

PRELIMINARY ENGINEERS ESTIMATE FOR ALTERNATIVE C
7-7-06

ENGINEER'S PRELIMINARY ESTIMATE OF COST - TUACHAN DETENTION BASIN					
	Crest Length in feet=	175			
Item	Description	Quantity	Units	Unit Cost	Total
1	Mobilization /Demobilization (5% of const. costs)	1	L.S.	\$23,203.00	\$23,203
2	Foundation Excavation (3 feet deep under footprint)	972	C.Y.	\$3.00	\$2,916
3	Cut Off Trench Excavation (6 feet deep under crest)	389	C.Y.	\$3.75	\$1,459
4	Cut Off Trench Backfill	389	C.Y.	\$6.50	\$2,529
5	Core Construction (extend under crest)	1089	C.Y.	\$6.50	\$7,079
6	Granular Shell Construction	5081	C.Y.	\$3.00	\$15,243
7	Rip Rap (upstream shell)	486	C.Y.	\$15.75	\$7,655
8	Outlet Works	1	L.S.	\$15,750.00	\$15,750
9	Spillway	1	L.S.	\$9,450.00	\$9,450
10	Reconstruction of Explosives Building	18.5	C.Y.	\$450.00	\$8,325
11	Precast Box Culverts @ Tuachan Drive Convey the 25 yr Storm (3) 3'x7.4'x60'	148	C.Y.	\$450.00	\$66,600
12	Precast Box Culverts @ Center Street - Convey the 100 yr storm (2) 4' x 11.5' x100'	341	C.Y.	\$450.00	\$153,450
13	Asphalt Patch	3632	S.F.	\$5.00	\$18,160
14	End Walls	4	L.S.	\$11,000.00	\$44,000
15	Curb and Gutter	30	L.F.	\$12.50	\$375
16	Signing and Traffic Control	1	L.S.	\$25,000.00	\$25,000
17	Rip Rap Protection	1	L.S.	\$10,000.00	\$10,000
18	Removal of material	1	L.S.	\$5,000.00	\$5,000
19	Excavation of lower detention basins - including loading and hauling	15000	C.Y.	\$10.00	\$150,000
20	Rip Rap	311	C.Y.	\$15.75	\$4,900
Sub Total					\$571,092
	Contingency (15%)				\$85,664
	Design and Construction Management (20%)				\$114,218
TOTAL CONSTRUCTION COST					\$770,975

PRELIMINARY ENGINEERS ESTIMATE FOR ALTERNATIVE A/B
7-7-06

ENGINEER'S PRELIMINARY ESTIMATE OF COST - SNOW CANYON DETENTION BASIN					
	Crest Length in feet=	500			
Item	Description	Quantity	Units	Unit Cost	Total
1	Mobilization /Demobilization (5% of const. costs)	1	L.S.	\$24,993.51	\$24,994
2	Foundation Excavation (3 feet deep under footprint)	3667	C.Y.	\$3.00	\$11,000
3	Cut Off Trench Excavation (6 feet deep under crest)	1111	C.Y.	\$3.75	\$4,167
4	Cut Off Trench Backfill	1111	C.Y.	\$6.50	\$7,222
5	Core Construction (extend under crest)	2593	C.Y.	\$6.50	\$16,852
6	Granular Shell Construction	14519	C.Y.	\$3.00	\$43,557
7	Rip Rap (upstream shell)	1556	C.Y.	\$15.75	\$24,500
8	Outlet Works	1	L.S.	\$15,750.00	\$15,750
9	Spillway	1	L.S.	\$9,450.00	\$9,450
10	Precast Box Culverts @ Tuachan Drive Convey the 25 yr Storm (2) 3'x9.5'x60'	127	C.Y.	\$450.00	\$57,150
11	Precast Box Culverts @ Center Street - Convey the 100 yr storm (2) 4' x 8.7' x100'	247	C.Y.	\$450.00	\$111,150
12	Asphalt Patch	2628	S.F.	\$5.00	\$13,140
13	End Walls	4	L.S.	\$11,000.00	\$44,000
14	Curb and Gutter	30	L.F.	\$12.50	\$375
15	Signing and Traffic Control	1	L.S.	\$25,000.00	\$25,000
16	Rip Rap Protection	1	L.S.	\$10,000.00	\$10,000
17	Removal of material	1	L.S.	\$5,000.00	\$5,000
18	Excavation of lower detention basins - including loading and hauling	15000	C.Y.	\$9.00	\$135,000
19	Rip Rap	311	C.Y.	\$15.75	\$4,900
Sub Total					\$563,206
	Contingency (15%)				\$84,481
	Design and Construction Management (20%)				\$112,641
TOTAL CONSTRUCTION COST					\$760,327