



CITY OF WEST LINN

22500 Salamo Road
West Linn, Oregon 97068
503-557-4700 FAX 503-656-4106

THE OFFICIALS OF THE CITY OF WEST LINN

Mayor	John Kovash
Council President	Jody Carson
Councilor	Thomas Frank
Councilor	Mike Jones
Councilor	Jenni Tan
City Manager	Chris Jordan

**REQUEST FOR
PROPOSALS**

PERSONAL SERVICES

**Geotechnical Engineering for the Cedaroak Boat Ramp Project
WEST LINN, OREGON**

CITY OPENING OF PROPOSALS

DATE: Friday April 4, 2014

**LOCATION: The City of West Linn
22500 Salamo Road
West Linn, Oregon 97068**

TIME: 5:00 PM

SCHEDULE

RFP ADVERTISED **March 20, 2014**

RFP SUBMITTALS DUE **April 4, 2014**

TENTATIVE CONTRACT AWARD **April 9, 2014**

CONTRACT SIGNED **April 14, 2014**

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REQUEST FOR PROPOSALS

Notice is hereby given that the City of West Linn, through its City Council will receive proposals until **5:00 p.m. April 4 electronically** in the Office of Parks and Recreation Director, kworcester@westlinnoregon.gov for the following:

Geotechnical Engineering – Cedaroak Boat Ramp Project **WEST LINN, OREGON**

Proposals will be publicly opened after 2:00 p.m. Proposals received after 2:00 on the above mentioned date shall be returned unopened.

The proposed work consists generally of the following: Analyses and Recommendations of a Geotechnical Engineer

Proposals shall be submitted on the prescribed form and in said manner as indicated in the proposal documents. Use of recycled material is encouraged and the City reserves the right to use recycled material provided the provisions of ORS 279A.125 are met.

The City of West Linn reserves the right to reject any or all proposals, to postpone the award for 60 days, to delete certain items from the Proposal and to award the contract to the best possible proposer. Any proposal not in compliance with prescribed public bidding procedures and requirements will be rejected.

Proposal format and other related information is available at the Office of Parks and Recreation, 22500 Salamo Road, West Linn, Oregon 97068.

Sealed proposals must be electronically received by Ken Worcester, Parks and Recreation Director at kworcester@westlinnoregon.gov or before 5:00 p.m. on the fourth day of April, 2014. No proposals will be received or considered after that time.

Each proposal must contain a statement as to whether the vendor is a resident vendor, as defined in ORS 279A.120.

The West Linn City Council reserves the rights to reject any and all proposals not in compliance with all prescribed public bidding procedures and requirements, reject for good cause any and all proposals upon the finding that it is in the public interest to do so and waive any and all informalities.

INSTRUCTIONS AND CONDITIONS

2.1 GENERAL:

Proposers must study carefully and conform to these "Instructions and Conditions" so that their proposals will be regular, complete and acceptable.

2.2 PROPOSALS:

All proposals shall be legibly written in ink or typed and comply in all regards with the requirements of this solicitation.

Proposals carrying orders or qualifications may be rejected as irregular.

All proposals must be signed in ink in the blank spaces provided herein (Section 3). If a firm or partnership makes the proposal, the name and address of the firm or partnership shall be shown, together with the names and addresses of the members. If a corporation makes the proposal, an official who is authorized to bind the contractor must sign it in the name of such corporation.

2.3. DELIVERY OF PROPOSALS:

All proposals must be submitted electronically, bearing the name of the project for which the proposal is submitted and addressed to kworcester@westlinnoregon.gov

2.4. RECEIPT AND OPENING OF PROPOSALS:

Proposals shall be submitted prior to the time fixed in the advertisement for proposals. Proposals received after the time so designated will be considered late proposals and will be returned unopened.

No responsibility will be attached to any official of the City for the premature opening of, or the failure to open, a proposal not properly addressed and identified.

A register of proposals shall be prepared and shall be open for public inspection after contract award. Once the closing time and date arrive, the names of the proposer submitting proposals are read publicly. No other information will be disclosed.

2.5. WITHDRAWAL OF PROPOSALS:

Proposals may be withdrawn by written or telegraphic request received from the contractors prior to the time fixed for opening. Negligence on the part of the vendor in preparing the proposal confers no right for the withdrawal of the proposal after it has been opened. The proposal will be irrevocable until such time as the City Council:

1. Specifically rejects the proposal, or;

2. Awards a contract and said contract is properly executed.

Contractors' proposals must be valid for at least sixty (60) days.

2.6. MODIFICATIONS:

Any proposer may modify his/her proposal by submitting a new proposal at any time prior to the scheduled closing time for receipt of proposals. The new proposal must state it supersedes and replaces the previous proposal

2.7. ACCEPTANCE OR REJECTION OF PROPOSALS:

In the award of the contract, the City Council will consider the element of time, will accept the proposal or proposals which in their estimation will best serve the interests of The City of West Linn, and reserves the right to award the contract to the contractor whose proposal shall be best for the public good. The City Council reserves the right to accept or reject any or all proposals. Without limiting the generality of the foregoing, any proposal, which is incomplete, obscure or irregular, may be rejected. Only one proposal will be accepted from any one firm or association. Any evidence of collusion between proposers may constitute a cause for rejection of any proposals so affected.

Since this is a Request for Proposals, the City will not add a percent increase on the proposal of a nonresident proposer equal to the percent, if any, of the preference given to that proposer in the state in which the proposer resides. See ORS 279C.400(4).

2.8. ADDENDA AND INTERPRETATIONS:

No oral interpretations shall be made to any proposer as to the meaning of any of the contract documents or be effective to modify any of the provisions of the contract documents. Every request for an interpretation shall be made in writing and addressed to Ken Worcester , Parks and Recreation Director and, to be given consideration, must be received at least ten (3) days prior to the date set for the opening of proposals. Any and all such interpretations will be e-mailed to all prospective proposers (at the respective address furnished for such purposes) not later than one day prior to the date fixed for the opening of proposals. Failure of any proposer to receive any such addendum or interpretation shall not relieve such proposer from any obligation under this proposal as submitted. All addenda so issued shall become as much a part of the contract documents as if bound herein.

2.9 NONDISCRIMINATION:

The successful contractor agrees that, in performing the work called for by this proposal and in securing and supplying materials, contractor will not discriminate against any person on the basis of race, color, religious creed, political ideas, sex, age, marital status, physical or mental handicap, national origin or ancestry unless the reasonable demands of employment are such that they cannot be met by a person with a particular physical or mental handicap.

2.10 FAILURE TO SUBMIT OFFER:

If no offer is to be submitted, do not return the RFP. Failure of the recipient to offer, or to notify the issuing office that future solicitations are desired, will not result in removal of the name of such recipient from the mailing list for the type of supplies or services covered by the solicitation.

2.11. PREPARATION OF OFFERS:

Proposers are expected to examine the specifications, and all instructions.

Each proposer shall furnish the information required by the solicitation. Proposers shall sign the solicitation and print or type their name on other submitted exhibits and each continuation sheet thereof on which an entry is made. The person signing the offer must initial erasures or other changes. Proposals signed by an agent are to be accompanied by evidence of his/her authority unless such evidence has been previously furnished.

