Department of Permitting

Environmental Review Bond (

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 Is-wks-sensareaBQ.xls Is-wks-sensareaBQ.pdf

Project Name: Wang & Yang ADU Date: ####### Prepared by: Di Zhu

Project Number: 2EH03221024 Project Description: Convert exsiting detached garage into an ADU

PLANTS: Container, 1 gallon, medium soil \$1 PLANTS: Container, 2 gallon, medium soil \$2 PLANTS: Container, 5 gallon, medium soil \$3 PLANTS: Seeding, by hand \$3 PLANTS: Slips (willow, red-osier) \$1 PLANTS: Stakes (willow) \$3 PLANTS: Stakes (willow) \$4 PLANTS: Stakes (willow) \$5 PLANTS: Stakes (willow) \$5 PLANTS: Stakes (willow) \$5 PLANTS: Flats/plugs \$5 INSTALLATION COSTS (LABOR, EQUIPMENT, Type Unit Price Compost, vegetable, delivered and spread \$3 Decompacting till/hardpan, medium, to 6" depth \$5 Decompacting till/hardpan, medium, to 12" depth \$4 Hydroseeding \$4 Labor, general (landscaping other than plant installation) \$4 Labor, general (construction) \$4 Labor. Consultant, supervising \$5 Labor. Consultant, supervising \$5 Labor. Consultant, supervising \$5 Sand, coarse builder's, delivered and spread \$4 Staking material (set per tree) \$7 Sand, coarse builder's, delivered and spread \$4 Surveying, ine & grade \$2 Surveying, ine burder \$4 Surveying, ine & grade \$2 Surveying, ine Surveying \$4 Surveying, ine & grade \$2 Surveying, ine & grade \$2 Surveying, ine & grade \$3	.000 E .500 E .000 E .000 E .500 E .000 E	Unit CY CY CY CY SY HR HR HR HR HR HR HR CY SY Unit CACCE CY	Description	TOTAL	Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
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PLANTS: Stakes (willow) \$	8 OVERHEA 8 OVERHEA 8 8 .57 57 500 600 600 600 600 600 60	ach			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
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Staking material (set per tree) Surveying, line & grade \$25	.00 E .00 .000062 N .00 A .00 A	HR HR MSF Acre SY Unit		TOTAL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
Surveying, line & grade \$25 Surveying, topographical \$25 Vatering, 1" of water, 50' soaker hose \$3,00 rigation - temporary \$3,00 rigation - buried \$4,50 Illing topsoil, disk harrow, 20hp tractor, 4"-6" deep \$ **HABITAT STRUCTURES* **TEMS Unit Cost ascines (willow) \$2 ogs, (cedar), w/ root wads, 16"-24" diam., 30' long \$1,00 ogs (cedar) w/or root wads, 16"-24" diam., 30' long \$40 ogs, w/o root wads, 16"-24" diam., 30' long \$40 ogs, w/o root wads, 16"-24" diam., 30' long \$40 ogs, w/o root wads, 16"-24" diam., 30' long \$40 ocks, one-man \$60 ocks, two-man \$12 oct wads \$16	.00 .00 .62 N .00 A .00 A	HR HR MSF Acre SY Unit		TOTAL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
Surveying, topographical \$25	.00 .62 N .00 A .00 A	HR MSF Acre Acre SY Unit		TOTAL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
Valering, 1" of water, 50' soaker hose \$.62 N .00 A .00 A	MSF Acre Acre SY Unit		TOTAL	\$ \$ \$ \$ \$	
rrigation - temporary \$3,00 rrigation - buried \$4,50 Silling topsoil, disk harrow, 20hp tractor, 4"-6" deep \$ **HABITAT STRUCTURES* TEMS Unit Cost **Gascines (willow) \$ 2 ogs, (cedar), w/ root wads, 16"-24" diam., 30" long \$1,00 ogs, (cedar), w/ root wads, 16"-24" diam., 30" long \$24 ogs, w/o root wads, 16"-24" diam., 30" long \$24 ogs w/ root wads, 16"-24" diam., 30" long \$46 Rocks, one-man \$6 Rocks, two-man \$12 Rocks, two-man \$12 Robus walds \$16 Spawning gravel, type A \$2 Weir - log \$1,50 Weir - adjustable \$2,00 Word y debris, large \$16 Snags - on site \$5 Snags - on site \$5 Snags - imported \$80 **CEROSION CONTROL TEMS Unit Cost **Sackfill and Compaction-embankment \$1 **Crushed surfacing, 1 1/4" minus \$3	.00 A	Acre Acre SY Unit		TOTAL	\$ \$ \$	
S4,50 String topsoil, disk harrow, 20hp tractor, 4"-6" deep	.00 A	Acre SY Unit		TOTAL	\$ \$ \$	
### Tilling topsoil, disk harrow, 20hp tractor, 4"-6" deep	.02	Unit Each		TOTAL	\$ \$	
### HABITAT STRUCTURES* TEMS		Unit Each		TOTAL	\$	
TEMS		ach			Cost	
Saccines (willow) \$ 2 2	1	ach		•	Cost	
ogs, (cedar), w/ root wads, 16"-24" diam., 30' long \$1,00 ogs (cedar) w/o root wads, 16"-24" diam., 30' \$40 ogs, w/o root wads, 16"-24" diam., 30' long \$24 ogs w/ root wads, 16"-24" diam., 30' long \$46 kocks, one-man \$6 kocks, two-man \$12 koot wads \$16 spawning gravel, type A \$2 Veir - adjustable \$2,00 Veir - adjustable \$2,00 Voody debris, large \$16 snags - anchored \$40 snags - on site \$5 snags - imported \$80 **CEROSION CONTROL TEMS Unit Cost **Crushed surfacing, 1 1/4" minus \$3 **Ditching \$3 **Crushed surfacing, 1 1/4" minus \$3 **Sitching \$5 **Sitching \$		ach			0001	
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opsoil, delivered and spread \$3	.30 .00 .00 .00 .00 .98 .00 E .5.11 E .57 .60 .24	SY 100. CY Each Each Each LF LF SY SY			\$ \$ \$	

