



Department of Permitting and
Environmental Review
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King County

**Critical Areas Mitigation
Bond Quantity Worksheet**

C24 09/09/2015
Is-wks-sensareaBQ.xls
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Project Name: LUNDIN RESIDENCE

Date: 06/07/2019

Prepared by: KELLY McSHANE, AIA

Project Number: MI 1811-010-4041

Project Description: NEW SFR WITH ATTACHED GARAGE

Location: 4041 WEST MERCER WAY, M. I., 98040

Applicant: KELLY McSHANE

Phone: 206.728.9500, X102

PLANT MATERIALS (includes labor cost for plant installation)

Type	Unit Price	Unit	Quantity	Description	Cost
PLANTS: Potted, 4" diameter, medium	\$5.00	Each	90.00	DADAPHNE ODORA 'AUREOMARGINATA', "WINTER DAPHNE" AND 15 EMERGENT PLANTS PER SHORELINE PLANTING PLAN, L-1	\$ 450.00
PLANTS: Container, 1 gallon, medium soil	\$11.50	Each	34.00	SEE SHORELINE PLANTING PLAN, L-1	\$ 391.00
PLANTS: Container, 2 gallon, medium soil	\$20.00	Each	17.00	'SNOW QUEEN' (Q:8) AND LARGE SHRUBS PER SHORELINE PLANTING PLAN, L-1	\$ 340.00
PLANTS: Container, 5 gallon, medium soil	\$36.00	Each	50.00	'DREAMLAND' (Q: 36) AND 'EMERALD GREEN' ARBORVITAE 'THUJA' (Q:6) AND AC, ACER CIRCANATUM 'VINE MAPLE' (Q:8) AND PLANTS PER	\$ 1,800.00
PLANTS: Seeding, by hand	\$0.50	SY			\$ -
PLANTS: Slips (willow, red-osier)	\$2.00	Each			\$ -
PLANTS: Stakes (willow)	\$2.00	Each			\$ -
PLANTS: Stakes (willow)	\$2.00	Each			\$ -
PLANTS: Flats/plugs	\$2.00	Each			\$ -
TOTAL					\$ 2,981.00

INSTALLATION COSTS (LABOR, EQUIPMENT, & OVERHEAD)

Type	Unit Price	Unit	Quantity	Description	Cost
Compost, vegetable, delivered and spread	\$37.88	CY	8.00	COMPOST TO BE SPREAD THROUGHOUT SITE	\$ 303.04
Decompacting till/hardpan, medium, to 6" depth	\$1.57	CY	7.00		\$ 10.99
Decompacting till/hardpan, medium, to 12" depth	\$1.57	CY			\$ -
Hydroseeding	\$0.51	SY	2.00		\$ 1.02
Labor, general (landscaping other than plant installation)	\$40.00	HR	80.00		\$ 3,200.00
Labor, general (construction)	\$40.00	HR	60.00		\$ 2,400.00
Labor: Consultant, supervising	\$55.00	HR	12.00		\$ 660.00
Labor: Consultant, on-site re-design	\$95.00	HR	8.00		\$ 760.00
Rental of decompacting machinery & operator	\$70.00	HR	16.00		\$ 1,120.00
Sand, coarse builder's, delivered and spread	\$42.00	CY	4.00		\$ 168.00
Staking material (set per tree)	\$7.00	Each	6.00		\$ 42.00
Surveying, line & grade	\$250.00	HR	4.00		\$ 1,000.00
Surveying, topographical	\$250.00	HR	4.00		\$ 1,000.00
Watering, 1" of water, 50' soaker hose	\$3.62	MSF	85.00		\$ 307.70
Irrigation - temporary	\$3,000.00	Acre	0.48		\$ 1,440.00
Irrigation - buried	\$4,500.00	Acre	0.16		\$ 720.00
Tilling topsoil, disk harrow, 20hp tractor, 4"-6" deep	\$1.02	SY			\$ -
TOTAL					\$ 13,132.75

