US Army Corps of Engineers
Seattle District

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone: (206) 764-6960
ATTN: Olivia Romano,
Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone: (360) 407-6068
ATTN: SEA Program,
Federal Permit Coordinator

Public Notice Date: July 7, 2014
Expiration Date: August 6, 2014

Reference No.: NWS-2014-00247-WRD
Name: Seattle Public Utilities

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings dated April 2014.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA). Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: Seattle Public Utilities
Attention: Ms. Karen Iwasaki
P.O. Box 34018
Seattle, Washington 98124-4018
Telephone: (206) 615-0867

LOCATION: In Chester Morse Lake, near North Bend, King County, Washington.

WORK: Dredging of 6,000 cubic yards of sediment from the outlet channel of Chester Morse Lake (sheets 4, 5, and 6) and dispose of the dredge material in a two acre disposal area located in the lake about 1,000 feet northeast of the discharge dike (Sheet 10). Dredging would be conducted from barges using a mechanical dredge equipped with an environmental bucket. The sediment would be transported to the disposal site on barges. The dredged sediment would be placed into the lake at the disposal site using equipment staged on the barge. Up to 30 hollow pipe piles would be driven and filled with up to 300 cubic yards of pour-in-place concrete to secure the floating pump plant and pipelines.

WORK NOT IN CORPS JURISDICTION: Work outside the Corps jurisdiction includes installation of: **a)** an interlocking vertical sheet pile wall on both sides of the Outlet Channel upstream of the 200 Road Bridge, to establish a 29-foot wide channel. Sheet piles shall be driven into place from a floating barge. The channel bottom shall be stabilized with articulating pre-cast concrete block armoring (Sheets 4, 5, and 6); **b)** trapezoidal channel improvements downstream of the 200 Road Bridge, to establish a stable channel configuration using articulating pre-cast concrete block armoring to prevent side slope and toe erosion (Sheets 4, 5, and 6). an interlocking vertical sheet pile wall at the existing Discharge Dike for establishing penetration/connections for the replacement pump

plant pipelines to connect to and to reduce leakage of water from the channel through the Discharge Dike and back into Chester Morse Lake under pumping conditions (Sheet 7); **c)** a discharge apron consisting of precast concrete armoring to prevent erosion at the interface of pipeline discharge to the channel through the new Discharge Dike sheet pile wall (Sheet 7); **d)** a replacement floating pump plant that consists of a floating platform constructed from modular platform units and utilizes four separate pump units with intake screens (Sheets 8 and 9). During pumping operations, the floating pump plant shall be secured to new anchor piles; **e)** Four, 48-inch high-density polyethylene (HDPE) pipelines, each about 500 feet long, shall be installed in Chester Morse Lake (Sheets 8 and 9). These pipelines shall be submerged and neutrally buoyant, floating in sync with the lake water level. During all operating conditions, these pipelines would be secured in position using anchor piles; **f)** Six power cables shall extend from a vault near the lake shore and run along the lake bottom to the floating pump plant (Sheets 8, 9, and 12); **g)** Temporary near-shore piles may be installed at Youngs Cover and the two lake access points upstream of the Overflow Dike to assist in equipment mobilization; and **h)** three staging sites are proposed including Youngs Cove (Sheet 11) , an existing airstrip, and near the intersection of Roads 200 and 202.

PURPOSE: To provide capacity for pumped flows, to prevent sloughing of sediment into the outlet channel and to improve the capability to transfer water from Chester Morse Lake to the Masonry Pool when the lake elevations are below 1,538 feet (Chester Morse Lake datum).

DREDGED MATERIAL MANAGEMENT PROGRAM (DMMP):
Dredged Material Testing: The proposed dredged material has been tested according to the procedures specified by DMMP, a multi-agency program for the evaluation of dredged material proposed for disposal at open-water sites in Washington State. The DMMP evaluations may include both chemical and biological testing of sediments. For this project, the DMMP agencies determined that all 6,000 cubic yards were suitable for unconfined disposal at the DMMP nondispersive (or dispersive) open-water disposal site in Chester Morse Lake (Sheet 10). The sediment testing data are available at the Corps, Seattle District, Dredged Material Management Office.

ADDITIONAL INFORMATION: The existing structures (barge-mounted pump system, submerged pipelines, electrical cables and anchoring systems) associated with the Chester Morse Lake water reservoir have reached the end of their useful life. During dry conditions, the barge-mounted pump station will supply 240 million gallons per day of water from the Lake to Masonry Pool to meet instream flow requirements and municipal demands.

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.

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 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.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The Corps has determined that the proposed action will not adversely affect designated EFH for federally managed fisheries in Washington waters. No further EFH consultation is necessary.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, and other sources of information. Historic properties are recorded near the proposed project. The Corps is engaged in consultation to determine the potential effects of the proposed permitted action to historic properties. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, 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 – CORPS: 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 Corps 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.

The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

EVALUATION – ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

ADDITIONAL EVALUATION: Seattle Public Utilities has applied for a Shorelines Substantial Development permit and King County Shoreline Conditional Use permit for this project.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and

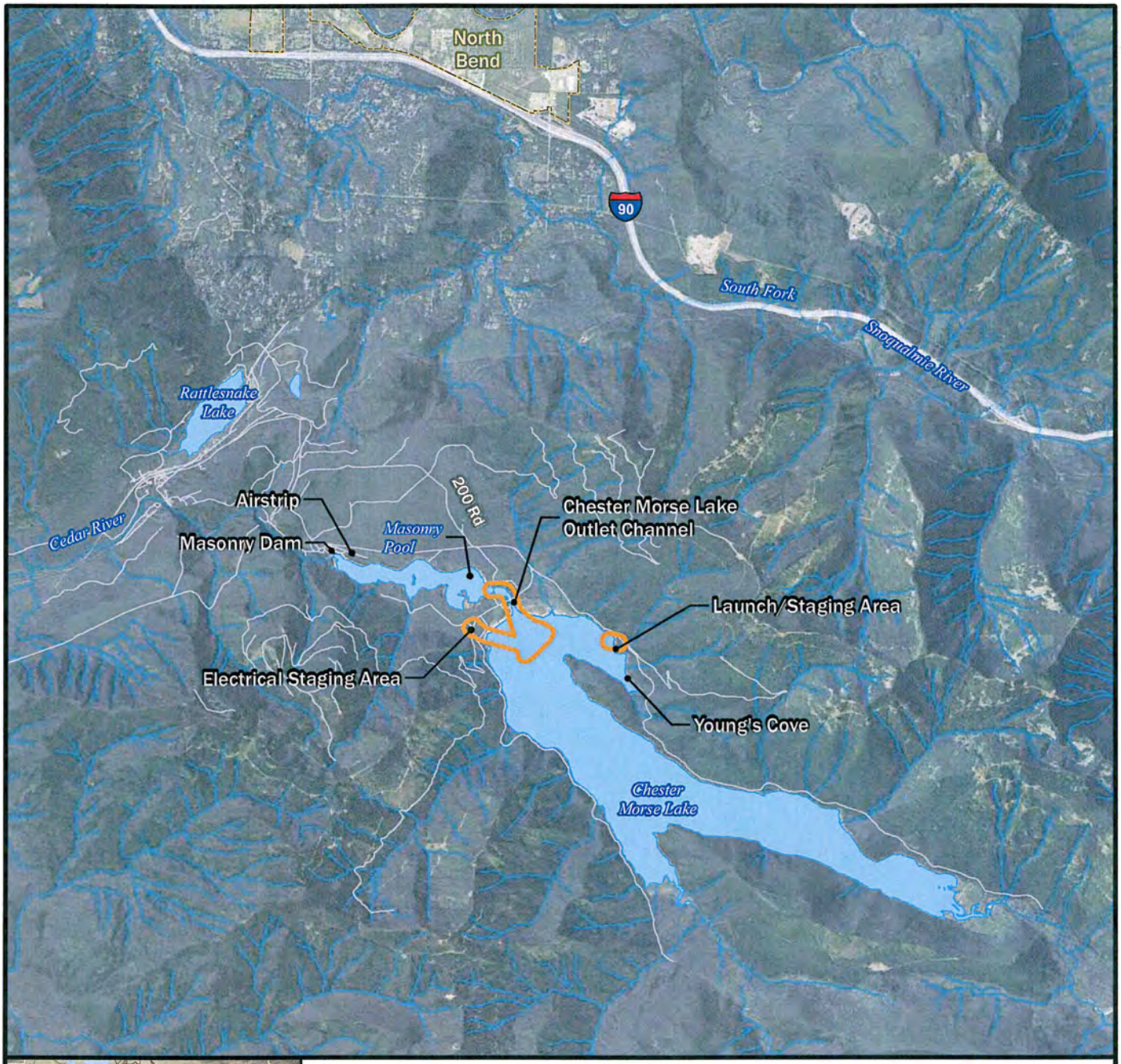
reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

