		Diameter (in)	_		
	Length	or	Construction	Mark-up	Capital
Project ID	(ft)	Facility Type	Cost	Costs	Project Cost
PDLA - A					
Project AAAA	900	24	\$218,072	\$198,428	\$416,500
Project AAA	550	36	\$150,293	\$139,241	\$289,534
Project AC	1000 & 275		\$561,078	\$431,835	\$992,913
Project AFA	2000	Channel	\$26,837	\$64,771	\$91,608
Project AFB	3600	Channel	\$66,071	\$97,093	\$163,164
•				•	\$1,953,719
PDLA - B					
Project B	3000	Channel	\$1,178,489	\$952,728	\$2,131,218
Project BB-1	1100	18	\$176,840	\$158,793	\$335,632
Project BB-2	1700	36	\$413,663	\$336,770	\$750,433
Project BCA	2900	24	\$590,376	\$478,237	\$1,068,613
Project BCB	925	30	\$256,921	\$211,175	\$468,096
Project BCC	925	36	\$279,735	\$232,244	\$511,979
Project BFA	1600	42	\$528,155	\$435,518	\$963,673
Project BFB-U		Channel	\$68,367	\$69,853	\$138,220
Project BFB-L	800	48	\$255,297	\$236,040	\$491,336
Project BF1	N/A	Sed Basin	\$223,827	\$189,156	\$412,983
Project BJ-1	270 & N/A	RCB & Sed Basin	\$276,784	\$223,735	\$500,519
Project BJB	N/A	Outlet Structure	\$77,952	\$75,080	\$153,032
Project BL-U	800	39	\$198,775	\$185,734	\$384,509
Project BL-L	20 & 125	90 & Bridge	\$652,887	\$1,163,214	\$1,816,101
Project BM	260	RCB	\$127,624	\$76,453	\$204,077
Project BNB	3600	84	\$1,876,136	\$1,546,690	\$3,422,826
Project BN	3600	Channel	\$170,056	\$186,617	\$356,673
Project BP	28 & 172	RCB	\$191,371	\$133,963	\$325,334
Project BQ	800	Spot Enhance	\$67,164	\$64,191	\$131,355
Project BR	150	66	\$94,281	\$86,492	\$180,773
					\$14,747,382
PDLA - C	100	DDIDOE	Φ4 00 7 440	04.054.400	# 0 F 40 F 40
Project C1	100	BRIDGE	\$1,667,416	\$1,851,100	\$3,518,516
Project C2	90	RCB	\$259,816	\$467,915	\$727,730
Project CA	600	Concrete Channel	\$191,064	\$338,338	\$529,402
PDLA - D					\$4,775,649
Project DBA	360	30	\$83,448	\$83,767	\$167,215
Project DBB	720	30	\$227,889	\$201,218	\$429,108
Project DFA	N/A	Treatment System	\$109,404	\$147,019	\$256,423
Project DQB	2500	36	\$402,175	\$343,667	\$745,842
Project DH	3111	Spot Enhance	\$114,417	\$118,395	\$232,812
Project DZ	100	RCB (2)	\$415,627	\$226,436	\$642,063
-		, ,	•	•	\$2,473,462

\$23,950,212



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION/ITEM DESCRIPTION

Project AAA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project i	AAA												
01 CE	NERAL REQUIREMENTS												
UT - GE	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	6	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$849.60	\$141.6 / Day		\$0.00	\$849.60
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,749.60		\$0.00	\$0.00	\$1,749.60
					70.00		******		¥1,11000		70.00	70.00	\$ 1,1 10.00
02 - SIT	ECONSTRUCTION												
02020	Underground marking tape												
02020 -	Underground tape, detectable aluminum, 2"	6	Clf	\$2.34	\$12.87	\$3.06	\$16.83	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$29.70
	onderground tape, detectable diaminant, 2			ψ2.0 .	Ψ.2.0.	ψοισσ	\$10.00	ψ0.00	ψο.σσ	ψο , σ	\$0.00	\$0.00	Ψ20.70
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	427	Sqyd	\$5.29	\$2,258.83	\$0.00	\$0.00	\$3.49	\$1,490.23	\$8.78 / Sqyd		\$0.00	\$3,749.06
	Asphalt disposal - hauling and disposal fee, 4" thick	427	Sqyd	\$1.00	\$427.00	\$4.70	\$2,006.90	\$1.32	\$563.64	\$7.02 / Sqyd	\$0.00	\$0.00	\$2,997.54
