

---

**ADDENDUM TO REDDINGTON LEVEE SETBACK**

**HABITAT MONITORING PLAN**

**GREEN RIVER, RM 28.2 TO 29.5**

---

Corps Reference Number NWS-2010-1183

November 20, 2013

Authors:

S. McCarthy<sup>1</sup>, J. Koon, H. Berge, D. Lantz, and E. Peters  
King County Department of Natural Resources and Parks  
Water and Land Resources Division  
201 S. Jackson St, Suite 600  
Seattle, WA 98104-3855

<sup>1</sup>Project Manager: Email: [Sarah.McCarthy@kingcounty.gov](mailto:Sarah.McCarthy@kingcounty.gov); Phone: 206.263.0492

**Table of Contents**

Summary ..... 3

Reddington Plant Recruitment Study ..... 4

Reddington Irrigation Study..... 5

Revised Planting Plan..... 7

## Summary

King County proposes modifications to the Reddington Levee Setback Planting Plan. These changes result in a gain of 0.29 acres of planted area and 2,878 additional plants. The proposed changes leave an area unplanted to facilitate a plant recruitment study, reduce the risk of plantings being affected by a future project, increase the planting area overall by planting areas closer to the water, and tighten the plant spacing in a few areas. The changes are summarized below, and if approved, the attached planting plan will replace the previous plan. Two study proposals are also attached. The goal of planting studies is to improve our planting and maintenance practices in the future. Each study plan has an adaptive management section that explains how King County would work to meet the previously agreed-upon permit conditions if plant survival and cover were to fall below intermediate performance standards.

- Two study sites have been established. The first study, in Area “A”, is a natural recruitment study which complements an identical study being conducted on the Cedar River. The second study will be established in a subsection of Area “C” and will compare hand watering, drip irrigation and control plots. Draft study designs are attached.
- Part of Planting Area “A” has been eliminated to allow for future construction of the planned levee extension and a patch of existing vegetation spanning small parts of Areas “D” and “E” has been removed from the planting areas. Part of Area “A” has also been reserved for the natural recruitment study and will not be planted unless natural recruitment is not successful (see the adaptive management section of the attached natural recruitment study proposal). Planting areas “C”, “G” and “H” have been expanded to improve future riparian conditions and reduce the potential need for invasive species establishment and control. **The net change in planting area from all of these changes is a gain of 0.29 acres.** The overall shift in planting areas has put more of the planting closer to the water.
- Shrub densities in parts of Areas “D”, “E” and “F” (under the powerlines) have been increased from an average plant spacing of 7 feet to 6 feet; this is to make up for not having trees under the powerlines per the BPA easement (See Note 2 on Page L7). The spacing of the irrigation study area in Planting Area C has been increased from 7 feet to 4.5 feet to meet study objectives.
- Some species were added and some plant mixes were altered. Most plant quantities were rounded to the nearest 10 plants to facilitate plant management.
- **The total number of plants on both the left and right banks, including willow and cottonwood stakes, has been increased from 15,580 to 18,458.**

## Reddington Plant Recruitment Study

The purpose of this study is to determine recruitment rate of native woody plant species in riparian areas following disturbance. The experiment will be located within Planting Zone A which is a large field used as a staging area during levee setback project construction. One half acre within Planting Zone A will be left unplanted. Permanent plots will be established here to monitor natural recruitment of native and invasive species over a five year period. In addition, 15 plots will be sampled in the exact same way within the planted area of Zone A to determine weed frequency, percent cover, and recruitment rate.

### Study Design:

4 treatments, 15 replicates, 4m x 4m plots, 1 meter between each plot and around perimeter.

### Treatments:

1. Control
2. Weed
3. Water
4. Weed and Water

Weeding will use chemical control (Roundup Pro or Roundup Pro Max), handheld sprayer. Apply once in May to control rosettes, once in August so the herbicide is translocated to roots. Watering will occur for two years, 2x/month in the dry months. Only water woody seedlings, not weeds

### Response variables:

1. Frequency of weeds (Y/N)
2. Percent cover of all plants (visual estimate within 4x4m plot)
3. Recruitment rate (seedling count for woody species)

### Monitoring Plan:

- Year 1 (2014): Late summer/early fall – one growing season after study is initiated
- Year 3 (2016): Late summer/early fall – three growing seasons after study is initiated
- Year 5 (2018): Late summer/early fall – five growing seasons after study is initiated

### Adaptive Management:

If, in year 5, 40% cover of native woody species is not observed in at least 75% of test plots, the study area will be planted with native trees and shrubs to achieve the originally proposed spacing (trees at 12 feet on center and shrubs at 7 feet on center) and to increase the likelihood of reaching Year 10 percent cover targets (75%).

# Reddington Irrigation Study

## Problem Statement

King County's levee and revetment projects typically include revegetation of new or disturbed sites with native trees and shrubs. Installation and maintenance of these sites includes planting, mulching, weeding and watering. King County has used both hand watering and drip irrigation on its levee and revetment projects, but has never attempted to determine which method is most effective. More recently it has been suggested that not watering and over-planting to allow for losses may be more cost effective than planting fewer plants and doing intensive watering. Of particular concern is the effectiveness and relative cost of hand watering on levee and revetment slopes where water may run off before it can infiltrate into the plant's root zone. The purpose of this study is to compare the relative benefits of hand watering, drip irrigation and not watering.

