

**Planning-level Construction Cost Estimate
CIP 01-BL3**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,000	\$1,000
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$2,000	\$2,000
3	1	LS	Utilities Locate and Protection	1-07.17	\$800	\$800
4	1	LS	Mobilization (10.0%)	1-09.7	\$1,000	\$1,000
5	16	HR	Temporary Traffic Control	1-10.5	\$50	\$800
Subtotal Division 1						\$5,600
Division 2 - Earthwork						
6	205	LF	Rock-lined Channel	2-03.5	\$85	\$17,425
Division 5 - Surface Treatments and Pavements						
7	1	LS	AC Berm	5-04.5	\$1,500	\$1,500
Subtotal Estimated Construction Cost						\$24,525
Construction Contingency 40.0%						\$9,810
Total Estimated Construction Cost (May 2006)						\$34,335
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$41,202
Washington State Sales Tax 8.0%						\$3,296
Engineering, Legal, Administration, Construction Management Services 30.0%						\$12,361
ESTIMATED IMPLEMENTATION COST						\$56,859

Notes:

(1) Rock-lined channel cost based on 2-foot deep triangular section with 2:1 sideslopes lined with a 1-foot lift of rock

**Planning-level Construction Cost Estimate
CIP 02-BL6**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,000	\$1,000
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$2,000	\$1,500
3	1	LS	Utilities Locate and Protection	1-07.17	\$800	\$800
4	1	LS	Mobilization (10.0%)	1-09.7	\$3,000	\$3,000
Subtotal Division 1						\$6,300
Division 2 - Earthwork						
5	1	LS	Removal of Structures and Obstructions	2-02.5	\$3,000	\$3,000
Division 7 - Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits						
6	320	LF	Storm Drain, 18" Diam.	7-04.5	\$72	\$23,040
7	2	EA	Catch Basin Type I	7-05.5	\$3,000	\$6,000
Subtotal Division 7						\$29,040
Division 8 - Miscellaneous Construction						
8	360	SY	Landscape Repair	8-02.5	\$2	\$720
Subtotal Estimated Construction Cost						\$39,060
Construction Contingency 40.0%						\$15,624
Total Estimated Construction Cost (May 2006)						\$54,684
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$65,621
Washington State Sales Tax 8.0%						\$5,250
Engineering, Legal, Administration, Construction Management Services 30.0%						\$19,686
ESTIMATED IMPLEMENTATION COST						\$90,557

Notes:

(1) Storm drain cost based on \$4 per inch diameter

**Planning-level Construction Cost Estimate
CIP 03-BL25**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,000	\$1,000
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$1,500	\$1,500
3	1	LS	Utilities Locate and Protection	1-07.17	\$1,000	\$1,000
4	1	LS	Mobilization (10.0%)	1-09.7	\$1,000	\$1,000
5	64	HR	Temporary Traffic Control	1-10.5	\$50	\$3,200
Subtotal Division 1						\$7,700
Division 2 - Earthwork						
6	1	LS	Removal of Structures and Obstructions	2-02.5	\$1,500	\$1,500
7	1	EA	Outfall Rock Pad	2-03.5	\$2,500	\$2,500
Subtotal Division 2						\$4,000
Division 5 - Surface Treatments and Pavements						
8	450	SF	Pavement Repair	5-04.5	\$6	\$2,700
Division 7 - Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits						
9	55	LF	Storm Drain, 18" Diam.	7-04.5	\$72	\$3,960
10	40	LF	Storm Drain, 24" Diam.	7-04.5	\$96	\$3,840
Subtotal Division 7						\$7,800
Subtotal Estimated Construction Cost						\$22,200
Construction Contingency 40.0%						\$8,880
Total Estimated Construction Cost (May 2006)						\$31,080
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$37,296
Washington State Sales Tax 8.0%						\$2,984
Engineering, Legal, Administration, Construction Management Services 30.0%						\$11,189
ESTIMATED IMPLEMENTATION COST						\$51,468

Notes:

- (1) Outfall rock pad cost based on an 8-foot wide by 25-foot long area lined with a 2-foot lift of rock
- (2) Storm drain cost based on \$4 per inch diameter