Proposers shall state a definite time for delivery of supplies or for performance of services.

Time, if stated as a number of days, will include Saturdays, Sundays and holidays.

2.12. SPECIFICATIONS LIMITING COMPETITION:

Proposers may comment on any specification or requirement contained within this RFP, which they feel limits competition in the selection of a proposer to perform the services herein defined.

Such comments must be in writing, and are to be addressed to the City at the following address: Ken Worcester Parks and Recreation Director, 22500 Salamo Road, West Linn, Oregon 97068.

2.13. EMPLOYEES NOT TO BENEFIT:

No employee or elected official of The City of West Linn shall be admitted to any share or part of this contract or to any benefit that may arise there from; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit. No Contractor shall provide or offer to provide any appreciable pecuniary or material benefit to any officer or employee of City in violation of ORS Chapter 244.

2.14. CITY FURNISHED PROPERTY:

No material, labor or facilities will be furnished by the City unless otherwise provided for in the Request for Proposals.

2.15. DEFAULT:

The City may, subject to the provisions of paragraph (4) below, by written notice of default to the Contractor, terminate the whole or any part of this contract in any one of the following circumstances.

1. If the Contractor fails to make delivery of the supplies or to perform the services within the time specified (to be determined) herein or any extension thereof; or
2. If the Contractor fails to perform any of the other provisions of this contract, or so fails to make progress as to endanger performance of this contract in accordance with its terms, and in either of these two circumstances does not cure such failures within a period of ten (10) days (or such longer period as the City may authorize in writing) after receipt of notice from the City specifying such failure.
3. In the event the City terminates this contract in whole, or in part, as provided in paragraph (2) above of this clause, the City may procure, upon such terms and in such manner as the City may deem appropriate, supplies or services similar to those terminated, and the Contractor shall be liable to the City for any excess costs for such similar supplies or services; provided, that the Contractor shall continue the performance of this contract to the extent not terminated under the provisions of this clause.
4. Except with respect to defaults of subcontractors, the Contractor shall not be liable for any excess costs if the failure to perform the contract arises out of causes beyond the control and without the fault or negligence of the Contractors. Such causes may include, but are not restricted to, acts of God or of the public enemy, acts of the City in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather; but, in every case, the failure to perform must be beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either of them, the Contractor shall not be liable for excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required delivery schedule.
5. The rights and remedies of the City provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.
6. As used in paragraph (4) of this clause, the terms "subcontractor" and "subcontractors" mean subcontractor(s) at any tier.

2.16. PAYMENTS:

The Contractor shall be paid, upon the submission of proper instruments as outlined below, the prices stipulated in the proposal for services rendered and accepted, less deductions, if any, as provided.

1. No claims will be considered for payment until the services are rendered with the exception of Solicitations or Purchase Orders that designate otherwise.

- 2.** Payments will be made monthly, or as agreed, for any claims supported by an invoice and a duplicate.

- 3.** The City of West Linn reserves the right, under this contract, to recover any damages due the City as specified in the clause of this contract entitled "Default".

PROPOSAL RESPONSE

Submitted by: _____

Address: _____

Date: _____ Phone number: _____

The undersigned, through the formal submittal of this proposal response, declares that he/she has examined all related proposal documents and read the instruction and conditions, and hereby proposes to furnish proposals for providing

**Geotechnical Engineering for the Cedaroak Boat Ramp Project
For the City of West Linn, Parks and Recreation Department,
WEST LINN, OREGON**

As specified, in accordance with the proposal documents herein.

The Proposer, by his signature below, hereby represents as follows:

- (a) That no, officer, or employee of The City of West Linn is personally interested directly or indirectly in this contract or the compensation to be paid hereunder, and that no representation, statement or statements, oral or in writing, of the City, its Councilors, officers, agents, or employees had induced him to enter into this contract and the papers made a part hereof by its terms;
- (b) That this proposal is made without connection with any person, firm or corporation making a proposal for the same material, and is in all respects, fair and without collusion or fraud.
- (c) The proposer agrees to accept as full payment for the services specified herein, the amount as shown in his/her proposal as the guaranteed maximum price.
- (d) Vendors shall use recyclable products to the maximum extent economically feasible in the performance of the contract work set forth in this document.

Proposer is:

Resident Proposer, as defined in ORS 279A.120

Non-Resident Proposer, Resident State: _____

The names of the principal officers of the corporation submitting this proposal, or of the partnership, or of all persons interested in this proposal as principals are as follows:

_____	_____
Name	Title
_____	_____
Name	Title
_____	_____
Name	Title

(If Sole Proprietor or Partnership)

In witness hereto, the undersigned has set his (its) hand this _____ day of _____, 2012.

Name of Firm

Signature of Proposer

(If Corporation)

In witness whereof the undersigned corporation has caused this instrument to be executed by its duly authorized officers this _____ day of, 2012.

Name of Corporation

By

Title

PROPOSAL CONTENTS

3.1 **GENERAL:**

The proposal should contain the required elements as stated in SECTION 4, SCOPE OF WORK AND CONDITIONS.

The City reserves the right to solicit additional information or proposal clarification from the firms, or any one firm submitting proposal, should the City deem such information necessary.

Any proposer-supplied material that is to be considered confidential must be so marked.

The proposals shall be submitted to Ken Worcester, Parks and Recreation Director
kworcester@westlinnoregon.gov

One (1) signed electronic original.

3.2 **DETAILED PROPOSAL CONTENTS:**

The proposal shall contain the required criteria in the following format:

Section 1 **Cover Letter and Transmittal** – A one-page dated cover letter with original signature shall be submitted containing the name, address, tax filing name and number of the corporation or business structure submitting the proposal. Also submit the name, address, telephone, and fax numbers and title of the person authorized to represent the proposer.

Section 2 **Table of Contents** – A table of contents of the material included in the proposal.

Section 3 **Proposal** – A delineation of proposed services and approach to the project and a list of subcontractors and their roles in the project. This section shall include a flow chart, methodology, unique management strategies etc.

Section 4 **Proposer Capabilities** – This section shall demonstrate specific capabilities for fulfilling the requirements according to similar previous experience including years of business, bankruptcy, bonding capability, insurance, contract defaults and litigation. This section shall also provide information on the key individual(s) that will be assigned to this project,

Section 5 **List of Exceptions** – This section shall describe any exceptions taken to any section in the RFP.

Section 6 **Fee** – This section shall list the lump sum fee to provide the proposed services. Please detail fee schedule by per project component identified in section 4.2

SCOPE OF WORK AND CONDITIONS

4.1 INTRODUCTION:

The City of West Linn is requesting proposals for Geotechnical Engineering for the Cedaroak Boat Ramp Project.

4.2 WORK TASKS

Refer to Attachment A Memorandum

The selected consulting team should anticipate, and include in their cost proposals, resources required for attending progress meetings with City Consultants and Staff.

