



US Army Corps
of Engineers
Seattle District



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

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 (360) 694-1171
Attn: Steve Manlow, 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: 21 Dec 2012

Expiration Date: 19 Jan 2013

Reference No.: NWS-2012-0925

Name: City of Vancouver (West End
Renaissance Trail Repair)

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 November 26, 2012.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws.

APPLICANT: City of Vancouver
Post Office Box 1995
Vancouver, Washington 98668-1995
Attention: Dan Swensen
Telephone: (360) 487-7750

AGENT: Flowing Solutions, LLC
3305 SW 87th
Portland, Oregon 97225
Attention: Andrew Jansky
Telephone: (503) 297-6311

LOCATION: In the Columbia River, near 5421 SE Scenic Drive, in Vancouver, Clark County, Washington.

WORK: Construct a bank stabilization project along 600 feet of the Columbia River shoreline and reconstruct an existing trail. The bank stabilization project will consist of a combination of rock, large woody material (LWM), and vegetation plantings. Work will include the following: placing 150 logs with attached rootwads; constructing five 30-foot by 25-foot rock and wood barbs; installing 400 vertical anchor piles, driven to a depth of up to 10 feet; excavating 2,800 cubic yards of sediment; placing 4,950 cubic yards of rock fill and boulder ballast; and planting 4,000 woody plants. All of these activities will occur waterward of the ordinary high water mark (OHWM). Concrete from failed sections of the trail will be removed from the river, and a new pathway will be constructed on top of the bank. An in-water sediment containment curtain will be installed and maintained around the work area during construction.

PURPOSE: Bank stabilization

ADDITIONAL INFORMATION:

The location of the ordinary high water mark shown on the project drawings have not yet been verified by the U.S. Army Corps of Engineers (Corps). If the Corps determines the boundaries of the waters are substantially inaccurate, a new public notice may be published.

MITIGATION: Mitigation is not proposed 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 (USFWS) pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. The Corps will consult with the NMFS and the USFWS as required under Section 7 of the ESA.

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 proposed action would impact EFH in the project area. If the U.S. Army Corps of Engineers (Corps) determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. There are no recorded historic properties within the permit area. The permit area has been so extensively disturbed by modern development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. 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.

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.

SOURCE OF FILL MATERIAL: The applicant has not yet identified the source of the fill material. Should a permit be issued, the Corps will evaluate the fill material source prior to the start of construction.

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.

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 Steven.W.Manlow@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Steven Manlow, Post Office 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, may do so by submitting written comments to the following address: Washington State Department of Ecology, Attention: SEA program – Federal Permit Coordinator, Post Office 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: City of Vancouver; NWS-2012-925.

Encl: Figures (1 through 10 of 10, dated November 26, 2012)

- SHEET INDEX:
1. COVER
 2. SITE PHOTO
 3. SURVEY
 4. TAX MAP
 5. SITE PLAN
 6. BARB DETAIL
 7. BANK SECTION
 8. BANK-BARB SECTION
 9. BARB X SECTION
 10. STABILIZATION PLANTING



LOCATOR



VICINITY MAP

PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions



Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

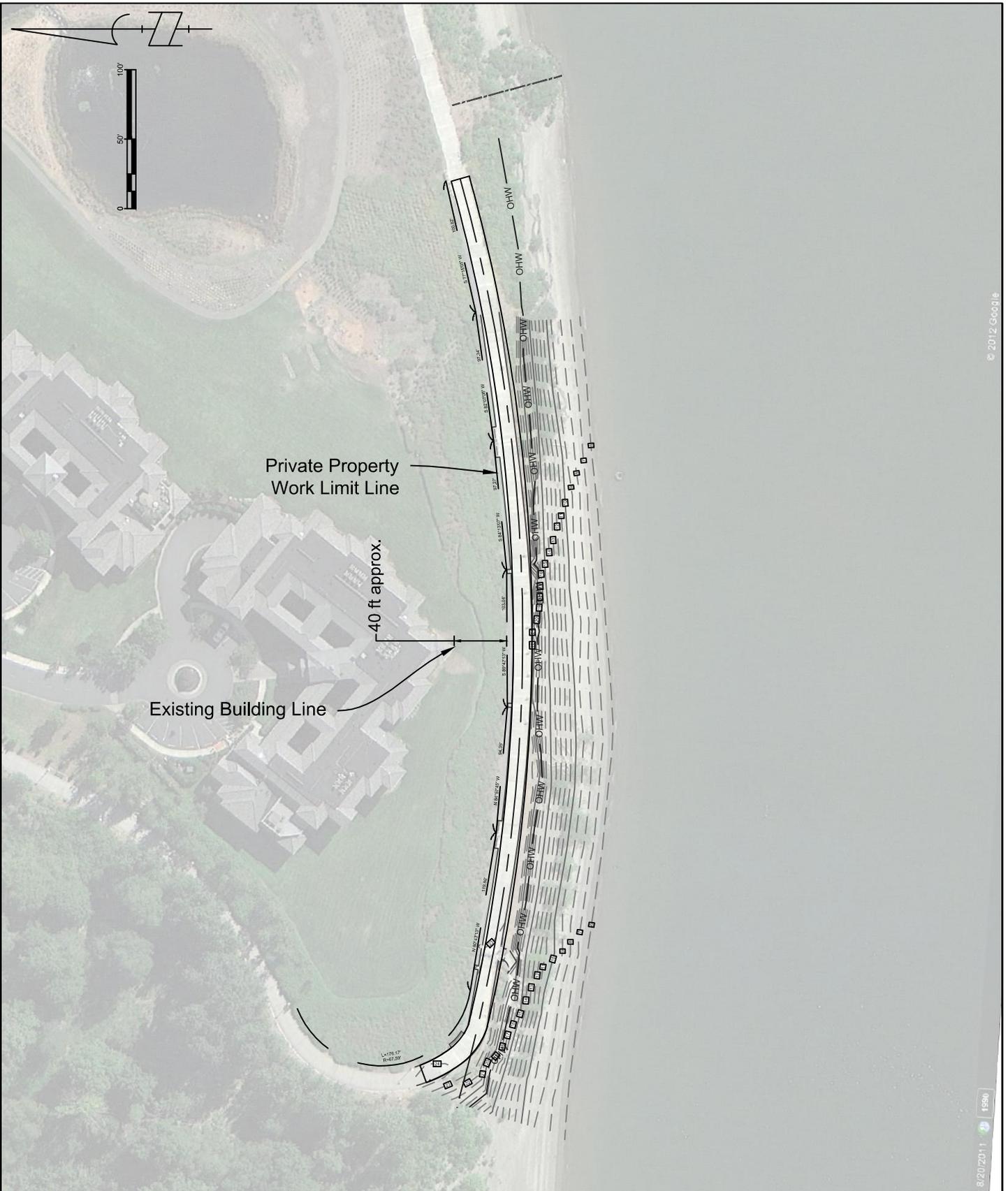
APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: COVER
 SCALE: NTS
 PAGE: 1 / 10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)