## Objectives

1. Determine the effect of three irrigation treatments (hand water, drip irrigate and no water) on plant survival for the purpose of informing future vegetation plans.
2. Meet regulatory requirements related to revegetation on the project
3. Recycle drip irrigation materials salvaged from previous projects

## Study Location and Description

The study site will be within the Reddington Levee Setback project on the Green river in Auburn Washington. This project was constructed in 2013 and resulted in the reduction of an existing levee and construction of a new levee in a location set back from river. The project extends from River Mile 28.5 to 29.5. The study will be conducted on a 720 foot long levee segment which runs roughly north-south and is bordered to the east (riverward side) by a wooded wetland and to the west by the levee and a residential community of manufactured homes. The existing steep sided slope landward of the river and wetland was cleared and reworked to install the new setback levee and associated engineered logjams. The new levee face was planted with willow rows/lifts; two lifts near the bottom of the slope and one lift was planted mid slope. The upper slope (above the top willow lift) will be maintained as grass. The area between the willow lifts (approximately 18 to 20 feet in width) will be revegetated with native shrub species. The area between the willow lifts will be the study site.

## Study Design

The study will be set up using 4 replicates containing 3 plots of each of the 3 treatments to equal a total of 36 plots. Plot sizes will be 20 feet long by 15 feet deep. The twenty foot dimension will run parallel to the levee. These plot sizes maximize the ability to use recycled materials and still meeting study objectives. The three treatments to be used are: drip irrigation, hand water or no water. Treatments will be assigned in a repeating pattern along the length of the study area. Each plot will be planted with 10 red twig dogwoods and 10 snowberries. In addition, three locations will be prepared in each plot and marked with a stake (unplanted) for evaluation of the distribution of both irrigation and natural rainfall. All plant material will be one gallon stock from the same nursery and installed in winter of 2013/14

during two consecutive days. All plants will be mulched using cardboard and approximately four inches of wood mulch to suppress weeds and conserve soil moisture. The primary metrics will be the total cost of installing and maintaining the plants and the percent survival of each species within each plot.

### **Analysis**

All time and labor hours and material costs associated with the installation and maintenance of the plots will be documented throughout the study and plant survival data for each plot will be collected in late September 2014. Possible outcomes that will be evaluated include:

- Difference in survival between the two treatments and control.
- Difference in cost per plant installed and maintained between the two treatments and control.
- Difference in cost per plant still living at the end of the study period.
- Difference in water distribution in the soil column between the unused planting sites in each treatment.

### **Limitations**

- The site is less exposed than most Green River Levee sites; therefore irrigation may be less critical to the plants in the study area than plants on other levee repair projects.
- If the summer is unusually wet, plants will be less sensitive to differences in irrigation practices.
- Watering protocols will be more tightly controlled than in typical practice and will not capture the variation in watering quality that would be observed less rigid watering programs.
- The study area is between rows of willow stake plantings which will begin to shade the study area within the first few years, thereby reducing the criticality of water to plant survival and changing the fundamental conditions of the site. It is anticipated that the study will be terminated after either the first or second year of irrigation.

### **Adaptive Management**

- The planting in the study area is denser than that of the rest of the Reddington Project area; however, if after year two, plant mortality has reduced the average spacing to below the project-wide density of 6', additional plants will be needed.
- If, after the first year, one treatment is found to be more cost effective than the other two treatments, and no further data are needed, the entire study area will be treated using the best treatment.

# Revised Planting Plan

SEC. 32, TWN. 22, R. 5 SW, W.M.

SEC. 5, TWN. 21, R. 5 NW, W.M.

CUT AND TREAT BLACKBERRY  
ALONG EDGE OF FIELD,  
APPROXIMATE WIDTH OF  
TREATMENT ZONE IS 30 FEET.

NATURAL RECRUITMENT  
STUDY AREA  
141' x 141'

A

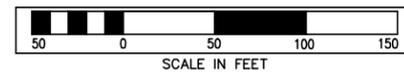
N: 128747.16  
E: 1299752.39

N: 128076.43  
E: 1299827.96

N: 128751.10  
E: 1299569.77

SEC. 31, TWN. 22, R. 5 SE, W.M.

SEC. 6, TWN. 21, R. 5 NE, W.M.



GREEN RIVER

MATCHLINE - SEE SHEET L6

A. Fallow Field	
147,892 sqft	
Trees	12' Spacing
Species	Number
Cottonwood (Stakes)	510
Alder	280
Western Red Cedar	120
Douglas Fir	120
<b>Tree Totals</b>	<b>1,030</b>
Shrubs	7' Spacing
Species	Number
Black Twinberry	90
Red Twig Dogwood	600
Snowberry	1,090
Ninebark	150
Ocean Spray	270
Tall Oregon Grape	100
Thimbleberry	300
Baldhip Rose	420
<b>Shrub Totals</b>	<b>3,020</b>

**NOTES:**

- DO NOT PLANT NATURAL RECRUITMENT AREA.
- PLANT THIMBLEBERRY AND ROSE ALONG WEST EDGE OF PLANTING AREA.
- DO NOT PLANT 2-GALLON STOCK IN AREA "A".

**CALL 2 WORKING DAYS  
BEFORE YOU DIG  
1-800-424-5555**

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NUM.	REVISION	BY	DATE
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED: TOM BEAN, P.E.	11/20/2013
PROJECT MANAGER: ERIK PETERS, P.E.	11/20/2013
DESIGNED: JOHN KOON	11/20/2013
REVIEWED: LISA BRANDT	11/20/2013
CAD DESIGN: KAY KITAMURA	11/20/2013