4.4 QUESTIONS ON TECHNICAL INFORMATION:

Questions relating to materials in the Standard Specifications and Conditions Evaluation and Selection Criteria (SECTION 5) shall be addressed in writing to:

Ken Worcester
Parks and Recreation Director
City of West Linn
22500 Salamo Road
West Linn, Oregon 97068
kworcester@westlinnoregon.gov

4.5 PROJECT SCOPE:

The Parks and Recreation Department has approximate budgeted range of \$1,000,000 for this project in its **2014-2015** biennial budgets that includes the design phase.

4.5.1 Master Plan Maximum Price:

The City has adopted and received land use approval for the Master Plan for this park development project. Cost considerations need to be adhered to based on the City's adopted budget.

The Contractor shall provide a guaranteed maximum price lump sum fee to provide Consultation Services as outlined herein. Information shall be given to support the lump sum fee, including labor costs, meeting costs, design costs and deliverables.

4.5.2 SUBCONTRACTORS,

The city of West Linn requires that each proposer shall state in his proposal the subcontractor(s) that he anticipates to employ to perform any work or labor, or any service, in or about the construction of the work or improvement. This statement shall include the name of the subcontractor, address, telephone, estimated percentage of work, statement of qualifications and experience and the nature of work to be performed. The Contractor shall be responsible for transmitting and enforcing all contract requirements to subcontractors. The proposal shall also state the method for selecting the subcontractor

EVALUATION AND SELECTION CRITERIA

5.1 PROPOSAL REVIEW:

The Review Committee will evaluate the submitted Proposals. Each proposal will be evaluated on their adherence to the specifications outlined in Section 4 Scope of Work and Conditions and Section 5.2 Evaluation Criteria.

The Review Committee consists of Information.

Selected proposers will be contacted for further evaluation if necessary, that may include oral interviews. Although price is a consideration when engaging this proposer, the intent is to provide the City with a given level of specialized skill, knowledge, and resources and qualifications, performance history; expertise, knowledge and the ability to exercise sound professional judgment are primary considerations in the selection process. Provide written reference statements or letters from at least three agencies or clients for whom you have provided the requested services, attesting to the quality, availability and timeliness of your service. These statements must include the name, address and phone number of a person we may contact to discuss the reference statement.

The City Council will review the recommendation on proposals from the Review Committee Staff and authorize the City Manager to enter into contract negotiations to establish the Guaranteed Maximum Price. During negotiation the City may require any additional information it deems necessary to clarify the approach and understanding of the requested services. Any changes agreed upon during contract negotiations will become part of the final contract. The negotiations will identify a level of work and associated fee that best represents the efforts required. If the City is unable to come to terms with the first choice contractor, discussions shall be terminated and negotiations will begin with the second choice contractor. The City reserves the right to reject any and all proposals.

5.2 EVALUATION CRITERIA:

The following criteria will be considered in evaluating all proposals. A major deficiency in any one category can disqualify the proposer.

1.	Content Submitted proposals must contain all items listed in Section 3 Proposal Contents	0-5 points
2.	Project Understanding, Approach & Scope The approach offered by the proposer will be evaluated in terms of its applicability to the requirements specified in this RFP.	0-40 points
3.	Qualifications & Experience The experience of the proposer and /or subcontractors in like projects and history of the company or individual will be considered.	0-30 points
4.	Fee & Schedule All proposals will be evaluated on the guaranteed maximum price lump sum fee required to meet the requirements in this RFP.	0-25 points
	TOTAL POINTS	0-100

The Geotechnical Engineer shall also analyze the preliminary design and assess the site to identify other potential issues or items of concern.

SITE INVESTIGATION AND ANALYSES

A site investigation will be required to collect data needed to formulate the recommendations as stated above. The site investigation will include four borings (two land based, two over-water). The borings should be advanced to sufficient depths and located to most effectively characterize the geological conditions of the site and provide recommendations with high confidence. Boring locations should be recorded with GPS or other survey equipment and shown on a figure to be included with the report.

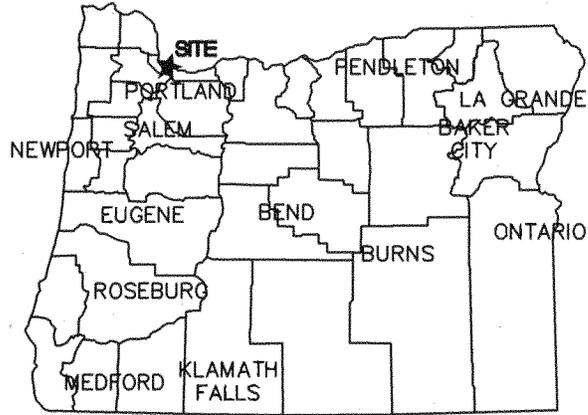
The Geotechnical Engineer shall 1) confirm the field work scope as defined above is adequate to meet their analysis needs, and 2) perform all necessary field and laboratory analyses needed to formulate recommendations as defined in this scope of services. Chemical and environmental sampling and analysis will not be included in this scope of work.

DELIVERABLE

The Geotechnical Engineer shall provide a report summarizing the following:

- The scope of work completed by the Geotechnical Engineer.
- Existing site conditions including regional geology, and a potential geological hazards summary.
- Site investigation procedures and results including data interpretation.
- Classification of soils and depths to bedrock.
- Geotechnical recommendations as described in this scope of work.
- Other special considerations resulting from the site investigation and analyses.
- Figure(s) showing locations of test borings.
- Boring logs.
- Calculations to support recommendations.

The report shall be stamped and signed by a professional Geotechnical Engineer or Geologist licensed in the State of Oregon.



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Flowing solutions



Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone (503) 297-6331
Fax (503) 297-6053

SHEET TITLE: LOCATOR

PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP
NIXON AVE & ELMRAN DR
WEST LINN, OR 97068