**Planning-level Construction Cost Estimate
CIP 04-BL27**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,000	\$1,000
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$1,500	\$1,500
3	1	LS	Utilities Locate and Protection	1-07.17	\$800	\$800
4	1	LS	Mobilization (10.0%)	1-09.7	\$8,000	\$8,000
Subtotal Division 1						\$11,300
Division 2 - Earthwork						
5	235	LF	Rock-lined Channel	2-03.5	\$85	\$19,975
Division 7 - Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits						
6	150	LF	Interceptor Drain, 12" Width	7-01.5	\$100	\$15,000
7	210	LF	Storm Drain, 12" Diam.	7-04.5	\$48	\$10,080
8	45	LF	Storm Drain, 24" Diam.	7-04.5	\$96	\$4,320
9	4	EA	Catch Basin Type I	7-05.5	\$3,000	\$12,000
10	2	EA	Catch Basin Type II	7-05.5	\$6,000	\$12,000
11	1	EA	Catch Basin Type II (extra deep)	7-05.5	\$10,000	\$10,000
Subtotal Division 7						\$63,400
Division 8 - Miscellaneous Construction						
12	340	SY	Landscape Repair	8-02.5	\$2	\$680
Subtotal Estimated Construction Cost						\$95,355
Construction Contingency 40.0%						\$38,142
Total Estimated Construction Cost (May 2006)						\$133,497
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$160,196
Washington State Sales Tax 8.0%						\$12,816
Engineering, Legal, Administration, Construction Management Services 30.0%						\$48,059
ESTIMATED IMPLEMENTATION COST						\$221,071

Notes:

- (1) Rock-lined channel cost based on 2-foot deep triangular section with 2:1 sideslopes lined with a 1-foot lift of rock
- (2) Interceptor Drain cost based on a 12-inch wide surface drain and a 12-inch diameter underdrain.
- (3) Storm drain cost based on \$4 per inch diameter

**Planning-level Construction Cost Estimate
CIP 05-BL28**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,500	\$1,500
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$2,500	\$3,000
3	1	LS	Utilities Locate and Protection	1-07.17	\$2,500	\$2,400
4	1	LS	Mobilization (10.0%)	1-09.7	\$13,000	\$13,000
5	32	HR	Temporary Traffic Control	1-10.5	\$50	\$1,600
Subtotal Division 1						\$21,500
Division 2 - Earthwork						
6	1	LS	Removal of Structures and Obstructions	2-02.5	\$4,500	\$4,500
7	1	EA	Outfall Rock Pad	2-03.5	\$2,500	\$2,500
Subtotal Division 2						\$7,000
Division 5 - Surface Treatments and Pavements						
8	1,125	SF	Pavement Repair	5-04.5	\$6	\$6,750
Division 7 - Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits						
9	175	LF	Interceptor Drain, 12" Width	7-01.5	\$100	\$17,500
10	270	LF	Storm Drain, 18" Diam.	7-04.5	\$72	\$19,440
11	440	LF	Storm Drain, 24" Diam.	7-04.5	\$96	\$42,240
12	6	EA	Catch Basin Type I	7-05.5	\$3,000	\$18,000
13	4	EA	Catch Basin Type II	7-05.5	\$6,000	\$24,000
Subtotal Division 7						\$121,180
Division 8 - Miscellaneous Construction						
14	540	SY	Landscape Repair	8-02.5	\$2	\$1,080
Subtotal Estimated Construction Cost						\$157,510
Construction Contingency 40.0%						\$63,004
Total Estimated Construction Cost (May 2006)						\$220,514
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$264,617
Washington State Sales Tax 8.0%						\$21,169
Engineering, Legal, Administration, Construction Management Services 30.0%						\$79,385
ESTIMATED IMPLEMENTATION COST						\$365,171

Notes:

- (1) Outfall rock pad cost based on an 8-foot wide by 25-foot long area lined with a 2-foot lift of rock
- (2) Interceptor Drain cost based on a 12-inch wide surface drain and a 12-inch diameter underdrain.
- (3) Storm drain cost based on \$4 per inch diameter

