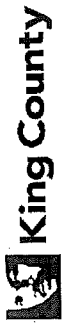


Site Improvement Bond Quantity Worksheet



Department of Permitting & Environmental Review

35030 SE Douglas Street, Suite 210
Snoqualmie, Washington 98065-9266
206-296-6600 TTY Relay 711

For alternate formats, call 206-296-6600.

Project Name: _____ Date: _____

Location: _____ Project No.: _____

Activity No.: _____

Clearing greater than or equal to 5,000 board feet of timber?
 yes _____ no _____

If yes,
 Forest Practice Permit Number: _____
 (RCW 76.09)

Note: All prices include labor, equipment, materials, overhead and profit. Prices are from RS Means data adjusted for the Seattle area or from local sources if not included in the RS Means database.

Site Improvement Bond Quantity Worksheet

EROSION/SEDIMENT CONTROL	Number	Reference #	Unit Price	Unit	Quantity	# of Applications	Cost
Backfill & compaction-embankment	ESC-1		\$ 6.00	CY			
Check dams, 4" minus rock	ESC-2	SWDM 5.4.6.3	\$ 80.00	Each			
Crushed surfacing 1 1/4" minus	ESC-3	WSDOT 9-03.9(3)	\$ 95.00	CY			
Ditching	ESC-4		\$ 9.00	CY			
Excavation-bulk	ESC-5		\$ 2.00	CY			
Fence, silt	ESC-6	SWDM 5.4.3.1	\$ 1.50	LF			
Fence, Temporary (NGPE)	ESC-7		\$ 1.50	LF			
Hydroseeding	ESC-8	SWDM 5.4.2.4	\$ 0.80	SY			
Jute Mesh	ESC-9	SWDM 5.4.2.2	\$ 3.50	SY			
Mulch, by hand, straw, 3" deep	ESC-10	SWDM 5.4.2.1	\$ 2.50	SY			
Mulch, by machine, straw, 2" deep	ESC-11	SWDM 5.4.2.1	\$ 2.00	SY			
Piping, temporary, CPP, 6"	ESC-12		\$ 12.00	LF			
Piping, temporary, CPP, 8"	ESC-13		\$ 14.00	LF			
Piping, temporary, CPP, 12"	ESC-14		\$ 18.00	LF			
Plastic covering, 6mm thick, sandbagged	ESC-15	SWDM 5.4.2.3	\$ 4.00	SY			
Rip Rap, machine placed; slopes	ESC-16	WSDOT 9-13.1(2)	\$ 45.00	CY			
Rock Construction Entrance, 50"x15"x1'	ESC-17	SWDM 5.4.4.1	\$ 1,800.00	Each			
Rock Construction Entrance, 100"x15"x1'	ESC-18	SWDM 5.4.4.1	\$ 3,200.00	Each			
Sediment pond riser assembly	ESC-19	SWDM 5.4.5.2	\$ 2,200.00	Each			
Sediment trap, 5' high berm	ESC-20	SWDM 5.4.5.1	\$ 19.00	LF			
Sed. trap, 5' high, ripped spillway berm section	ESC-21	SWDM 5.4.5.1	\$ 70.00	LF			
Seeding, by hand	ESC-22	SWDM 5.4.2.4	\$ 1.00	SY			
Sodding, 1" deep, level ground	ESC-23	SWDM 5.4.2.5	\$ 8.00	SY			
Sodding, 1" deep, sloped ground	ESC-24	SWDM 5.4.2.5	\$ 10.00	SY			
TESC Supervisor	ESC-25		\$ 110.00	HR			
Water truck, dust control	ESC-26	SWDM 5.4.7	\$ 140.00	HR			
WRITE-IN-ITEMS **** (see page 9)							
				Each			