HABITAT STRUCTURES*

ITEMS	Unit Cost	Unit	Quantity	Description	Cost
Fascines (willow)	\$ 2.00	Each			\$ -
Logs, (cedar), w/ root wads, 16"-24" diam., 30' long	\$1,000.00	Each			\$ -
Logs (cedar) w/o root wads, 16"-24" diam., 30'	\$400.00	Each			\$ -
Logs, w/o root wads, 16"-24" diam., 30' long	\$245.00	Each			\$ -
Logs w/ root wads, 16"-24" diam., 30' long	\$460.00	Each			\$ -
Rocks, one-man	\$60.00	Each			\$ -
Rocks, two-man	\$120.00	Each			\$ -
Root wads	\$163.00	Each			\$ -
Spawning gravel, type A	\$22.00	CY	5.50		\$ 121.00
Weir - log	\$1,500.00	Each			\$ -
Weir - adjustable	\$2,000.00	Each			\$ -
Woody debris, large	\$163.00	Each			\$ -
Snags - anchored	\$400.00	Each			\$ -
Snags - on site	\$50.00	Each			\$ -
Snags - imported	\$800.00	Each			\$ -
TOTAL					\$ 121.00

* All costs include delivery and installation

EROSION CONTROL

ITEMS	Unit Cost	Unit	Quantity	Description	Cost
Backfill and Compaction-embankment	\$ 4.89	CY	20.00		\$ 97.80
Crushed surfacing, 1 1/4" minus	\$30.00	CY			\$ -

Ditching	\$7.03	CY			\$	-
Excavation, bulk	\$4.00	CY	351.00		\$	1,404.00
Fence, silt	\$1.60	LF	545.00		\$	872.00
Jute Mesh	\$1.26	SY			\$	-
Mulch, by hand, straw, 2" deep	\$1.27	SY	12.00		\$	15.24
Mulch, by hand, wood chips, 2" deep	\$3.25	SY			\$	-
Mulch, by machine, straw, 1" deep	\$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	195.00		\$	390.00
Rip Rap, machine placed, slopes	\$33.98	CY	6.00		\$	203.88
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	Each			\$	-
Sediment trap, 5' high berm	\$15.57	LF			\$	-
Sediment trap, 5' high berm w/spillway incl. riprap	\$59.60	LF			\$	-
Sodding, 1" deep, level ground	\$5.24	SY	485.00		\$	2,541.40
Sodding, 1" deep, sloped ground	\$6.48	SY	1810.00		\$	11,728.80
Straw bales, place and remove	\$600.00	TON	2.00		\$	1,200.00
Hauling and disposal	\$20.00	CY	351.00		\$	7,020.00
Topsoil, delivered and spread	\$35.73	CY	16.00		\$	571.68
					TOTAL	\$ 26,044.80

GENERAL ITEMS

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	240.00		\$ 288.00	
Signs, sensitive area boundary (inc. backing, post, install)	\$28.50	Each			\$ -	
					TOTAL	\$ 288.00

OTHER

(Construction Cost Subtotal) **\$ 42,567.55**

ITEMS	Percentage of Construction	Unit			Cost	
Mobilization	10%	1			\$ 4,256.76	
Contingency	30%	1			\$ 12,770.27	
					TOTAL	\$ 17,027.02

MAINTENANCE AND MONITORING

NOTE: Projects with multiple permit requirements may be required to have longer monitoring and maintenance terms. This will be evaluated on a case-by-case basis for development applications. Monitoring and maintenance ranges may be assessed anywhere from 5 to 10 years.

Maintenance, annual (by owner or consultant) BY OWNER						
	Unit Cost	Unit			Cost	
Less than 1,000 sq.ft. and buffer mitigation only	\$ 1.08	SF		(3 X SF total for 3 annual events; Includes monitoring)	\$ -	
Less than 1,000 sq.ft. with wetland or aquatic area mitigation	\$ 1.35	SF		(3 X SF total for 3 annual events; Includes monitoring)	\$ -	
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	1.00	(6hr @\$45/hr)	\$ 270.00	
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 aquatic area 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) BY OWNER						
Larger than 1,000 sq.ft. but less than 5,000 wetland or buffer mitigation	\$ 720.00	EACH	1.00	(8 hrs @ 90/hr)	\$ 720.00	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic 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 than 5 acres - buffer and / or wetland or aquatic area impacts	\$ 2,160.00	DAY		(24 hrs @ \$90/hr)	\$ -	
					TOTAL	\$ 990.00

Total \$60,584.57