

Appendix 2-C

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NETWORK

CIP - Cost Information - Detail Report

Project No.: Valley Ranch 2033 Analysis
 Date Defined: 08/06/2004
 Serv. & Cont. Factor: 0.0
 Owner: / /
 Description: / /
 Reference No.: / /
 Sched. Start Date: / /
 Sched. Comp. Date: / /
 Actual Start Date: / /
 Actual Comp. Date: / /

Cost Information

Lateral	Up MH	Dn MH	Rel. Type	Dia.	Length	Slope	Std. Cost	\$ Factor	Const. Cost
	VR_PS	VR_FM	2 Replacement	0	384	0.00000	1,288,778	0.00	1,288,778
	VR_N-4	VR_N-3	2 Replacement	8	3697	0.01082	253,840	0.00	253,840
	VR_W-5	VR_W-4	2 Replacement	8	3698	0.00676	253,909	0.00	253,909
	VR_N-3	VR_N-2	2 Replacement	8	3412	0.00293	234,272	0.00	234,272
	VR_N-2	VR_N-1	2 Replacement	8	3853	0.00260	356,203	0.00	356,203
	VR_W-4	VR_W-3	2 Replacement	15	3815	0.00655	361,166	0.00	361,166
	VR_W-3	VR_W-2	2 Replacement	21	3734	0.00268	510,745	0.00	510,745
	VR_N-1	VR_W-1	2 Replacement	8	3706	0.01349	489,539	0.00	489,539
	VR_W-2	VR_W-1	2 Replacement	21	3676	0.00272	655,315	0.00	655,315
	VR_W-1	VR_PS	2 Replacement	21	2316	0.01727	316,788	0.00	316,788
	VR_FM	MISC-08	2 Replacement	16	26942	-0.0145	1,521,165	0.00	1,521,165
Project Totals							6,241,720		6,241,720
Total Planning Costs:									6,241,720

Page Totals

6,241,720

6,241,720

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Rept: CIP_COST

Model Name: BUILDOUT CHRISTIAN RANCH
CIP RELIEF SEWER COST DETAIL

Sewer Segment		Existing Sewer Data				Relief Sewer Data						Construction Cost	
Subsystem	Upstream Manhole	Downstream Manhole	Sewer Length (ft)	Slope (ft/ft)	Existing Diameter (in)	Existing Capacity (cfs)	Design Flow (cfs)	Percent Utilization (Q_tot/cap)	Relief Type	Average Depth (ft)	Pipe Diam (in)	Pipe Capacity (cfs)	Construction Cost (\$)
CIP Project:	CR-FM												
WWTP	CR_FM	MISC-08	19,408	0.00299	6	0.31	16.876	5,497.1	Replace	5.50	24	0.00	1,643,685
		Sub. Total:	19,408 (ft)									\$	1,643,685
CIP Project:	CR-NE												
CHRSTRNCH	CR_NE-1	CR_W-1	3,253	0.00615	6	0.44	5.273	1,198.4	Replace	10.00	18	8.23	332,877
CHRSTRNCH	CR_NE-2	CR_NE-1	2,989	0.02007	6	0.80	3.992	502.1	Replace	10.00	15	9.15	282,969
CHRSTRNCH	CR_NE-3	CR_NE-2	2,003	0.02996	6	0.97	2.675	275.5	Replace	10.00	12	6.16	164,744
CHRSTRNCH	CR_NE-4	CR_NE-3	2,275	0.01758	6	0.74	1.368	183.9	Replace	10.00	10	2.90	170,055
		Sub. Total:	10,520 (ft)									\$	950,645
CIP Project:	CR-NW												
CHRSTRNCH	CR_NW-1	CR_W-1	3,777	0.01059	6	0.58	5.264	912.3	Replace	10.00	18	10.81	386,496
CHRSTRNCH	CR_NW-2	CR_NW-1	2,773	0.00721	6	0.48	3.982	834.8	Replace	10.00	18	8.92	283,758
CHRSTRNCH	CR_NW-3	CR_NW-2	2,476	0.01616	6	0.71	2.677	375.5	Replace	10.00	12	4.52	203,648
CHRSTRNCH	CR_NW-4	CR_NW-3	2,186	0.03660	6	1.07	1.368	127.5	Replace	10.00	8	2.31	150,094
		Sub. Total:	11,212 (ft)									\$	1,023,996
CIP Project:	CR-PS												
CHRSTRNCH	CR_PS	CR_FM	187	0.00535	6	0.41	16.876	4,116.1	Replace	0.00	0	0.00	2,577,556
		Sub. Total:	187 (ft)									\$	2,577,556
CIP Project:	CR-S												
CHRSTRNCH	CR_S-1	CR_PS	2,938	0.00681	6	0.46	1.368	295.5	Replace	10.00	12	2.94	241,646
		Sub. Total:	2,938 (ft)									\$	241,646
CIP Project:	CR-W												
CHRSTRNCH	CR_W-1	CR_PS	2,272	0.00880	6	0.53	15.601	2,966.0	Replace	10.00	24	21.22	281,377