z:\vancouver\tidewatercover-bank\cad\fs-tidewater-lwm.dwg

z:\vancouver\tidewatercove-bank\cad\fs-tidewater-lwm.dwg



PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions

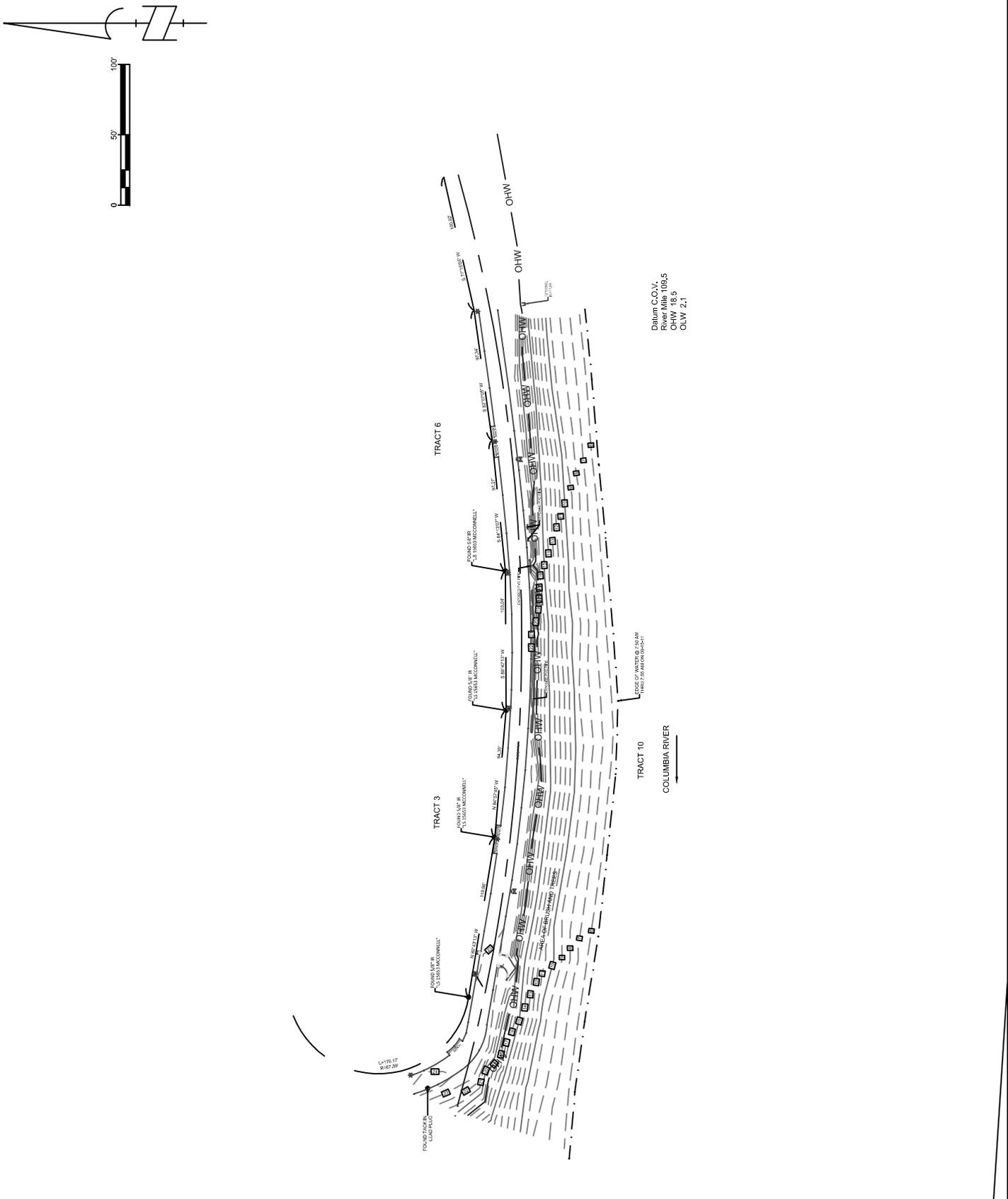


Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: SITE PHOTO
 SCALE: NTS
 PAGE: 3 /10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)



PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions



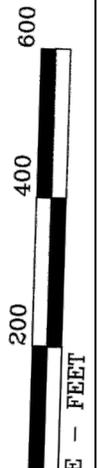
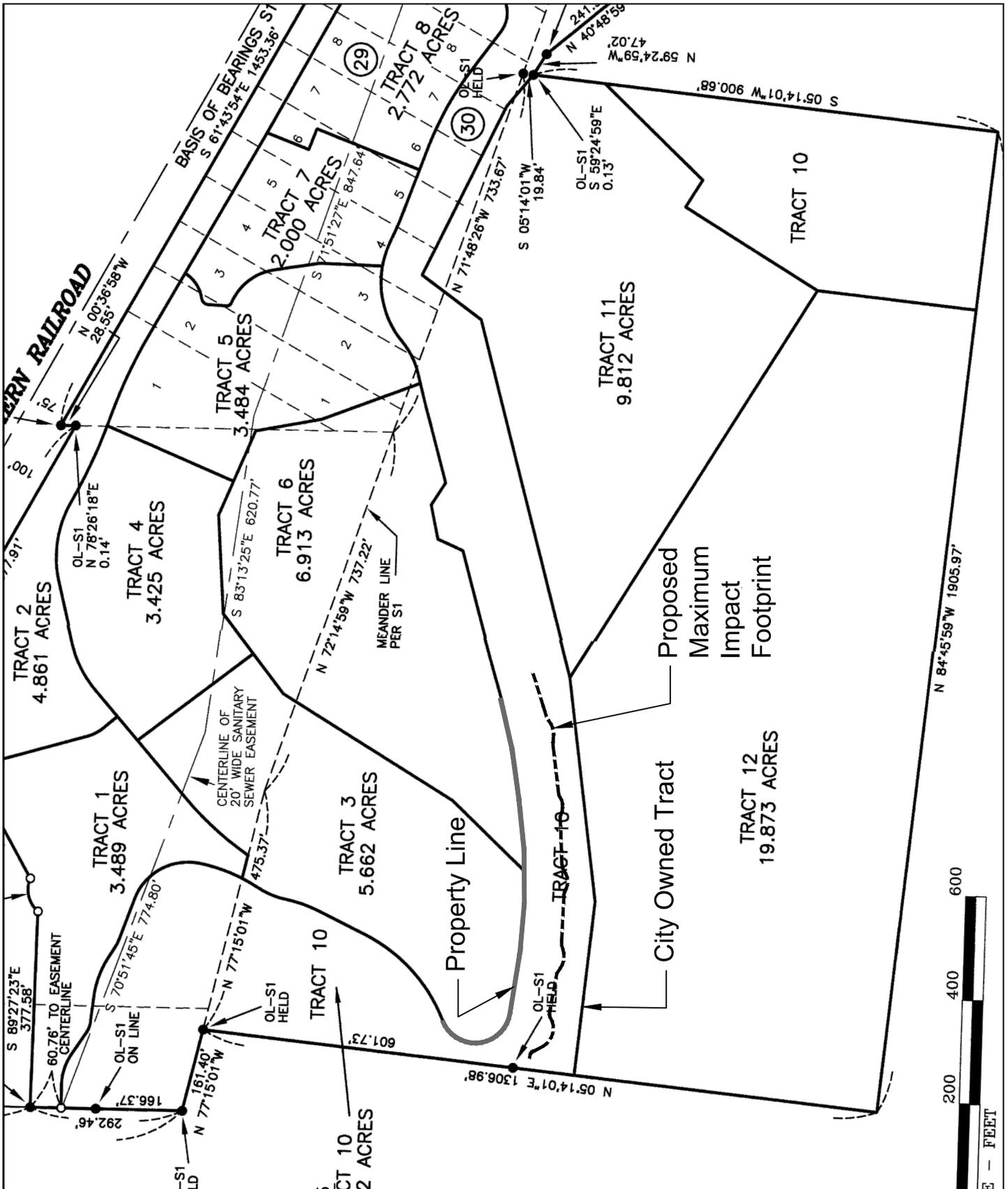
Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: EXISTING SITE SURVEY
 SCALE: 1"=100'
 PAGE: 3/10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)