RIVER/MILE: WILLAMETTE, RM 23.2

DATUM: NGVD

DATE:
10/2/12

SCALE: NTS

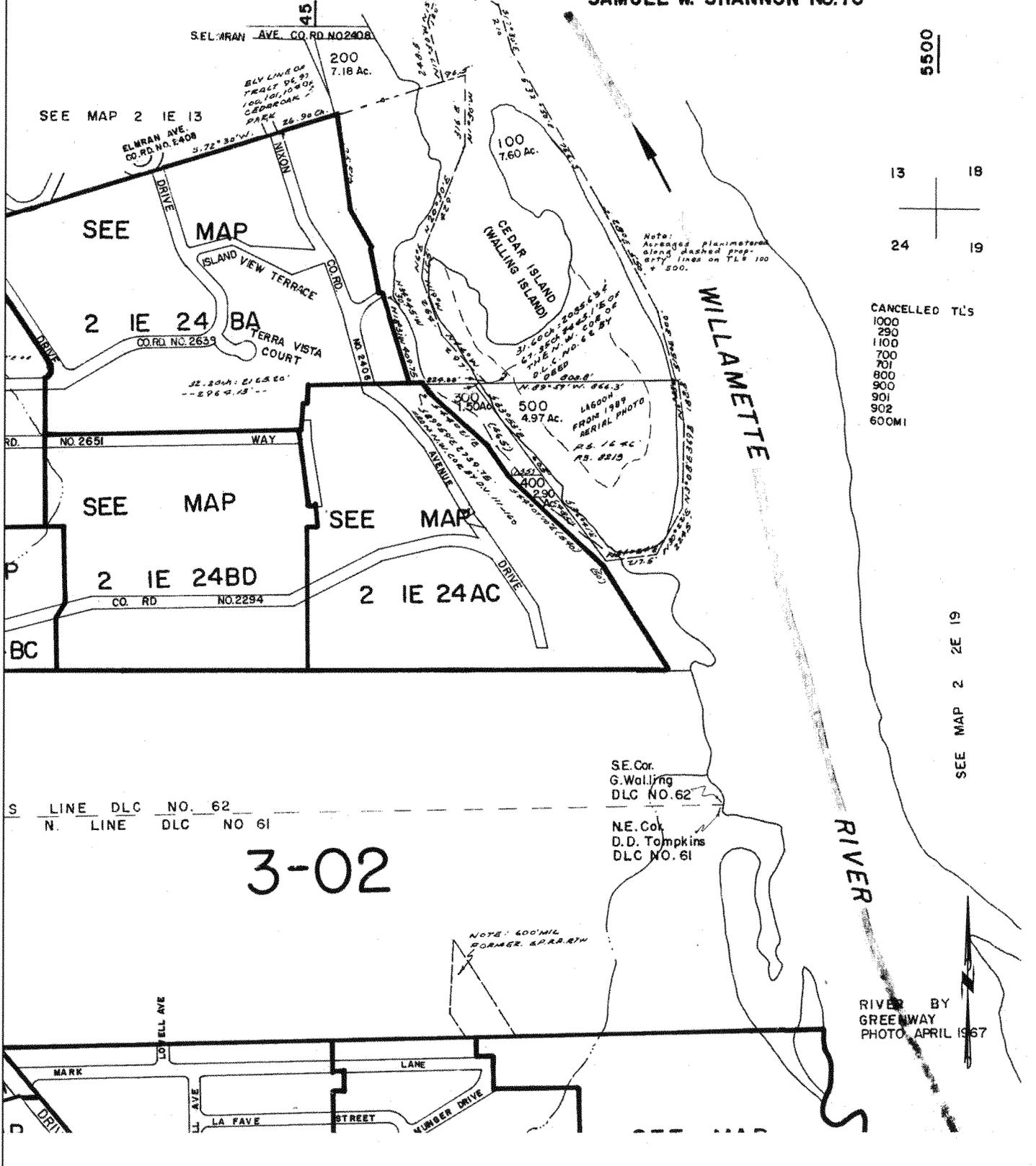
SHEET: 1/10

SECTION 24 T.2S. R.1E. W.M.
CLACKAMAS COUNTY

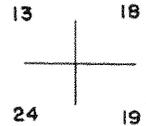
DLC
D.D. TOMPKINS NO. 61
GEORGE WALLING NO. 62
SAMUEL W. SHANNON NO. 70

2
8
V

SCALE 1" = 400'



5500



- CANCELLED T.L'S
- 1000
 - 290
 - 1100
 - 700
 - 701
 - 800
 - 900
 - 901
 - 902
 - 600M1

SEE MAP 2 2E 19

S LINE DLC NO. 62
N. LINE DLC NO. 61

3-02

SE. Cor.
G. Walling
DLC NO. 62

N.E. Cor.
D.D. Tompkins
DLC NO. 61

NOTE: 600' HIL FORMER APPR. RW

RIVER BY
GREENWAY
PHOTO, APRIL 1967

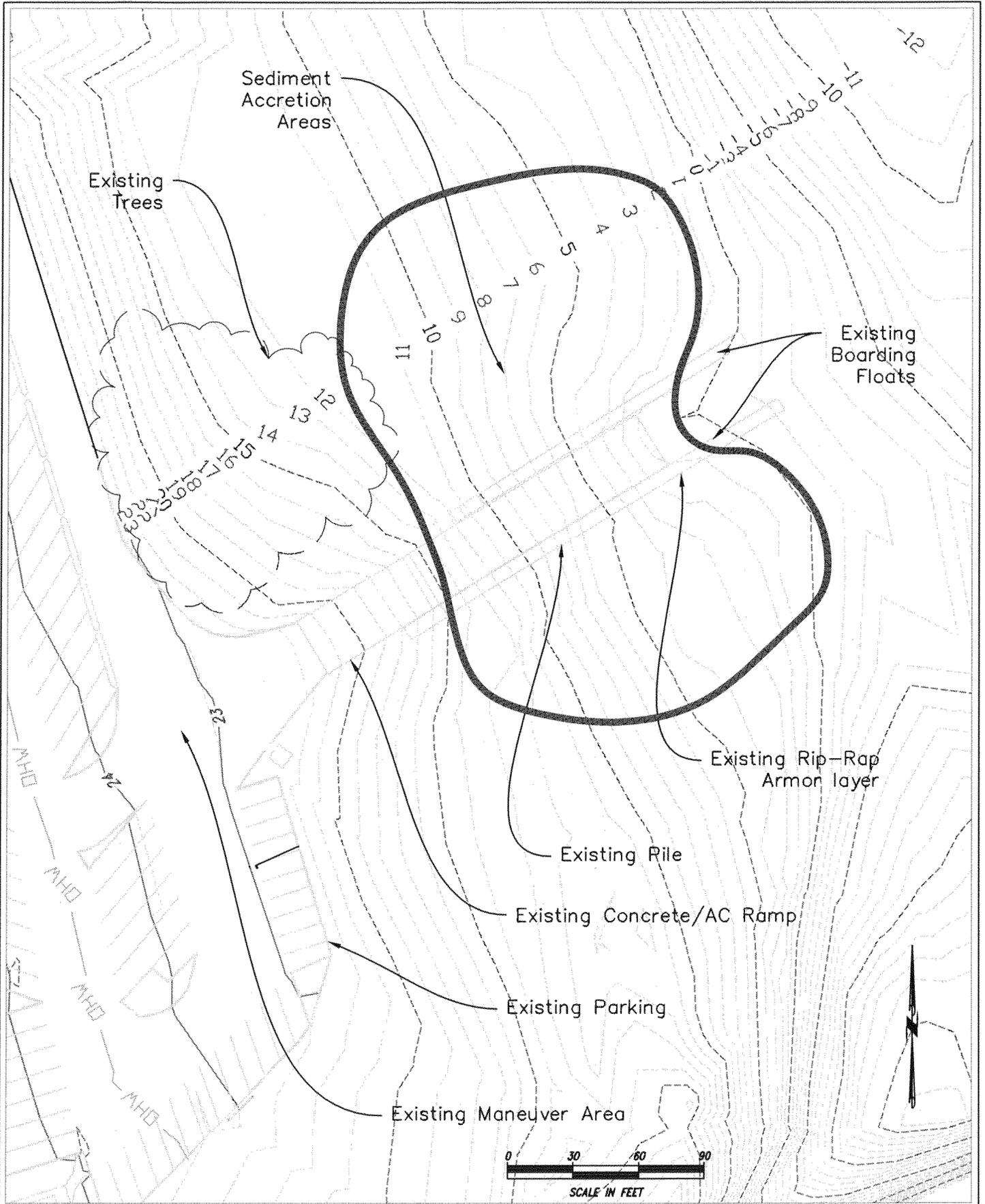
Flowing solutions



Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone (503) 297-6331
Fax (503) 297-6053

