

Site Improvement Bond Quantity Worksheet

Web date: 04/03/2015

Original bond computations prepared by:

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Date: 6/13/2019
 Tel. #: 2067089933
 Project No: _____

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) \$ <u>208.0</u>		
Existing Right-of-Way Improvements	(B) \$ <u>-</u>		
Future Public Right of Way & Drainage Facilities	(C) \$ <u>-</u>		
Private Improvements	(D) \$ <u>7,231.3</u>		
Calculated Quantity Completed			
Total Right-of Way and/or Site Restoration Bond**/** <small>(First \$7,500 of bond* shall be cash.)</small>	(A+B) \$ <u>208.0</u>		
Performance Bond* Amount (A+B+C+D) = TOTAL	(T) \$ <u>7,439.3</u> <small>Minimum is \$2000.</small>	T x 0.30 \$ <u>2,231.8</u> <small>Minimum is \$2000.</small>	
Maintenance/Defect Bond* Total			(B+C) x 0.25 = \$ <u>-</u> <small>Minimum is \$2000.</small>

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 worse 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

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	Reference #	Unit Price	Unit	Quantity	# of Applications	Cost
EROSION/SEDIMENT CONTROL						
	Number					
Backfill & compaction-embankment	ESC-1	\$ 6.00	CY	1	1	6
Check dams, 4" minus rock	ESC-2	SWDM 5.4.6.3	Each			
Crushed surfacing 1 1/4" minus	ESC-3	WSDOT 9-03.9(3)	CY	1	1	95
Ditching	ESC-4		CY	1	1	9
Excavation-bulk	ESC-5	\$ 2.00	CY			
Fence, silt	ESC-6	SWDM 5.4.3.1	LF	50	1	50
Fence, Temporary (NGPE)	ESC-7	\$ 1.50	LF			
Hydroseeding	ESC-8	SWDM 5.4.2.4	SY			
Jute Mesh	ESC-9	SWDM 5.4.2.2	SY			
Mulch, by hand, straw, 3" deep	ESC-10	SWDM 5.4.2.1	SY			
Mulch, by machine, straw, 2" deep	ESC-11	SWDM 5.4.2.1	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	SY			
Rip Rap, machine placed; slopes	ESC-16	WSDOT 9-13.1(2)	CY			
Rock Construction Entrance, 50'x15'x1'	ESC-17	SWDM 5.4.4.1	Each			
Rock Construction Entrance, 100'x15'x1'	ESC-18	SWDM 5.4.4.1	Each			
Sediment pond riser assembly	ESC-19	SWDM 5.4.5.2	Each			
Sediment trap, 5' high berm	ESC-20	SWDM 5.4.5.1	LF			
Sed. trap, 5' high, riprapped spillway berm section	ESC-21	SWDM 5.4.5.1	LF			
Seeding, by hand	ESC-22	SWDM 5.4.2.4	SY			
Sodding, 1" deep, level ground	ESC-23	SWDM 5.4.2.5	SY			
Sodding, 1" deep, sloped ground	ESC-24	SWDM 5.4.2.5	SY			
TESC Supervisor	ESC-25	\$ 110.00	HR			
Water truck, dust control	ESC-26	SWDM 5.4.7	HR			
WRITE-IN-ITEMS **** (see page 9)						
			Each			

ESC SUBTOTAL:	\$ 160.00
30% CONTINGENCY & MOBILIZATION:	\$ 48.00
ESC TOTAL:	\$ 208.00
COLUMN:	A

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				Existing Right-of-Way		Future Public Right of Way & Drainage Facilities		Private Improvements	
		Unit Price	Unit	Quant.	Cost	Quant.	Cost	Quant.	Cost
GENERAL ITEMS		No.							
Backfill & Compaction- embankment	GI - 1	\$ 6.00	CY					1	6.00
Backfill & Compaction- trench	GI - 2	\$ 9.00	CY					1	9.00
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					1	5.00
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 barrow	GI - 11	\$ 25.00	CY						
Fill & compact - gravel base	GI - 12	\$ 27.00	CY					1	27.00
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					100	5,500.00
Wall, rockery	GI - 29	\$ 15.00	SF						
		SUBTOTAL						5,547.00	