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1112	Lnft	\$0.48	\$533.76	\$0.07	\$77.84	\$0.26	\$289.12	\$0.81 / Lnft		\$0.00	\$900.72
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1112	Lnft	\$0.82	\$911.84	\$0.30	\$333.60	\$0.44	\$489.28	\$1.56 / Lnft	\$0.00	\$0.00	\$1,734.72
02210 -	Fine grade												
02310 -	Fine grade under asphalt	427	Sqyd	\$0.26	\$111.02	\$0.00	\$0.00	\$0.21	\$89.67	\$0.47 / Sqyd	\$0.00	\$0.00	\$200.69
	The grant and a spring		- 1,7 -	44.20	• • • • • • • • • • • • • • • • • • • •	40.00	70.00	**	400.0	+	Ţ	Ţc	V =0000
02320 -	Backfill												
	Backfill, dozer backfilling, trench, no compaction	853	Cuyd	\$0.80	\$682.40	\$0.00	\$0.00	\$1.28	\$1,091.84	\$2.08 / Cuyd	\$0.00	\$0.00	\$1,774.24
02340 -	Bedding												
020.0	Bedding, crushed stone 3/4" to 1/2"	143	Cuyd	\$8.47	\$1,211.21	\$32.03	\$4,580.29	\$1.89	\$270.27	\$42.39 / Cuyd	\$0.00	\$0.00	\$6,061.77
										-			
02360 -	Compaction				A.								
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	853 61	Cuyd Cuyd	\$1.72 \$2.93	\$1,467.16 \$179.02	\$0.00 \$0.00	\$0.00 \$0.00	\$0.41 \$0.78	\$349.73 \$47.66	\$2.13 / Cuyd \$3.71 / Cuyd		\$0.00 \$0.00	\$1,816.89 \$226.68
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	853	Cuyd	\$2.93	\$2,499.29	\$0.00	\$0.00	\$0.78	\$665.34	\$3.71 / Cuyd		\$0.00	\$3,164.63
			,-	4	Q =, 1001=0	Ų	70.00	40	70000	ÇON T, COŞE	Ţ,,	7333	Q 0,10 1100
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1140	Cuyd	\$1.95	\$2,223.00	\$0.00	\$0.00	\$1.42	\$1,618.80	\$3.37 / Cuyd	\$0.00	\$0.00	\$3,841.80
02460 -	Hauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	376	Cuyd	\$7.18	\$2,701.12	\$3.00	\$1,128.60	\$15.45	\$5,810.89	\$25.63 / Cuyd	\$0.00	\$0.00	\$9,640.61
	Loading Trucks, F.E. Loader, 3 C.Y	376	Cuyd	\$0.74	\$278.39	\$0.00	\$0.00	\$1.24	\$466.49	\$1.98 / Cuyd		\$0.00	\$744.88
	Disposal fee	19	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$1,975.05	\$1,975.05
02/100 -	Erosion control												
02430 -	Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1,536.00	\$1,536.00
02570 -	Catch basins or manholes												
	Cleanout	1	Each	\$1,019.00	\$1,019.00	\$1,560.00	\$1,560.00	\$249.00	\$249.00	\$2828 / Each		\$0.00	\$2,828.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	4	Each	\$602.88	\$2,411.52	\$472.04	\$1,888.16	\$0.00	\$0.00	\$1074.92 / Each	\$0.00	\$0.00	\$4,299.68
02600 -	Base course												
52000 -	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	427	Sqyd	\$0.80	\$341.60	\$8.06	\$3,441.62	\$1.02	\$435.54	\$9.88 / Sqyd	\$0.00	\$0.00	\$4,218.76
											ļ		

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	427	Sqyd	\$35.00	\$14,945.00	\$18.00	\$7,686.00	\$2.98	\$1,272.46	\$55.98 / Sqyd	\$0.00	\$0.00	\$23,903.46
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	550	Lnft	\$0.12	\$66.00	\$0.17	\$93.50	\$0.08	\$44.00	\$0.37 / Lnft	\$0.00	\$0.00	\$203.50
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	11	Each	\$250.00	\$2,750.00	\$0.00	\$0.00	\$35.00	\$385.00	\$285 / Each	\$0.00	\$0.00	\$3,135.00
	SITE CONSTRUCTION Total				\$37,030.03		\$22,813.34		\$15,628.96		\$0.00	\$8,389.05	\$83,861.38
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	550	Lnft	\$39.70	\$21,835.00	\$73.00	\$40,150.00	\$3.94	\$2,167.00	\$116.64 / Lnft	\$0.00	\$0.00	\$64,152.00