ESC SUBTOTAL: \$ -
 30% CONTINGENCY & MOBILIZATION: \$ -
 ESC TOTAL: \$ -
 COLUMN: A

Site Improvement Bond Quantity Worksheet

GENERAL ITEMS	No.	Existing Right-of-Way		Future Public Right of Way & Drainage Facilities		Private Improvements	
		Unit Price	Unit	Quant.	Cost	Quant.	Cost
Backfill & Compaction- embankment	GI-1	\$ 6.00	CY				
Backfill & Compaction- trench	GI-2	\$ 9.00	CY				
Clear/Remove Brush, by hand	GI-3	\$ 1.00	SY				
Clearing/Grubbing/Tree Removal	GI-4	\$10,000.00	Acre				
Excavation - bulk	GI-5	\$ 2.00	CY				
Excavation - Trench	GI-6	\$ 5.00	CY				
Fencing, cedar, 6' high	GI-7	\$ 20.00	LF				
Fencing, chain link, vinyl coated, 6' high	GI-8	\$ 20.00	LF				
Fencing, chain link, gate, vinyl coated, 20	GI-9	\$ 1,400.00	Each				
Fencing, split rail, 3' high	GI-10	\$ 15.00	LF				
Fill & compact - common borrow	GI-11	\$ 25.00	CY				
Fill & compact - gravel base	GI-12	\$ 27.00	CY				
Fill & compact - screened topsoil	GI-13	\$ 39.00	CY				
Gabion, 12" deep, stone filled mesh	GI-14	\$ 65.00	SY				
Gabion, 18" deep, stone filled mesh	GI-15	\$ 90.00	SY				
Gabion, 36" deep, stone filled mesh	GI-16	\$ 150.00	SY				
Grading, fine, by hand	GI-17	\$ 2.50	SY				
Grading, fine, with grader	GI-18	\$ 2.00	SY				
Monuments, 3' long	GI-19	\$ 250.00	Each				
Sensitive Areas Sign	GI-20	\$ 7.00	Each				
Sodding, 1" deep, sloped ground	GI-21	\$ 8.00	SY				
Surveying, line & grade	GI-22	\$ 850.00	Day				
Surveying, lot location/lines	GI-23	\$ 1,800.00	Acre				
Traffic control crew (2 flaggers)	GI-24	\$ 120.00	HR				
Trail, 4" chipped wood	GI-25	\$ 8.00	SY				
Trail, 4" crushed cinder	GI-26	\$ 9.00	SY				
Trail, 4" top course	GI-27	\$ 12.00	SY				
Wall, retaining, concrete	GI-28	\$ 55.00	SF				
Wall, rockery	GI-29	\$ 15.00	SF				
			SUBTOTAL				

*KCC 27A authorizes only one bond reduction.
Bond Quantities Worksheet 2015 (4).xlsx

Site Improvement Bond Quantity Worksheet

	Unit Price	Unit	Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements	
			Quant.	Cost	Quant.	Cost	Quant.	Cost
<u>ROAD IMPROVEMENT</u>								
AC Grinding, 4' wide machine < 1000sy	\$ 30.00	SY						
AC Grinding, 4' wide machine 1000-2000sy	\$ 16.00	SY						
AC Grinding, 4' wide machine > 2000sy	\$ 10.00	SY						
AC Removal/Disposal	\$ 35.00	SY						
Barricade, type III (Permanent)	\$ 56.00	LF						
Curb & Gutter, rolled	\$ 17.00	LF						
Curb & Gutter, vertical	\$ 12.50	LF						
Curb and Gutter, demolition and disposal	\$ 18.00	LF						
Curb, extruded asphalt	\$ 5.50	LF						
Curb, extruded concrete	\$ 7.00	LF						
Sawcut, asphalt, 3" depth	\$ 1.85	LF						
Sawcut, concrete, per 1" depth	\$ 3.00	LF						
Sealant, asphalt	\$ 2.00	LF						
Shoulder, AC, (see AC road unit price)	\$ -	SY						
Shoulder, gravel, 4" thick	\$ 15.00	SY						
Sidewalk, 4" thick	\$ 38.00	SY						
Sidewalk, 4" thick, demolition and disposa	\$ 32.00	SY						
Sidewalk, 5" thick	\$ 41.00	SY						
Sidewalk, 5" thick, demolition and disposa	\$ 40.00	SY						
Sign, handicap	\$ 85.00	Each						
Striping, per stall	\$ 7.00	Each						
Striping, thermoplastic, (for crosswalk)	\$ 3.00	SF						
Striping, 4" reflectorized line	\$ 0.50	LF						
			SUBTOTAL					

