

# APPENDIX 4-A

## Detailed Budget

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**Devil's Gate and Eaton  
Stormwater Flood Management Project**

Budget

Appendix 4-A includes details for the following Categories:

- ✓ *Direct Project Administration Costs*
- ✓ *Planning/Design/Engineering/ Environmental Documentation*
- ✓ *Construction/Implementation*
- ✓ *Environmental Compliance/ Mitigation/Enhancement*

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(a) Direct Project Administration Costs*

Wages per hour include an average of 30 percent for overhead, administrative, equipment, and supply costs.

**Phase I-Eaton Wash Spreading Grounds Improvements**

Task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Reviewers (various titles; administrative assistant, technicians, etc.)			Cost
	Wage \$134/hour		Wage \$91/hour		Wage \$90/hour			
	hours	cost	hours	cost	no. staff	hours ea.	cost	
<b>Task 1: Administration</b>	3	\$350	15	\$1,400	2	20	\$5,250	\$7,000
<b>Task 2: Labor Compliance</b>	0.4	\$50	2	\$150	2	3	\$800	\$1,000
<b>Task 3: Reporting</b>	1	\$200	5	\$500	2	5	\$1,300	\$2,000

Total Category Cost \$10,000

**Phase II-Eaton Wash Dam Rehabilitation Project**

Task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Reviewers (various titles; administrative assistant, technicians, etc.)			Cost
	Wage \$134/hour		Wage \$91/hour		Wage \$90/hour			
	hours	cost	hours	cost	no. staff	hrs. ea.	cost	
<b>Task 1: Administration Labor</b>	9	\$1,235	54	\$4,939	3	46	\$18,521	\$24,695
<b>Task 2: Labor Compliance Program</b>	1	\$176	6	\$529	2	11	\$2,822	\$3,528
<b>Task 3: Reporting</b>	5	\$706	19	\$1,764	2	17	\$4,586	\$7,056

Total Category Cost \$35,279

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(a) Direct Project Administration Costs*

**Phase III-Eaton Wash Spreading Grounds Intake Improvement and Basin Enlargement**

Task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Reviewers (various titles;administrative assistant, technicians, etc.)			Cost
	Wage \$134/hour		Wage \$91/hour		Wage \$90/hour			
	hours	cost	hours	cost	no. staff	hrs. ea.	cost	
<b>Task 1: Administration Labor</b>	7	\$896	39	\$3,584	2	50	\$13,440	\$17,920
<b>Task 2: Labor Compliance</b>	1	\$128	4	\$384	2	8	\$2,048	\$2,560
<b>Task 3: Reporting</b>	4	\$512	14	\$1,280	2	12	\$3,328	\$5,120

Total Category Cost \$25,600

**Phase IV- Devil’s Gate Water Conservation**

Task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Reviewers (various titles;administrative assistant, technicians, etc.)			Cost
	Wage \$134/hour		Wage \$91/hour		Wage \$90/hour			
	hours	cost	hours	cost	no. staff	hours ea.	cost	
<b>Task 1: Administration</b>	34	\$4,571	201	\$18,284	4	128	\$68,565	\$91,420
<b>Task 2: Labor Compliance Program</b>	5	\$653	22	\$1,959	2	39	\$10,448	\$13,060
<b>Task 3: Reporting</b>	19	\$2,612	72	\$6,530	2	63	\$16,978	\$26,120

Total Category Cost \$130,600

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(a) Direct Project Administration Costs*

**Phase V-Devil’s Gate Reservoir Sediment Removal and Management**

Task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Reviewers (various titles;administrative assistant, technicians, etc.)			Cost
	Wage \$134/hour		Wage \$91/hour		Average Wage \$103/hour			
	<i>hours</i>	<i>cost</i>	<i>hours</i>	<i>cost</i>	<i>no. staff</i>	<i>hrs. ea.</i>	<i>cost</i>	
<b>Task 1: Administration</b>	102	\$13,678	601	\$54,712	4	383	\$205,170	\$273,560
<b>Task 2: Labor Compliance</b>	15	\$1,954	64	\$5,862	2	117	\$31,264	\$39,080
<b>Task 3: Reporting</b>	58	\$7,816	215	\$19,540	2	190	\$50,804	\$78,160

Total Category Cost \$390,800

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(c) Planning/Design/Engineering/Environmental Documentation*

Wages per hour include an average of 30 percent for overhead, administrative, equipment, and supply costs.

