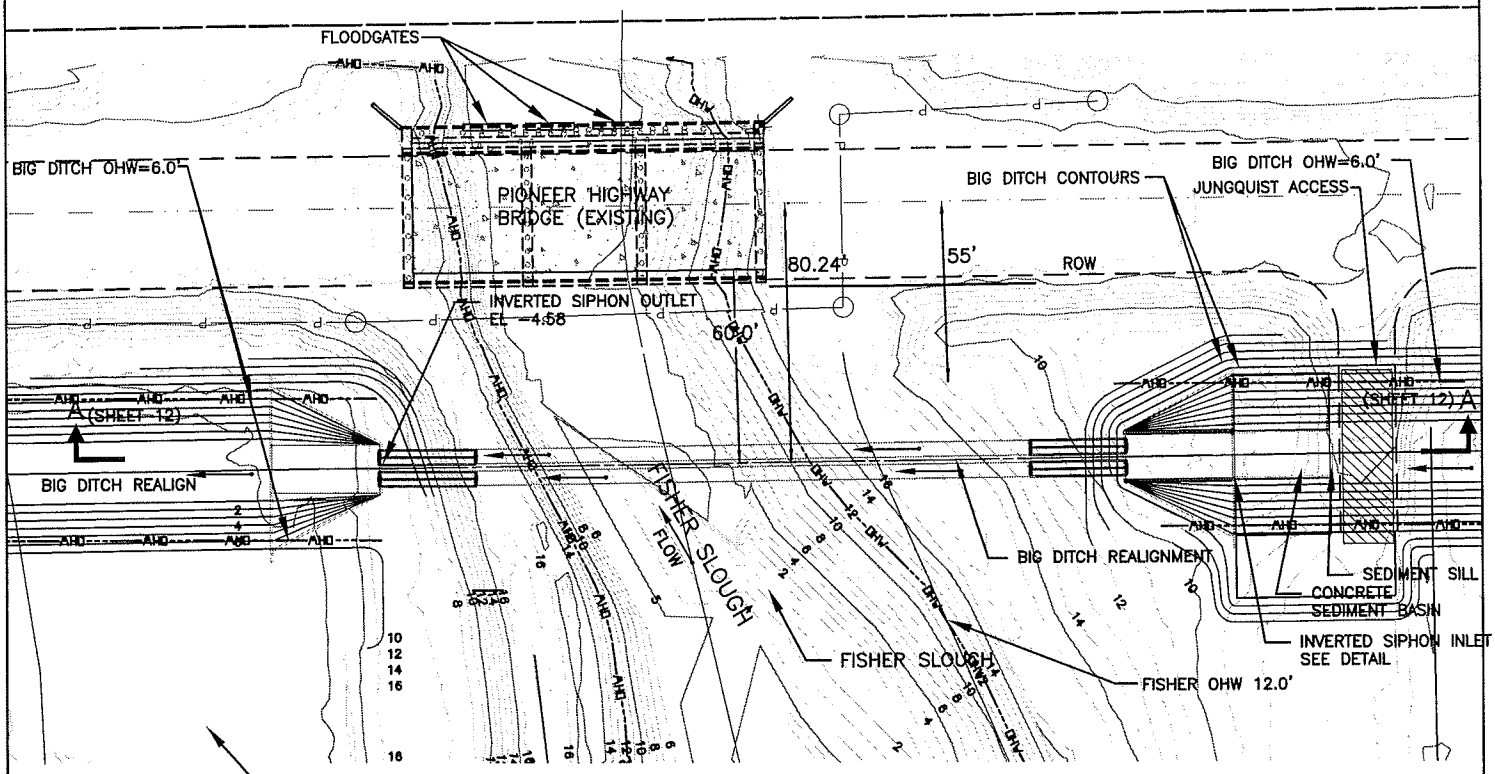

INVERTED SIPHON CROSSING DETAILED PLAN

LEGEND

- EXISTING GROUND
- PROPOSED CHANNEL INVERT
- SIPHON STRUCTURE AND PIPE
- FLOW DIRECTION ARROW

CONSTRUCTION NOTES

TOTAL PIPE LENGTH = 234.17'
PORTION OF PIPE WITH 0.5% SLOPE = 199.49'

1. CONSTRUCT INVERTED SIPHON STRUCTURE PARALLEL TO PIONEER HIGHWAY, FISHER SLOUGH BRIDGE.
2. INSTALL PIPES PER PRELIMINARY INVERTED SIPHON WATER CONTROL PLAN FINAL PLAN TO BE PROVIDED BY CONTRACTOR TO TNC & PERMIT AGENCIES AS NECESSARY FOR FINAL PERMITS

30 0 30 60
SCALE IN FEET
1" = 60 FT

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
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APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Inverted Siphon Installation Plan