CORPS COMMENTS: All e-mail comments should be sent to olivia.h.romano@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Ms. Olivia Romano, P.O. Box 3755, Seattle, Washington 98124-3755. 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.

ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Washington State Department of Ecology, Attention: Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600, or e-mail to ecyrefedpermits@ecy.wa.gov.

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Seattle Public Utilities; NWS-2014-00247-WRD

Encl: Figures 12



Vicinity Map

Legend

- Project areas
- Lake
- Creek or river
- Road
- City limit

N

0 3,500 7,000 14,000 Feet

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Project Location:
Cedar River Municipal Watershed, King County, WA

Sections 11 & 12, T 22N, R 8E
Section 7, T 22N, R 9E

Coordinates:
Latitude: 47.408457 N
Longitude: -121.722033 W

Application for:
Morse Lake Pump Plant Project

Applicant:
Seattle Public Utilities

In Waterbody:
Chester Morse Lake

Parcels:
1222089001, 0722099001

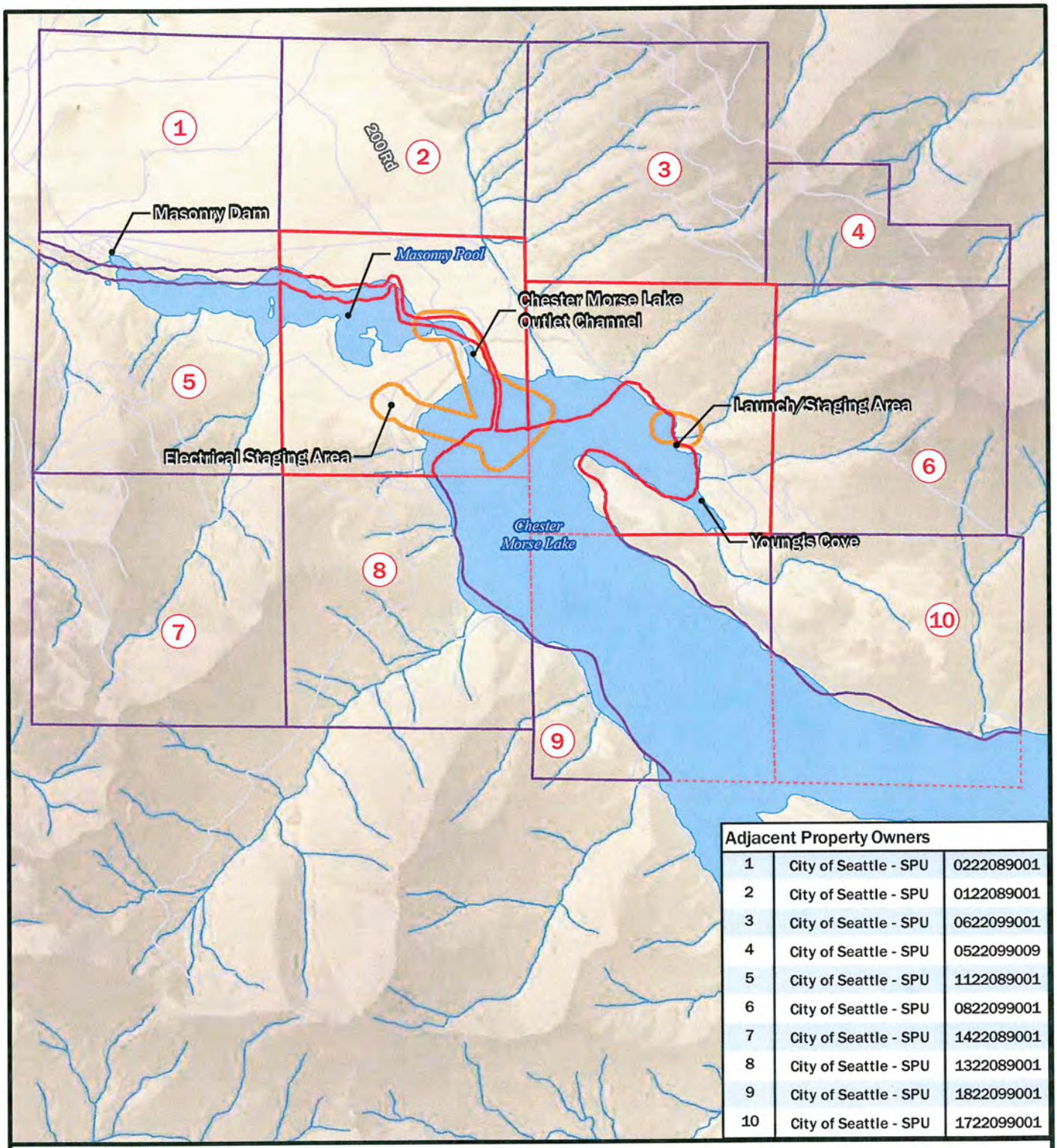
Reference:
NWS-2014-247

Purpose:
Pump Plant Replacement

Near: City of North Bend
County: King **State:** WA

Sheet: 1 of 12

Date: February 2014, Revised April 2014



Adjacent Property Owners		
1	City of Seattle - SPU	0222089001
2	City of Seattle - SPU	0122089001
3	City of Seattle - SPU	0622099001
4	City of Seattle - SPU	0522099009
5	City of Seattle - SPU	1122089001
6	City of Seattle - SPU	0822099001
7	City of Seattle - SPU	1422089001
8	City of Seattle - SPU	1322089001
9	City of Seattle - SPU	1822099001
10	City of Seattle - SPU	1722099001

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Location:
Cedar River Municipal
Watershed, King County, WA

Sheet: 2 of 12
Date: February 2014, Revised April 2014

Parcels Map

Legend

- Project parcel
- Adjacent parcel
- Water parcel
- Project areas
- Lake
- Creek or river
- Road
- City limit