**Phase I-Eaton Wash Spreading Grounds Improvements**

Task(s)	Sub-task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Manager (Civil Engineer)		Designers (Associate Civil Engineer) Wage			Reviewers (various titles; inspectors, engineers, techs, et.) Average Wage			Technical Studies, Reports	Cost
		Wage \$134/hour		Wage \$91/hour		Wage \$134/hour		Wage \$110/hour			Wage \$110/hour			lump sum	
		hours	cost	hours	cost	hours	cost	no. staff	hours ea.	cost	no. staff	hours ea.	cost	cost	
<b>Task 4: Assessment and Evaluation</b>	10 % (Conceptual) Design	8	\$1,062	23	\$2,125	1	\$71	1	2	\$212	1	1	\$71	\$3,541	\$7,082
	30% (Concept) Design	40	\$5,312	78	\$7,082	53	\$7,082	1	90	\$9,915	2	3	\$708	\$5,312	\$35,410
<b>Task 5: Final Design</b>	60 % Design	79	\$10,623	175	\$15,935	159	\$21,246	1	290	\$31,869	3	17	\$5,312	\$21,246	\$106,230
	90 % (Pre- final) Design	119	\$15,935	175	\$15,935	198	\$26,558	1	338	\$37,181	4	13	\$5,312	\$5,312	\$106,230
	100% (Final) Design	107	\$14,341	158	\$14,341	143	\$19,121	2	183	\$40,155	5	9	\$4,780	\$2,868	\$95,607
<b>Task 6: Environmental Documentation Task 7: Permitting</b>	Env. and Permits	5	\$708	22	\$1,983	0	\$0	2	0	\$35	3	2	\$708	\$106	\$3,541

Total Category Cost \$354,100

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(c) Planning/Design/Engineering/Environmental Documentation*

**Phase II-Eaton Wash Dam Rehabilitation Project**

Task(s)	Sub-task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Consultant	Reviewers (various titles; administrative assistant, technicians, etc.)			Technical Studies, Reports	Cost
		Wage \$134/hour		Wage \$91/hour		lump sum	Wage \$110/hour			lump sum	
		hours	cost	hours	cost	cost	no. staff	hrs. ea.	cost	cost	
<b>Task 4: Assessment and Evaluation</b>	10 % (Conceptual) Design	13	\$1,740	13	\$1,160	2320	1	6	580	\$52,200	\$58,000
	30% (Concept) Design	65	\$8,700	127	\$11,600	27840	2	6	1160	\$8,700	\$58,000
<b>Task 5: Final Design</b>	60 % Design	54	\$7,250	120	\$10,875	36250	1	35	3625	\$14,500	\$72,500
	90 % (Pre-final) Design	81	\$10,875	120	\$10,875	43500	1	35	3625	\$3,625	\$72,500
	100% (Final) Design	29	\$3,915	43	\$3,915	16182	1	13	1305	\$783	\$26,100
<b>Task 6: Environmental Documentation</b> <b>Task 7: Permitting</b>	Env. and Permits	4	\$580	18	\$1,624	0	2	3	638	\$58	\$2,900

Total Category Cost \$290,000

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(c) Planning/Design/Engineering/Environmental Documentation*

**Phase III-Eaton Wash Spreading Grounds Intake Improvement and Basin**

Task(s)	Sub-task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Manager (Civil Engineer)		Designers (Associate Civil Engineer) Wage			Reviewers (various titles; inspectors, engineers, techs, et.) Average Wage			Technical Studies, Reports	Cost
		Wage \$134/hour		Wage \$91/hour		Wage \$134/hour		Wage \$110/hour			Wage \$110/hour			lump sum	
		hours	cost	hours	cost	hours	cost	no. staff	hrs. ea.	cost	no. staff	hrs. ea.	cost	cost	
<b>Task 4: Assessment and Evaluation</b>	10 % (Conceptual) Design	11	\$1,500	33	\$3,000	1	\$100	1	3	\$300	1	1	\$100	\$5,000	\$10,000
	30% (Concept) Design	56	\$7,500	110	\$10,000	75	\$10,000	1	127	\$14,000	2	5	\$1,000	\$7,500	\$50,000
<b>Task 5: Final Design</b>	60 % Design	112	\$15,000	247	\$22,500	224	\$30,000	1	409	\$45,000	5	15	\$7,500	\$30,000	\$150,000
	90 % (Pre- final) Design	168	\$22,500	247	\$22,500	280	\$37,500	2	239	\$52,500	5	15	\$7,500	\$7,500	\$150,000
	100% (Final) Design	151	\$20,250	223	\$20,250	201	\$27,000	2	258	\$56,700	5	13	\$6,750	\$4,050	\$135,000
<b>Task 6: Environmental Documentation Task 7: Permitting</b>	Env. and Permits	7	\$1,000	31	\$2,800	0	\$0	2	0	\$50	3	3	\$1,050	\$100	\$5,000

