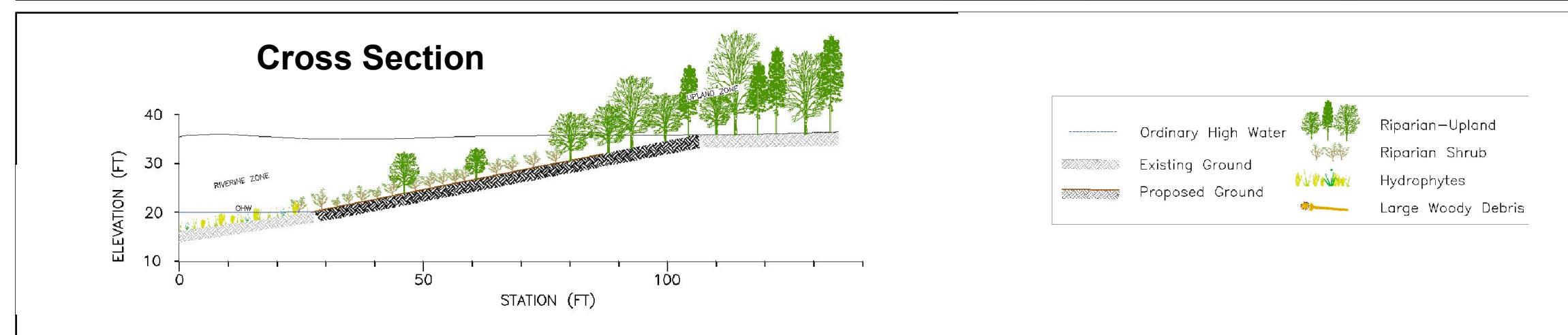
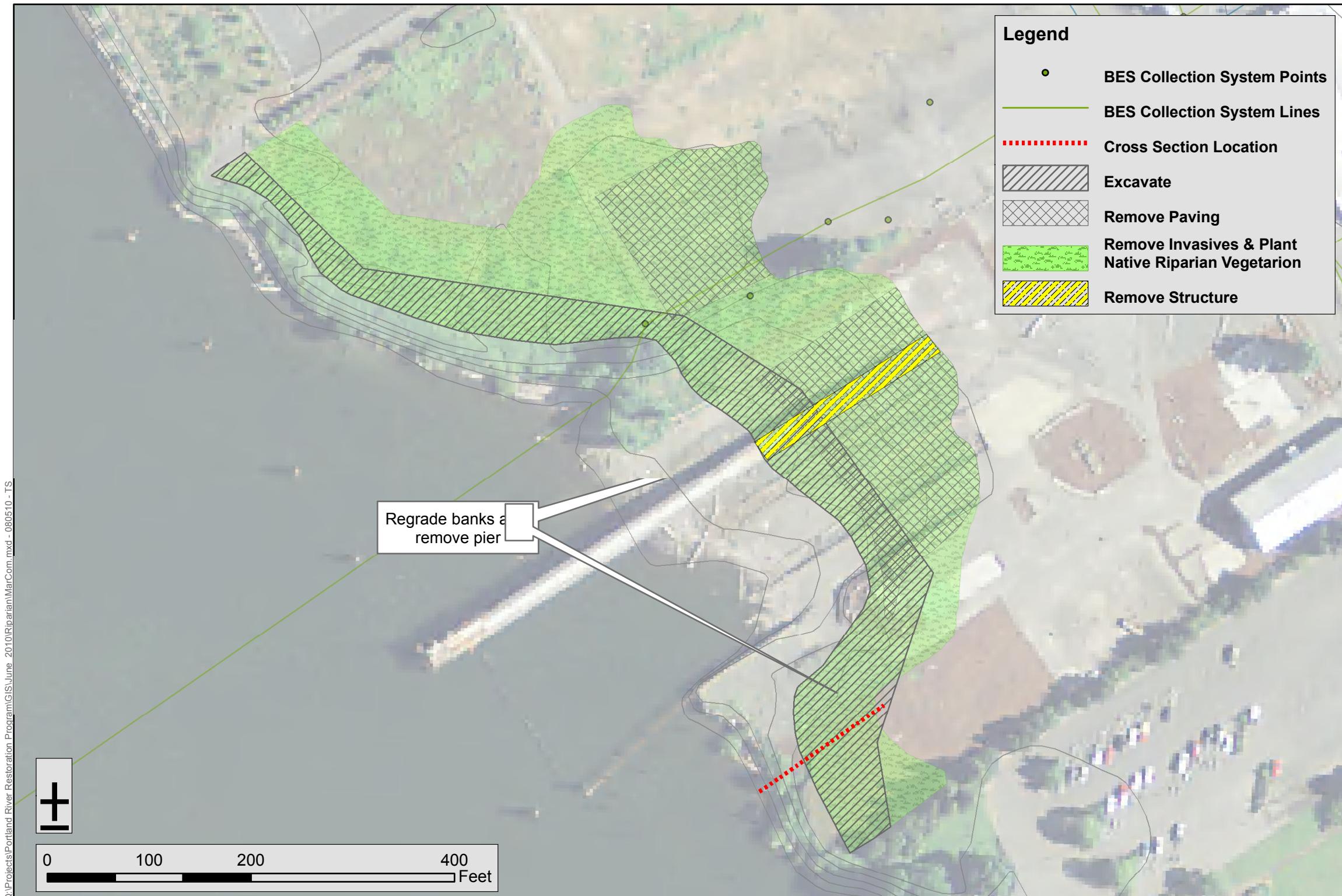