	Piping, water dist, conc pipe, gasket, 36" dia	55	Each	\$3.14	\$172.70	\$6.50	\$357.50	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$530.20
	MECHANICAL Total				\$22,007.70		\$40,507.50		\$2,167.00		\$0.00	\$0.00	\$64,682.20
	Project AAA Total	550	LF		\$59,037.73		\$63,320.84		\$19,545.56		\$0.00	\$8,389.05	\$150,293.18
	Grand Total				\$59,037.73		\$63,320.84		\$19,545.56		\$0.00	\$8,389.05	\$150,293.18

Category	Percent	Amount
Labor	39.28%	\$59,038
Material	42.13%	\$63,321
Equipment	13.00%	\$19,546
Subcontractor	0.00%	\$0
Other	5.58%	\$8,389
Net Costs		\$150,293
Labor Mark-up	18.00%	\$10,627
Material Mark-up	15.00%	\$9,498
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$2,932
Sales tax (material)	7.75%	\$4,907
Sales tax (equipment)	7.75%	\$1,515
Material Shipping & Handling	2.50%	\$1,583
Worker's Travel/Subsistence	0.10%	\$59
Subtotal		\$181,414
Contractor General Conditions	12.00%	\$21,770
Subtotal		\$203,184
Earthquake Insurance	0.10%	\$203
Subtotal		\$203,387
Construction Contingency	25.00%	\$50,847
Subtotal		\$254,234
Bldg Risk, Liability Auto Ins.	2.00%	\$5,085
Subtotal		\$259,318
Performance Bond	1.00%	\$2,593
Payment Bond	1.00%	\$2,593
Subtotal		\$264,505
Engineering Fee	10.00%	\$15,029
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$289,534



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AAAA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	AAAA												
01 - GF	NERAL REQUIREMENTS												
0, 02	Trench box, 7200 lbs, 6'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$1,699.20	\$141.6 / Day	\$0.00	\$0.00	\$1,699.20
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo		\$0.00	\$900.00
	GENERAL REQUIREMENTS Total			ψ0.00	\$0.00	ψ0.00	\$0.00	Ψ000.00	\$2,599.20	φοσογικο	\$0.00	\$0.00	\$2,599.20
00 017	E CONSTRUCTION												
02 - 311	E CONSTRUCTION												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	9	Clf	\$2.34	\$21.06	\$3.06	\$27.54	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$48.60
02060 -	Site demolition												
02000	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	600	Sqyd	\$5.29	\$3,174.00	\$0.00	\$0.00	\$3.49	\$2,094.00	\$8.78 / Sqyd	\$0.00	\$0.00	\$5,268.00
	Asphalt disposal - hauling and disposal fee, 4" thick	600	Sqyd	\$1.00	\$600.00	\$4.70	\$2,820.00	\$1.32	+ 1	\$7.02 / Sqyd		*	\$4,212.00
			- 4,7	*****	700000	V	V -,0-0100	****	7.02.00	**************************************	7,333	7000	* 1,= 1=10
02170 -	Saw cutting	4040	1 61	CO 40	¢000 70	#0.07	# 400.04	#0.00	0474.40	#0.04 / L = #1	#0.00	#0.00	Ĉ4 407 70
	Saw cutting, asphalt, up to 3" deep	1812	Lnft	\$0.48		\$0.07	\$126.84	\$0.26		\$0.81 / Lnft		*	\$1,467.72
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1812	Lnft	\$0.82	\$1,485.84	\$0.30	\$543.60	\$0.44	\$797.28	\$1.56 / Lnft	\$0.00	\$0.00	\$2,826.72
02310 -	Fine grade												
	Fine grade under asphalt	600	Sqyd	\$0.26	\$156.00	\$0.00	\$0.00	\$0.21	\$126.00	\$0.47 / Sqyd	\$0.00	\$0.00	\$282.00
02340 -	Bedding												
02340 -	Bedding, crushed stone 3/4" to 1/2"	421	Cuyd	\$8.47	\$3,565.02	\$32.03	\$13,481.43	\$1.89	\$795.50	\$42.39 / Cuyd	\$0.00	\$0.00	\$17,841.95
	Import backfill, crushed stone 3/4" to 1/2"	444	Cuyd	\$8.47	\$3,764.07	\$32.03	\$14,234.13	\$1.89		\$42.39 / Cuyd		*	\$18,838.12
02360 -	Compaction			A 0.00	0.105.10	00.00	# 0.00	A0.70	050.00	0074/0	00.00		00.17.10