Total Category Cost \$500,000

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(c) Planning/Design/Engineering/Environmental Documentation*

**Phase IV- Devil’s Gate Water Conservation**

Task(s)	Sub-task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Manager (Civil Engineer)		Designers (Associate Civil Engineer)			Reviewers (various titles; inspectors, engineers, techs, et.) Average Wage			Technical Studies, Reports	Cost
		Wage \$134/hour		Wage \$91/hour		Wage \$134/hour		Wage \$110/hour			Wage \$110/hour			lump sum	
		hours	cost	hours	cost	hours	cost	no. staff	hours ea.	cost	no. staff	hours ea.	cost	cost	
<b>Task 4: Assessment and Evaluation</b>	30% (Concept) Design	126	\$16,920	248	\$22,560	168	\$22,560	1	287	\$31,584	2	11	\$2,256	\$16,920	\$112,800
	60 % Design	91	\$12,220	201	\$18,330	182	\$24,440	2	167	\$36,660	1	59	\$6,110	\$24,440	\$122,200
<b>Task 5: Final Design</b>	90 % (Pre-final) Design	158	\$21,150	232	\$21,150	263	\$35,250	2	224	\$49,350	1	68	\$7,050	\$7,050	\$141,000
	100% (Final) Design	105	\$14,100	155	\$14,100	140	\$18,800	3	120	\$39,480	1	46	\$4,700	\$2,820	\$94,000
<b>Task 6: Environmental Documentation</b> <b>Task 7: Permitting</b>	Env. and Permits	70	\$9,400	103	\$9,400	70	\$9,400	2	43	\$9,400	7	13	\$9,400	\$423,000	\$470,000

Total Category Cost \$940,000

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(c) Planning/Design/Engineering/Environmental Documentation*

**Phase V-Devil’s Gate Reservoir Sediment Removal and Management**

Task(s)	Sub-task	Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Manager (Civil Engineer)		Designers (Associate Civil Engineer)			Reviewers (various titles; inspectors, engineers, technicians, et.)			Technical Studies, Reports	Cost
		Wage \$134/hour		Wage \$91/hour		Wage \$134/hour		Wage \$110/hour			Wage \$103/hour			lump sum	
		hours	cost	hours	cost	hours	cost	no. staff	hrs. ea.	cost	no. staff	hrs. ea.	cost	cost	
<b>Task 4: Assessment and Evaluation</b>	10 % (Conceptual) Design	54	\$7,260	160	\$14,520	4	\$484	1	13	\$1,452	1	5	\$484	\$24,200	\$48,400
	30% (Concept) Design	260	\$34,848	383	\$34,848	289	\$38,720	2	246	\$54,208	2	19	\$3,872	\$27,104	\$193,600
<b>Task 5: Final Design</b>	60 % Design	470	\$62,920	638	\$58,080	722	\$96,800	3	440	\$145,200	5	47	\$24,200	\$96,800	\$484,000
	90 % (Pre-final) Design	542	\$72,600	798	\$72,600	903	\$121,000	4	385	\$169,400	5	47	\$24,200	\$24,200	\$484,000
	100% (Final) Design	90	\$12,100	133	\$12,100	181	\$24,200	4	165	\$72,600	10	108	\$111,320	\$9,680	\$242,000
<b>Task 6: Environmental Documentation</b> <b>Task 7: Permitting</b>	Env. and Permits	144	\$19,360	213	\$19,360	144	\$19,360	2	88	\$19,360	7	27	\$19,360	\$871,200	\$968,000
<b>Total Category Cost</b>															<b>\$2,420,000</b>

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(d) Construction/Implementation*

**Task 8: Construction Contracting for Phases I through IV**

Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Manager (Civil Engineer)		Designers (Associate Civil Engineer) Wage			Specifications Engineer (Civil Engineer)		Reviewers (various titles; inspectors, engineers, techs, et.) Average Wage			Cost
Wage \$134/hour		Wage \$91/hour		Wage \$134/hour		Wage \$110/hour			Wage \$134/hour		Wage \$110/hour			
hours	cost	hours	cost	hours	cost	no. staff	hours	cost	hours	cost	no. staff	hours ea.	cost	
25	\$3,350	30	\$2,730	65	\$8,710	2	59	\$12,870	110	\$14,740	8	20	\$17,600	\$60,000