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
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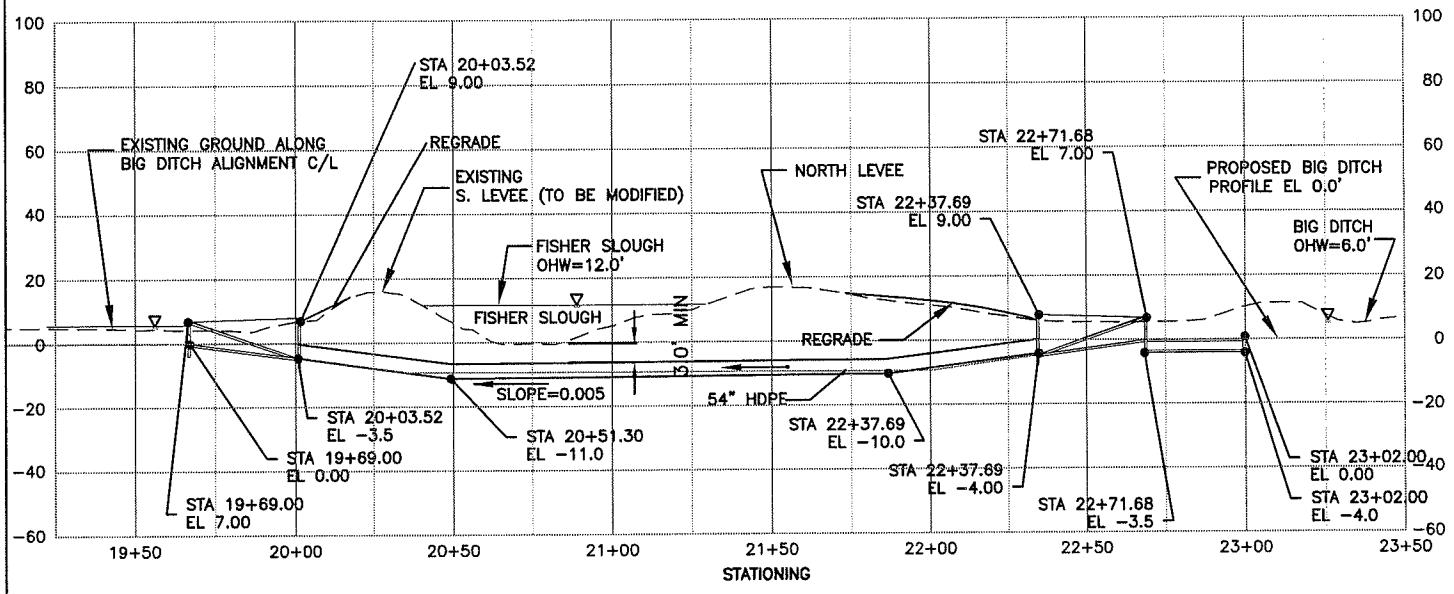
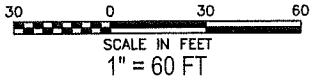


CONSTRUCTION NOTES

1. INSTALL 2 PIPES, 234' HDPE W/ 54" DIA. AND 1" WALL THICKNESS.
2. CONSTRUCT CONCRETE SEDIMENTATION BASIN, INLET/OUTLET TRANSITIONS
3. CONTRACTOR TO FINALIZE PRELIMINARY INVERTED SIPHON WATER CONTROL PLAN.
4. EXCAVATED MATERIALS SHALL BE PLACED BACK IN SOURCE CUT TRENCH MATCHING ORIGINAL GRADE. EXTRA MATERIAL SHALL BE DISPOSED OF AS FILL GRADING IN OTHER ON-SITE PROJECT STRUCTURES.



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LAT 48° 19' 25", LONG 122° 20' 38"
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APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Inverted Siphon Profile Detail

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

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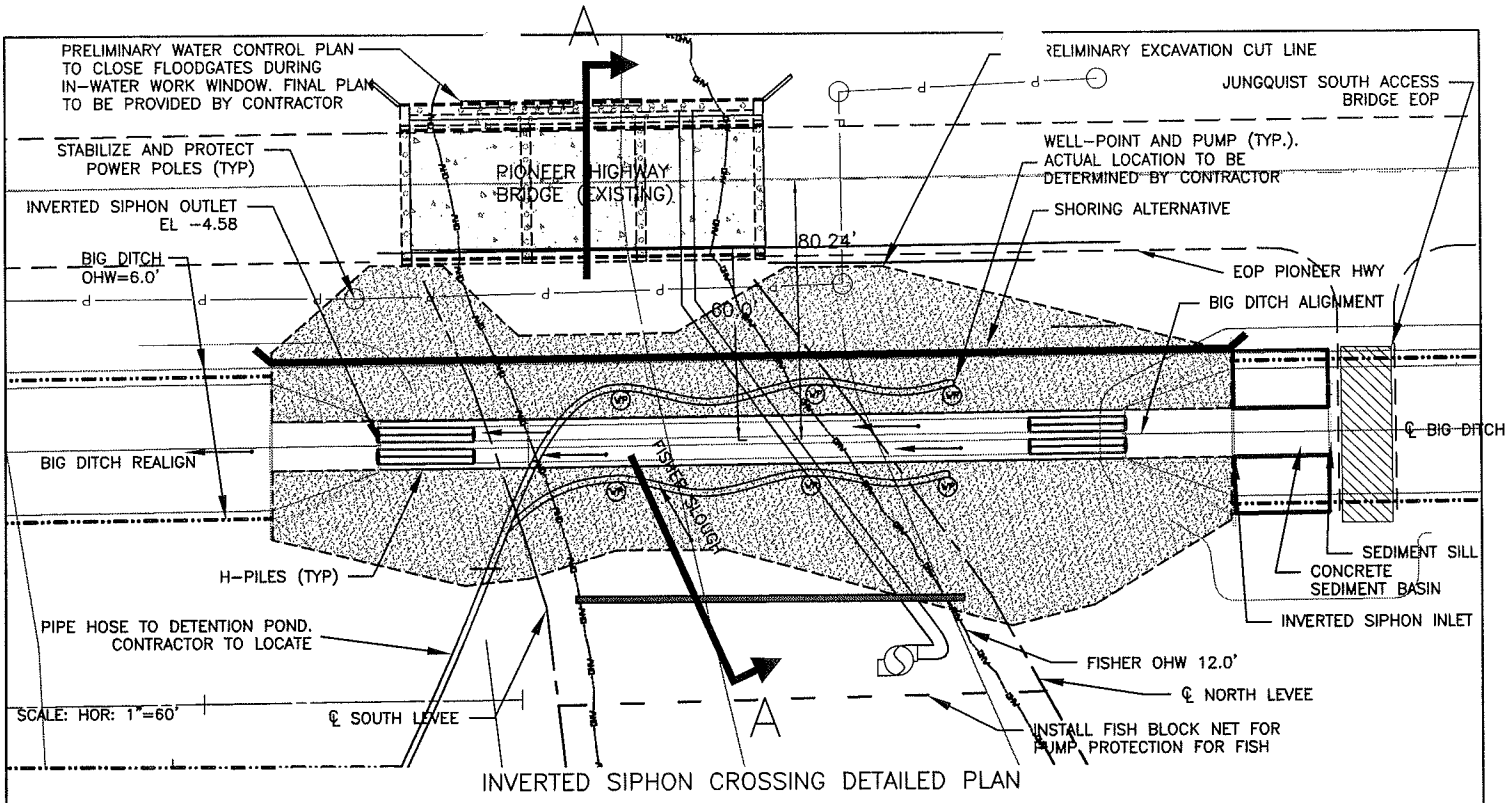
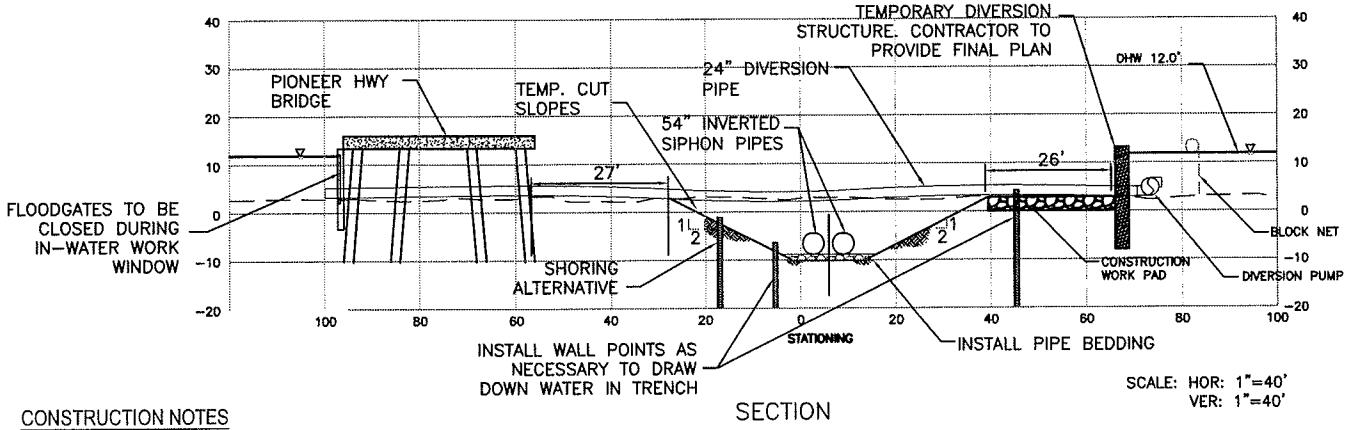


