



Table 1
Construction Cost Estimates Summary

Major Basin	Basin 9		
Alternative	Conveyance	Detention	Local
Item	Total Cost (\$)	Total Cost (\$)	Total Cost (\$)
Channels	-	-	-
Culverts	2,625,440	\$1,746,000	111,200
Drop Structures	-	-	-
Detention Facilities	-	\$162,985	-
Bridges	-	-	-
Leeves	-	-	-
Sub-Total (Rounded)	\$2,625,000	\$1,909,000	\$111,000
30% Construction Contingency	\$787,500	\$572,700	\$33,300
15% Engineering Contingency	\$393,750	\$286,350	\$16,650
Total (Rounded)	\$3,806,000	\$2,768,000	\$161,000



**Table 7-1-CU
Culvert Cost Estimate
Major Basin 9 Alternative - Conveyance**

Design Point	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) ¹	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)
9-206	Oakcrest Dr.	Donkey Creek Tributary 902	RCP elliptical 38"x60"	459	CBC 6- 5'x3'	6	130	350	40,000	313,000
9-210	4-J Rd.	Donkey Creek Tributary 902	RCP 2-48"	669	CBC 2- 12'x5'	2	110	1,300	40,000	326,000
9-212	Lakeway Rd.	Donkey Creek Tributary 902	CMP 84"	419	Add RCP 42"	1	140	122	10,000	27,080
9-214	Skyline Rd. (SH 50)	Donkey Creek Tributary 902	CMP 36"	241	RCP 66"	1	262	280	10,000	83,360
9-217	Sewer from Vivian to Enzi		RCP 48"	246	CBC 10'x4'	1	2160	850	40,000	1,876,000

Sub-Total \$2,625,440

**Table 7-2-CU
Culvert Cost Estimate
Major Basin 9 Alternative - Detention**

Facility Number	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) ¹	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)
9-210	4-J Rd.	Donkey Creek Tributary 902	RCP 2-48"	725	CBC 2- 7'x5'	2	110	700	40,000	194,000
9-217	Sewer from Vivian to Enzi		RCP 48"	128	CBC 6'x4'	1	2160	700	40,000	1,552,000

Sub-Total \$1,746,000

**Table 7-2-CU
Culvert Cost Estimate
Major Basin 9 Alternative - Local**

Facility Number	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) ¹	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)
9-207	4-J Rd.	Donkey Creek Tributary 901	CMP 66"	230	RCP 66"	1	90	280	10,000	35,200
9-211	Lakeway Rd.	Donkey Creek Tributary 903	CMP 42"	122	RCP 2- 42"	2	140	122	10,000	44,160
9-215	4-J Rd.	Donkey Creek Tributary 902	CMP 24"	130	RCP 54"	1	120	182	10,000	31,840

Sub-Total \$111,200



Table 7-2-D
Detention Facility Construction Cost Estimates
Major Basin 9 Alternative Detention

Detention Name	Storage Volume (ac-ft)	Excavation (CY)	Excavation Cost (\$)	Embankment (CY)	Embankment Cost (\$)	Reveg. Area (SF)	Topsoil (CY)	Topsoil Cost at 4" Thick (\$)	Seeding Cost (\$)	Low Level Outlet Intake Structure/EA (\$)	Low Level Outlet Conveyance Structure Type	Length of Low Level Outlet Conveyance Structure (ft)	Cost Low Level Outlet Conveyance Structure (\$)	Low Level Outlet Conveyance End Treatment Type	Low Level Outlet Conveyance End Treatment Cost (\$)	Spillway Flow Rate (cfs)	Spillway Cost (\$)	Total Cost (\$)
Unit costs		<10,000CY : >10,000CY :	8.00 5.00		22.00			20.00	2400	3500								
Sutherland Estates	10	13,492	67,458	0	0	137,616	1,697	33,945	7,582	3,500	6' x 3' CBC	30	10,500	HW & WW	40,000	128	0	162,985
Sub-Total																		\$162,985