**Task 8: Construction Contracting for Phase V**

Project Manager (Civil Engineer)		Assistant Project Manager (Civil Engineering Assistant)		Design Manager (Civil Engineer)		Designers (Associate Civil Engineer) Wage			Specifications Engineer (Civil Engineer)		Reviewers (various titles; inspectors, engineers, techs, et.) Average Wage			Cost
Wage \$134/hour		Wage \$91/hour		Wage \$134/hour		Wage \$110/hour			Wage \$134/hour		Wage \$110/hour			
hours	cost	hours	cost	hours	cost	no. staff	hours	cost	hours	cost	no. staff	hours ea.	cost	
30	\$4,020	30	\$2,730	70	\$9,380	2	60	\$13,200	125	\$16,750	15	20	\$33,920	\$80,000

**Devil's Gate and Eaton  
Stormwater Flood Management Project**

*(d) Construction/Implementation*

**Task 9: Construction**

**Phase I-Eaton Wash Spreading Grounds Improvements**

Item No.	Description	Units	Quantity	Unit Price	Total Paid Amount
1	CONSTRUCTION SCHEDULE (BASELINE) (STIPULATED UNIT PRICE OF \$4,000)	LS	1	\$4,000	\$4,000
2	CONSTRUCTION SCHEDULE (UPDATE)	MTH	4	\$1,000	\$4,000
3	SHORING OF OPEN EXCAVATIONS	LS	1	\$2,800	\$2,800
4	OFFICE FACILITIES	LS	1	\$5,000	\$5,000
5	MOBILIZATION	LS	1	\$1,000	\$1,000
6	CLEARING AND GRUBBING	LS	1	\$18,000	\$18,000
7	UNCLASSIFIED EXCAVATION	CY	23450	\$3	\$70,350
8	UNCLASSIFIED FILL	CY	23450	\$1	\$23,450
9	RIPRAP (LIGHT CLASS)	CY	61	\$120	\$7,320
10	EXCAVATION AND DISPOSAL OF SEDIMENT	TON	76172.4	\$7	\$558,344
11	SEPARATION AND DISPOSAL OF OTHER DEBRIS	TON	100	\$83	\$8,300
12	PORTABLE SCALES	LS	1	\$35,000	\$35,000
13	10" DUCTILE IRON PIPE	LF	1066	\$90	\$95,940
14	GALVANIZED WELDED STEEL GRATING	EA	9	\$5,000	\$45,000
15	TRENCH BACKFILL SLURRY (CLASS 100-E-100)	CY	139	\$100	\$13,900
16	LINE 36" CMP	LF	258	\$200	\$51,600
17	LINE 24" RCP	LF	255	\$180	\$45,900
18	LINE 36" RCP	LF	724	\$190	\$137,560
19	TREE REMOVAL (13-24" DIAMETER)	EA	9	\$800	\$7,200
20	TREE REMOVAL (25"+ DIAMETER)	EA	1	\$1,200	\$1,200
21	AC PAVEMENT REMOVAL	SF	17600	\$1	\$22,880
22	METAL HAND RAILINGS	LF	144	\$150	\$21,600
23	30" RCP, 2000 D	LF	269	\$120	\$32,280
24	RESTORATION OF PERMANENT SURFACING	LS	1	\$85,000	\$85,000
25	CLEANING OF PIPES	LS	1	\$9,000	\$9,000
26	WATER TRUCKS	HR	200	\$90	\$18,000
27	DIGITAL VIDEO AFTER PIPE LINING	LS	1	\$3,000	\$3,000
28	ENCASEMENT PER LACDPW STD PLAN 2023	CY	115	\$130	\$14,950
29	12" CAST IRON SLIDE GATE	EA	7	\$3,300	\$23,100
30	CONTROL STRUCTURE NO. 7	CY	12	\$1,000	\$12,000
31	CONTROL STRUCTURE NO. 8	CY	13	\$1,000	\$13,000
32	CONTROL STRUCTURE NO. 9	CY	12	\$1,000	\$12,000
33	CONTROL STRUCTURE NO. 10	CY	11	\$1,000	\$11,000
34	CONTROL STRUCTURE NO. 11	CY	12	\$1,000	\$12,000
35	CONTROL STRUCTURE NO. 12	CY	11	\$1,000	\$11,000