N

0 900 1,800 3,600 Feet

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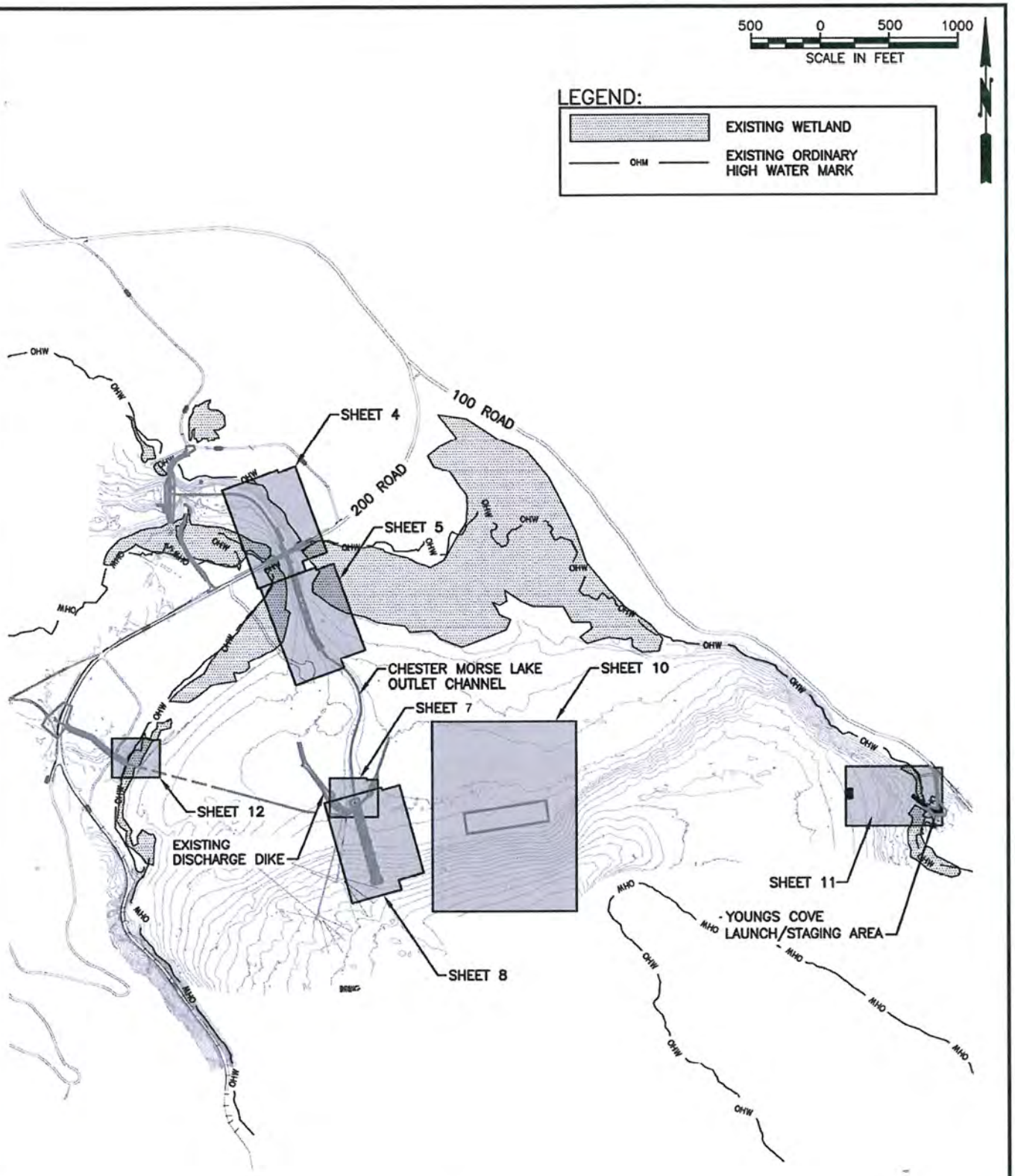

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 3 of 12 Date: April 2014

Proposed Work Areas and Key Map

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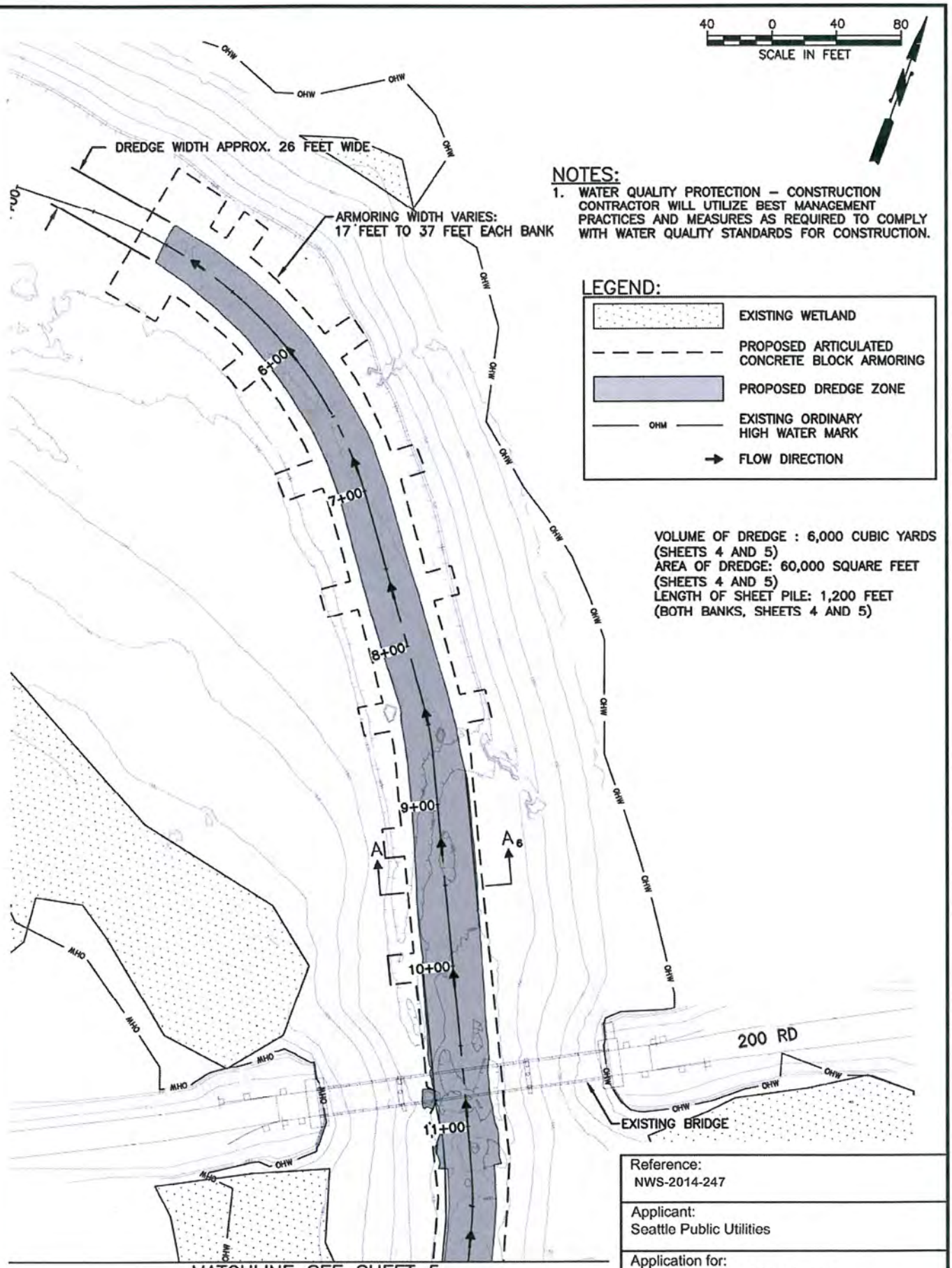

NOTES:

1. WATER QUALITY PROTECTION – CONSTRUCTION CONTRACTOR WILL UTILIZE BEST MANAGEMENT PRACTICES AND MEASURES AS REQUIRED TO COMPLY WITH WATER QUALITY STANDARDS FOR CONSTRUCTION.