INVERTED SIPHON CROSSING DETAILED PLAN



SECTION

CONSTRUCTION NOTES

1. THIS IS A PRELIMINARY CONSTRUCTION, SHORING, DEWATERING PLAN ONLY. PLAN TO BE UPDATED AND SUBMITTED TO TNC FOR FINAL APPROVAL AND FINAL PERMITS. CONTRACTOR WILL COMPLY W/ PERMIT REQUIREMENTS.
2. INVERTED SIPHON IN-WATER CONSTRUCTION WINDOW IS AUG. 1 TO OCT. 15, 2010.
3. CLOSE FLOODGATES TO ISOLATE SITE DURING IN-WATER WORK WINDOW.
4. INSTALL UPSTREAM DIVERSION STRUCTURE BY-PASS PUMP AND PIPE SIZED TO ACCOMMODATE TRIBUTARY FLOWS DURING IN-WATER WORK WINDOW.
5. EXCAVATE TRENCH AND INSTALL PIPES PER PLANS AND SPECS. PROVIDE PROTECTIVE SHORING AS NECESSARY.
6. SURVEY AND MONITOR BRIDGE FOR SETTLEMENT AND DEFORMATION DURING CONSTRUCTION. PROVIDE REPORTS TO TNC AND SKAGIT CO. ROADS
7. REMOVE ALL TEMPORARY CONSTRUCTION MEASURES UPON COMPLETION.
8. FILL, LIGHTLY COMPACT AND REGRADE SITE TO MATCH ORIGINAL CONDITIONS. LEVEE AREAS TO BE RECONSTRUCTED USING TYPICAL LEVEE DESIGN PLANS & SPECS.