FUNDING SOURCE No.	---
PROJECT No.	1112035
CONTRACT No.	C00817C13

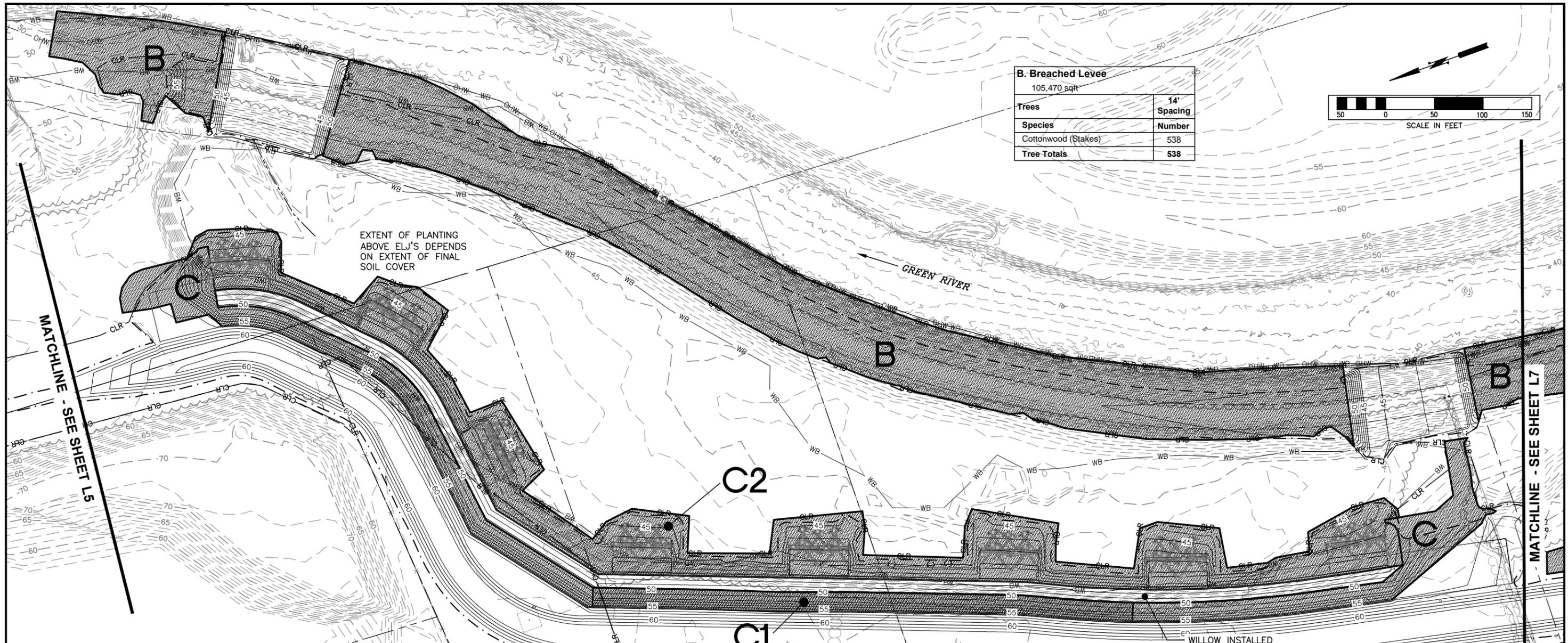


**King County**  
Department of Natural Resources and Parks  
Water and Land Resources Division  
River and Floodplain Management Section  
Christie True, Director

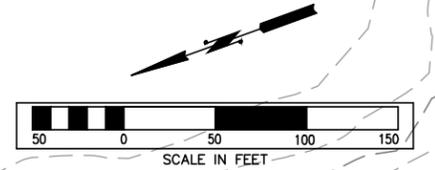
**REDDINGTON LEVEE SETBACK**  
**PLANTING PLAN - NOVEMBER 2013 REVISION**

SHEET  
**L5**  
OF  
**107**  
SHEETS

\\dnp.kingcounty.ch\wikisc\CIP\Share\CADD\1-RIVERS CAD SUPPORT\Reddington Levee\_RD\_Utl\DWG SETBACK\RED-SE\_L\_PLANT.dwg, L6, 11/20/2013 12:00:25 PM, kkitamura, 1:2



B. Breached Levee	
105,470 sqft	
Trees	14' Spacing
Species	Number
Cottonwood (Stakes)	538
<b>Tree Totals</b>	<b>538</b>



EXTENT OF PLANTING ABOVE ELJ'S DEPENDS ON EXTENT OF FINAL SOIL COVER

MATCHLINE - SEE SHEET L5

MATCHLINE - SEE SHEET L7

C. Setback Levee	
24,517 sqft	
Trees	12' Spacing
Species	Number
Bigleaf Maple	35
Douglas Fir	35
<b>Tree Totals</b>	<b>70</b>
Shrubs	7' Spacing
Species	Number
Dogwood	120
Snowberry	80
Baldhip Rose	50
Black Twinberry	80
Thimbleberry	70
Salmonberry	100
<b>Shrub Totals</b>	<b>500</b>

C1. Irrigation Study	
14,400 sqft	
Shrubs	4.5' Spacing
Species	Number
Dogwood	360
Snowberry	360
<b>Shrub Totals</b>	<b>720</b>

C2. Wetland ELJs	
50,034 sqft	
Trees	12' Spacing
Species	Number
Alder	70
Oregon Ash	100
Cottonwood Stakes	180
<b>Tree Totals</b>	<b>350</b>
Shrubs	7' Spacing
Species	Number
Black Twinberry	270
Cluster Rose	130
Dogwood	220
Salmonberry	200
Thimbleberry	200
<b>Shrub Totals</b>	<b>1,020</b>

WILLOW INSTALLED DURING CONSTRUCTION

- NOTES:**
1. PLANTING AREA "B" MAY BE PLANTED AFTER FIRST SIGNIFICANT HIGH FLOWS.
  2. START PLANTING AREA "C" 6 FEET VERTICAL BELOW TOP OF LEVEE. DO NOT PLANT TREES ON LEVEE SLOPE.
  3. AREA "C1" IS IRRIGATION STUDY AREA.