**Devil's Gate and Eaton  
Stormwater Flood Management Project**

**Budget**

*(d) Construction/Implementation*

**Task 9: Construction**

<b>Phase I-Eaton Wash Spreading Grounds Improvements (cont.)</b>	36	CONTROL STRUCTURE NO. 13	CY	11	\$1,000	\$11,000
	37	OUTLET STRUCTURE BASIN 4	CY	5	\$1,400	\$7,000
	38	OUTLET STRUCTURE BASIN 6	CY	5	\$1,400	\$7,000
	39	OUTLET STRUCTURE BASIN 7	CY	5	\$1,400	\$7,000
	40	INTERBASIN OUTLET STRUCTURE 8	CY	5	\$1,400	\$7,000
	41	INTERBASIN OUTLET STRUCTURE 9	CY	5	\$1,400	\$7,000
	42	INTERBASIN OUTLET STRUCTURE 10	CY	5	\$1,400	\$7,000
	43	INTERBASIN OUTLET STRUCTURE 11	CY	5	\$1,400	\$7,000
	44	INTERBASIN OUTLET STRUCTURE 12	CY	5	\$1,400	\$7,000
	45	INTERBASIN OUTLET STRUCTURE 13	CY	5	\$1,400	\$7,000
	46	STREET SWEEPERS	HR	100	\$140	\$14,000
	47	DESILTING BASIN ACCESS RAMP	CY	46	\$340	\$15,640
	48	DESILTING BASIN LINING	CY	657	\$295	\$193,815
	49	MANHOLE PER STD PLAN 200 (MOD)	EA	5	\$11,000	\$55,000
	50	INTERBASIN OUTLET STRUCTURE 14	CY	5	\$1,400	\$7,000
	51	LINE 30" CMP	LF	432	\$180	\$77,760
	52	LINE 21" RCP	LF	110	\$160	\$17,600
53	TIME DELAY	LS	1	\$1,227	\$1,227	
54	UNCLASSIFIED EX	CY	11650	\$3	\$34,368	
55	UNCLASSIFIED FILL	CY	11650	\$1	\$11,417	
56	CREDIT FOR PORTABLE SCALES	LS	1	-\$6,000	-\$6,000	
57	ACCESS ROAD REPAIR	LS	1	\$11,896	\$11,896	

**\$1,944,397**

**Phase II-Eaton Wash Dam Rehabilitation Project**

Item No.	Description	Units	Quantity	Unit Price	Total Amount
1	CONSTRUCTION SCHEDULE (BASELINE) (STIPULATED UNIT PRICE OF \$5,000)	LS	1	\$5,000	\$5,000
2	CONSTRUCTION SCHEDULE (UPDATE)	MTH	13	\$500	\$6,500
3	SHORING OF OPEN EXCAVATIONS	LS	1	\$1,000	\$1,000
4	OFFICE FACILITIES	LS	1	\$10,000	\$10,000
5	MOBILIZATION	LS	1	\$77,000	\$77,000
6	EXISTING OUTLET TOWER REMOVAL	LS	1	\$86,000	\$86,000
7	EXISTING FOOT BRIDGE REMOVAL	LS	1	\$42,000	\$42,000
8	EXISTING TRASHRACK REMOVAL	LS	1	\$25,000	\$25,000
9	CONCRETE REMOVAL (REINFORCED)	CY	51	\$400	\$20,400
10	STRUCTURE EXCAVATION	CY	320	\$15	\$4,800
11	STRUCTURE BACKFILL	CY	205	\$35	\$7,175
12	EXCAVATION AND DISPOSAL OF SEDIMENT	CY	3500	\$22	\$77,000
13	STRUCTURE CONCRETE	CY	134	\$639	\$85,560