LEGEND

- EXISTING GROUND
- PROPOSED CHANNEL INVERT
- FLOW DIRECTION ARROW
- TEMP. CUT SLOPE
- TEMP. CUT LINE
- POWER LINE

20 0 20 40
SCALE IN FEET
1" = 40 FT

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

PRELIMINARY INVERTED SIPHON WATER CONTROL PLAN

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

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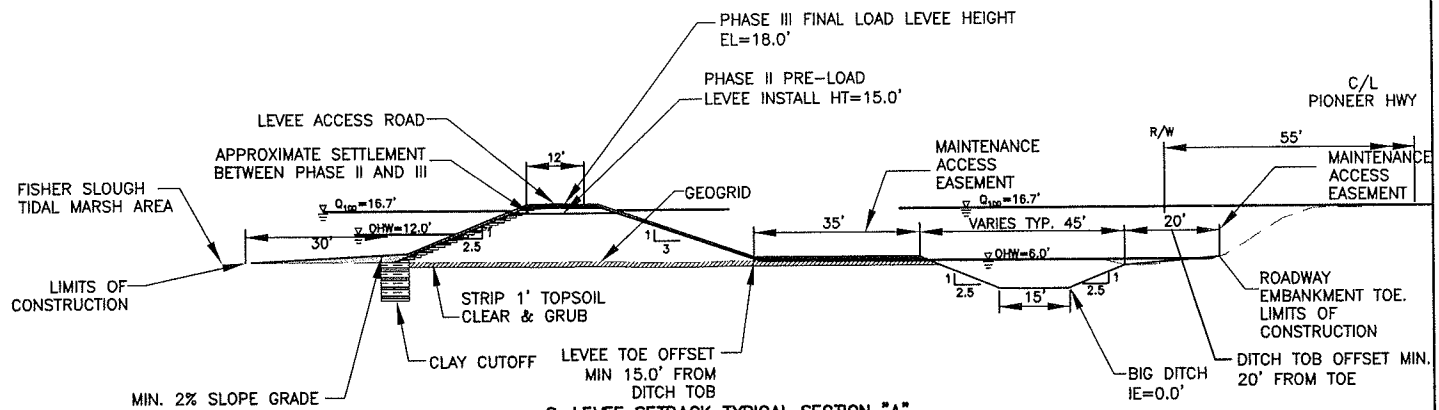
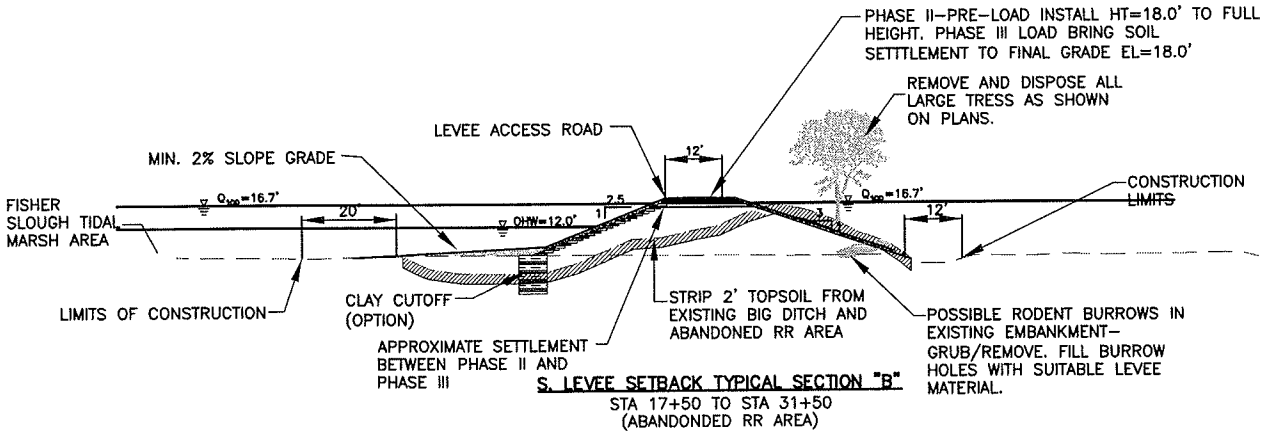
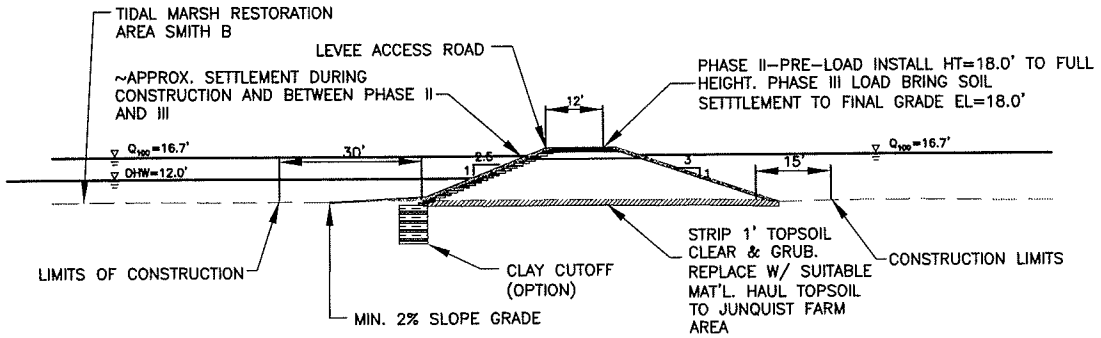


S. LEVEE SETBACK TYPICAL SECTION "A"
STA 10+00 TO STA 17+50
(BIG DITCH REALIGNMENT AREA)



S. LEVEE SETBACK TYPICAL SECTION "B"
STA 17+50 TO STA 31+50
(ABANDONDED RR AREA)



S. LEVEE SETBACK TYPICAL SECTION "C"
STA 31+50 TO STA 49+00
(SMITH B AREA)

CONSTRUCTION NOTES

1. CLEAR AND STRIP TOPSOIL. DEPTHS WILL VARY ALONG ALIGNMENT. DISPOSE OF TOPSOIL ON-SITE JUNGQUIST FARM AREA.
2. REMOVE AND SALVAGE LARGE TREES. STOCKPILE TREES IN SMITH A AND SMITH B STAGING/STOCKPILE AREAS. SEE LANDSCAPE PLAN FOR CONTRACT OPTION TO PLACE SALVAGED LWD IN MARSH.
3. BUILD LEVEES TO GEOMETRIES SHOWN IN SECTIONS. PHASE II LEVEE HEIGHTS IN PRE-LOAD AREAS DIFFER.
4. LEVEE FILL WILL USE SUITABLE MATERIALS ONLY AS SPECIFIED IN CONTRACT SPECIFICATIONS, AND GEOTECHNICAL ENGINEERING REPORTS. CONTRACTOR TO PROVIDE SAMPLING AND LAB TESTING EVERY 1,000CY TO DOCUMENT SUITABLE MATERIAL PLACEMENT IN LEVEE.
5. COMPACT LEVEE FILL TO 95% MAX. DRY DENSITY (ASTM D-698). SOIL MOISTURE CONTENT SHALL BE WITHIN 2% OF OPTIMUM MOISTURE.
6. CONSTRUCT LEVEE ACCESS ROAD ALONG ENTIRE LEVEE.

