## Department of Permitting

Environmental Review

35030 SE Douglas Str, Suite 210 Snoqualmie, WA 98065-9266 206-296-6600 TTY Relay: 711

**Critical Areas Mitigation Bond Quantity Worksheet** 

C24 09/09/2015 ls-wks-sensareaBQ.xls Is-wks-sensareaBQ.pdf

Project Name: The Liu Residence

**Date:** 2/16/2023

Prepared by: Interlaken Engineering and Design, PLLC

Project Number: Mercer Island Permit 2206-263 Project Description: Proposed single-family residence

Project Number: Mercer Island Permit 2206-26	∘ Project Des	·					
Location: 3705 77th PI SE		Applicant:	Charlie Cher	n Phone: (20	Phone: (206) 235 - 8818		
PLANT MATERIALS (includes labor cost for plant installation)							
Туре	Unit Price	Unit	Quantity	Description	Cost		
PLANTS: Potted, 4" diameter, medium	\$5.00	Each			\$ -		
PLANTS: Container, 1 gallon, medium soil	\$11.50	Each			\$ -		
PLANTS: Container, 2 gallon, medium soil	\$20.00	Each			\$ -		
PLANTS: Container, 5 gallon, medium soil	\$36.00	Each			\$ -		
PLANTS: Seeding, by hand	\$0.50	SY			\$ -		
PLANTS: Slips (willow, red-osier)	\$2.00	Each			\$ -		
PLANTS: Stakes (willow) PLANTS: Stakes (willow)	\$2.00 \$2.00	Each Each			\$ - \$ -		
PLANTS: Stakes (willow) PLANTS: Flats/plugs	\$2.00	Each			\$ -		
i Eniaro. i iatorpiugo	Ψ2.00	Lacii	<u> </u>	TOTAL	\$ -		
INSTALLATION COSTS ( LABOR, EQL	JIPMENT, & C	OVERHEAD)		•			
Туре	Unit Price	Unit			Cost		
Compost, vegetable, delivered and spread	\$37.88	CY	33.73		\$ 1277.69 -		
Decompacting till/hardpan, medium, to 6" depth	\$1.57	CY			\$ -		
Decompacting till/hardpan, medium, to 12" depth	\$1.57	CY			\$ -		
Hydroseeding	\$0.51	SY			\$ -		
Labor, general (landscaping other than plant installation)	Ø 40.00	115			¢		
	\$40.00 \$40.00	HR HR			\$ - \$ -		
Labor, general (construction)  Labor: Consultant, supervising	\$40.00 \$55.00	HR HR			\$ -		
Labor: Consultant, supervising  Labor: Consultant, on-site re-design	\$95.00	HR			\$ -		
Rental of decompacting machinery & operator	\$70.00	HR			\$ -		
Sand, coarse builder's, delivered and spread	\$42.00	CY			\$ -		
Staking material (set per tree)	\$7.00	Each			\$ -		
Surveying, line & grade	\$250.00	HR			\$ -		
Surveying, topographical	\$250.00	HR			\$ -		
Watering, 1" of water, 50' soaker hose	\$3.62	MSF			\$ -		
Irrigation - temporary Irrigation - buried	\$3,000.00 \$4,500.00	Acre Acre			\$ - \$ -		
Tilling topsoil, disk harrow, 20hp tractor, 4"-6" deep	\$4,500.00	SY			\$ -		
rg tepoon, with realiton, 2011p substor, 4 -0 ubbp	1 732	1	<u> </u>	TOTAL	<b>\$</b> 1277.69 -		
HABITAT STRUCTURES*				701112			
	Link O			<u> </u>	Cont		
ITEMS	Unit Cost	Unit		<u> </u>	Cost		
Fascines (willow)	\$ 2.00	Each			\$ -		
Logs, (cedar), w/ root wads, 16"-24" diam., 30' long Logs (cedar) w/o root wads, 16"-24" diam., 30'	\$1,000.00 \$400.00	Each Each			\$ - \$ -		
Logs (cedar) w/o root wads, 16"-24" diam., 30"  Logs, w/o root wads, 16"-24" diam., 30' long	\$400.00	Each			\$ -		
Logs w/ root wads, 16"-24" diam., 30" long	\$460.00	Each			\$ -		
Rocks, one-man	\$60.00				\$ -		
Rocks, two-man	\$120.00	Each			\$ -		
Root wads	\$163.00	Each			\$ -		
Spawning gravel, type A	\$22.00	CY			\$ -		
Weir - log	\$1,500.00	Each			\$ -		
Weir - adjustable	\$2,000.00	Each			\$ -		
Woody debris, large Snags - anchored	\$163.00 \$400.00	Each Each			\$ - \$ -		
Snags - anchored Snags - on site	\$400.00	Each			\$ -		
Snags - imported	\$800.00	Each			\$ -		
* All costs include delivery and installation				TOTAL	\$ -		
EROSION CONTROL				•			
ITEMS	Unit Cost	Unit			Cost		
Backfill and Compaction-embankment	\$ 4.89	CY			\$ -		
Crushed surfacing, 1 1/4" minus	\$30.00	CY			\$ -		
Ditching	\$7.03	CY			\$ -		
Excavation, bulk	\$4.00	CY			\$ -		
Fence, silt	\$1.60	LF	275		\$ 440.00 -		
Jute Mesh	\$1.26	SY			\$ -		
Mulch, by hand, straw, 2" deep	\$1.27 \$3.25	SY SY			\$ - \$ -		
Mulch, by hand, wood chips, 2" deep  Mulch, by machine, straw, 1" deep	\$3.25 \$0.32	SY			\$ - \$ -		
Piping, temporary, CPP, 6"	\$9.30	LF			\$ -		
Piping, temporary, CPP, 8"	\$14.00	LF			\$ -		
Piping, temporary, CPP, 12"	\$18.00	LF			\$ -		
Plastic covering, 6mm thick, sandbagged	\$2.00	SY			\$ -		
Rip Rap, machine placed, slopes	\$33.98	CY			\$ -		
Rock Constr. Entrance 100'x15'x1'	\$3,000.00	Each			\$ -		
Rock Constr. Entrance 50'x15'x1'	\$1,500.00	Each			\$ -		
Sediment pond riser assembly	\$1,695.11 \$15.57	Each			\$ -		
Sediment trap, 5' high berm Sediment trap, 5' high berm w/spillway incl. riprap	\$15.57 \$59.60	LF LF			\$ - \$ -		
Sodding, 1" deep, level ground	\$59.60 \$5.24	SY			\$ -		
Sodding, 1" deep, lever ground  Sodding, 1" deep, sloped ground	\$6.48	SY			\$ -		
Straw bales, place and remove	\$600.00	TON			\$ -		
Hauling and disposal	\$20.00	CY			\$ -		
Topsoil, delivered and spread	\$35.73	CY			\$ -		
				TOTAL	<b>\$</b> 440.00 -		
					-		