**Devil's Gate and Eaton  
Stormwater Flood Management Project**

**Budget**

*(d) Construction/Implementation*

**Task 9: Construction**

Phase II-Eaton Wash Dam Rehabilitation Project (cont.)	14	BAR REINFORCING STEEL	LB	10750	\$3	\$26,875
	15	DRILL AND GROUT DOWEL	LF	262	\$18	\$4,611
	16	MASONRY WALL	SF	316	\$25	\$7,900
	17	STRUCTURAL STEEL	LB	17105	\$7	\$119,735
	18	MISCELLANEOUS METAL	LB	200	\$20	\$4,000
	19	ALUMINUM PLATE TRENCH COVER	SF	576	\$95	\$54,720
	20	METAL HAND RAILINGS	LF	83	\$66	\$5,478
	21	CLEAN AND PAINT EXISTING STEEL	SF	256	\$120	\$30,720
	22	STEEL LADDER	EA	4	\$2,100	\$8,400
	23	EMBEDDED STEEL FRAME	LF	362	\$24	\$8,688
	24	STAFF GAGE	EA	4	\$1,800	\$7,200
	25	DOUBLE STEEL DOOR AND HARDWARE	EA	1	\$4,200	\$4,200
	26	SELF-SUPPORTING TOWER AND TOWER FOUNDATION	LS	1	\$15,000	\$15,000
	27	MISCELLANEOUS MECHANICAL WORK	LS	1	\$2,095	\$2,095
	28	REFURBISH GATE	EA	4	\$60,668	\$242,673
	29	CAST-IRON SLIDE GATE	LS	1	\$194,250	\$194,250
	30	HYDRAULIC ACTUATING SYSTEM	EA	5	\$62,951	\$314,755
	31	HYDRAULIC SYSTEM AND OIL LINE	LS	1	\$86,000	\$86,000
	32	AIR VENT PIPE FOR OUTLET STRUCTURE	LS	1	\$52,000	\$52,000
	33	REMOTE CONTROL SYSTEM	LS	1	\$54,450	\$54,450
	34	ELECTRICAL WORK	LS	1	\$202,224	\$202,224
	35	CLEARING AND GRUBBING	LS	1	\$31,000	\$31,000
	36	TREE REMOVAL (13-24" DIAMETER)	EA	6	\$700	\$4,200
	37	TREE REMOVAL (25"+ DIAMETER)	EA	2	\$1,500	\$3,000
	38	UNCLASSIFIED EXCAVATION	CY	926	\$25	\$23,150
	39	EROSION CONTROL GEOTEXTILE	SY	19370	\$3	\$48,425
	40	RIPRAP (LIGHT CLASS)	CY	9685	\$66	\$639,210
	41	TRENCH BACKFILL SLURRY (CLASS 270-E-500)	CY	26	\$200	\$5,200
	42	COLD MILL AC PAVEMENT	SF	2500	\$2	\$5,400
	43	AC PAVEMENT	TON	1320	\$84	\$110,352
	44	AC PAVEMENT(PATCH BACK)	TON	26	\$212	\$5,520
	45	CATCH BASIN PER STD PLAN 303,2 GRATES	EA	1	\$5,500	\$5,500
	46	REINFORCED CONCRETE STAIRWAY PER STD PLAN 640	CY	52	\$1,100	\$57,200
	47	18" RCP, 2000 D	LF	190	\$50	\$9,500
	48	REINFORCED CONCRETE SWALE PER SECTION K-K, SHEET 30	LF	321	\$55	\$17,655
	49	REINFORCED CONCRETE BASE PER DETAIL "P", SHEET 30	CY	4	\$350	\$1,400
	50	WALL OUTLET STRUCTURE PER SECTION L-L, SHEET 29	LS	1	\$300	\$300
	51	18" HIGH GROUTED STONE WALL	LF	230	\$190	\$43,700
	52	CURB AND GUTTER - BARRIER A2-12 PER SPPWC STD PLAN 120-1	LF	1010	\$18	\$18,180
	53	AC CURB PER DETAIL "R", SHEET 30	LF	188	\$23	\$4,343
	54	1" CRUSHED ROCK	CY	3400	\$37	\$125,800

**Devil's Gate and Eaton  
Stormwater Flood Management Project**

**Budget**

*(d) Construction/Implementation*

**Task 9: Construction**

<b>Phase II-Eaton Wash Dam Rehabilitation Project (cont.)</b>	55	12" HDPE SUBDRAIN	LF	1187	\$30	\$35,610
	56	12" N-12 HP HDPE PIPE	LF	48	\$30	\$1,440
	57	CLEANOUT RISER PER DETAIL "C", SHEET 30	EA	2	\$2,000	\$4,000
	58	METAL HAND RAILINGS, TYPE A, PER STD PLAN 606-3	LF	566	\$135	\$76,410
	59	PIPE SUPPORT AND HOSE VALVE	EA	8	\$910	\$7,280
	60	PIPE CONNECTION PER DETAIL "K", SHEET 30	EA	2	\$1,000	\$2,000
	61	2" COPPER PIPE, TYPE K -WATERLINE	LF	1215	\$51	\$62,500
	62	HDPE FLARED INLET	EA	2	\$200	\$400
	63	SECURITY GATE NO.1 PER SECTION A-A, SHEET 32	LS	1	\$1,930	\$1,930
	64	SECURITY GATE NO. 2 PER SECTION B-B, SHEET 32	LS	1	\$26,180	\$26,180
	65	SECURITY FENCE	LF	152	\$185	\$28,120
	66	TREE WELL PER SECTION D-D, SHEET 30	EA	10	\$1,900	\$19,000
	67	SECURITY ALARM SYSTEM	LS	1	\$28,366	\$28,366
	68	SIMULATED SECURITY CAMERA AND POST	EACH	4	\$22	\$88
	69	MOTION ACTIVATED LIGHTING	EA	2	\$632	\$1,264
	70	INSTALL WARNING SIGN, SHEET 32	EA	8	\$150	\$1,200
	71	MANHOLE PER STD PLAN 321	EA	4	\$3,500	\$14,000
	72	Additional 2" Copper Water Line	EA	1	\$16,254	\$16,254
	73	Install Storm Drain	EA	1	\$55,000	\$55,000
	74	Saw Cut Variable Width AC	EA	1	\$2,000	\$2,000
75	Furnish & Install 1" Dia. PVC Sch. 80 Conduit 1	EA	1	\$2,860	\$2,860	
76	2" Water Pipe and 4" Sewer Line	EA	1	\$35,255	\$35,255	
77	Delete Bid Item 71 (Tree Well)	EA	1	-\$19,000	-\$19,000	
78	Furnish & Install 2x6 Header	EA	1	\$10,950	\$10,950	
79	Backfill & Compact Septic Tank & Cesspool	EA	1	\$888	\$888	
80	Tree Removal (13"-24" Dia.)	EA	1	\$1,400	\$1,400	