1" = 40 FT

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

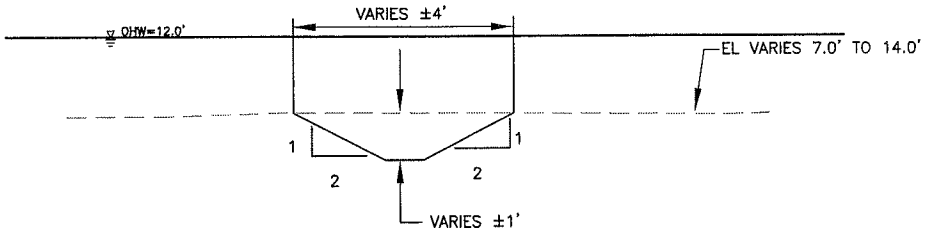
APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

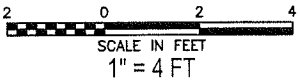
S. Levee Setback Typical Sections

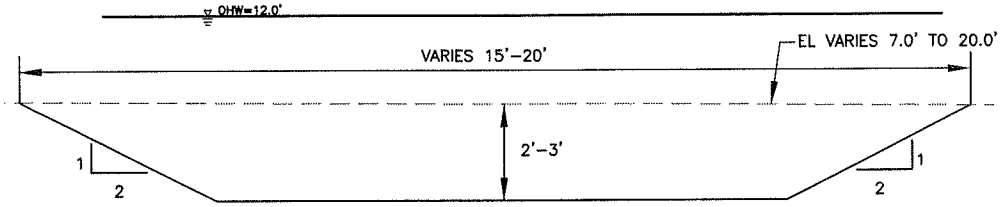
PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009

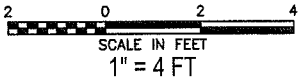


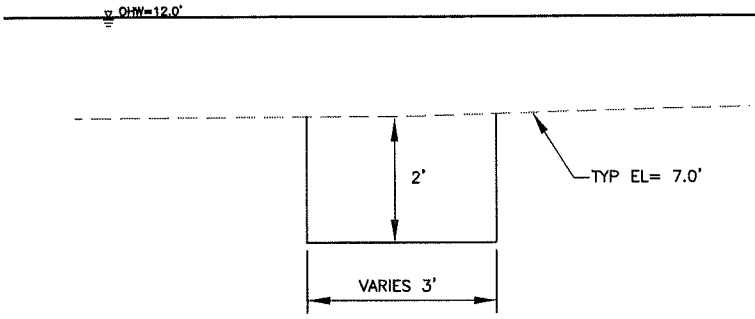
TYPICAL LITTLE FISHER CHANNEL SECTION



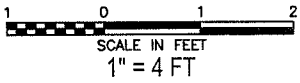


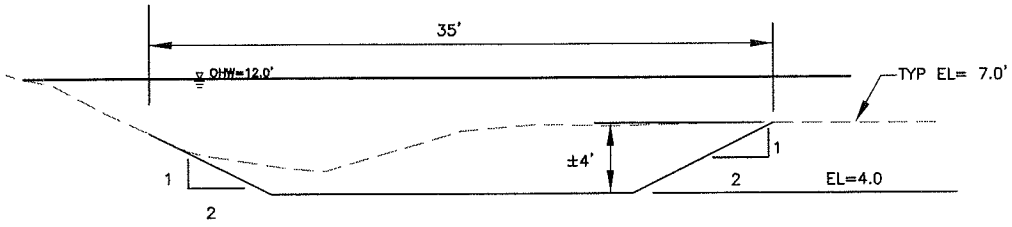
TYPICAL BIG FISHER CHANNEL SECTION



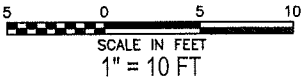


TYPICAL PILOT CHANNEL SECTION





TYPICAL MAIN TIDAL CHANNEL REALIGNMENT



CONSTRUCTION NOTES

1. CONSTRUCT CHANNELS ALONG ALIGNMENT USING TYPICAL SECTIONS AS SHOWN
2. CONNECT CHANNELS DURING PHASE III IN WATER WORK WINDOW JULY 15–OCT 15 2011

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

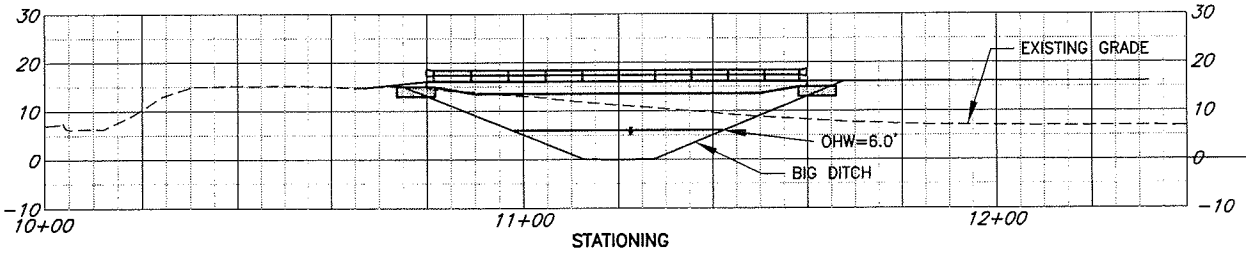
APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