LEGEND:

- EXISTING WETLAND
- PROPOSED ARTICULATED CONCRETE BLOCK ARMORING
- PROPOSED DREDGE ZONE
- OHM — EXISTING ORDINARY HIGH WATER MARK
- → FLOW DIRECTION

VOLUME OF DREDGE : 6,000 CUBIC YARDS (SHEETS 4 AND 5)
AREA OF DREDGE: 60,000 SQUARE FEET (SHEETS 4 AND 5)
LENGTH OF SHEET PILE: 1,200 FEET (BOTH BANKS, SHEETS 4 AND 5)

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 4 of 12 Date: April 2014

Trapezodial Outlet Channel Plan

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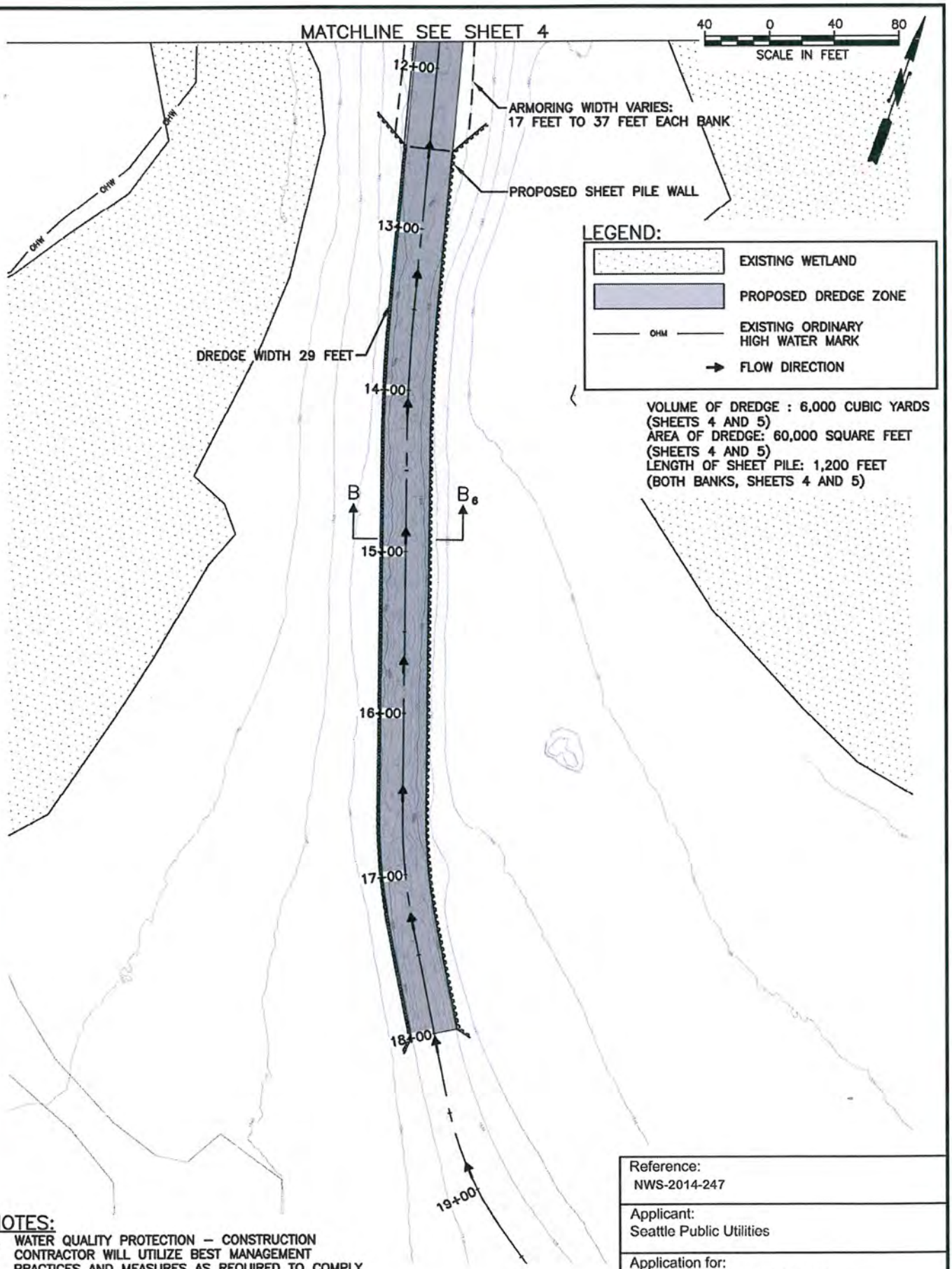

NOTES:

1. WATER QUALITY PROTECTION – CONSTRUCTION CONTRACTOR WILL UTILIZE BEST MANAGEMENT PRACTICES AND MEASURES AS REQUIRED TO COMPLY WITH WATER QUALITY STANDARDS FOR CONSTRUCTION.

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Rectangular Outlet Channel Plan