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	67 362		\$2.93 \$2.93		\$0.00 \$0.00	\$0.00 \$0.00	\$0.78 \$0.78		\$3.71 / Cuyd \$3.71 / Cuyd			\$247.46 \$1,343.02
	Bedding Compaction, rammer tamper, 6 to 11 , 4 lins, 2 passes	302	Cuya	\$2.93	\$1,000.00	\$0.00	\$0.00	\$0.78	\$282.36	\$3.717 Cuyu	\$0.00	\$0.00	\$1,343.02
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	867	Cuyd	\$1.95	\$1,690.65	\$0.00	\$0.00	\$1.42	\$1,231.14	\$3.37 / Cuyd	\$0.00	\$0.00	\$2,921.79
02460 -	Hauling												
02 100	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI	867	Cuyd	\$7.18	\$6.225.06	\$3.00	\$2,601.00	\$15.45	\$13,392.00	\$25.63 / Cuyd	\$0.00	\$0.00	\$22,218,06
	Loading Trucks, F.E. Loader, 3 C.Y	867	Cuyd	\$0.74	4 - 7	\$0.00	\$0.00	\$1.24	4 - 1	\$1.98 / Cuyd		*	\$1,716.66
	Disposal fee	43	Ťrk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$4,551.75	\$4,551.75
02400	Erosion control												
02490 -	Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1.536.00	\$1,536.00
				******	70.00	Ç	70.00	40.00	70.00	* ***********************************	Y	V 1,000.00	V 1,00010
02570 -	Catch basins or manholes												
	CB or manholes, conc, precast, 4' ID, 6' deep	3	Each	\$549.75	\$1,649.25	\$1,050.00	\$3,150.00	\$148.32		\$1748.07 / Each	*	\$0.00	\$5,244.21
	Junction structure manholes, concrete, precast, 8' I.D., 8' deep,	1	Each	\$1,587.50	\$1,587.50	\$3,133.31	\$3,133.31	\$354.40		\$5075.21 / Each	\$0.00		\$5,075.21
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia Cleanout	3	Each	\$158.75		\$201.00	\$603.00	\$35.44 \$249.00	\$106.32		\$0.00 \$0.00	\$0.00 \$0.00	\$1,185.57
	CB or manholes, conc, slab tops, precast, 8" thick, 8' dia	1	Each Each	\$1,019.00 \$181.43	\$2,038.00 \$181.43	\$1,560.00 \$575.00	\$3,120.00 \$575.00	\$249.00 \$40.50	\$498.00 \$40.50	\$2828 / Each \$796.93 / Each	\$0.00	\$0.00	\$5,656.00 \$796.93
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	3	Each	\$162.82		\$260.00	\$780.00	\$36.35			\$0.00		\$1,377.51
	Catch bans or manholes, its and covs, my traffic, 24 diam, 400 lb. Catch bans or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb.	1	Each	\$423.33		\$860.00	\$860.00	\$94.51		\$1377.84 / Each		\$0.00	\$1,377.84
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$144.00	\$432.00	\$100.00	\$300.00	\$0.00	\$0.00	\$244 / Each	\$0.00		\$732.00
	CB or manholes, inverts, triple channel, conc	1	Each	\$240.32	\$240.32	\$134.00	\$134.00	\$0.00	\$0.00	\$374.32 / Each	\$0.00	\$0.00	\$374.32
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	6	Each	\$9.66		\$23.00	\$138.00	\$0.00		\$32.66 / Each	\$0.00		\$195.96

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	600	Sqyd	\$0.80	\$480.00	\$8.06	\$4,836.00	\$1.02	\$612.00	\$9.88 / Sqyd	\$0.00	\$0.00	\$5,928.00
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	600	Sqyd	\$35.00	\$21,000.00	\$18.00	\$10,800.00	\$2.98	\$1,788.00	\$55.98 / Sqyd	\$0.00	\$0.00	\$33,588.00
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	900	Lnft	\$0.12	\$108.00	\$0.17	\$153.00	\$0.08	\$72.00	\$0.37 / Lnft	\$0.00	\$0.00	\$333.00
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$250.00	\$4,500.00	\$0.00	\$0.00	\$35.00	\$630.00	\$285 / Each	\$0.00	\$0.00	\$5,130.00