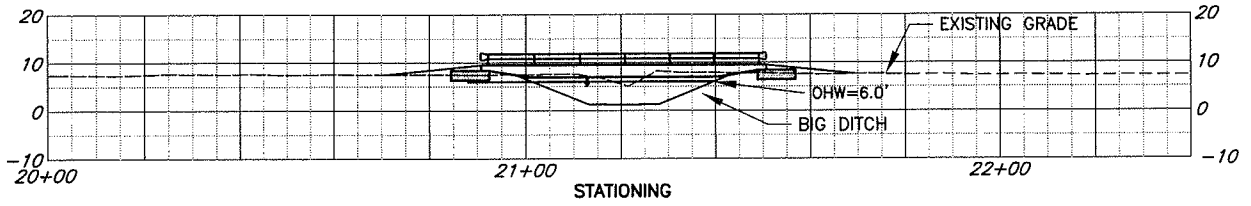
Typical Channel Sections

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



SECTION A – PIONEER/SMITH A CROSSING
(1) 80' BRIDGE



SECTION B – JUNGQUIST NORTHEAST, NORTHWEST AND SOUTH CROSSING
(3) 60' BRIDGES

CONSTRUCTION NOTES

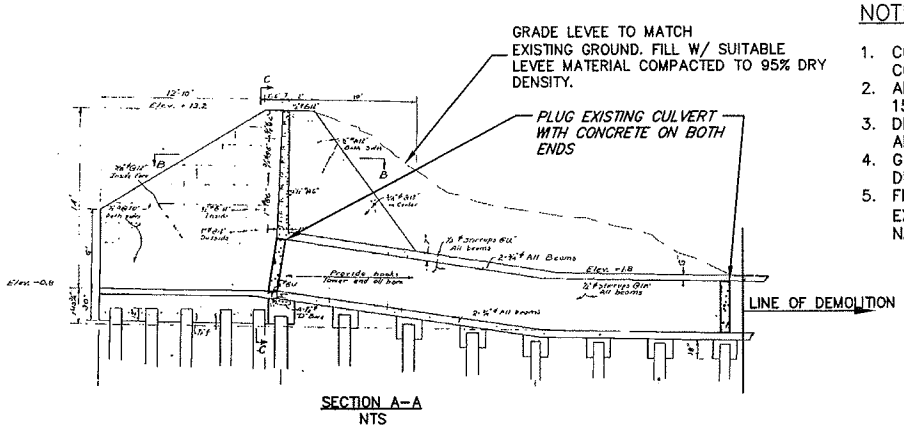
1. CONTRACTOR TO PROVIDE 4 BRIDGES AND INSTALLATION IN TOTAL. (3) 60' BRIDGES AND (1) 80' BRIDGE
2. ABUTMENTS, FOUNDATIONS AND GUARDRAILS INCLUDED IN BRIDGE PURCHASE AND INSTALLATION
3. ALL BRIDGES SHALL MEET HS20 VEHICLE LOADING SPECIFICATIONS

SCALE: HOR: 1"=40'
VER: 1"=40'

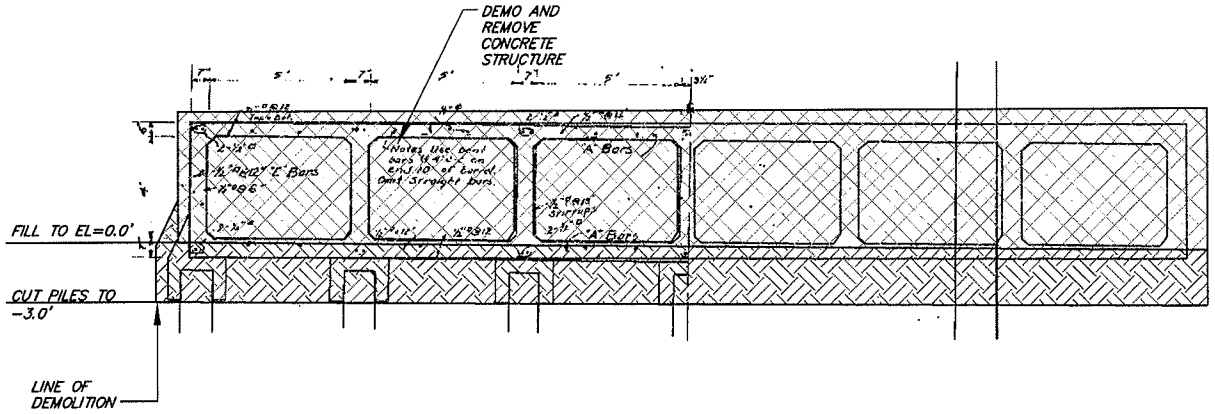
PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology SECTIONS 19, 20, 29 & 30, T33N, R04E WM LAT 48° 19' 25", LONG 122° 20' 38" DATUM: NAVD88 (FT)	APPLICANT: THE NATURE CONSERVANCY SITE LOCATION ADDRESS: PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE **Typical Bridge Crossings**	PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections. AT / NEAR: Mt. Vernon COUNTY: Skagit STATE: WA DATE: Nov, 23 2009 **SHEET 16 OF** 20