**Planning-level Construction Cost Estimate
CIP 06-BL31**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,500	\$1,500
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$2,500	\$2,500
3	1	LS	Utilities Locate and Protection	1-07.17	\$1,500	\$1,500
4	1	LS	Mobilization (10.0%)	1-09.7	\$12,000	\$12,000
5	64	HR	Temporary Traffic Control	1-10.5	\$50	\$3,200
Subtotal Division 1						\$20,700
Division 2 - Earthwork						
6	1	LS	Removal of Structures and Obstructions	2-02.5	\$2,000	\$2,000
7	140	LF	Rock-lined Channel	2-03.5	\$85	\$11,900
Subtotal Division 2						\$13,900
Division 5 - Surface Treatments and Pavements						
9	775	SF	Pavement Repair	5-04.5	\$6	\$4,650
Division 7 - Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits						
10	205	LF	Interceptor Drain, 12" Width	7-01.5	\$100	\$20,500
11	25	LF	Storm Drain, 12" Diam.	7-04.5	\$48	\$1,200
12	540	LF	Storm Drain, 24" Diam.	7-04.5	\$96	\$51,840
13	1	EA	Catch Basin Type I	7-05.5	\$3,000	\$3,000
14	4	EA	Catch Basin Type II	7-05.5	\$6,000	\$24,000
Subtotal Division 7						\$100,540
Division 8 - Miscellaneous Construction						
15	460	SY	Landscape Repair	8-02.5	\$2	\$920
Subtotal Estimated Construction Cost						\$140,710
Construction Contingency 40.0%						\$56,284
Total Estimated Construction Cost (May 2006)						\$196,994
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$236,393
Washington State Sales Tax 8.0%						\$18,911
Engineering, Legal, Administration, Construction Management Services 30.0%						\$70,918
ESTIMATED IMPLEMENTATION COST						\$326,222

Notes:

- (1) Rock-lined channel cost based on 2-foot deep triangular section with 2:1 sideslopes lined with a 1-foot lift of rock
- (2) Interceptor Drain cost based on a 12-inch wide surface drain and a 12-inch diameter underdrain.
- (3) Storm drain cost based on \$4 per inch diameter

**Planning-level Construction Cost Estimate
CIP 07-NC2b**

Bid Item	Est. Quantity	Unit	Item	Spec. Section	Unit Cost	Amount
Division 1 - General Requirements						
1	1	LS	Surveying	1-05.4	\$1,000	\$1,000
2	1	LS	Temporary Water Pollution/Erosion Control	1-07.15	\$2,000	\$2,000
3	1	LS	Utilities Locate and Protection	1-07.17	\$1,500	\$1,500
4	1	LS	Mobilization (10.0%)	1-09.7	\$3,000	\$3,000
Subtotal Division 1						\$7,500
Division 2 - Earthwork						
5	1	EA	Outfall Rock Pad	2-03.5	\$2,500	\$2,500
Division 5 - Surface Treatments and Pavements						
6	1	LS	AC Berm	5-04.5	\$500	\$500
7	200	SF	Pavement Repair	5-04.5	\$6	\$1,200
Subtotal Division 5						\$1,700
Division 7 - Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits						
8	455	LF	Storm Drain, 12" Diam.	7-04.5	\$48	\$21,840
9	50	LF	Storm Drain, 18" Diam.	7-04.5	\$72	\$3,600
10	1	EA	Catch Basin Type I	7-05.5	\$3,000	\$3,000
Subtotal Division 7						\$28,440
Division 8 - Miscellaneous Construction						
11	440	SY	Landscape Repair	8-02.5	\$2	\$880
Subtotal Estimated Construction Cost						\$41,020
Construction Contingency 40.0%						\$16,408
Total Estimated Construction Cost (May 2006)						\$57,428
Escalated Estimated Construction Cost (Nov. 2007) 120.0%						\$68,914
Washington State Sales Tax 8.0%						\$5,513
Engineering, Legal, Administration, Construction Management Services 30.0%						\$20,674
ESTIMATED IMPLEMENTATION COST						\$95,101