	SITE CONSTRUCTION Total				\$57,111.63		\$62,416.85		\$26,698.16		\$0.00	\$10,965.75	\$157,192.39
03 - CO	NCRETE												
03330 -	Patching concrete												
	Pre-cast concrete wall penetration, non-shrink grout, 24" hole	8	Each	\$75.00	\$600.00	\$108.00	\$864.00	\$0.00	\$0.00	\$183 / Each	\$0.00	\$0.00	\$1,464.00
	CONCRETE Total				\$600.00		\$864.00		\$0.00		\$0.00	\$0.00	\$1,464.00
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	900	Lnft	\$24.50	\$22,050.00	\$35.00	\$31,500.00	\$2.84	\$2,556.00	\$62.34 / Lnft	\$0.00	\$0.00	\$56,106.00
	Piping, water dist, conc pipe, gasket, 24" dia	90	Each	\$3.14	\$282.60	\$4.75	\$427.50	\$0.00	\$0.00	\$7.89 / Each	\$0.00	\$0.00	\$710.10
	MECHANICAL Total				\$22,332.60		\$31,927.50		\$2,556.00		\$0.00	\$0.00	\$56,816.10
	Project AAAA Total				\$80,044.23		\$95,208.35		\$31,853.36		\$0.00	\$10,965.75	\$218,071.69
	Grand Total				\$80,044.23		\$95,208.35		\$31,853.36		\$0.00	\$10,965.75	\$218,071.69

Category	Percent	Amount
Labor	36.71%	\$80,044
Material	43.66%	\$95,208
Equipment	14.61%	\$31,853
Subcontractor	0.00%	\$0
Other	5.03%	\$10,966
Net Costs		\$218,072
Labor Mark-up	18.00%	\$14,408
Material Mark-up	15.00%	\$14,281
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,778
Sales tax (material)	7.75%	\$7,379
Sales tax (equipment)	7.75%	\$2,469
Material Shipping & Handling	2.50%	\$2,380
Worker's Travel/Subsistence	0.10%	\$80
Subtotal		\$263,846
Contractor General Conditions	12.00%	\$31,662
Subtotal		\$295,508
Earthquake Insurance	0.10%	\$296
Subtotal		\$295,804
Construction Contingency	25.00%	\$73,951
Subtotal		\$369,754
Bldg Risk, Liability Auto Ins.	2.00%	\$7,395
Subtotal		\$377,150
Performance Bond	1.00%	\$3,771
Payment Bond	1.00%	\$3,771
Subtotal		\$384,692
Engineering Fee	10.00%	\$21,807
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$416,500



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AC - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	AC .												
04 05	VEDAL DECLUDENTA												
01 - GEI	NERAL REQUIREMENTS												
01200 -	l General equipment rental												
01200 - 1	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$4,800.00	\$240 / Day	\$0.00	\$0.00	\$4,800.00
	Tronon box, coco ibo, ex 20		Day	Ψ0.00	ψ0.00	ψο.σσ	ψ0.00	Ψ2 10.00	ψ1,000.00	ψ2.107 Eαγ	ψ0.00	ψ0.00	ψ 1,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,800.00		\$0.00	\$0.00	\$4,800.00
02 - SITI	ECONSTRUCTION												
00000	Harden and a saddon to a												
02020 - 1	Underground marking tape	13	Clf	\$2.34	\$29.84	\$3.06	\$39.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$68.85
	Underground tape, detectable aluminum, 2"	13	CII	\$2.34	\$29.84	\$3.06	\$39.02	\$0.00	\$0.00	\$5.4 / CII	\$0.00	\$0.00	\$66.60
02060	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	436	Sqyd	\$5.29	\$2,305.54	\$0.00	\$0.00	\$3.49	\$1,521.05	\$8.78 / Sqyd	\$0.00	\$0.00	\$3,826.59
	Asphalt disposal - hauling and disposal fee, 4" thick	436	Sqyd	\$1.00		\$4.70	\$2,048.40	\$1.32				\$0.00	\$3,059.53
02170	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	2280	Lnft	\$0.48	\$1,094.40	\$0.07	\$159.60	\$0.26	\$592.80	\$0.81 / Lnft	\$0.00	\$0.00	\$1,846.80
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2280	Lnft	\$0.82	\$1,869.60	\$0.30	\$684.00	\$0.44	\$1,003.20	\$1.56 / Lnft	\$0.00	\$0.00	\$3,556.80