Site Improvement Bond Quantity Worksheet

Web date: 04/03/2015

	Unit Price	Unit	Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements	
			Quant.	Cost	Quant.	Cost	Quant.	Cost
ROAD SURFACING								
Additional 2.5' Crushed Surfacing	RS - 1 \$ 3.60	SY						
HMA 1/2" Overlay, 1.5"	RS - 2 \$ 14.00	SY						
HMA 1/2" Overlay 2"	RS - 3 \$ 18.00	SY						
HMA Road, 2", 4" rock, First 2500 SY	RS - 4 \$ 28.00	SY						
HMA Road, 2", 4" rock, Qty. over 2500 SY	RS - 5 \$ 21.00	SY						
HMA Road, 3", 9 1/2" Rock, First 2500 SY	RS - 6 \$ 42.00	SY						
HMA Road, 3", 9 1/2" Rock, Qty Over 2500	RS - 7 \$ 35.00	SY						
Not Used	RS - 8							
Not Used	RS - 9							
HMA Road, 6" Depth, First 2500 SY	RS - 10 \$ 33.10	SY						
HMA Road, 6" Depth, Qty. Over 2500 SY	RS - 11 \$ 30.00	SY						
HMA 3/4" or 1", 4" Depth	RS - 12 \$ 20.00	SY						
Gravel Road, 4" rock, First 2500 SY	RS - 13 \$ 15.00	SY						
Gravel Road, 4" rock, Qty. over 2500 SY	RS - 14 \$ 10.00	SY						
PCC Road (Add Under Write-Ins w/Design Thickened Edge	RS - 15							
	RS - 17 \$ 8.60	LF						
			(4" Rock = 2.5 base & 1.5" top course)			9 1/2" Rock= 8" base & 1.5" top course)		
SUBTOTAL								

Site Improvement Bond Quantity Worksheet

Web date: 04/03/2015

	Unit Price		Unit	Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements	
				Quant.	Cost	Quant.	Cost	Quant.	Cost
DRAINAGE (CPP = Corrugated Plastic Pipe, N12 or Equivalent) For Culvert prices, Average of 4' cover was assumed. Assume perforated PVC is same price as solid pipe.									
Access Road, R/D	D - 1	\$ 21.00	SY						
Bollards - fixed	D - 2	\$ 240.74	Each						
Bollards - removable	D - 3	\$ 452.34	Each						
* (CBs include frame and lid)									
CB Type I	D - 4	\$ 1,500.00	Each						
CB Type II	D - 5	\$ 1,750.00	Each						
CB Type II, 48" diameter	D - 6	\$ 2,300.00	Each						
for additional depth over 4'	D - 7	\$ 480.00	FT						
CB Type II, 54" diameter	D - 8	\$ 2,500.00	Each						
for additional depth over 4'	D - 9	\$ 495.00	FT						
CB Type II, 60" diameter	D - 10	\$ 2,800.00	Each						
for additional depth over 4'	D - 11	\$ 600.00	FT						
CB Type II, 72" diameter	D - 12	\$ 3,600.00	Each						
for additional depth over 4'	D - 13	\$ 850.00	FT						
Through-curb Inlet Framework (Add)	D - 14	\$ 400.00	Each						
Cleanout, PVC, 4"	D - 15	\$ 150.00	Each						
Cleanout, PVC, 6"	D - 16	\$ 170.00	Each						
Cleanout, PVC, 8"	D - 17	\$ 200.00	Each						
Culvert, PVC, 4"	D - 18	\$ 10.00	LF						
Culvert, PVC, 6"	D - 19	\$ 13.00	LF						
Culvert, PVC, 8"	D - 20	\$ 15.00	LF						
Culvert, PVC, 12"	D - 21	\$ 23.00	LF						
Culvert, CMP, 8"	D - 22	\$ 19.00	LF						
Culvert, CMP, 12"	D - 23	\$ 29.00	LF						
Culvert, CMP, 15"	D - 24	\$ 35.00	LF						
Culvert, CMP, 18"	D - 25	\$ 41.00	LF						
Culvert, CMP, 24"	D - 26	\$ 56.00	LF						
Culvert, CMP, 30"	D - 27	\$ 78.00	LF						
Culvert, CMP, 36"	D - 28	\$ 130.00	LF						
Culvert, CMP, 48"	D - 29	\$ 190.00	LF						
Culvert, CMP, 60"	D - 30	\$ 270.00	LF						
Culvert, CMP, 72"	D - 31	\$ 350.00	LF						
				SUBTOTAL					