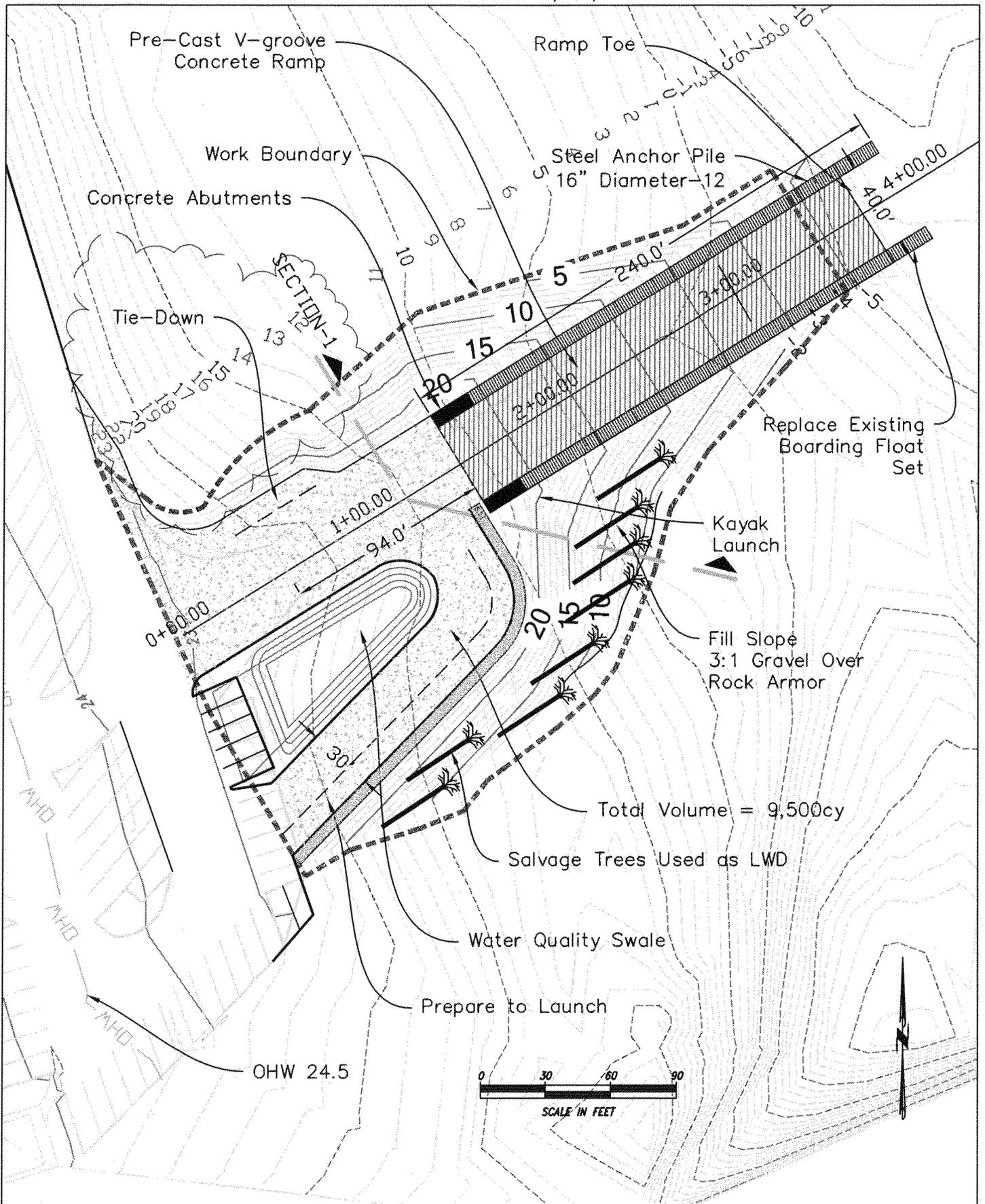
SHEET TITLE: TAX MAP		DATE: 10/2/12
PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP NIXON AVE & ELMRAN DR WEST LINN, OR 97068		SCALE: NTS
RIVER/MILE: WILLAMETTE, RM 23.2	DATUM: NGVD	SHEET: 2/10

z: \cedarokramp\ts-cedarok-tinal revision 9-24-2012.awg



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 <p>Flowing Solutions 3305 SW 87th Avenue Portland, OR 97225 Phone (503) 297-6331 Fax (503) 297-6053</p>	SHEET TITLE: EXISTING SITE PLAN		DATE: 10/2/12
	PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP NIXON AVE & ELMRAN DR WEST LINN, OR 97068		SCALE: 1"=60'
	RIVER/MILE: WILLAMETTE, RM 23.2	DATUM: NGVD	SHEET: 3 /10



Flowing solutions



Flowing Solutions
 3305 SW 87th Avenue
 Portland, OR 97225
 Phone (503) 297-6331
 Fax (503) 297-6053

SHEET TITLE: PROPOSED PLAN

PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP
 NIXON AVE & ELMRAN DR
 WEST LINN, OR 97068