02320 - 1	Poolefill												
02320 - 1	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1568	Cuyd	\$0.80	\$1,254.32	\$0.00	\$0.00	\$1.28	\$2,006.91	\$2.08 / Cuyd	\$0.00	\$0.00	\$3,261.23
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	391	Cuyd	\$0.80		\$0.00	\$0.00	\$1.28				\$0.00	\$813.28
	Backini, dozer backining, trenen, up to 500 mau, no compaction,	331	Ouyu	Ψ0.00	ψ312.00	Ψ0.00	ψ0.00	Ψ1.20	ψ300.40	Ψ2.00 / Odyd	ψ0.00	Ψ0.00	ψ013.20
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	962	Cuyd	\$8.47	\$8,146.45	\$32.03	\$30,806.45	\$1.89	\$1,817.80	\$42.39 / Cuyd	\$0.00	\$0.00	\$40,770.70
02360 - 1	Compaction Compaction, trench, walk behind, vib. plate, bedding	827	Cuyd	\$1.90	\$1,571.49	\$0.00	\$0.00	\$0.51	\$421.82	\$2.41 / Cuyd	\$0.00	\$0.00	\$1,993.31
	Compaction, trench, walk behind, vib. plate, bedding	129	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$65.74			\$0.00	\$310.65
	Compaction, trench, walk behind, vib. plate, subgrade	1411	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$719.66		\$0.00	\$0.00	\$3,400.75
	Compaction, struct. or trench, walk behind, vib. plate subgrade	111	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$56.61	\$2.41 / Cuyd	\$0.00	\$0.00	\$267.51
	Compaction, struct. or trench, walk behind, vib. plate bedding	167	Cuyd	\$1.90	\$317.30	\$0.00	\$0.00	\$0.51	\$85.17	\$2.41 / Cuyd	\$0.00	\$0.00	\$402.47
	Compaction, struct. or trench, walk behind, vib. plate backfill channel	391	Cuyd	\$1.90	\$742.90	\$0.00	\$0.00	\$0.51	\$199.41	\$2.41 / Cuyd	\$0.00	\$0.00	\$942.31
02420 - 1	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	890	Cuyd	\$5.28	\$4,699.20	\$0.00	\$0.00	\$6.70	\$5,963.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$10,662.20
00.450	Formation to a fee												
02450 - 1	Excavating, trench Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	2518	Cuyd	\$1.95	\$4,910.30	\$0.00	\$0.00	\$1.42	\$3.575.70	\$3.37 / Cuyd	\$0.00	\$0.00	\$8.486.00
	Excavate trenen, no sitt of dewitg, 4-0 B, 1-1/2 OT flyd bac	2310	Ouyu	Ψ1.55	ψ+,510.30	ψ0.00	ψ0.00	Ψ1.42	ψ3,373.70	ψ3.37 / Odyd	ψ0.00	Ψ0.00	ψο,+ου.υυ
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1580	Cuyd	\$5.95	\$9,398.62	\$0.00	\$0.00	\$10.40	\$16,427.84	\$16.35 / Cuyd	\$0.00	\$0.00	\$25,826.46
	Hauling, LCY, no loading, 20 c.y. dump truck, 20 MI RT, 0.4 lds/hr,	499	Cuyd	\$5.95		\$0.00	\$0.00	\$10.40			\$0.00		\$8,158.65
	Loading Trucks, F.E. Loader, 3 C.Y	1580	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24	\$1,958.70		\$0.00	\$0.00	\$3,127.61
	Loading Trucks, F.E. Loader, 3 C.Y, channel	499	Cuyd	\$0.74	\$369.26	\$0.00	\$0.00	\$1.24	\$618.76	\$1.98 / Cuyd	\$0.00	\$0.00	\$988.02
02570 -	Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 6' l.D., 6' deep	6	Each	\$846.67	\$5,080.02	\$1,850.00	\$11,100.00	\$189.01	\$1,134.06	\$2885.68 / Each	\$0.00	\$0.00	\$17,314.08

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 - A	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	436	Sqyd	\$35.00	\$15,254.05	\$18.00	\$7,844.94	\$2.98	\$1,298.77	\$55.98 / Sqyd	\$0.00	\$0.00	\$24,397.76
	OUTE OOMOTPHOTION T				005 000 70		#50.000.44		0.45 700 00		00.00	00.00	0400 404 50
	SITE CONSTRUCTION Total				\$65,066.76		\$52,682.41		\$45,732.39		\$0.00	\$0.00	\$163,481.56
03 - CON	ICRETE												
00 00.													