## **Appendix B**

### **Riparian Habitat Restoration Conceptual Designs**

# MarCom

## North Reach Mitigation Bank Riparian Habitat Restoration



## Cost Estimate

Line Item	Quantity	Units	Unit Cost	Cost
Site Preparation	1	LS	\$ 380,283	\$ 380,283
Demo of Structures	2,905	TN	\$ 200	\$ 580,984
Regrade Banks - Land-Based Excavation	14,637	TN	\$ 35	\$ 512,296
Place Erosion Control Fabric	53,600	SF	\$ 3.50	\$ 187,600
Remove Invasive Vegetation	3.5	AC	\$ 6,000	\$ 21,074
Plant Riparian Vegetation	3.5	AC	\$ 16,000	\$ 56,198
General Markups	1	LS	\$ 2,868,419	\$ 2,868,419
<b>Total Cost (Rounded)</b>				<b>\$ 4,607,000</b>

## Cost Estimate

# University of Portland Triangle Park

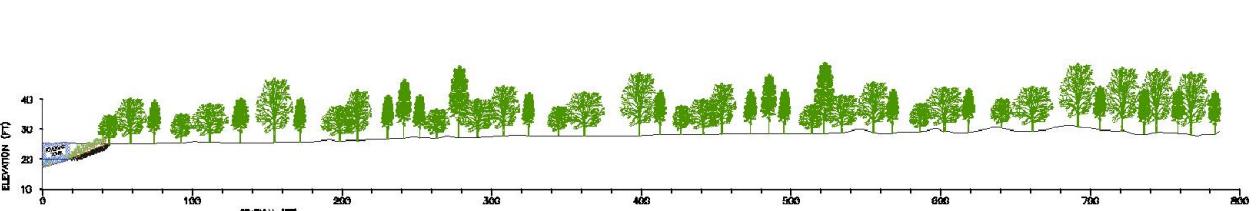
## North Reach Mitigation Bank Riparian Habitat Restoration



Line Item	Quantity	Units	Unit Cost	Cost
Site Preparation				
Demo of Structures	1	LS	\$ 494.223	\$ 494,223
Regrade Banks - Land-Based Excavation	3,455	TN	\$ 200	\$ 690,989
Place Erosion Control Fabric	14,667	SF	\$ 3.5	\$ 513,333
Remove Invasive Vegetation	71,400	AC	\$ 3,50	\$ 249,900
Plant Riparian Vegetation	14,1	AC	\$ 6,000	\$ 84,780
General Markups	1	LS	\$ 16,000	\$ 226,079
<b>Total Cost (Rounded)</b>				<b>\$ 5,988,000</b>



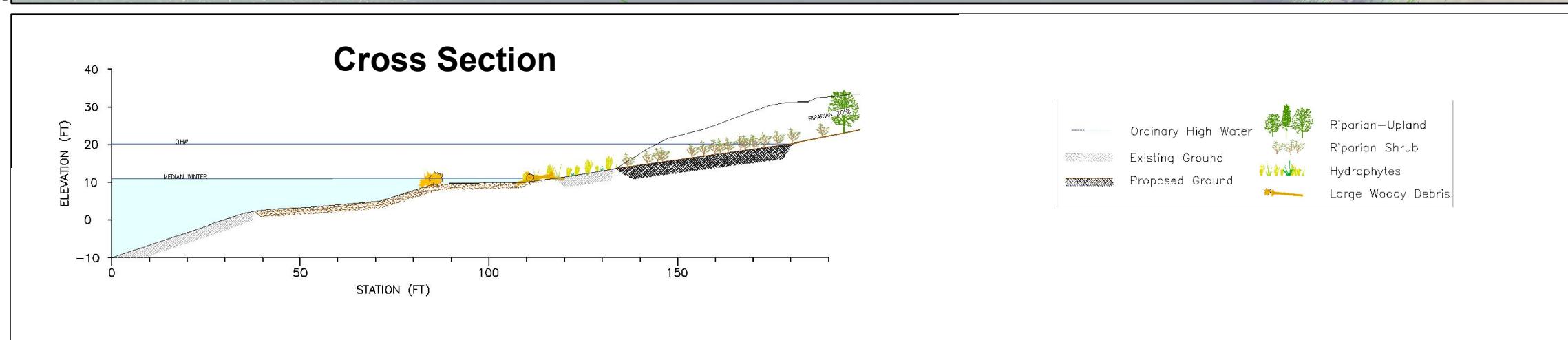
## Cross Section



# Willamette Cove

## Cost Estimate

### North Reach Mitigation Bank Riparian Habitat Restoration



Line Item	Quantity	Units	Unit Cost	Cost
Site Preparation	1	LS	\$ 2,122,057	\$ 2,122,057
Demo of Structures	606	TN	\$ 200	\$ 121,260
Regrade Banks - Land-Based Excavation	182,921	TN	\$ 35	\$ 6,402,252
Place Erosion Control Fabric	263,066	SF	\$ 3,50	\$ 920,731
Remove Invasive Vegetation	6,1	AC	\$ 6,000	\$ 36,690
Plant Riparian Vegetation	6,1	AC	\$ 16,000	\$ 97,840
General Markups	1	LS	\$ 16,006,370	\$ 16,006,370
<b>Total Cost (Rounded)</b>				<b>\$ 25,708,000</b>