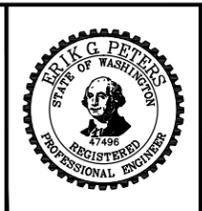
**CALL 2 WORKING DAYS BEFORE YOU DIG**  
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NUM.	REVISION	BY	DATE
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED:	TOM BEAN, P.E.	11/20/2013
PROJECT MANAGER:	ERIK PETERS, P.E.	11/20/2013
DESIGNED:	JOHN KOON	11/20/2013
REVIEWED:	LISA BRANDT	11/20/2013
CAD DESIGN:	KAY KITAMURA	11/20/2013

FUNDING SOURCE No.	---
PROJECT No.	1112035
CONTRACT No.	C00817C13

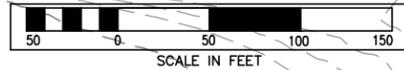


**King County**  
Department of Natural Resources and Parks  
Water and Land Resources Division  
River and Floodplain Management Section  
Christie True, Director

**REDDINGTON LEVEE SETBACK**

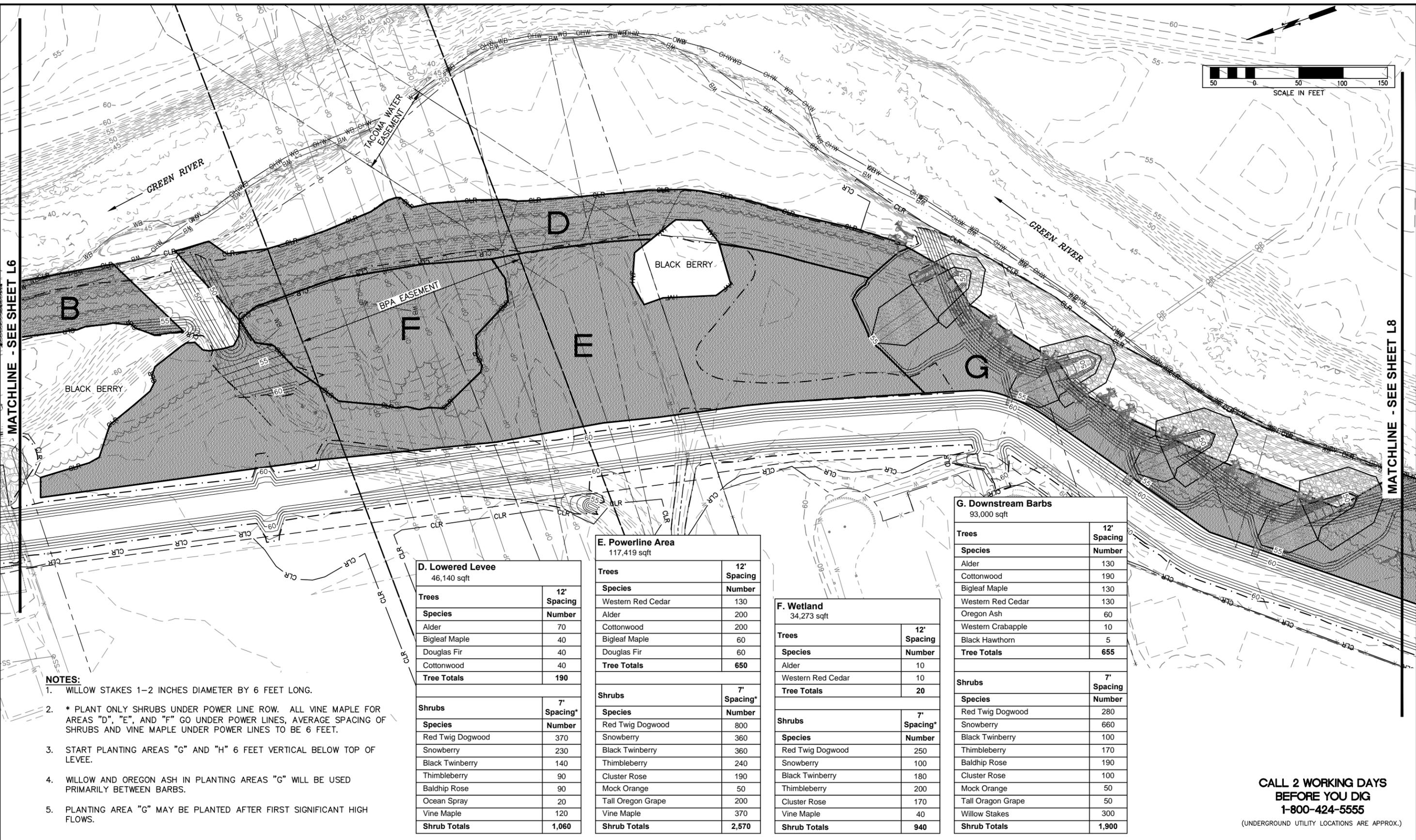
**PLANTING PLAN - NOVEMBER 2013 REVISION**

SHEET  
**L6**  
OF  
**107**  
SHEETS



MATCHLINE - SEE SHEET L6

MATCHLINE - SEE SHEET L8



**NOTES:**

1. WILLOW STAKES 1-2 INCHES DIAMETER BY 6 FEET LONG.
2. \* PLANT ONLY SHRUBS UNDER POWER LINE ROW. ALL VINE MAPLE FOR AREAS "D", "E", AND "F" GO UNDER POWER LINES, AVERAGE SPACING OF SHRUBS AND VINE MAPLE UNDER POWER LINES TO BE 6 FEET.
3. START PLANTING AREAS "G" AND "H" 6 FEET VERTICAL BELOW TOP OF LEVEE.
4. WILLOW AND OREGON ASH IN PLANTING AREAS "G" WILL BE USED PRIMARILY BETWEEN BARBS.
5. PLANTING AREA "G" MAY BE PLANTED AFTER FIRST SIGNIFICANT HIGH FLOWS.