03090 - F	Forms place, slab grade												
	Forms in place, SOG, edge forms, 7" to 12" high, wood, channel	1216	Sfca	\$3.99	\$4,851.84	\$0.80	\$972.80	\$0.00	\$0.00	\$4.79 / Sfca	\$0.00	\$0.00	\$5,824.64
00440													
03110 - F	Forms in place, walls	2400	Sfca	\$7.35	\$17,640.00	\$2.59	\$6,216.00	\$0.00	\$0.00	\$9.94 / Sfca	#0.00	#0.00	\$23,856.00
	Forms in place, walls, job built plyform, to 8' high, channel	2400	Sica	\$7.35	\$17,640.00	\$2.59	\$6,216.00	\$0.00	\$0.00	\$9.94 / Stca	\$0.00	\$0.00	\$23,856.00
03140 - V	Welded wire fabric												
	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	54	Csf	\$36.61	\$1,976.94	\$29.41	\$1,588.14	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$3,565.08
	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	12	Csf	\$36.61	\$439.32	\$29.41	\$352.92	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$792.24
03150 - 0	Concrete, ready mix	405		00.00	# 0.00	# 0.00		A 0.00	*	04000 / 0	00.00	A405.000.00	0.105.000.00
	Headwall	195 104	Cuyd Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$120.00	\$0.00 \$12,480.00	\$0.00 \$0.00	\$0.00 \$0.00			\$195,000.00 \$0.00	\$195,000.00
	Concrete, ready mix, regular weight, 4000 psi	104	Cuya	\$0.00	\$0.00	\$120.00	\$12,480.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$12,480.00
03170 - F	Placing concrete												
	Placing conc, incl vib, slab on grade, pumped, channel	59	Cuyd	\$17.45	\$1,029.55	\$0.00	\$0.00	\$5.56	\$328.04	\$23.01 / Cuyd	\$0.00	\$0.00	\$1,357.59
	Placing conc, incl vib, walls, pumped, channel	45	Cuyd	\$32.28	\$1,452.60	\$0.00	\$0.00	\$10.28	\$462.60	\$42.56 / Cuyd	\$0.00	\$0.00	\$1,915.20
	Finishing floors	4040	0.4	04.47	A4 400 70	#0.00	000.40	A 0.00	*	040404	00.00	00.00	04 450 00
	Finishing slabs, break ties, forms & patch voids Finishing floors, monolithic, screed, float, & hand trowel, channel	1216 4800	Sqft Saft	\$1.17 \$0.62	\$1,422.72 \$2,976.00	\$0.03 \$0.00	\$36.48 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$1,459.20 \$2,976.00
	Finishing hoors, monolitric, screed, hoat, & hand frower, channel	4600	Sqii	\$0.62	\$2,976.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.62 / Sqit	\$0.00	\$0.00	\$2,976.00
03190 - F	Finishing walls												
	Finishing slabs, break ties, forms & patch voids	2400	Sqft	\$1.17	\$2,808.00	\$0.03	\$72.00	\$0.00	\$0.00	\$1.2 / Sqft	\$0.00	\$0.00	\$2,880.00
	Finishing walls, carborundum rub, wet rub	1200	Sqft	\$2.13	\$2,556.00	\$0.03	\$36.00	\$0.00	\$0.00	\$2.16 / Sqft	\$0.00	\$0.00	\$2,592.00
												•	
	CONCRETE Total				\$37,152.97		\$21,754.34		\$790.64		\$0.00	\$195,000.00	\$254,697.95
15 - MEC	CHANICAL												
10 - WLC	INITIONE												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	275	Lnft	\$18.85	\$5,183.75	\$32.00	\$8,800.00	\$2.18	\$599.50	\$53.03 / Lnft	\$0.00	\$0.00	\$14,583.25
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1000	Lnft	\$39.70	\$39,700.00	\$73.00	\$73,000.00	\$3.94	\$3,940.00	\$116.64 / Lnft	\$0.00	\$0.00	\$116,640.00
15305 - (Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 36" pipe size	3	Each	\$791.91	\$2,375.73	\$1,500.00	\$4.500.00	\$0.00	\$0.00	\$2291.91 / Each	\$0.00	\$0.00	\$6.875.73
	Ciodinodio, iii typo, iiid top, xiid iivy diy, oo pipo sizo	3	Lacii	Ψ131.31	Ψ2,513.13	ψ1,500.00	ψ+,500.00	ψ0.00	φ0.00	ψ2201.01 / LαUI	Ψ0.00	ψ0.00	ψυ,υτ 3.73
	MECHANICAL Total				\$47,259.48		\$86,300.00		\$4,539.50		\$0.00	\$0.00	\$138,098.98