Page 6 of 9

*KCC 27A authorizes only one bond reduction.
Bond Quantities Worksheet 2015 (4).xlsx

Site Improvement Bond Quantity Worksheet

DRAINAGE CONTINUED	No.	Unit Price	Unit	Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements	
				Quant.	Cost	Quant.	Cost	Quant.	Cost
Culvert, Concrete, 8"	D - 32	\$ 25.00	LF						
Culvert, Concrete, 12"	D - 33	\$ 36.00	LF						
Culvert, Concrete, 15"	D - 34	\$ 42.00	LF						
Culvert, Concrete, 18"	D - 35	\$ 48.00	LF						
Culvert, Concrete, 24"	D - 36	\$ 78.00	LF						
Culvert, Concrete, 30"	D - 37	\$ 125.00	LF						
Culvert, Concrete, 36"	D - 38	\$ 150.00	LF						
Culvert, Concrete, 42"	D - 39	\$ 175.00	LF						
Culvert, Concrete, 48"	D - 40	\$ 205.00	LF						
Culvert, CPP, 6"	D - 41	\$ 14.00	LF						
Culvert, CPP, 8"	D - 42	\$ 16.00	LF						
Culvert, CPP, 12"	D - 43	\$ 24.00	LF						
Culvert, CPP, 15"	D - 44	\$ 35.00	LF						
Culvert, CPP, 18"	D - 45	\$ 41.00	LF						
Culvert, CPP, 24"	D - 46	\$ 56.00	LF						
Culvert, CPP, 30"	D - 47	\$ 78.00	LF						
Culvert, CPP, 36"	D - 48	\$ 130.00	LF						
Ditching	D - 49	\$ 9.50	CY						
Flow Dispersal Trench (1,436 base+)	D - 50	\$ 28.00	LF						
French Drain (3' depth)	D - 51	\$ 26.00	LF						
Geotextile, laid in trench, polypropylene	D - 52	\$ 3.00	SY						
Mid-tank Access Riser, 48" dia, 6' deep	D - 54	\$ 2,000.00	Each						
Pond Overflow Spillway	D - 55	\$ 16.00	SY						
Restrictor/Oil Separator, 12"	D - 56	\$ 1,150.00	Each						
Restrictor/Oil Separator, 15"	D - 57	\$ 1,350.00	Each						
Restrictor/Oil Separator, 18"	D - 58	\$ 1,700.00	Each						
Riprap, placed	D - 59	\$ 42.00	CY						
Tank End Reducer (36" diameter)	D - 60	\$ 1,200.00	Each						
Trash Rack, 12"	D - 61	\$ 350.00	Each						
Trash Rack, 15"	D - 62	\$ 410.00	Each						
Trash Rack, 18"	D - 63	\$ 480.00	Each						
Trash Rack, 21"	D - 64	\$ 550.00	Each						