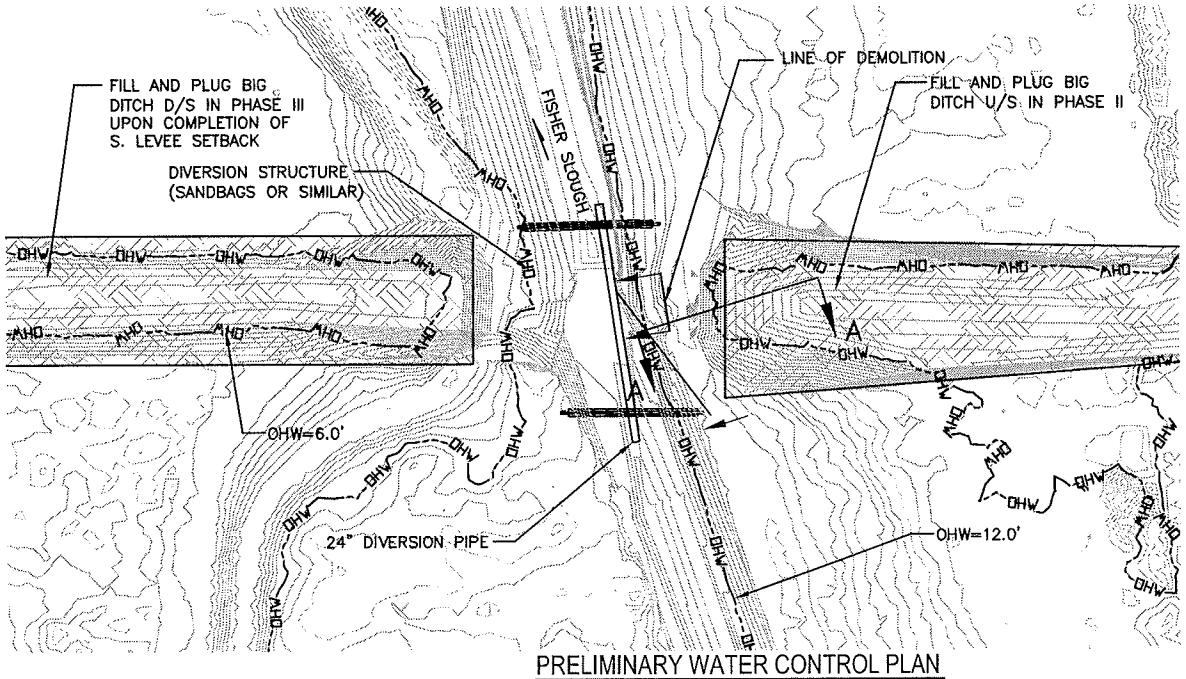
NOTES:

1. CONTRACTOR RESPONSIBLE FOR FINALIZING WATER CONTROL PLAN
2. ALL IN-WATER WORK TO OCCUR BETWEEN JULY 15-OCT. 15, 2011
3. DISPOSE OF ALL CONCRETE AT OFF-SITE UPLAND AREA
4. GRADE AREAS TO MATCH EXISTING LINE OF DEMOLITION
5. FISHER SLOUGH CHANNEL FILL GRADE TO MATCH EXISTING CHANNEL U/S AND D/S AT EL=4.0' NAVD88



SECTION A-A
NTS





PRELIMINARY WATER CONTROL PLAN

SCALE
1" = 100 FT

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

EXISTING BIG DITCH CULVERT DEMO AND DIVERSION PLAN

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
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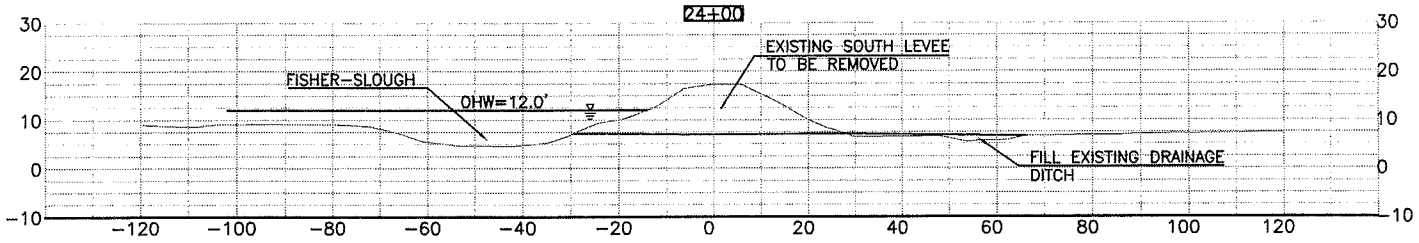
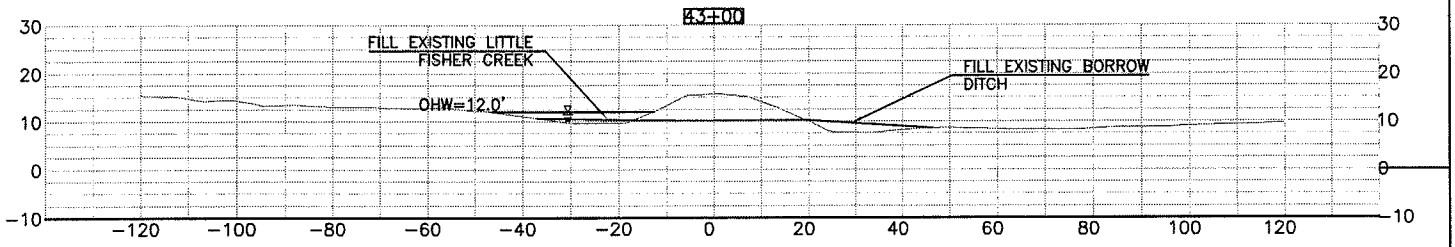
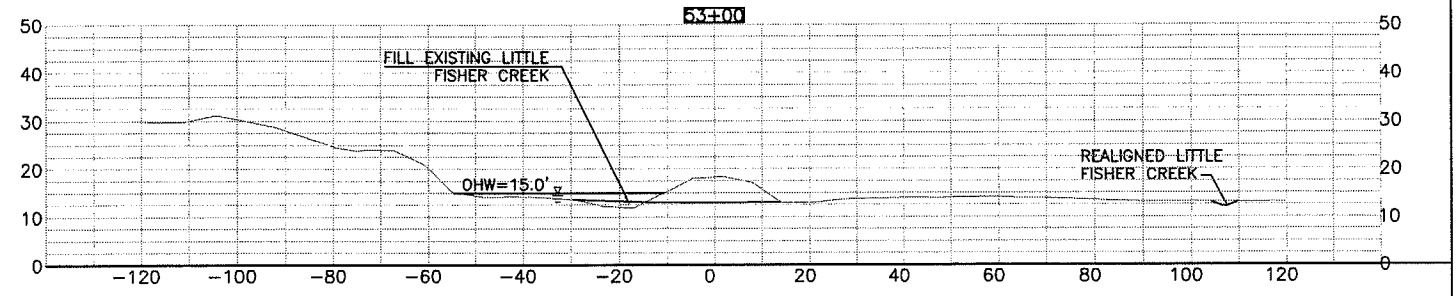