**\$3,467,839**

**Phase III-Eaton Wash Spreading Grounds Intake Improvement and Basin Enlargement**

Item No.	Description	Units	Quantity	Unit Price	Total Amount
1	CONSTRUCTION SCHEDULE (BASELINE) (STIPULATED UNIT PRICE OF \$5,000)	LS	1		
3	CONSTRUCTION SCHEDULE (UPDATE)	MTH	6		
4	SHORING OF OPEN EXCAVATIONS	LS	1		
5	OFFICE FACILITIES	LS	1		
6	MOBILIZATION	LS	1		
8	PREPARATION OF THE SWPPP (STIPULATED UNIT PRICE OF \$5,000)	LS	1		
9	IMPLEMENTATION OF THE SWPPP	LS	1		
10	CLEARING AND GRUBBING	LS	1		
11	TREE REMOVAL (1-12" DIAMETER)	EA	3		
12	TIRE WASH	EA	2		

**Devil's Gate and Eaton  
Stormwater Flood Management Project**

**Budget**

*(d) Construction/Implementation*

**Task 9: Construction**

<b>Phase III-Eaton Wash Spreading Grounds Intake Improvement and Basin Enlargement</b>	13	STREET SWEEPER(S)	HR	100	Prices to be determined during bidding process				
	14	AC PAVEMENT REMOVAL	SF	13140					
	15	UNCLASSIFIED EXCAVATION	CY	233168					
	16	UNCLASSIFIED FILL	CY	1435					
	17	RIPRAP (HALF TON CLASS)	CY	64					
	18	CRUSHED MISCELLANEOUS BASE	CY	149					
	19	AC PAVEMENT	TON	201					
	20	REINFORCED CONCRETE RETAINING WALL TYPE 6	CY	152					
	21	PCC WALK, 4" THICK	SF	75					
	22	PCC DRIVEWAY PER STD PLAN S-403	CY	6					
	24	16' WIDE DECORATIVE STEEL DOUBLE DRIVE GATE PER DETAIL SH. 7	EA	2					
	25	DECORATIVE STEEL PICKET FENCE- 4' HIGH PER DETAIL SH. 7	LF	273					
	26	DECORATIVE STEEL PICKET FENCE-6' HIGH PER DETAIL SH. 7	LF	368					
	27	42" RCP, 1500 D	LF	102					
	28	OUTLET STRUCTURE	CY	17					
	29	CONTROL STRUCTURE GRATE	EA	1					
	30	TRENCH BACKFILL SLURRY	CY	62					
	31	IMPORTED TOPSOIL	CY	190					
	32	DECOMPOSED GRANITE PAVING	SF	2790					
	33	LANDSCAPING	LS	1					
	34	IRRIGATION SYSTEM	LS	1					
	35	90 DAY PLANT ESTABLISHMENT PERIOD	LS	1					
	36	CONCRETE REMOVAL (REINFORCED)	CY	13					
	37	STRUCTURE CONCRETE	CY	9					
	38	BAR REINFORCING STEEL	LB	1200					
	39	DRILL AND BOND DOWEL (EPOXY CARTRIDGE)	LF	96					
	40	STRUCTURAL STEEL	LB	6750					
	41	MISCELLANEOUS METAL	LB	20					
	42	ELECTRICAL WORK	LS	1					
	43	OBERMEYER DIVERSION GATE (5'H X 5'W)	LS	1					
	Engineers Estimate							<b>\$ 2,500,000</b>	