z:\vancouver\tidewater\bank\cad\fs-tidewater-lwm.dwg



PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions

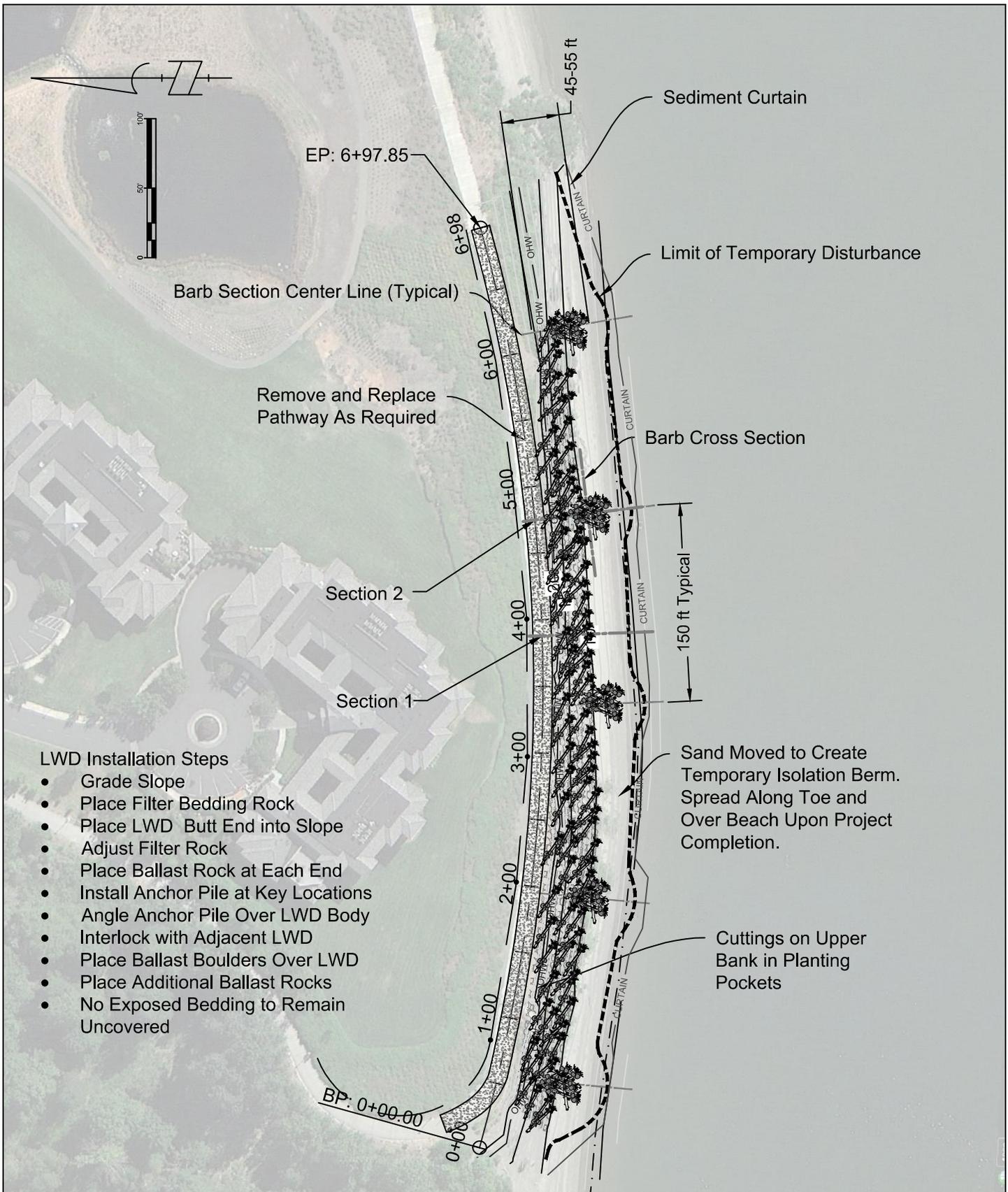


Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: TAX MAP
 SCALE: As Shown
 PAGE: 4/10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)



LWD Installation Steps

- Grade Slope
- Place Filter Bedding Rock
- Place LWD Butt End into Slope
- Adjust Filter Rock
- Place Ballast Rock at Each End
- Install Anchor Pile at Key Locations
- Angle Anchor Pile Over LWD Body
- Interlock with Adjacent LWD
- Place Ballast Boulders Over LWD
- Place Additional Ballast Rocks
- No Exposed Bedding to Remain Uncovered

PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions

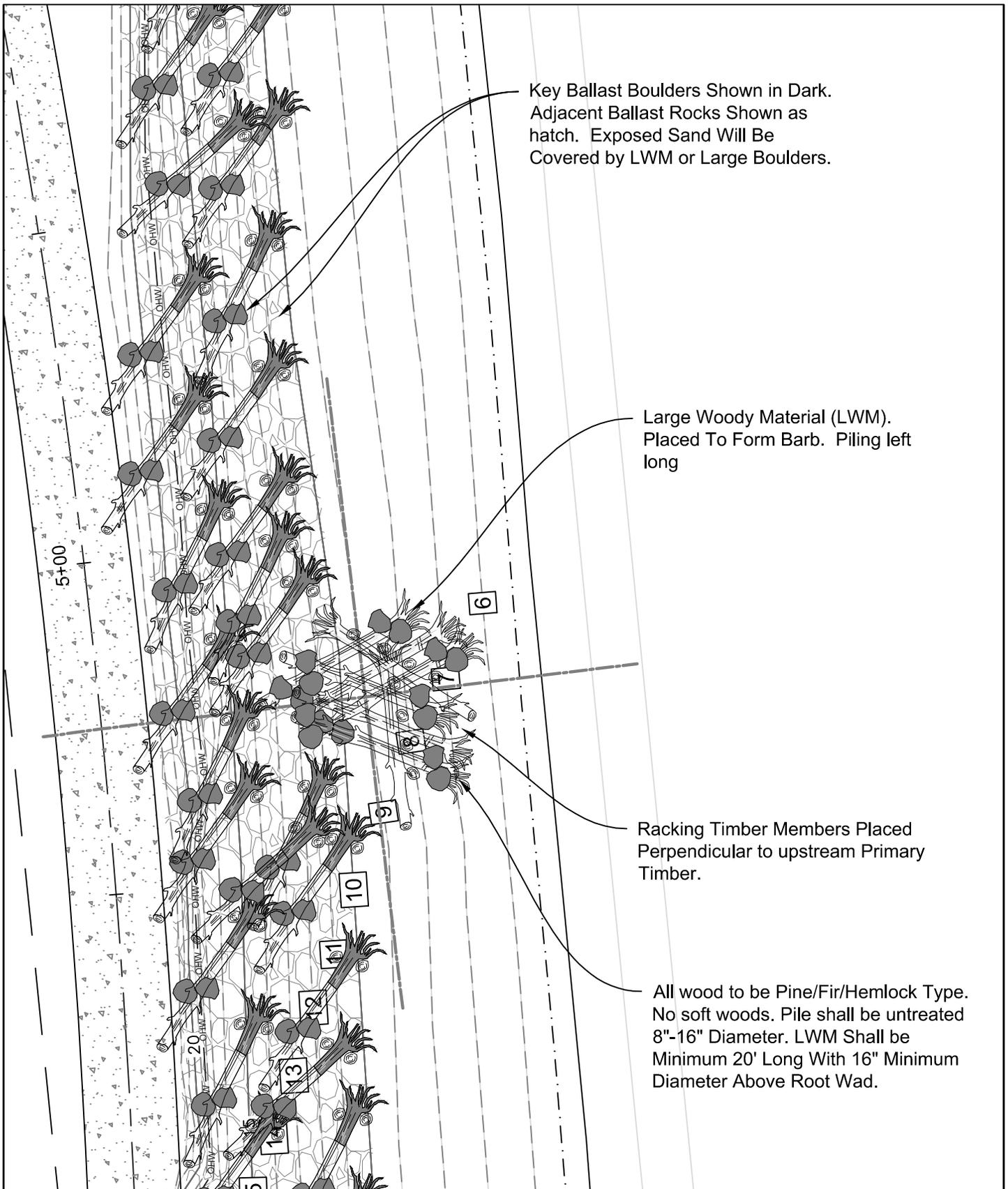


Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: SITE PLAN
 SCALE: 1"=100'
 PAGE: 5/10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)



Key Ballast Boulders Shown in Dark. Adjacent Ballast Rocks Shown as hatch. Exposed Sand Will Be Covered by LWM or Large Boulders.

Large Woody Material (LWM). Placed To Form Barb. Piling left long

Racking Timber Members Placed Perpendicular to upstream Primary Timber.

All wood to be Pine/Fir/Hemlock Type. No soft woods. Pile shall be untreated 8"-16" Diameter. LWM Shall be Minimum 20' Long With 16" Minimum Diameter Above Root Wad.