Notes:

- (1) Outfall rock pad cost based on an 8-foot wide by 25-foot long area lined with a 2-foot lift of rock
- (2) Storm drain cost based on \$4 per inch diameter

**Planning-level Construction Cost Estimate
Damaged Culverts**

Culvert Number	Est. Quantity	Unit	Item	Unit Cost	Other Costs	Amount
Low Priority (5-20% obstructed)						
1371-1372	26	LF	Storm Drain, 24" Diam.	\$144	\$6,000	\$9,744
1710-5019	20	LF	Storm Drain, 24" Diam.* (total length 59')	\$144	\$6,000	\$8,880
5521-1937	20	LF	Storm Drain, 24" Diam.* (total length 178')	\$144	\$6,000	\$8,880
5688-5689	22	LF	Storm Drain, 24" Diam.	\$144	\$6,000	\$9,168
1571--1531	20	LF	Storm Drain, 18" Diam.* (total length 51')	\$72	\$5,000	\$6,440
1573-1572	28	LF	Storm Drain, 18" Diam.	\$108	\$5,000	\$8,024
1827-1826	20	LF	Storm Drain, 18" Diam.* (total length 101')	\$108	\$5,000	\$7,160
1740-1739	20	LF	Storm Drain, 12" Diam.* (total length 116')	\$72	\$4,000	\$5,440
1741-1742	20	LF	Storm Drain, 12" Diam.* (total length 50')	\$72	\$4,000	\$5,440
5207-1745	45	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$7,240
5396-5395	43	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$7,096
1552-1553	38	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$6,736
5340-1411	20	LF	Storm Drain, 12" Diam.* (total length 113')	\$72	\$4,000	\$5,440
1526-1477	40	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$6,880
1613-1614	21	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$5,512
1701-1696	30	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$6,160
5356-5355	27	LF	Storm Drain, 12" Diam.	\$72	\$4,000	\$5,944
1934-1942	20	LF	Storm Drain, 12" Diam.* (total length 144')	\$72	\$4,000	\$5,440
1578	20	LF	Storm Drain, 8" Diam.* (total length unknown)	\$48	\$3,000	\$3,960
5053	20	LF	Storm Drain, 4" Diam.* (total length unknown)	\$24	\$1,500	\$1,980
Subtotal Estimated Construction Cost - Low Priority Damaged Culvert Replacements (May 2006)						\$131,564
Subtotal Estimated Construction Cost						\$190,952
Construction Contingency 40.0%						\$76,381
Total Estimated Construction Cost (May 2006)						\$267,333
Escalated Estimated Construction Cost (Nov. 2007)					120.0%	\$320,799
Washington State Sales Tax 8.0%						\$25,664
Engineering, Legal, Administration, Construction Management Services 30.0%						\$96,240
ESTIMATED IMPLEMENTATION COST						\$442,703

Notes:

- (1) Storm drain cost based on \$6 per inch diameter (includes existing pipe removal)
- (2) "Other Costs" are fixed costs per improvement for survey, TESC measures, utility locate, mobilization, traffic control, and pavement/landscape restoration
- * Replacement of end section only

**Planning-level Construction Cost Estimate
Summary of CIP-01 through CIP-07 and Damaged Culverts**

Recommended CIP Project	Estimated Cost	Rounded Cost
01-BL3	\$56,859	\$56,900
02-BL6	\$90,557	\$90,600
03-BI25	\$51,468	\$51,500
04-BL27	\$221,071	\$221,100
05-BL28	\$365,171	\$365,200
06-BL31	\$326,222	\$326,200
07-NC2b	\$95,101	\$95,100
High Priority Damaged Culverts	\$92,940	\$92,900
Medium Priority Damaged Culverts	\$44,745	\$44,700
Low Priority Damaged Culverts	\$305,018	\$305,000
RECOMMENDED CIP PROJECTS TOTAL ESTIMATED IMPLEMENTATION COST	\$1,649,152	\$1,649,200