Mobilization Contingency IAINTENANCE AND MONITORING Maintenance, annual (by owner or consultant) Less than 1,000 sq.ft. and buffer mitigation only Less than 1,000 sq.ft. with wetland or aquatic area mitigation Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of buffer mitigation Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of wetland or aquatic area mitigation Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation Larger than 1,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation Larger than 1 acre but < 5 acres - buffer and / or wetland or	1.08 1.35	toring and maint	enance terms applications.	(Construction Costs) (Construction Costs) (S. This will be evaluate Monitoring and maintate to the costs of	TOTAL ired to have ed on a case-by- ince ranges may annual events; g) annual events;	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,092 109 327 436
Fencing, chain link, gate Fencing, split rail, 3' high (2-rail) Fencing, temporary (NGPE) Signs, sensitive area boundary (inc. backing, post, install) OTHER ITEMS Cons Mobilization Contingency Maintenance, annual (by owner or consultant) Less than 1,000 sq.ft. and buffer mitigation only Less than 1,000 sq.ft. with wetland or aquatic area mitigation Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of wetland or aquatic area mitigation Larger than 1,000 sq.ft. but < 1 acre -buffer mitigation only Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only Larger than 1,000 sq.ft. but < 1 acre -buffer mitigation only Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only Larger than 1,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation Larger than 1 acre but < 5 acres - buffer and / or wetland or Larger than 1 acre but < 5 acres - buffer and / or wetland or	\$277.63 \$10.54 \$1.20 \$28.50 \$28.50 \$28.50 \$28.50 \$30% \$00TE: Projonger monipase basis fe e assessed \$1.08 \$1.35	Each LF LF Each Unit 1 1 acts with multiple toring and maint or development a lanywhere from the series of	enance terms applications.	irements may be requise. This will be evaluate Monitoring and mainta. (3 X SF total for 3: Includes monitoring (3 X SF total for 3:	TOTAL ired to have ed on a case-by- ince ranges may annual events; g) annual events;	\$ \$ \$ \$ \$ \$ \$ Cost \$ \$ \$ \$ \$ \$	109
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Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation \$ Larger than 1 acre but < 5 acres - buffer and / or wetland or	270.00	EACH		(6hr @\$45/hr)		\$	
area mitigation \$ Larger than 1 acre but < 5 acres - buffer and / or wetland or	360.00	EACH		(8 hrs @ 45/hr)		\$	
	450.00	EACH		(10 hrs @ \$45/hr)		\$	
	1,600.00	DAY		(WEC crew)		\$	
Larger than 5 acres - buffer and / or wetland or aquatic area mitigation \$ 2	2,000.00	DAY		(1.25 X WEC crew	<i>ı</i>)	\$	
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 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	1,440.00	DAY		(16 hrs @ \$90/hr)		\$	
Larger than5 acres - buffer and / or wetland or aquatic area impacts \$ 2	2,160.00	DAY		(24 hrs @ \$90/hr)		\$	
· I ·				1(2 420/)	TOTAL	\$	
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GENERAL ITEMS