z:\vancouver\tidewater\bank\cad\fs-tidewater-lwm.dwg

PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions



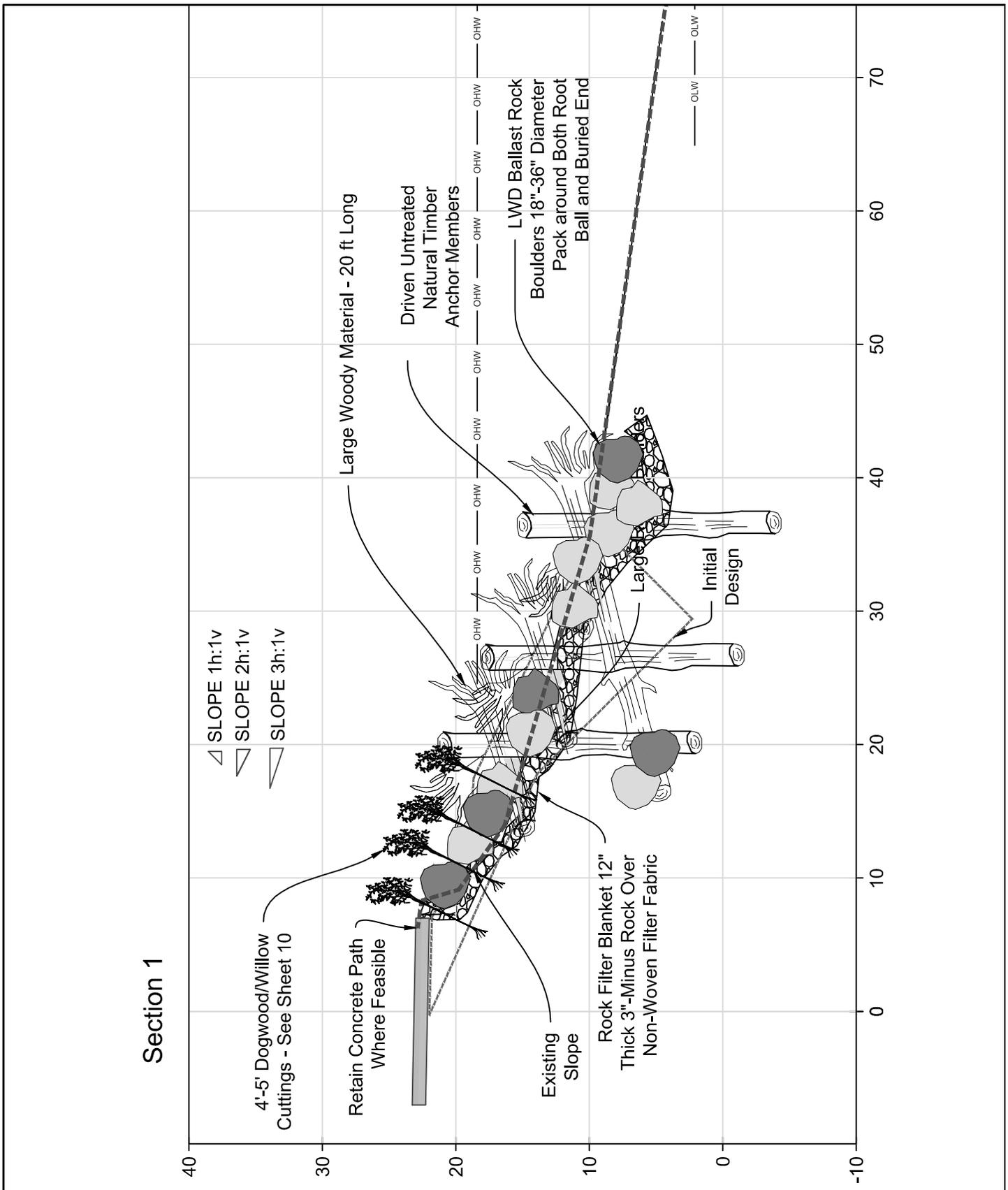
Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: BARB DETAIL (TYP.)
 SCALE: 1"=20'
 PAGE: 6/10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)

z:\vancouver\tidewatercove-bank\cad\fs-tidewater-lwm.dwg



PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions



Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

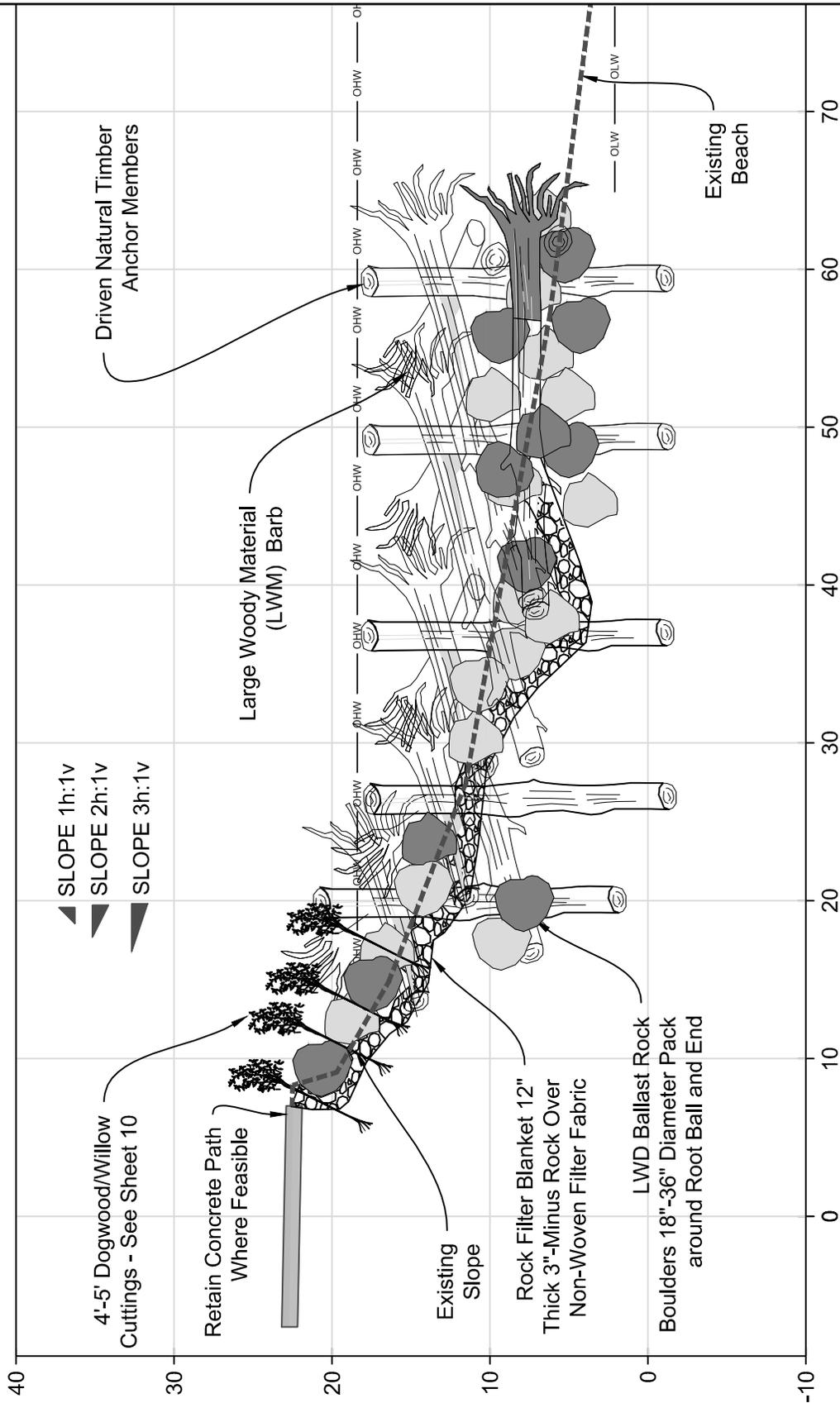
APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: BANK SECTION (TYP)
 SCALE: 1"=10'
 PAGE: 7/10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)