RIVER/MILE: WILLAMETTE, RM 23.2

DATUM: NGVD

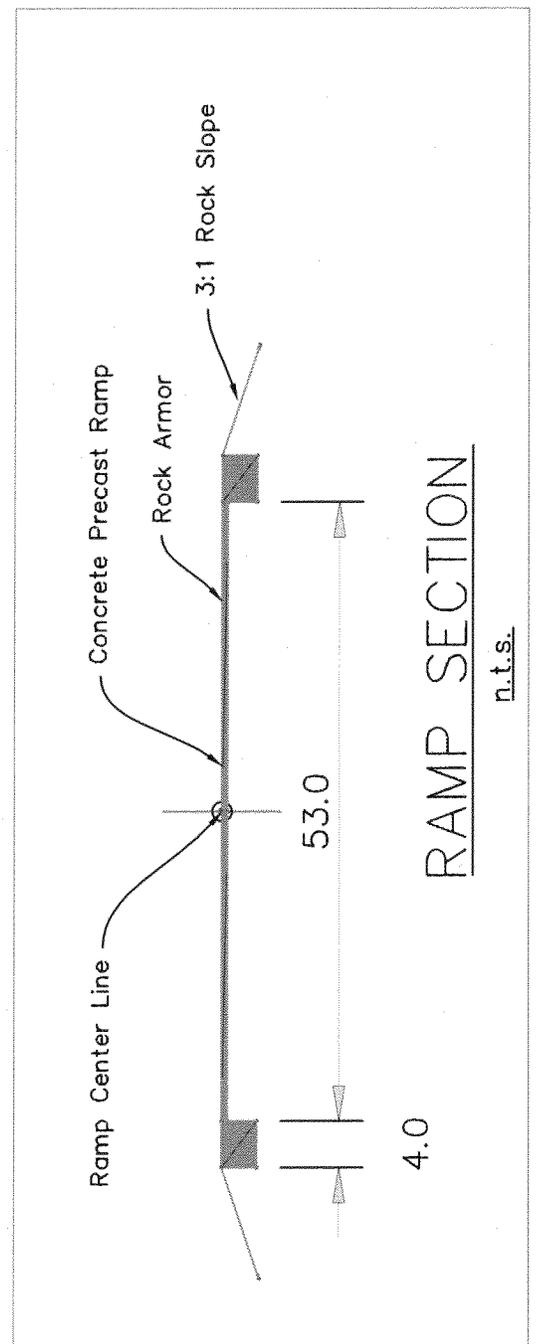
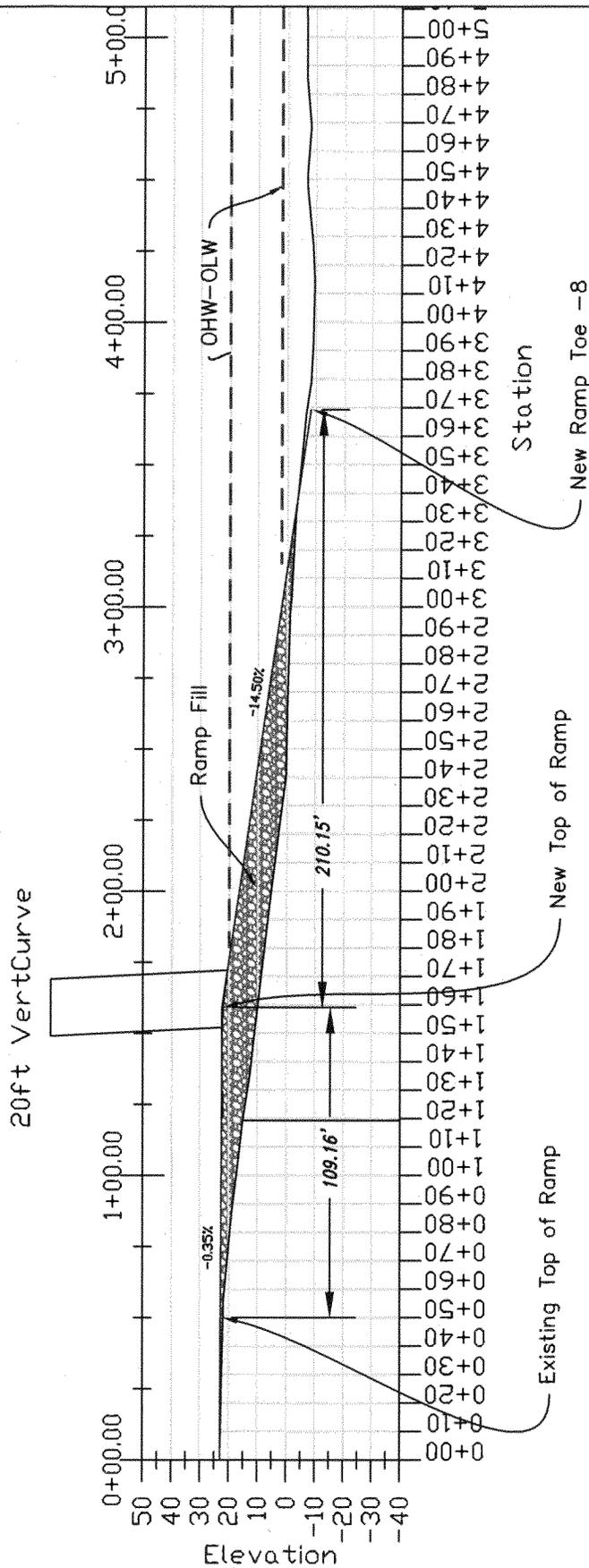
DATE:
 10/2/12

SCALE: 1"=60'

SHEET: 4/10

4. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

RAMP PROFILE



RAMP SECTION

n.t.s.



Flowing solutions



Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone (503) 297-6331
Fax (503) 297-6053

SHEET TITLE: PROFILE

PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP
NIXON AVE & ELMRAN DR
WEST LINN, OR 97068

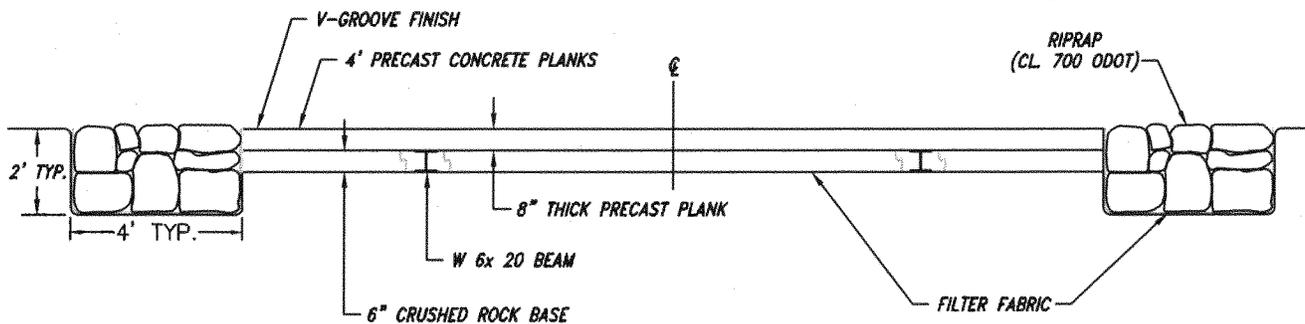
RIVER/MILE: WILLAMETTE, RM 23.2

DATE: 10/2/12

SCALE: 1"=60'