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 5 of 12 Date: April 2014

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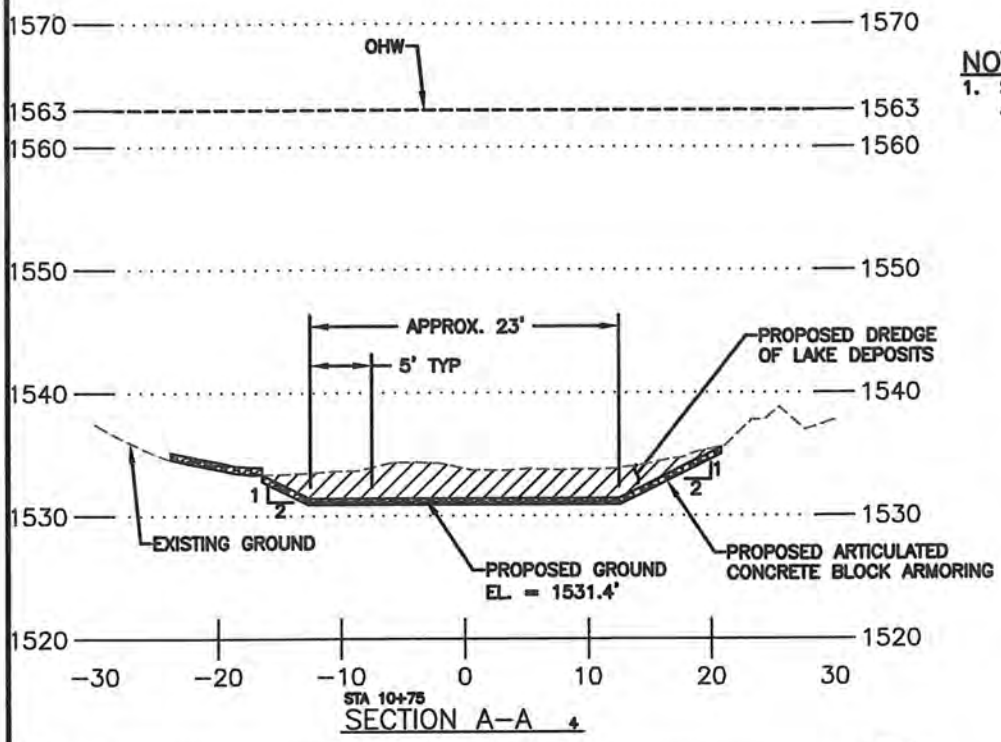
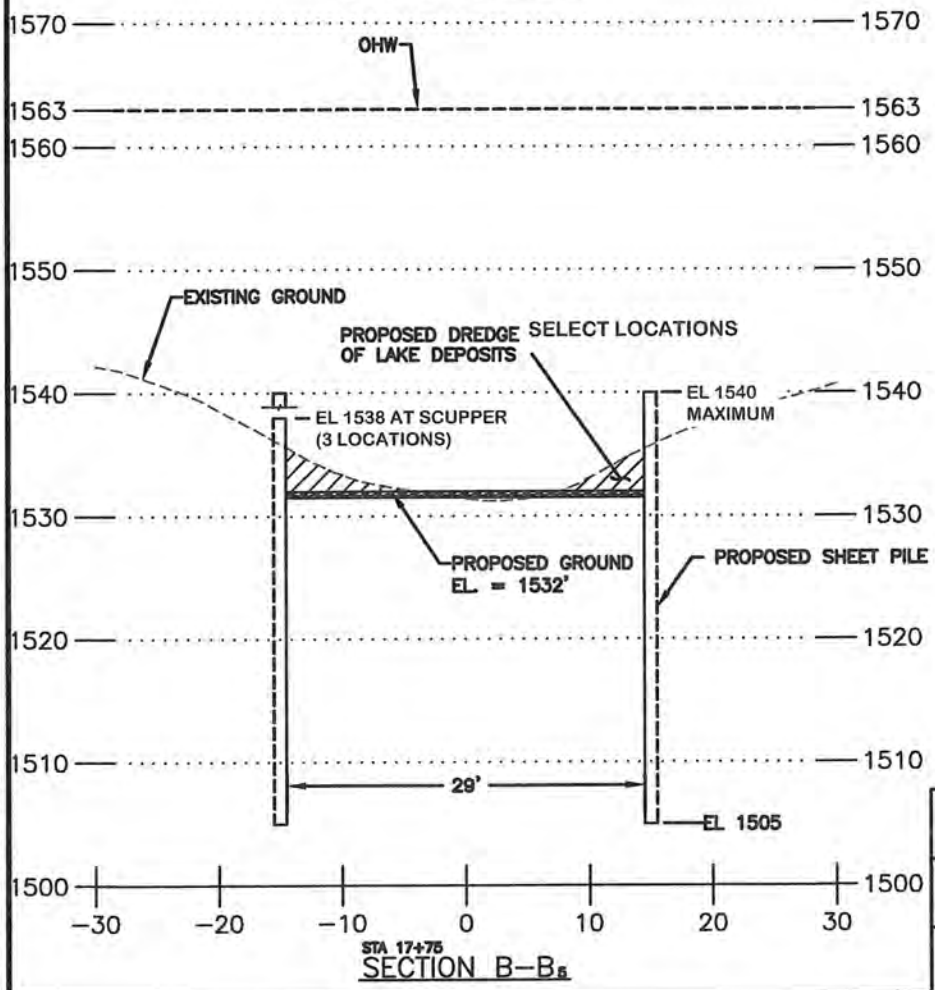


NOTES:

1. SEE SHEETS 4 AND 5 FOR VOLUMES AND AREAS



Reference: NWS-2014-247	
Applicant: Seattle Public Utilities	
Application for: Morse Lake Pump Plant Project	
Outlet Channel Cross Sections	Project Location: Cedar River Municipal Watershed, King County, WA.
	Sheet 6 of 12 Date: April 2014

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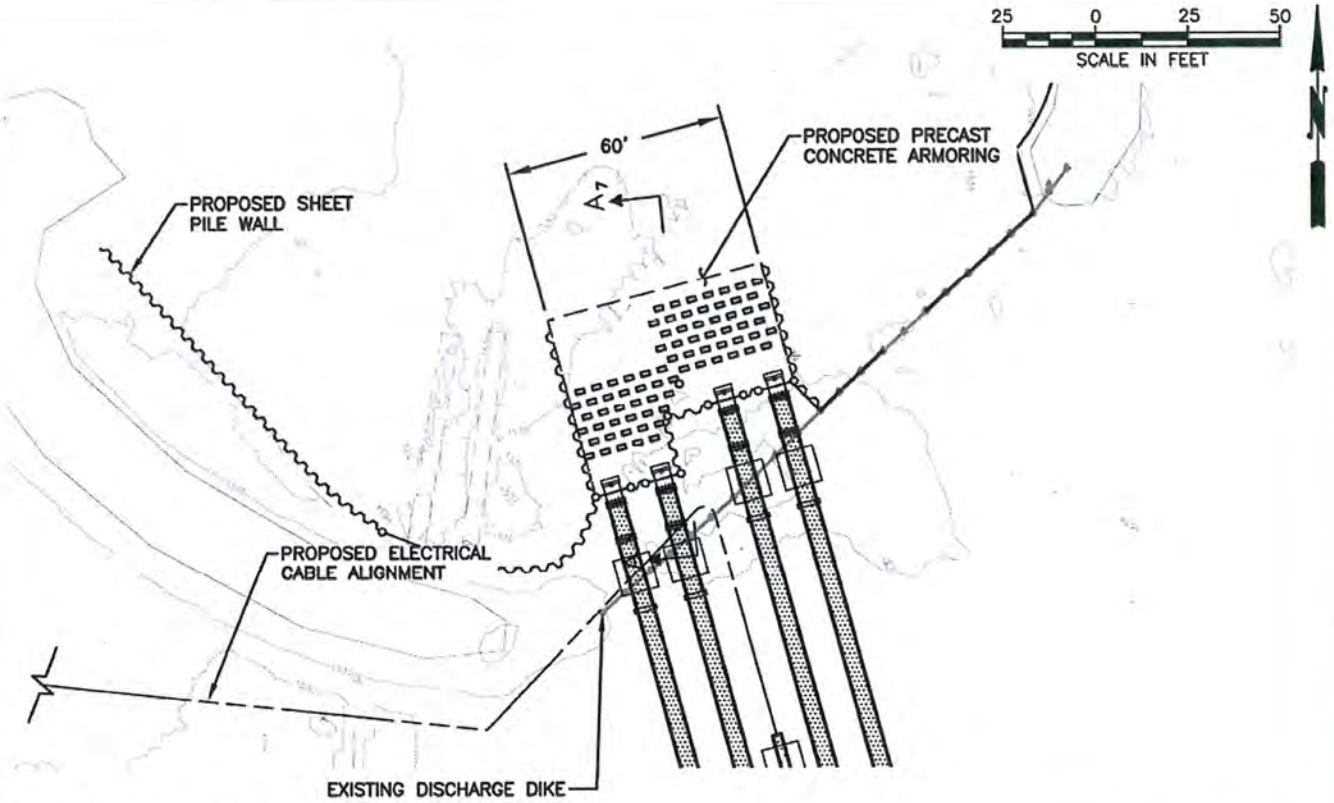
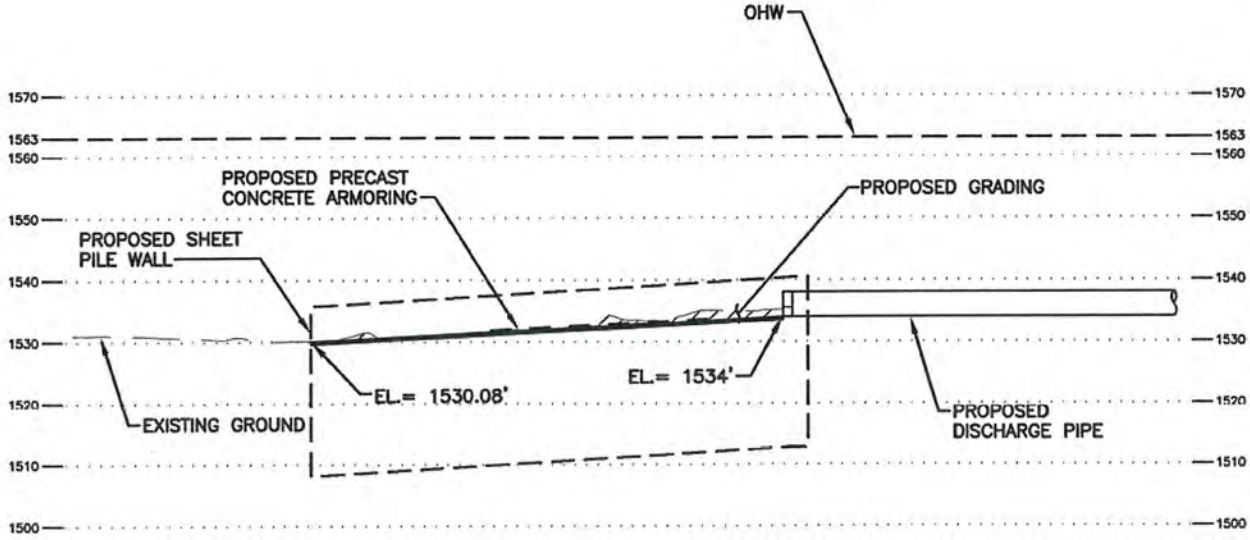