z:\vancouver\tidewatercover-bank\cad\fs-tidewater-lwm.dwg

Section 2



PURPOSE: BANK STABILIZATION
 PREPARED BY:

Flowing solutions



Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6311
 Fax (503) 297-6053

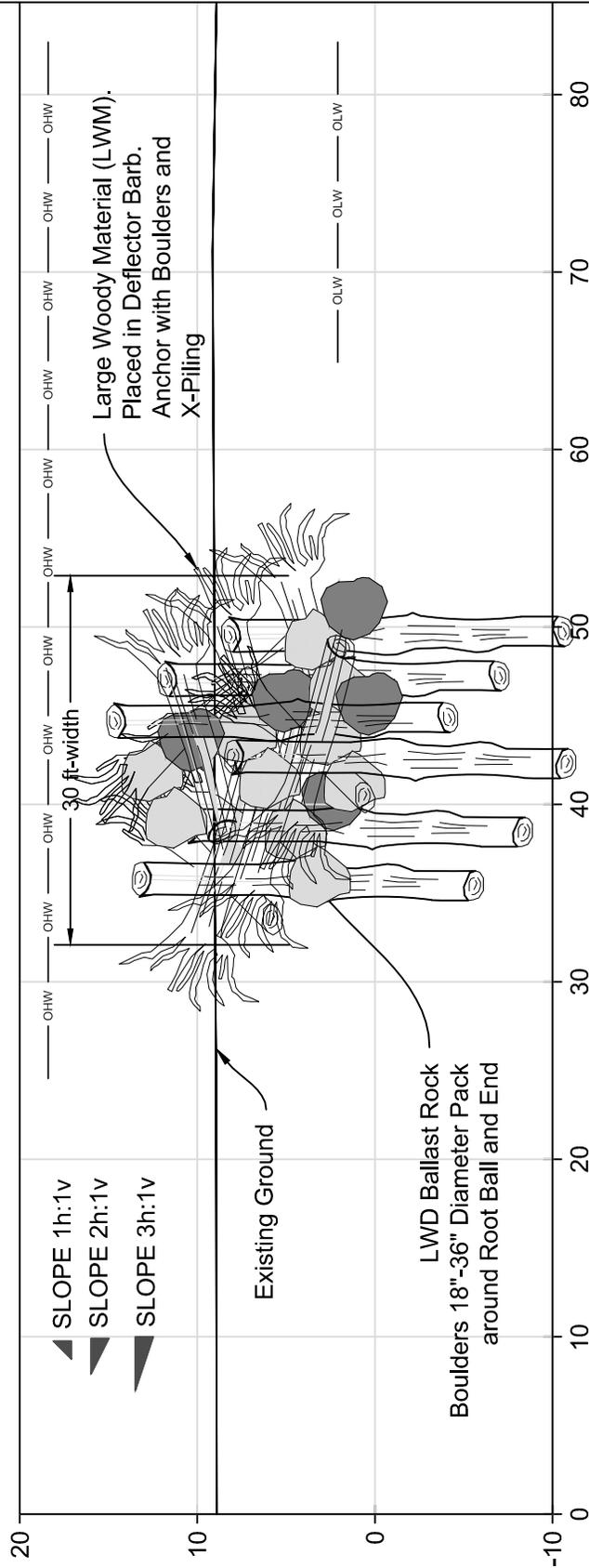
APPLICANT: CITY OF VANCOUVER
 LOCATION: RENAISSANCE TRAIL
 SE COLUMBIA WAY
 VANCOUVER WA 98661

COUNTY: CLARK
 SECT 31 T2N R2E SW 1/4SEC
 LAT/LON: 45.61201, -122.61653

SHEET: BANK-BARB SECTION
 SCALE: 1"=10'
 PAGE: 8/10
 DATE: 11/26/12
 COE REFERENCE #:
 NWS 2012-925
 RIVER: COLUMBIA RM 109.5
 DATUM: COV (NGVD 29)

z:\vancouver\tidewatercover-bank\cad\fs-tidewater-lwm.dwg

NOTE: Typical Groin Section.
Height Varies with Position.