**D. Lowered Levee**  
46,140 sqft

Trees	12' Spacing
Species	Number
Alder	70
Bigleaf Maple	40
Douglas Fir	40
Cottonwood	40
<b>Tree Totals</b>	<b>190</b>

Shrubs	7' Spacing*
Species	Number
Red Twig Dogwood	370
Snowberry	230
Black Twinberry	140
Thimbleberry	90
Baldhip Rose	90
Ocean Spray	20
Vine Maple	120
<b>Shrub Totals</b>	<b>1,060</b>

**E. Powerline Area**  
117,419 sqft

Trees	12' Spacing
Species	Number
Western Red Cedar	130
Alder	200
Cottonwood	200
Bigleaf Maple	60
Douglas Fir	60
<b>Tree Totals</b>	<b>650</b>

Shrubs	7' Spacing*
Species	Number
Red Twig Dogwood	800
Snowberry	360
Black Twinberry	360
Thimbleberry	240
Cluster Rose	190
Mock Orange	50
Tall Oregon Grape	200
Vine Maple	370
<b>Shrub Totals</b>	<b>2,570</b>

**F. Wetland**  
34,273 sqft

Trees	12' Spacing
Species	Number
Alder	10
Western Red Cedar	10
<b>Tree Totals</b>	<b>20</b>

Shrubs	7' Spacing*
Species	Number
Red Twig Dogwood	250
Snowberry	100
Black Twinberry	180
Thimbleberry	200
Cluster Rose	170
Vine Maple	40
<b>Shrub Totals</b>	<b>940</b>

**G. Downstream Barbs**  
93,000 sqft

Trees	12' Spacing
Species	Number
Alder	130
Cottonwood	190
Bigleaf Maple	130
Western Red Cedar	130
Oregon Ash	60
Western Crabapple	10
Black Hawthorn	5
<b>Tree Totals</b>	<b>655</b>

Shrubs	7' Spacing
Species	Number
Red Twig Dogwood	280
Snowberry	660
Black Twinberry	100
Thimbleberry	170
Baldhip Rose	190
Cluster Rose	100
Mock Orange	50
Tall Oregon Grape	50
Willow Stakes	300
<b>Shrub Totals</b>	<b>1,900</b>

**CALL 2 WORKING DAYS BEFORE YOU DIG**  
**1-800-424-5555**

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NUM.	REVISION	BY	DATE
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED: TOM BEAN, P.E.	11/20/2013
PROJECT MANAGER: ERIK PETERS, P.E.	11/20/2013
DESIGNED: JOHN KOON	11/20/2013
REVIEWED: LISA BRANDT	11/20/2013
CAD DESIGN: KAY KITAMURA	11/20/2013

FUNDING SOURCE No. ---
PROJECT No. 1112035
CONTRACT No. C00817C13



**King County**  
Department of Natural Resources and Parks  
Water and Land Resources Division  
River and Floodplain Management Section  
Christie True, Director

**REDDINGTON LEVEE SETBACK**  
**PLANTING PLAN - NOVEMBER 2013 REVISION**

SHEET  
**L7**  
OF  
**107**  
SHEETS

\\dnp.kingcounty.ch\wikisc\CIP\Share\CADD\1-RIVERS CAD SUPPORT\Reddington Levee\_RD\_U01\DWG SETBACK\RED-SB\_1\_PLANT.dwg\_L8\_11/20/2013 12:05:54 PM.kkitamura\_1:2



- NOTES:**
1. ALL WILLOW STAKES 1-2 INCHES DIAMETER BY 6 FEET LONG.
  2. START PLANTING AREAS "G" AND "H" 6 FEET VERTICAL BELOW TOP OF LEVEE.
  3. WILLOW AND OREGON ASH IN PLANTING AREAS "G" WILL BE USED PRIMARILY BETWEEN BARBS.
  4. PLANTING AREA "G" MAY BE PLANTED AFTER FIRST SIGNIFICANT HIGH FLOWS.

<b>H. Upstream Barbs</b>	
88,554 sqft	
Trees	12' Spacing
Species	Number
Alder	120
Cottonwood	90
Bigleaf Maple	120
Douglas Fir	160
Western Red Cedar	160
Oregon Ash	60
<b>Tree Totals</b>	<b>710</b>
Shrubs	7' Spacing
Species	Number
Red Twig Dogwood	250
Snowberry	650
Black Twinberry	100
Thimbleberry	350
Baldhip Rose	200
Mock Orange	30
Tall Oregon Grape	80
Ocean Spray	150
<b>Shrub Totals</b>	<b>1,810</b>

NUM.	REVISION	BY	DATE
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED: TOM BEAN, P.E.	11/20/2013
PROJECT MANAGER: ERIK PETERS, P.E.	11/20/2013
DESIGNED: JOHN KOON	11/20/2013
REVIEWED: LISA BRANDT	11/20/2013
CAD DESIGN: KAY KITAMURA	11/20/2013

FUNDING SOURCE No. ---  
 PROJECT No. 1112035  
 CONTRACT No. C00817C13



**King County**  
 Department of Natural Resources and Parks  
 Water and Land Resources Division  
 River and Floodplain Management Section  
 Christie True, Director