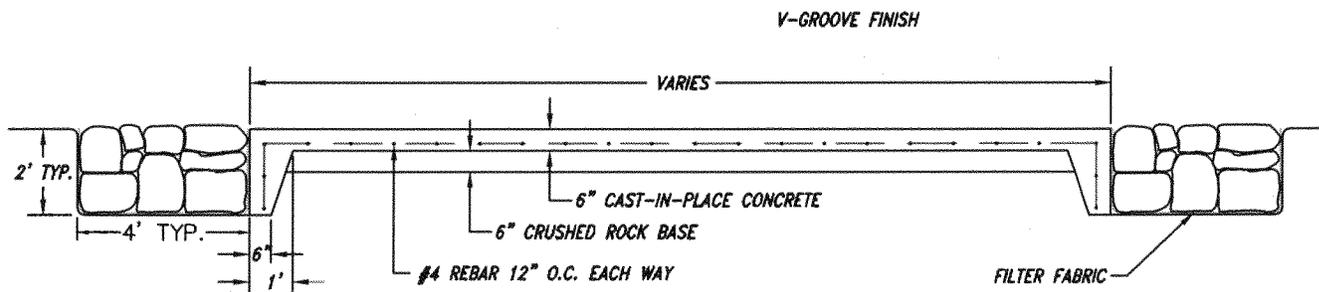
DATUM: NGVD

SHEET: 5 / 10



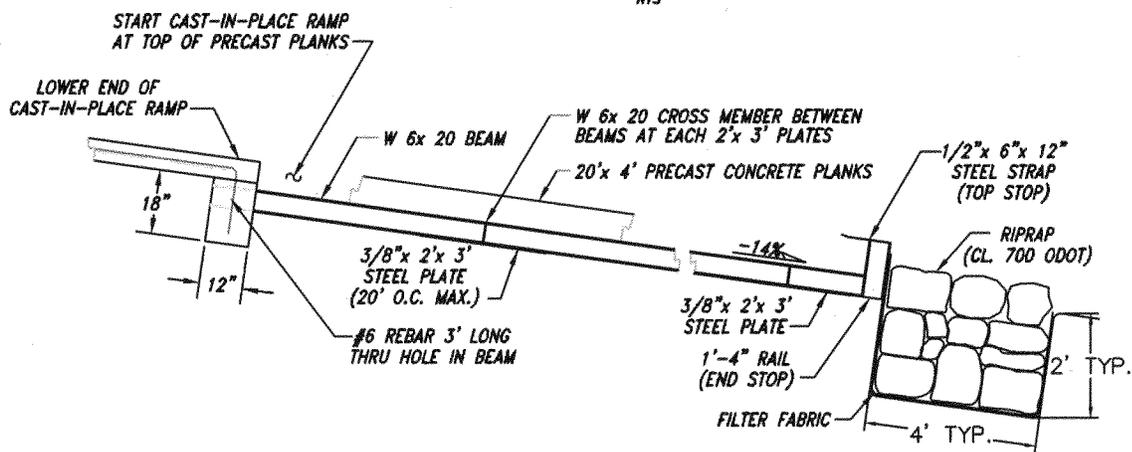
PRECAST RAMP SECTION

NTS



CAST-IN-PLACE RAMP SECTION

NTS



PRECAST PLANK/RAIL PROFILE

NTS

Flowing solutions



Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone (503) 297-6331
Fax (503) 297-6053

SHEET TITLE: RAMP DETAILS

PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP
NIXON AVE & ELMRAN DR
WEST LINN, OR 97068

RIVER/MILE: WILLAMETTE, RM 23.2

DATE:
10/2/12

SCALE: NTS

DATUM: NGVD

SHEET: 7/10

12/17/12 11:47 AM 5:00 PM 11/11/12 11:47 AM 5:00 PM 11/11/12 11:47 AM 5:00 PM 11/11/12 11:47 AM 5:00 PM

PLANTING KEY

TREES:

| | | | | |
|---|---|--|-------------|----------|
|  | ALNUS RUBRA | RED ALDER | 5 GAL. | AS SHOWN |
|  | POPULUS TRICHOCARPA | BLACK COTTONWOOD | 5 GAL. | AS SHOWN |
|  | SALIX EXIGUA SSP MELANOPSIS & SALIX FLUVIATILIS | SANDBAR WILLOW & COLUMBIA RIVER WILLOW | 10 CI PLUGS | 1' O.C. |

PLANTING ZONES:

FILL BANK PLANTING - Zone 1 (lower)

| | | | | |
|---|-----------------------|------------------|------|--------------------------|
|  | CORNUS SERICEA | REDTWIG DOGWOOD | R.S. | 2' O.C. GROUPS 5, 7, & 9 |
| | PHYSOCARPUS CAPITATUS | PACIFIC NINEBARK | R.S. | 2' O.C. GROUPS 5, 7, & 9 |
| | MYRICA GALE | PACIFIC BAYBERRY | R.S. | 2' O.C. GROUPS 5, 7, & 9 |

FILL BANK PLANTING - Zone 2 (upper)

| | | | | |
|---|-------------------|-----------------|------|-----------------------------|
|  | SPIRAEA DOUGLASII | DOUGLAS SPIREA | R.S. | 2' O.C. GROUPS OF 5, 7, & 9 |
| | CORNUS SERICEA | REDTWIG DOGWOOD | R.S. | 2' O.C. GROUPS OF 5, 7, & 9 |

RIPARIAN PLANTING

| | | | | |
|---|-----------------------|------------------|---------------|-----------------------------|
|  | CAREX UNILATERALIS | ONE-SIDED SEDGE | = 17% PLUGS | 6" O.C. |
| | CAREX DEWEYANA | DEWEY SEDGE | = 17% PLUGS | 6" O.C. |
| | DESCHAMPSIA CESPITOSA | TUFTED HAIRGRASS | = 17% 4" POTS | 12" O.C. |
| | ELYMUS GLAUCUS | BLUE WILD RYE | = 17% PLUGS | 6" O.C. |
| | JUNCUS ENSIFOLIUS | DAGGERLEAF RUSH | = 17% 4" POTS | 12" O.C. |
| | POLYSTICHUM MUNITUM | SWORD FERN | = 15% 4" POTS | 12" O.C. |
| | CORNUS SERICEA | REDTWIG DOGWOOD | 1 GAL. | 3' O.C. GROUPS 5, 7, & 9 |
| | PHYSOCARPUS CAPITATUS | PACIFIC NINEBARK | 1 GAL. | 3' O.C. GROUPS OF 5, 7, & 9 |
| | SPIRAEA DOUGLASII | DOUGLAS SPIREA | 1 GAL. | 3' O.C. GROUPS OF 5, 7, & 9 |
| | SYMPHORICARPUS ALBUS | COMMON SNOWBERRY | 1 GAL. | 3' O.C. GROUPS OF 5, 7, & 9 |

WET AREA MIX

| | | | | |
|---|-----------------------|-------------------------|---------------|----------|
|  | ALISMA PLANTAGQUATICA | AMERICAN WATER PLANTAIN | = 10% PLUGS | 6" O.C. |
| | CAREX DENSE | DENSE SEDGE | = 20% PLUGS | 6" O.C. |
| | CAREX DEWEYANA | DEWEY SEDGE | = 20% PLUGS | 6" O.C. |
| | ELEOCHARIS PALUSTRIS | CREEPING SPIKE RUSH | = 20% 4" POTS | 12" O.C. |
| | GLYCERIA OCCIDENTALIS | WESTERN MANNAGRASS | = 20% PLUGS | 6" O.C. |
| | DESCHAMPSIA CESPITOSA | TUFTED HAIR GRASS | = 10% PLUGS | 6" O.C. |

EXISTING BANK PLANTING - UPPER ZONE

| | | | | |
|--|----------------------|-------------------|--------|------------------------------|
|  | LONICERA INVOLUCRATA | TWINBERRY | R.S. | 30" O.C. GROUPS OF 3 |
| | RIBES SANGUINUM | FLOWERING CURRENT | R.S. | 30" O.C. GROUPS OF 3 |
| | SPIRAEA DOUGLASII | DOUGLAS SPIREA | 1 GAL. | 30" O.C. GROUPS OF 3, 5, & 7 |
| | SYMPHORICARPUS ALBUS | COMMON SNOWBERRY | 1 GAL. | 30" O.C. GROUPS OF 3 |