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Model Name: BUILDOUT CHRISTIAN RANCH
CIP RELIEF SEWER COST DETAIL

Sewer Segment		Existing Sewer Data					Relief Sewer Data						
Subsystem	Upstream Manhole	Downstream Manhole	Sewer Length (ft)	Slope (ft/ft)	Existing Diameter (in)	Existing Capacity (cfs)	Design Flow (cfs)	Percent Utilization (Q_tot/cap)	Relief Type	Average Depth (ft)	Pipe Diam (in)	Pipe Capacity (cfs)	Construction Cost (\$)
CHRSTRNCH	CR_W-2	CR_W-1	1,499	0.00667	6	0.46	3.982	869.4	Replace	10.00	18	8.58	153,392
CHRSTRNCH	CR_W-3	CR_W-2	1,588	0.00630	6	0.45	2,655	596.6	Replace	10.00	15	5.12	150,335
CHRSTRNCH	CR_W-4	CR_W-3	3,109	0.01930	6	0.78	1,368	175.4	Replace	10.00	10	3.04	232,395
		Sub. Total:	8,468										817,499
CIP Project:	VR-E												
VALLY RNCH	VR_E-1	VR_PS	1,960	0.03571	8	2.28	13,063	571.9	Replace	8.00	30	77.51	328,573
VALLY RNCH	VR_E-2	VR_E-1	5,208	0.00192	8	0.53	10,671	2,013.4	Replace	8.00	30	17.97	873,066
VALLY RNCH	VR_E-3	VR_E-2	2,784	0.00359	8	0.72	6,519	900.4	Replace	8.00	21	9.49	311,502
VALLY RNCH	VR_E-6	VR_E-5	1,275	0.00784	8	1.07	2,367	221.2	Replace	8.00	15	5.72	120,704
VALLY RNCH	VR_E-4	VR_E-3	3,042	0.00329	8	0.69	5,048	728.4	Replace	8.00	21	9.08	340,371
VALLY RNCH	VR_E-5	VR_E-4	3,186	0.02511	8	1.92	2,328	121.6	Replace	8.00	15	10.23	301,618
		Sub. Total:	17,455										2,275,834
CIP Project:	VR-FM												
WWTP	VR_FM	MISC-08	26,942	-0.00145	8	0.00	26,688	0.0	Replace	4.00	30	0.00	2,876,987
		Sub. Total:	26,942										2,876,987
CIP Project:	VR-N												
VALLY RNCH	VR_N-4	VR_N-3	3,697	0.01082	8	1.26	0,158	12.6	None	8.00	8	1.25	253,840
VALLY RNCH	VR_N-3	VR_N-2	3,412	0.00293	8	0.65	2,785	425.8	Replace	8.00	18	5.68	349,146
VALLY RNCH	VR_N-2	VR_N-1	3,853	0.00260	8	0.62	6,857	1,113.1	Replace	13.00	24	11.53	573,936
VALLY RNCH	VR_N-1	VR_W-1	3,706	0.01349	8	1.40	6,726	479.1	Replace	18.00	24	26.27	707,152
		Sub. Total:	14,668										1,884,074
CIP Project:	VR-PS												
VALLY RNCH	VR_PS	VR_FM	384	0.00000	8	0.00	26,688	0.0	Replace	0.00	0	0.00	3,314,000
		Sub. Total:	384										3,314,000

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Model Name: VALLEY RANCH BUILDOUT
 CIP RELIEF SEWER COST DETAIL

Sewer Segment		Existing Sewer Data				Relief Sewer Data								
Subsystem	Upstream Manhole	Downstream Manhole	Sewer Length (ft)	Slope (ft/ft)	Existing Diameter (in)	Existing Capacity (cfs)	Design Flow (cfs)	Percent Utilization (Q_tot/cap)	Relief Type	Average Depth (ft)	Pipe Diam (in)	Pipe Capacity (cfs)	Construction Cost (\$)	
CIP Project:	VR-W													
VALLY RNCH	VR_W-5	VR_W-4	3,698	0.00676	8	0.99	1,228	123.5	Replace	8.00	12	2.93	304,155	
VALLY RNCH	VR_W-4	VR_W-3	3,815	0.00655	8	0.98	3,772	385.7	Replace	8.00	18	8.50	390,386	
VALLY RNCH	VR_W-3	VR_W-2	3,734	0.00268	8	0.63	7,737	1,237.9	Replace	13.00	24	11.71	556,211	
VALLY RNCH	VR_W-2	VR_W-1	3,676	0.00272	8	0.63	8,737	1,386.8	Replace	18.00	24	11.80	701,428	
VALLY RNCH	VR_W-1	VR_PS	2,316	0.01727	8	1.59	14,490	912.5	Replace	13.00	24	29.73	344,986	
Sub. Total:			17,239	(ft)									2,297,166	
Total:			129,421	(ft)									\$	19,903,088