Page 7 of 9

SUBTOTAL

Site Improvement Bond Quantity Worksheet

Item Description	Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements																																				
	Unit Price	Unit	Quant.	Price	Quant.	Cost	Cost																																		
PARKING LOT SURFACING																																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">No.</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>2" AC, 2" top course rock & 4" borrow</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">21.00</td> <td style="text-align: center;">SY</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td></td> </tr> <tr> <td>2" AC, 1.5" top course & 2.5" base cours</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">28.00</td> <td style="text-align: center;">SY</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td></td> </tr> <tr> <td>4" select borrow</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">5.00</td> <td style="text-align: center;">SY</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td></td> </tr> <tr> <td>1.5" top course rock & 2.5" base course</td> <td style="text-align: center;">\$</td> <td style="text-align: center;">14.00</td> <td style="text-align: center;">SY</td> <td style="text-align: center;">NA</td> <td style="text-align: center;">NA</td> <td></td> </tr> </table>							No.							2" AC, 2" top course rock & 4" borrow	\$	21.00	SY	NA	NA		2" AC, 1.5" top course & 2.5" base cours	\$	28.00	SY	NA	NA		4" select borrow	\$	5.00	SY	NA	NA		1.5" top course rock & 2.5" base course	\$	14.00	SY	NA	NA	
No.																																									
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UTILITY POLES & STREET LIGHTING																																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="7" style="text-align: center;">Utility pole relocation costs must be accompanied by Franchise Utility's Cost Estimate</td> </tr> <tr> <td>Utility Pole(s) Relocation</td> <td style="text-align: center;">UP-1</td> <td style="text-align: center;">Lump Sum</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Street Light Poles w/Luminaires</td> <td style="text-align: center;">UP-2</td> <td style="text-align: center;">\$ 7,500.00</td> <td style="text-align: center;">Each</td> <td></td> <td></td> <td></td> </tr> </table>							Utility pole relocation costs must be accompanied by Franchise Utility's Cost Estimate							Utility Pole(s) Relocation	UP-1	Lump Sum					Street Light Poles w/Luminaires	UP-2	\$ 7,500.00	Each																	
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Utility Pole(s) Relocation	UP-1	Lump Sum																																							
Street Light Poles w/Luminaires	UP-2	\$ 7,500.00	Each																																						
WRITE-IN-ITEMS																																									
(Such as detention/water quality vaults.)																																									
Stormwater Vault	WI - 1	#####	Each																																						
Block Wall	WI - 2	\$ 16.00	SY																																						
Yard Drain	WI - 3	\$ 225.00	CY																																						
	WI - 4		LF																																						
	WI - 5		FT																																						
	WI - 6																																								
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	WI - 10																																								

Not To Be Used For Roads Or Shoulders

SUBTOTAL
SUBTOTAL (SUM ALL PAGES):
30% CONTINGENCY & MOBILIZATION:
GRANDTOTAL:
 COLUMN: B C D

*KCC 27A authorizes only one bond reduction.
Bond Quantities Worksheet 2015 (4).xlsx

Site Improvement Bond Quantity Worksheet

Web date: 04/03/2015

Original bond computations prepared by:

Name: _____ Date: _____
 PE Registration Number: _____ Tel. #: _____
 Firm Name: _____ Project No: _____
 Address: _____

FINANCIAL GUARANTEE REQUIREMENTS

	PERFORMANCE BOND* AMOUNT	MINIMUM BOND* AMOUNT REQUIRED FOR RECORDING OR TEMPORARY OCCUPANCY AT SUBSTANTIAL COMPLETION ***	PUBLIC ROAD & DRAINAGE MAINTENANCE/DEFECT BOND*
Stabilization/Erosion Sediment Control (ESC)	(A) \$ -		
Existing Right-of-Way Improvements	(B) \$ -		
Future Public Right of Way & Drainage Facilities	(C) \$ -		
Private Improvements	(D) \$ -		
Calculated Quantity Completed			
Total Right-of Way and/or Site Restoration Bond*/** <small>(First \$7,500 of bond* shall be cash.)</small>	(A+B) \$ -		
Performance Bond* Amount (A+B+C+D) = TOTAL	(T) \$ -	T x 0.30 \$ -	(B+C) x 0.25 = \$ -
Maintenance/Defect Bond* Total		Minimum is \$2000.	Minimum is \$2000.

NAME OF PERSON PREPARING BOND* REDUCTION: _____ Date: _____

* NOTE: The word "bond" as used in this document means a financial guarantee acceptable to King County.
 ** NOTE: KCC 27A authorizes right of way and site restoration bonds to be combined when both are required. The restoration requirement shall include the total cost for all TESC as a minimum, not a maximum. In addition, corrective work, both on- and off-site needs to be included. Quantities shall reflect worst case scenarios not just minimum requirements. For example, if a salmonid stream may be damaged, some estimated costs for restoration needs to be reflected in this amount. The 30% contingency and mobilization costs are computed in this quantity.
 *** NOTE: Per KCC 27A, total bond amounts remaining after reduction shall not be less than 30% of the original amount (T) or as revised by major design changes.

REQUIRED BOND* AMOUNTS ARE SUBJECT TO REVIEW AND MODIFICATION BY KING COUNTY