EXISTING BANK PLANTING - LOWER ZONE

| | | | | |
|---|-----------------------|------------------|------|--------------------------|
|  | CORNUS SERICEA | REDTWIG DOGWOOD | R.S. | 2' O.C. GROUPS 5, 7, & 9 |
| | PHYSOCARPUS CAPITATUS | PACIFIC NINEBARK | R.S. | 2' O.C. GROUPS 5, 7, & 9 |
| | MYRICA GALE | PACIFIC BAYBERRY | R.S. | 2' O.C. GROUPS 5, 7, & 9 |

SEED MIX FOR EXISTING BANK PLANTING - LOWER AND UPPER ZONES

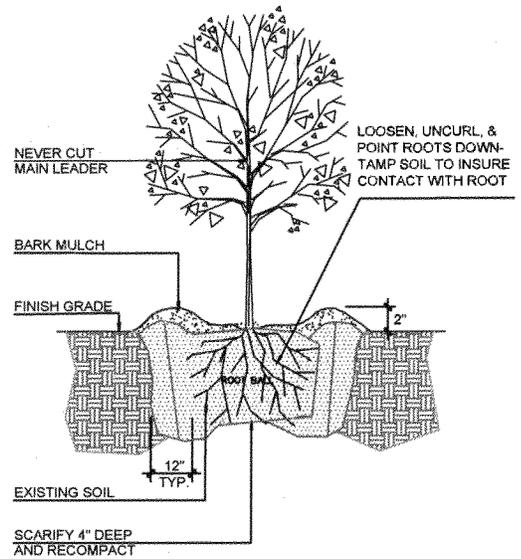
| | | | |
|---------------------|-------------------|------------|-----------------------------|
| ELYMUS GLAUCUS | BLUE WILD RYE | 60% OF MIX | PLANT SEED MIX AT A RATE OF |
| FESTUCA RUBRA RUBRA | NATIVE RED FESCUE | 30% | 2 POUNDS / 1000 S.F. |
| BROMUS CARINATUS | CALIFORNIA BROME | 10% | |

EXISTING UNDERSTORY PLANTING -

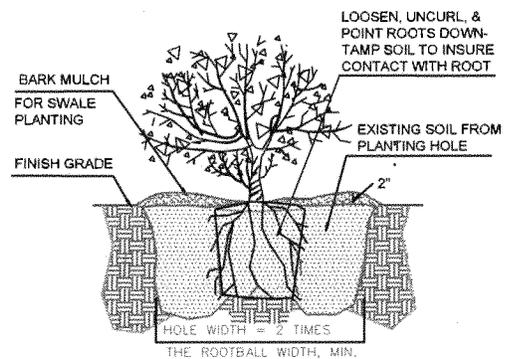
| | | | | |
|---|---------------------------------------|---------------|---------|-------------------------|
|  | LONICERA INVOLUCRATA | TWINBERRY | 1 GAL. | 4' O.C. GROUPS 3 |
| | ROSA PISOCARPA | PEAFRUIT ROSE | 1 GAL. | 3' O.C. GROUPS OF 3 |
| | ATHYRIUM FILIX-FEMINA VAR. CYCLOSORUM | LADY FERN | 4" POTS | 2' O.C. GROUPS OF 3 & 5 |

NOTES:

- PLANT MATERIALS MUST BE NATIVE AND SELECTED FROM THE PORTLAND PLANT LIST. THEY MUST BE NON-CLONAL IN ORIGIN. SEED SOURCE MUST BE AS LOCAL AS POSSIBLE AND PLANTS MUST BE NURSERY PROPAGATED UNLESS TRANSPLANTED FROM ON-SITE AREAS APPROVED FOR DISTURBANCE.
- PROTECT EXISTING NATIVE PLANT MATERIAL. CONTACT LANDSCAPE ARCHITECT FOR LIST OF EXISTING NATIVE PLANTS TO PROTECT.
- PRIOR TO PLANT INSTALLATION, REMOVE NON-NATIVE, INVASIVE PLANTS SPECIES (INCLUDING BUT NOT LIMITED TO HIMALAYAN BLACKBERRY, REED CANARY GRASS, AND CANADIAN THISTLE) FROM ALL AREAS WITHIN 10 FEET OF THE PLANTING AREA, USING HANDHELD EQUIPMENT.
- THE PLANT MATERIALS ARE TO BE USED FOR RESTORATION PURPOSES. STANDARD NURSERY PRACTICES FOR GROWING LANDSCAPE PLANTS, SUCH AS USE OF PESTICIDES, FUNGICIDES, OR FERTILIZERS AND THE STAKING OF TREES, MUST NOT BE EMPLOYED.
- REMOVE PLANTS FROM POTS AND LOOSEN, UNWIND, AND TRIM ROOTS. REMOVE ENOUGH POTTING SOIL TO ENSURE THAT ROOTS ARE IN CONTACT WITH EXISTING SOIL.
- PLANT MATERIAL SHALL BE PLACED SO THAT ROOT COLLARS ARE EVEN WITH THE GROUND AND THE PLANT IS UPRIGHT.
- PLANT MATERIAL MUST BE SUPPORTED ONLY WHEN NECESSARY DUE TO EXTREME WINDS AT THE PLANTING SITE. WHERE SUPPORT IS NECESSARY, STAKES, GUY WIRES OR OTHER MEASURES MUST BE REMOVED AS SOON AS THE PLANT CAN SUPPORT ITSELF.
- ENSURE THAT THE EXISTING TEMPORARY IRRIGATION SYSTEM WILL ADEQUATELY PROVIDE WATER FOR THE NEW PLANTS. THE PLANT MATERIAL SHOULD RECEIVE REGULAR WATERING DURING THE FIRST GROWING SEASON. AFTER THE INITIAL SEASON, WATERING SHALL OCCUR AS NEEDED TO ENSURE PLANTS SURVIVAL UNTIL FULLY ESTABLISHED.
- REMOVE A TWO FOOT DIAMETER AREA OF WEEDS AND DUFF AROUND EACH PLANTING HOLE. PLACE 2 INCHES OF MEDIUM GRADE FIR BARK MULCH AROUND THE PLANT IN THE UPPER SLOPES OF THE INFILTRATION SWALE. DO NOT PLACE MULCH AGAINST THE PLANT'S TRUNK.



1 DECIDUOUS TREE PLANTING & STAKING



2 SHRUB PLANTING

Joyce Jackson - LA.COM
Flowing solutions

 Flowing Solutions
3305 SW 87th Avenue
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SHEET TITLE: LANDSCAPE DETAILS

PROJECT: CEDAR OAK PUBLIC LAUNCH RAMP
NIXON AVE & ELMRAN DR
WEST LINN, OR 97068

RIVER/MILE: WILLAMETTE, RM 23.2

DATUM: NGVD

DATE:
10/2/12

SCALE: NTS

SHEET: 10/10