PURPOSE: BANK STABILIZATION
PREPARED BY:

Flowing solutions



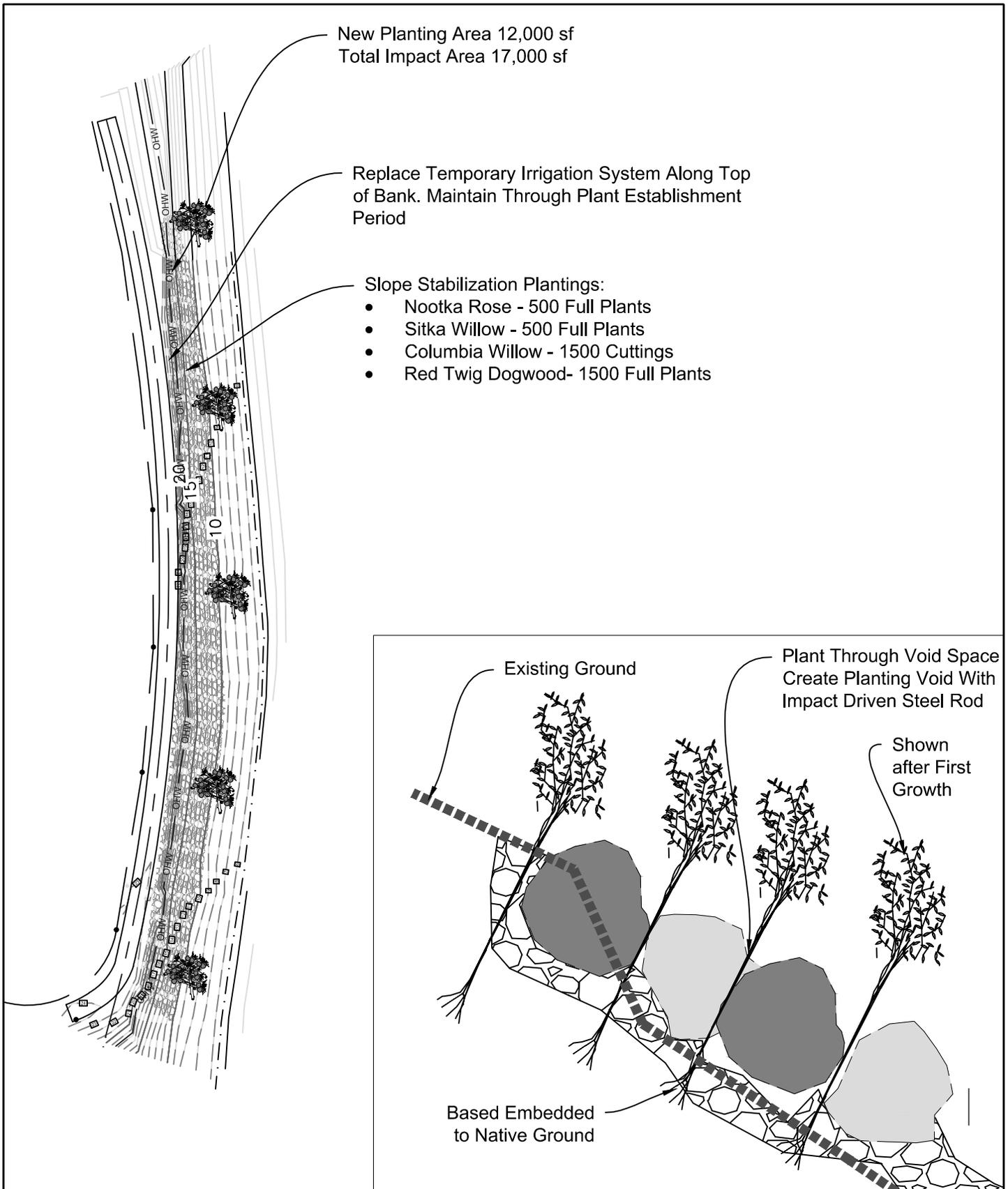
Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone (503) 297-6311
Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
LOCATION: RENAISSANCE TRAIL
SE COLUMBIA WAY
VANCOUVER WA 98661

COUNTY: CLARK
SECT 31 T2N R2E SW 1/4SEC
LAT/LON: 45.61201, -122.61653

SHEET: BARB X SECTION
SCALE: 1"=10'
PAGE: 9/10
DATE: 11/26/12
COE REFERENCE #:
NWS 2012-925
RIVER: COLUMBIA RM 109.5
DATUM: COV (NGVD 29)

z:\vancouvertidewatercover-bank\cad\fs-tidewater-lwm.dwg



PURPOSE: BANK STABILIZATION
PREPARED BY:

Flowing solutions



Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone (503) 297-6311
Fax (503) 297-6053

APPLICANT: CITY OF VANCOUVER
LOCATION: RENAISSANCE TRAIL
SE COLUMBIA WAY
VANCOUVER WA 98661
COUNTY: CLARK
SECT 31 T2N R2E SW 1/4SEC
LAT/LON: 45.61201, -122.61653

SHEET: STABILIZATION PLANTING
SCALE: 1"=100', Detail NTS
PAGE: 10/10
DATE: 11/26/12
COE REFERENCE #:
NWS 2012-925
RIVER: COLUMBIA RM 109.5
DATUM: COV (NGVD 29)