LENGTH OF SHEET PILE WALLS: 470 FEET
AREA OF ARMORING: 3,171 SQUARE FEET



SECTION A–A 7
SCALE– 1" = 30'

Reference: NWS-2014-247	
Applicant: Seattle Public Utilities	
Application for: Morse Lake Pump Plant Project	
Discharge Apron Plan and Cross Section	Project Location: Cedar River Municipal Watershed, King County, WA.
	Sheet 7 of 12 Date: April 2014

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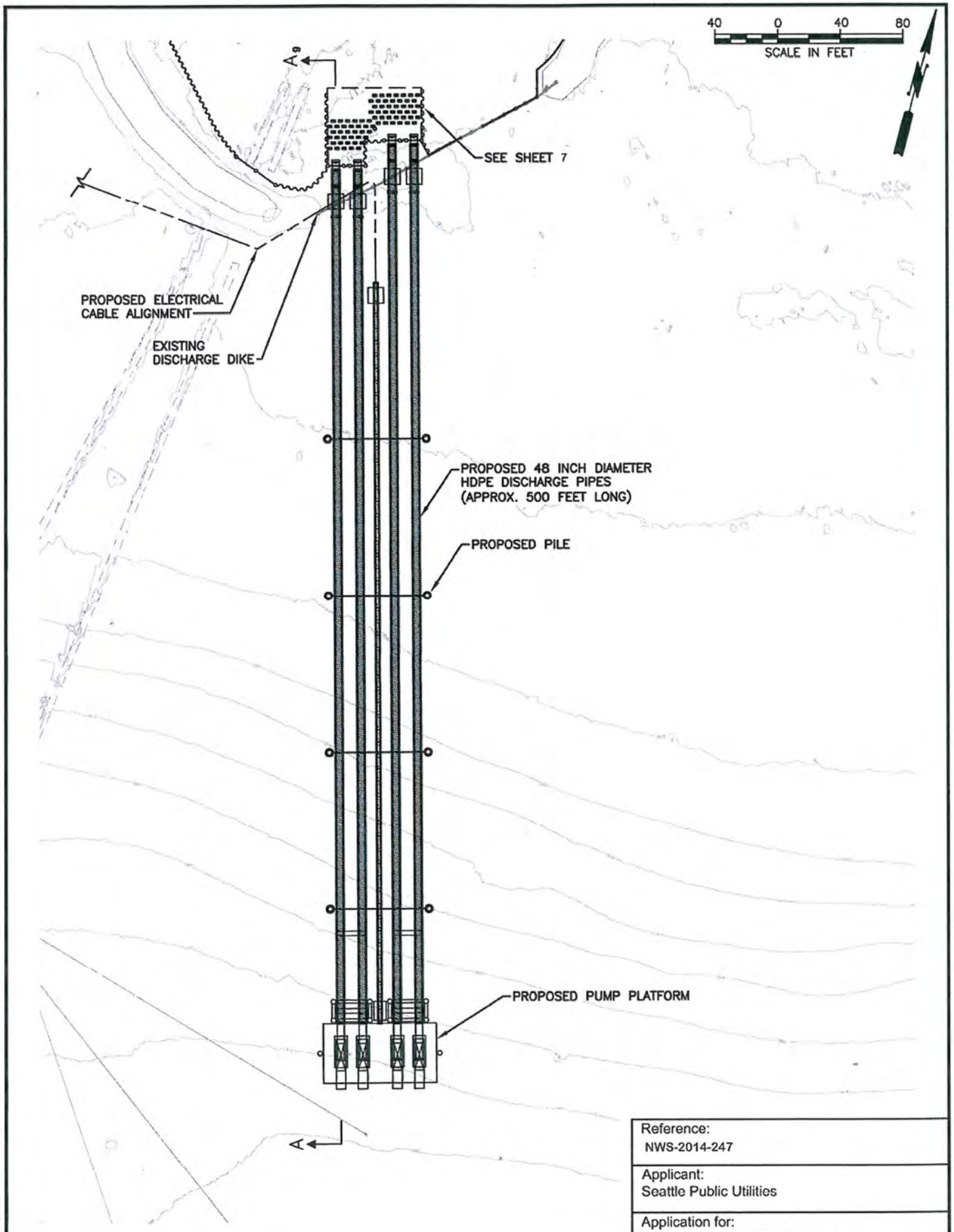

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Pipelines and Pump Platform Plan

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 8 of 12 Date: April 2014

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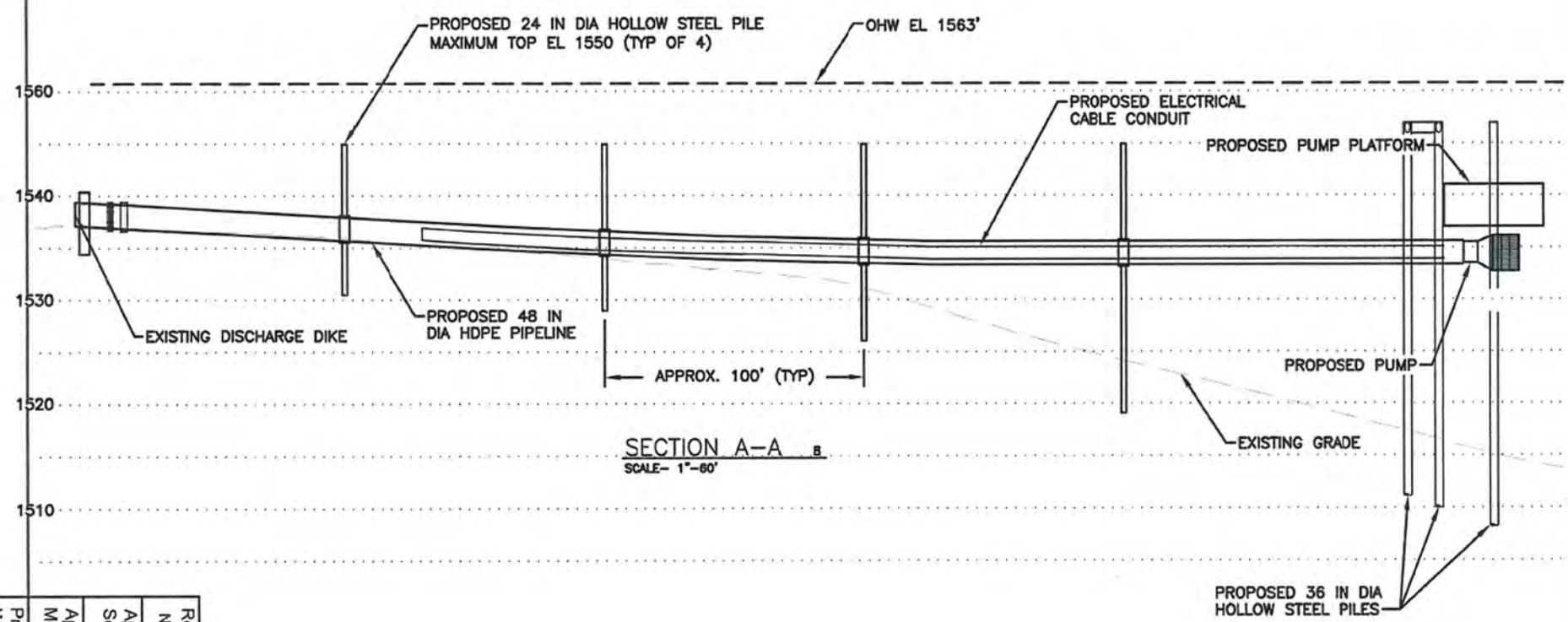
Pipelines and Pump Platform Cross Section