CONSTRUCTION NOTES

1. REMOVE EXISTING S. LEVEE IN PHASE III CONSTRUCTION IN 2011
2. REMOVE LEVEE USING SEQUENCING AS SHOWN IN SHEET 20. MATCH EXISTING MARSH AND FLOODPLAIN GRADE
3. REUSE SUITABLE LEVEE MATERIALS IN S. LEVEE SETBACK, AS FEASIBLE
4. DISPOSE OF CUT MATERIAL IN ON-SITE FILL GRADING AREAS AS SHOWN IN PLANS
5. DISPOSE OF EXCESS MATERIALS AT OFF-SITE UPLAND LOCATION
6. HYDROSEED LEVEES UPON COMPLETION PER PLANTING PLAN SHEET 19

SCALE

HORIZ. 1" = 40 FT
VERTICAL 1" = 40 FT

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology

SECTIONS 19, 20, 29 & 30, T33N, R04E WM
LAT 48° 19' 25", LONG 122° 20' 38"
DATUM: NAVD88 (FT)

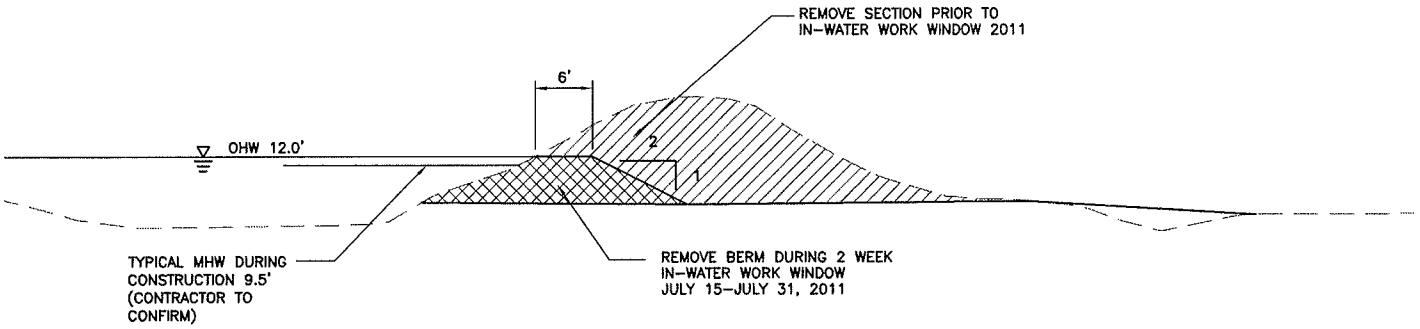
APPLICANT: THE NATURE CONSERVANCY

SITE LOCATION ADDRESS:
PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE

Typical S.. Levee Removal Sections

PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections.

AT / NEAR: Mt. Vernon COUNTY: Skagit
STATE: WA
DATE: Nov, 23 2009



PRELIMINARY EXISTING S. LEVEE REMOVAL SEQUENCE

CONSTRUCTION NOTES

1. PRE EXCAVATE AND REMOVE LANDWARD SIDE OF LEVEE AS SHOWN ON PLANS
2. PERFORM PRE-EXCAVATION WORK AFTER MAY 30 AND PRIOR TO JULY 15, 2011
3. REMAINING BERM SHALL HAVE MINIMUM 6' TOP WIDTH AND 2:1 TEMPORARY CUT SLOPES
4. REMOVE AND BREACH BERM DURING 2-WEEK IN-WATER WORK WINDOW JULY 15-JULY 31, 2011
5. FLOODGATES WILL BE SET TO OPERATE W/O MTR CONTROL SETTING AND ALLOWED TO OPEN/CLOSE WITHOUT CONTROL RESISTANCE. THIS WILL ELIMINATE/REDUCE TIDAL INFLOW TO SITE
6. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONTINGENCY MEASURES INCLUDING PUMPS TO ALL BREACH/REMOVAL CONSTRUCTION
7. FINAL S. LEVEE REMOVAL SEQUENCE AND WATER CONTROL PLAN WILL BE DEVELOPED BY AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

PURPOSE: To restore fish and wildlife habitat by reconnecting tidal hydrology SECTIONS 19, 20, 29 & 30, T33N, R04E WM LAT 48° 19' 25", LONG 122° 20' 38" DATUM: NAVD88 (FT)	APPLICANT: THE NATURE CONSERVANCY SITE LOCATION ADDRESS: PIONEER HIGHWAY AND FISHER SLOUGH BRIDGE PRELIMINARY EXISTING S. LEVEE REMOVAL SEQUENCE AND WATER CONTROL PLAN	PROPOSED: Phase 1 Replacement of floodgate structure. Phase 2 Big Ditch realignment, inverted Siphon installation and Levee setback pre-loading including excavation and placement of fill, pre-construct pilot and tributary channels. Phase 3 Levee setback final loading, Levee removal and Tidal Marsh restoration including Fisher Creeks and Pilot Channel connections. AT / NEAR: Mt. Vernon COUNTY: Skagit STATE: WA DATE: Nov, 23 2009 **SHEET 19 OF** 20