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				Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements		
		Unit Price	Unit	Quant.	Cost	Quant.	Cost	Quant.	Cost	
ROAD IMPROVEMENT										
	No.									
AC Grinding, 4' wide machine < 1000sy	RI - 1	\$ 30.00	SY							
AC Grinding, 4' wide machine 1000-2000sy	RI - 2	\$ 16.00	SY							
AC Grinding, 4' wide machine > 2000sy	RI - 3	\$ 10.00	SY							
AC Removal/Disposal	RI - 4	\$ 35.00	SY							
Barricade, type III (Permanent)	RI - 6	\$ 56.00	LF							
Curb & Gutter, rolled	RI - 7	\$ 17.00	LF							
Curb & Gutter, vertical	RI - 8	\$ 12.50	LF							
Curb and Gutter, demolition and disposal	RI - 9	\$ 18.00	LF							
Curb, extruded asphalt	RI - 10	\$ 5.50	LF							
Curb, extruded concrete	RI - 11	\$ 7.00	LF							
Sawcut, asphalt, 3" depth	RI - 12	\$ 1.85	LF							
Sawcut, concrete, per 1" depth	RI - 13	\$ 3.00	LF							
Sealant, asphalt	RI - 14	\$ 2.00	LF							
Shoulder, AC, (see AC road unit price)	RI - 15	\$ -	SY							
Shoulder, gravel, 4" thick	RI - 16	\$ 15.00	SY							
Sidewalk, 4" thick	RI - 17	\$ 38.00	SY							
Sidewalk, 4" thick, demolition and disposal	RI - 18	\$ 32.00	SY							
Sidewalk, 5" thick	RI - 19	\$ 41.00	SY							
Sidewalk, 5" thick, demolition and disposal	RI - 20	\$ 40.00	SY							
Sign, handicap	RI - 21	\$ 85.00	Each							
Striping, per stall	RI - 22	\$ 7.00	Each							
Striping, thermoplastic, (for crosswalk)	RI - 23	\$ 3.00	SF							
Striping, 4" reflectorized line	RI - 24	\$ 0.50	LF							

SUBTOTAL

Site Improvement Bond Quantity Worksheet

				Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements					
		Unit Price	Unit	Quant.	Cost	Quant.	Cost	Quant.	Cost				
ROAD SURFACING		No.		(4" Rock = 2.5 base & 1.5" top course) 9 1/2" Rock= 8" base & 1.5" top course)									
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	RS - 15												
Thickened Edge	RS - 17	\$ 8.60	LF										

SUBTOTAL

*KCC 27A authorizes only one bond reduction.
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		Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements			
		Unit Price	Unit	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						

*KCC 27A authorizes only one bond reduction.
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SUBTOTAL _____

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<u>DRAINAGE CONTINUED</u>					Existing Right-of-way		Future Public Right of Way & Drainage Facilities		Private Improvements	
	No.	Unit Price	Unit	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					1	9.5	
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					2	6	
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							

Site Improvement Bond Quantity Worksheet

		Existing Right-of-way			Future Public Right of Way & Drainage Facilities			Private Improvements	
		Unit Price	Unit	Quant.	Price	Quant.	Cost	Quant.	Cost
PARKING LOT SURFACING Not To Be Used For Roads Or Shoulders									
	<u>No.</u>								
2" AC, 2" top course rock & 4" borrow	PL - 1	\$ 21.00	SY	NA		NA			
2" AC, 1.5" top course & 2.5" base course	PL - 2	\$ 28.00	SY	NA		NA			
4" select borrow	PL - 3	\$ 5.00	SY	NA		NA			
1.5" top course rock & 2.5" base course	PL - 4	\$ 14.00	SY	NA		NA			
UTILITY POLES & STREET LIGHTING 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						
WRITE-IN-ITEMS									
(Such as detention/water quality vaults.)	<u>No.</u>								
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								
	WI - 7								
	WI - 8								
	WI - 9								
	WI - 10								

SUBTOTAL			
SUBTOTAL (SUM ALL PAGES):			5,562.50
30% CONTINGENCY & MOBILIZATION:			1,668.75
GRANDTOTAL:			7,231.25
COLUMN:	B	C	D