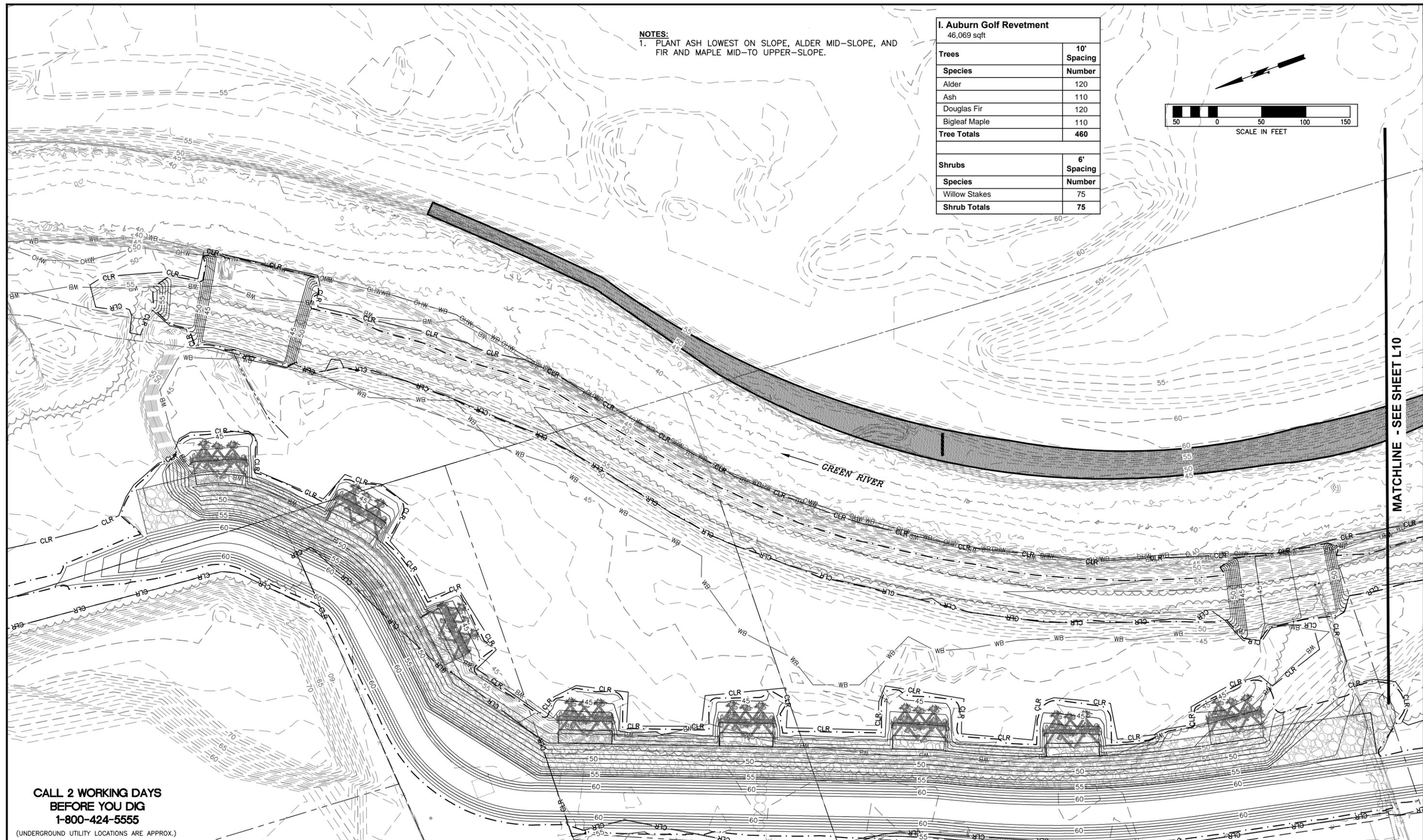
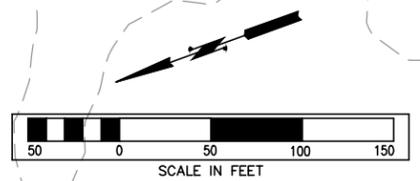
**REDDINGTON LEVEE SETBACK**  
 PLANTING PLAN - NOVEMBER 2013 REVISION

SHEET  
**L8**  
 OF  
**107**  
 SHEETS

**CALL 2 WORKING DAYS BEFORE YOU DIG**  
**1-800-424-5555**  
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

**NOTES:**  
 1. PLANT ASH LOWEST ON SLOPE, ALDER MID-SLOPE, AND FIR AND MAPLE MID-TO UPPER-SLOPE.

I. Auburn Golf Revetment	
46,069 sqft	
<b>Trees</b>	<b>10' Spacing</b>
<b>Species</b>	<b>Number</b>
Alder	120
Ash	110
Douglas Fir	120
Bigleaf Maple	110
<b>Tree Totals</b>	<b>460</b>
<b>Shrubs</b>	<b>6' Spacing</b>
<b>Species</b>	<b>Number</b>
Willow Stakes	75
<b>Shrub Totals</b>	<b>75</b>



**CALL 2 WORKING DAYS  
 BEFORE YOU DIG  
 1-800-424-5555**

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

MATCHLINE - SEE SHEET L10

NUM.	REVISION	BY	DATE	APPROVED: TOM BEAN, P.E.	11/20/2013	FUNDING SOURCE No. ---			<b>REDDINGTON LEVEE SETBACK</b>  <b>RIGHT BANK SUPPLEMENTAL PLANTING PLAN</b> <b>NOVEMBER 2013 REVISION</b>	SHEET <b>L9</b> OF <b>107</b> SHEETS
				PROJECT MANAGER: ERIK PETERS, P.E.	11/20/2013	PROJECT No. 1112035				
				DESIGNED: JOHN KOON	11/20/2013	CONTRACT No. C00817C13				
NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: LISA BRANDT	11/20/2013					
				CAD DESIGN: KAY KITAMURA	11/20/2013					

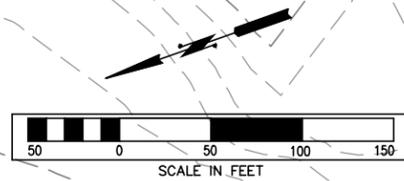
\\dmr.kingcounty.ch\wikisc\CP\Share\CADD\1-RIVERS CAD SUPPORT\Reddington Levee\_RD\_Uth\DWG SETBACK-RED-SE\_LR-BANK\_PLANT.dwg, 19, 11/20/2013 12:01:46 PM, Mkitamura, 1:2

**NOTES:**

1. PLANT ASH LOWEST ON SLOPE, ALDER MID-SLOPE, AND FIR AND MAPLE MID-TO UPPER-SLOPE.
2. PLANT ONLY WILLOWS UNDER BPA EASEMENT IN SECTION "1", NO TREES. DO NOT PLANT PACIFIC WILLOW.