NOTE:

1. PUMP PLANT MOBILIZED AT OR BELOW LAKE ELEVATION 1550 FEET.

30 0 30 60
SCALE IN FEET

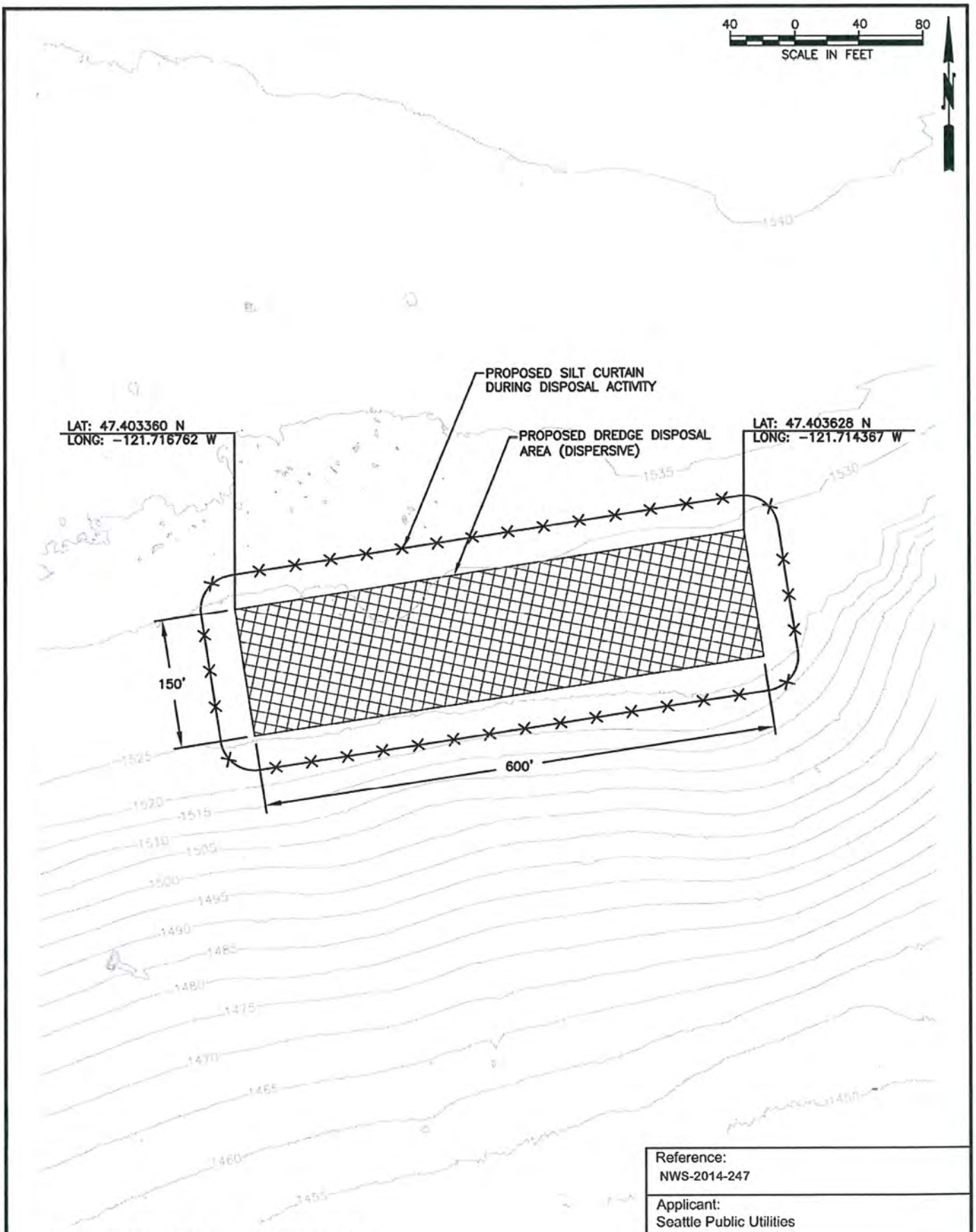
Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 9 of 12 Date: April 2014



DREDGE DISPOSAL VOLUME: 6,000 CUBIC YARDS
DREDGE DISPOSAL AREA 90,000 SQUARE FEET
DREDGE MATERIAL DEPTH: <3 FEET ON LAKE BED