**Phase IV- Devil's Gate Water Conservation**

Item No.	Description	Units	Quantity	Unit Price	Total Amount
1	Three-Stage Turbine Pump	LS	1	Prices to be determined during bidding process	
2	Pump Station Structure	EA	1		
3	Electrical and Control Equipment	LS	1		
4	Electrical Service for Pumps	LS	1		
5	30" Steel Pipe w/Concrete Lining & Coating	LF	26000		
6	Slide Gates and Tees for Pressurization	EA	4		

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

**Budget**

*(d) Construction/Implementation*

**Task 9: Construction**

7	Low Spot Drainage	LF	1065	
Engineers Estimate				<b>\$13,000,000</b>

**Phase V-Devil’s Gate Reservoir Sediment Removal and Management**

Construction estimate based on amount of material proposed to be removed within this grant application, which is 2 million cubic yards. The EIR process has yet to identify the preferred alternative to achieve the project goal of restoring flood protection to the downstream residents. The cost is therefore based on past sediment removal costs of similar magnitude. The estimate of \$39,080,000 is considered reasonable based on past projects of similar magnitude.

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(e) Environmental Compliance/ Mitigation/Enhancement*

**Task 10: Environmental Compliance/Mitigation/Enhancement**

**Phase I-Eaton Wash Spreading Grounds Improvements**

Item No.	Description	Units	Quantity	Unit Price	Total Paid Amount
1	STORM WATER POLLUTION PREVENTION PLAN (STIPULATED UNIT PRICE OF \$5,000)	LS	1	\$5,000	\$5,000
2	IMPLEMENTATION OF THE SWPPP	LS	1	\$12,000	\$12,000
3	TIRE WASH	EA	1	\$15,000	\$15,000
Total Category Cost					\$32,000

**Phase II-Eaton Wash Dam Rehabilitation Project**

Item No.	Description	Units	Quantity	Unit Price	Total Paid Amount
1	PREPARATION OF THE SWPPP (STIPULATED UNIT PRICE OF \$5,000)	LS	1	\$5,000	\$5,000
2	IMPLEMENTATION OF THE SWPPP	LS	1	\$40,500	\$40,500
3	ENVIRONMENTAL PLANS (STIPULATED UNIT PRICE OF \$10,000)	LS	1	\$10,000	\$10,000
4	IMPLEMENTATION OF ENVIRONMENTAL PLANS	LS	1	\$25,000	\$25,000
5	TIRE WASH	EA	2	\$20,000	\$40,000
Total Category Cost					\$120,500

**Phase III-Eaton Wash Spreading Grounds Intake Improvement and Basin Enlargement**

Item No.	Description	Units	Quantity	Unit Price	Total Paid Amount
1	PREPARATION OF THE SWPPP (STIPULATED UNIT PRICE OF \$5,000)	LS	1	Prices to be determined during bidding process	
2	IMPLEMENTATION OF THE SWPPP	LS	1		
3	TIRE WASH	EA	2		
4	STREET SWEEPER(S)	HR	100		
Total Category Estimate					60,000

**Devil’s Gate and Eaton  
Stormwater Flood Management Project**

*(e) Environmental Compliance/ Mitigation/Enhancement*

**Task 10: Environmental Compliance/Mitigation/Enhancement**

**Phase IV- Devil’s Gate Water Conservation**

Item No.	Description	Units	Quantity	Unit Price	Total Paid Amount
1	PREPARATION OF THE SWPPP (STIPULATED UNIT PRICE OF \$5,000)	LS	1	Prices to be determined during bidding process	
2	IMPLEMENTATION OF THE SWPPP	LS	1		
3	ENVIRONMENTAL PLANS (STIPULATED UNIT PRICE OF \$10,000)	LS	1		
4	IMPLEMENTATION OF ENVIRONMENTAL PLANS	LS	1		
5	STREET SWEEPER(S)	LS	1		
6	TIRE WASH	EA	2		

Total Category Estimate \$200,000

**Phase V-Devil’s Gate Reservoir Sediment Removal and Management**

Item No.	Description	Units	Quantity	Unit Price	Total Paid Amount
1	PREPARATION OF THE SWPPP (STIPULATED UNIT PRICE OF \$5,000)	LS	1	Prices to be determined during bidding process	
2	IMPLEMENTATION OF THE SWPPP	LS	1		
3	ENVIRONMENTAL PLANS (STIPULATED UNIT PRICE OF \$10,000)	LS	1		
4	IMPLEMENTATION OF ENVIRONMENTAL PLANS	LS	1		
5	TIRE WASH	EA	2		
6	STREET SWEEPER(S)	LS	1		
7	MITIGATION	LS	1		

Total Category Estimate \$3,000,000