I. Auburn Golf Revetment	
46,069 sqft	
Trees	10' Spacing
Species	Number
Alder	120
Ash	110
Douglas Fir	120
Bigleaf Maple	110
<b>Tree Totals</b>	<b>460</b>
Shrubs	6' Spacing
Species	Number
Willow Stakes	75
<b>Shrub Totals</b>	<b>75</b>

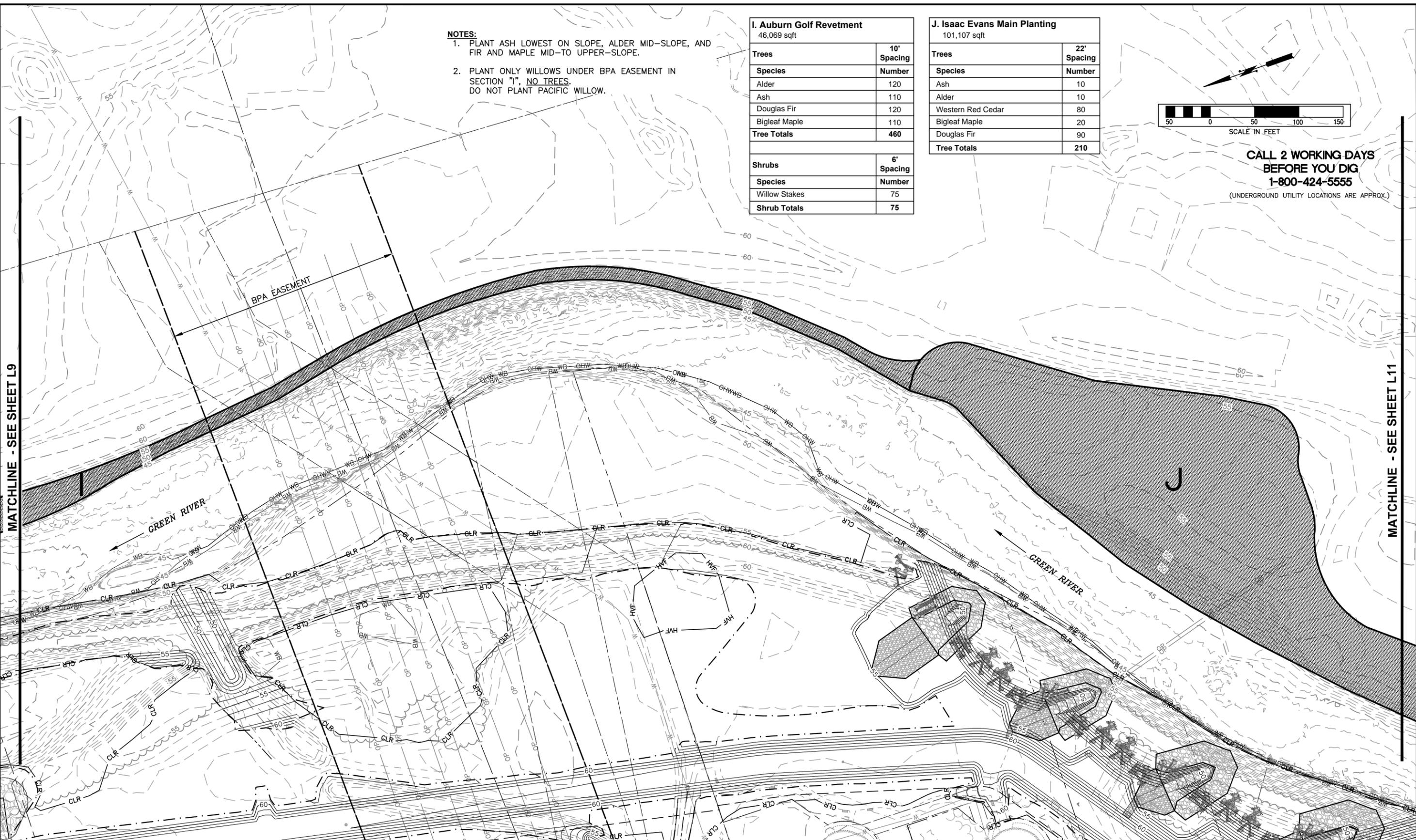
J. Isaac Evans Main Planting	
101,107 sqft	
Trees	22' Spacing
Species	Number
Ash	10
Alder	10
Western Red Cedar	80
Bigleaf Maple	20
Douglas Fir	90
<b>Tree Totals</b>	<b>210</b>



**CALL 2 WORKING DAYS BEFORE YOU DIG**  
**1-800-424-5555**  
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

MATCHLINE - SEE SHEET L9

MATCHLINE - SEE SHEET L11



NUM.	REVISION	BY	DATE
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED:	TOM BEAN, P.E.	11/20/2013
PROJECT MANAGER:	ERIK PETERS, P.E.	11/20/2013
DESIGNED:	JOHN KOON	11/20/2013
REVIEWED:	LISA BRANDT	11/20/2013
CAD DESIGN:	KAY KITAMURA	11/20/2013

FUNDING SOURCE No.	---
PROJECT No.	1112035
CONTRACT No.	C00817C13



**King County**  
 Department of Natural Resources and Parks  
 Water and Land Resources Division  
 River and Floodplain Management Section  
 Christie True, Director