ITEMS	Unit Cost	Unit		Cost	
Fencing, chain link, 6' high	\$18.89	LF		\$	
Fencing, chain link, corner posts	\$111.17	Each		\$	
Fencing, chain link, gate	\$277.63	Each		\$	
Fencing, split rail, 3' high (2-rail)	\$10.54	LF		\$	
Fencing, temporary (NGPE)	\$1.20	LF		\$	
Signs, sensitive area boundary (inc. backing, post, install)	\$28.50	Each		\$	
			TOTA	L \$	
OTHER			(Construction Cost Subto	otal) \$	
	Percentage				
ITEMS	of				
	Construction	Unit		Cost	
Mobilization	10%	1		\$	
Contingency	30%	1		\$	
	1	<del>'</del>	TOTA	<i>L</i> \$	
INTENANCE AND MONITORING	longer moni case basis f	itoring and maintena	ermit requirements may be required to h nce terms. This will be evaluated on a c ications. Monitoring and maintance rang to 10 years.	ase-by-	
Maintenance, annual (by owner or consultant)					
Less than 1,000 sq.ft. and buffer mitigation only	\$ 1.08	SF	(3 X SF total for 3 annual e Includes monitoring)	events;	
Less than 1,000 sq.ft. with wetland or aquatic area mitigation	\$ 1.35	SF	(3 X SF total for 3 annual e Includes monitoring)	events; \$	
Intigation Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of buffer mitigation	\$ 180.00	EACH	(4hr @\$45/hr)	\$	
Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of wetland or aquatic area mitigation	\$ 270.00	EACH	(6hr @\$45/hr)	\$	
Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only	\$ 360.00	EACH	(8 hrs @ 45/hr)	\$	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquationarea mitigation	\$ 450.00	EACH	(10 hrs @ \$45/hr)	\$	
Larger than 1 acre but < 5 acres - buffer and / or wetland or aquatic area mitigation	\$ 1,600.00	DAY	(WEC crew)	\$	
Larger than 5 acres - buffer and / or wetland or aquatic area mitigation	\$ 2,000.00	DAY	(1.25 X WEC crew)	\$	
Monitoring, annual (by owner or consultant)					
Larger than 1,000 sq.ft. but less than 5,000 wetland or buffer mitigation	\$ 720.00	EACH	(8 hrs @ 90/hr)	\$	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquation area impacts	\$ 900.00	EACH	(10 hrs @ \$90/hr)	\$	
Larger than 1 acre but < 5 acres - buffer and / or wetland or aquatic area impacts	\$ 1,440.00	DAY	(16 hrs @ \$90/hr)	\$	
Larger than5 acres - buffer and / or wetland or aquatic area impacts	\$ 2,160.00	DAY	(24 hrs @ \$90/hr)	\$	
		'	TOTA	<i>L</i> \$	_