In-Water Dredge Disposal Plan

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 10 of 12 Date: April 2014

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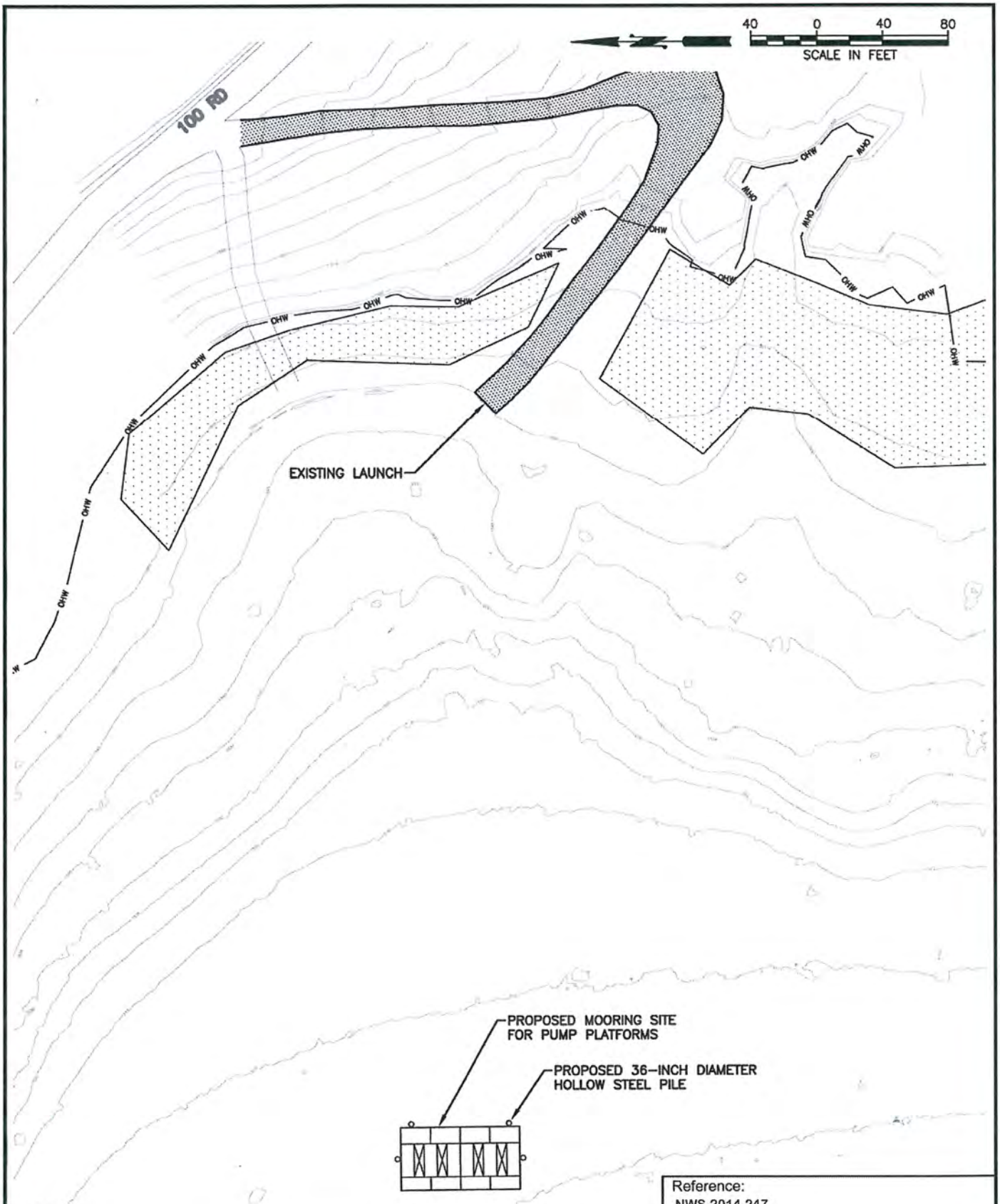

LEGEND:

EXISTING WETLAND

OHM — EXISTING ORDINARY HIGH WATER MARK

Reference:
NWS-2014-247

Applicant:
Seattle Public Utilities

Application for:
Morse Lake Pump Plant Project

Project Location: Cedar River Municipal Watershed, King County, WA.

Sheet 11 of 12 Date: April 2014

Youngs Cove Mooring Plan

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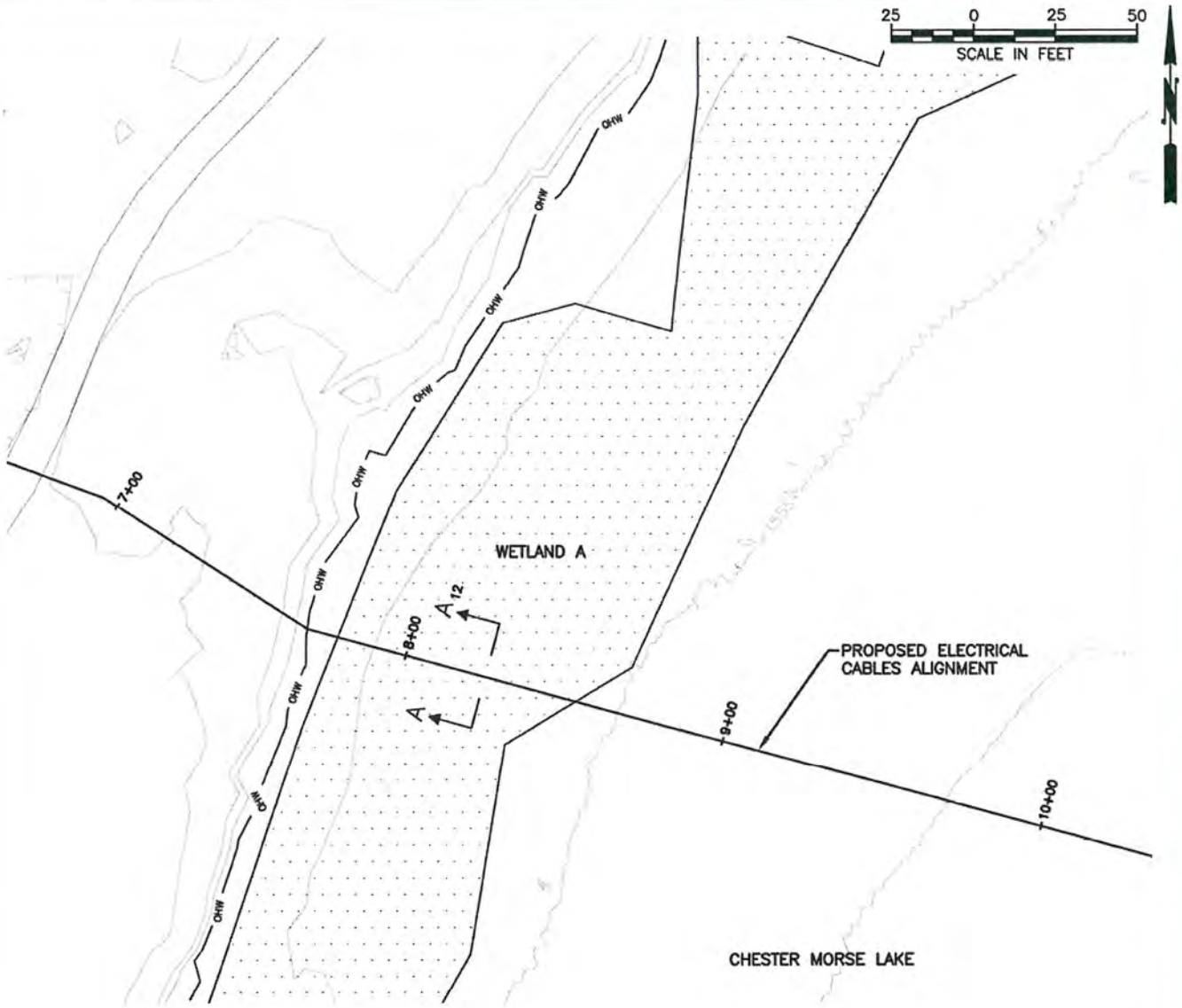

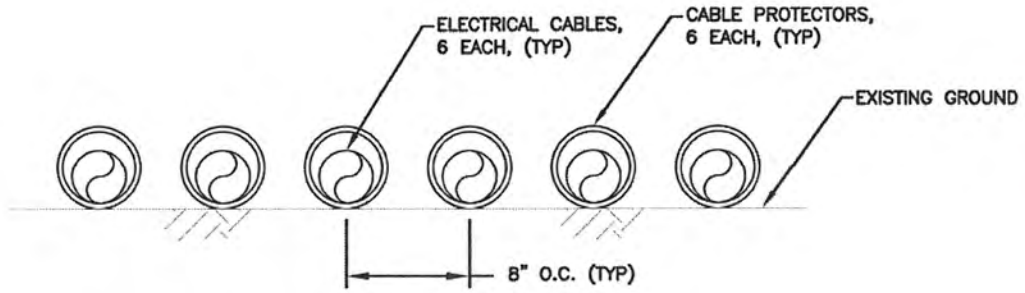

STA 8+25
SECTION A–A 12

Reference: NWS-2014-247	
Applicant: Seattle Public Utilities	
Application for: Morse Lake Pump Plant Project	
Proposed Electrical Cable Alignment Over Wetland A	Project Location: Cedar River Municipal Watershed, King County, WA.
	Sheet **12** of 12 Date: April 2014

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