**REDDINGTON LEVEE SETBACK**  
**RIGHT BANK SUPPLEMENTAL PLANTING PLAN**  
**NOVEMBER 2013 REVISION**

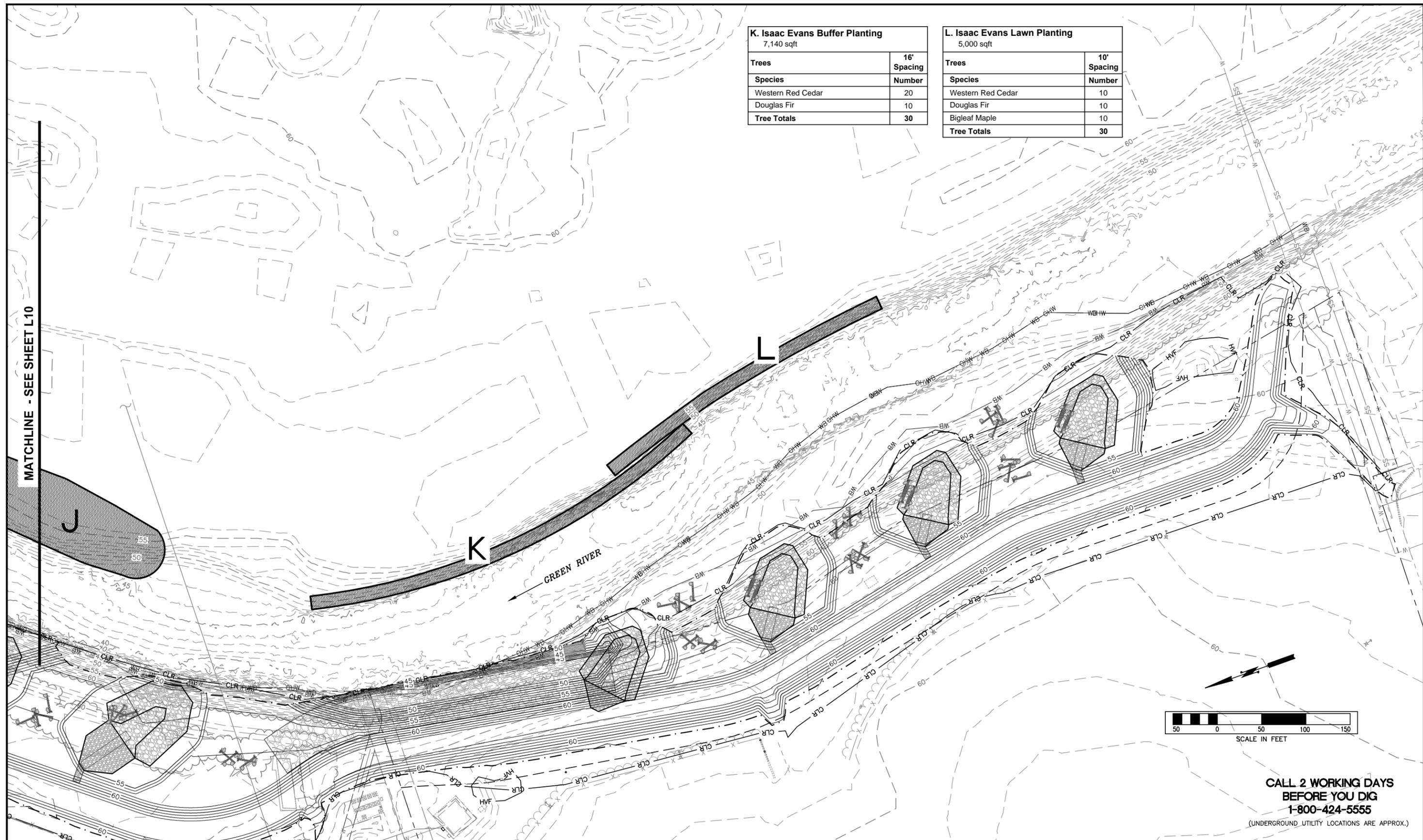
SHEET  
**L10**  
 OF  
**107**  
 SHEETS

\\dmp.kingcounty.ch\wikisc\CIP\Share\CADD\1-RIVERS CAD SUPPORT\Reddington Levee\_RD\_Utl\DWG SETBACK\RED-SB\_LR-BANK\_PLANT.dwg.L11. 11/20/2013 12:02:52 PM. kkitamura. 1:2

MATCHLINE - SEE SHEET L10

K. Isaac Evans Buffer Planting		
7,140 sqft		
Trees	16'	Spacing
Species	Number	
Western Red Cedar	20	
Douglas Fir	10	
<b>Tree Totals</b>	<b>30</b>	

L. Isaac Evans Lawn Planting		
5,000 sqft		
Trees	10'	Spacing
Species	Number	
Western Red Cedar	10	
Douglas Fir	10	
Bigleaf Maple	10	
<b>Tree Totals</b>	<b>30</b>	

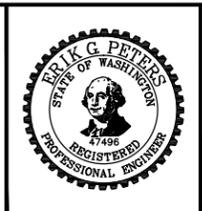


**CALL 2 WORKING DAYS  
BEFORE YOU DIG**  
**1-800-424-5555**  
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NUM.	REVISION	BY	DATE
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED:	TOM BEAN, P.E.	11/20/2013
PROJECT MANAGER:	ERIK PETERS, P.E.	11/20/2013
DESIGNED:	JOHN KOON	11/20/2013
REVIEWED:	LISA BRANDT	11/20/2013
CAD DESIGN:	KAY KITAMURA	11/20/2013

FUNDING SOURCE No.	---
PROJECT No.	1112035
CONTRACT No.	C00817C13



**King County**  
Department of Natural Resources and Parks  
Water and Land Resources Division  
River and Floodplain Management Section  
*Christie True, Director*

**REDDINGTON LEVEE SETBACK**

**RIGHT BANK SUPPLEMENTAL PLANTING PLAN**  
NOVEMBER 2013 REVISION

SHEET  
**L11**  
OF  
**107**  
SHEETS