	Project AC Total				\$149,479.21		\$160,736.75		\$55,862.53		\$0.00	\$195,000.00	\$561,078.49
	Crowd Total				64.40.470.01		£466 700 T		¢55 000 50		***	£40E 000 00	\$E64.070.40
	Grand Total				\$149,479.21		\$160,736.75		\$55,862.53		\$0.00	\$195,000.00	\$561,078.49

Category	Percent	Amount
Labor	26.64%	\$149,479
Material	28.65%	\$160,737
Equipment	9.96%	\$55,863
Subcontractor	0.00%	\$0
Other	34.75%	\$195,000
Net Costs		\$561,078
Labor Mark-up	18.00%	\$26,906
Material Mark-up	15.00%	\$24,111
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$8,379
Sales tax (material)	7.75%	\$12,457
Sales tax (equipment)	7.75%	\$4,329
Material Shipping & Handling	2.50%	\$4,018
Worker's Travel/Subsistence	0.10%	\$149
Subtotal		\$641,429
Contractor General Conditions	12.00%	\$76,971
Subtotal		\$718,400
Earthquake Insurance	0.10%	\$718
Subtotal		\$719,119
Construction Contingency	20.00%	\$143,824
Subtotal		\$862,943
Bldg Risk, Liability Auto Ins.	2.00%	\$17,259
Subtotal		\$880,201
Performance Bond	1.00%	\$8,802
Payment Bond	1.00%	\$8,802
Subtotal		\$897,806
Engineering Fee	10.00%	\$56,108
Environmental Permitting (Lump Sum)	-	\$39,000
Total Estimate		\$992,913



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/1005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AFA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	FA												
02 - SITI	CONSTRUCTION												
02210 -	L Clear and grub												
02270	Clear & grub, brush, including stumps	0	Acre	\$1,759.00	\$703.60	\$0.00	\$0.00	\$3,686.00	\$1,474.40	\$5445 / Acre	\$0.00	\$0.00	\$2,178.00
02420 - 1	Excavating												
	Excavation, self prop scraper, 14 CY 1/4 push dozer	500	Cuyd	\$1.29	\$645.00	\$0.00	\$0.00	\$5.19	\$2,595.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$3,240.00
02360 -	 Compaction												
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	593	Cuyd	\$1.90	\$1,126.70	\$0.00	\$0.00	\$0.51	\$302.43	\$2.41 / Cuyd	\$0.00	\$0.00	\$1,429.13
02460 - 1	l Hauling												
	Fill, spread dumped material, by dozer, no compaction	593	Cuyd	\$0.72	\$426.96	\$0.00	\$0.00	\$1.15	\$681.95	\$1.87 / Cuyd	\$0.00	\$0.00	\$1,108.91
02470	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.32	\$526.72	\$1.85	\$3,045.10	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$3,571.82
02480 -	1 1												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
02490 - 1	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$8,423.98		\$9,101.10		\$6,697.78		\$0.00	\$2,614.00	\$26,836.86
	Project AFA Total				\$8,423.98		\$9,101.10		\$6,697.78		\$0.00	\$2,614.00	\$26,836.86
	Grand Total				\$8,423.98		\$9,101.10		\$6,697.78		\$0.00	\$2,614.00	\$26,836.86

Category	Percent	Amount
Labor	31.39%	\$8,424
Material	33.91%	\$9,101
Equipment	24.96%	\$6,698
Subcontractor	0.00%	\$0
Other	9.74%	\$2,614
Net Costs		\$26,837
Labor Mark-up	18.00%	\$1,516
Material Mark-up	15.00%	\$1,365
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,005
Sales tax (material)	7.75%	\$705
Sales tax (equipment)	7.75%	\$519
Material Shipping & Handling	2.50%	\$228
Worker's Travel/Subsistence	0.10%	\$8
Subtotal		\$32,183
Contractor General Conditions	12.00%	\$3,862
Subtotal		\$36,045
Earthquake Insurance	0.10%	\$36
Subtotal		\$36,081
Construction Contingency	25.00%	\$9,020
Subtotal		\$45,102
Bldg Risk, Liability Auto Ins.	2.00%	\$902
Subtotal		\$46,004
Performance Bond	1.00%	\$460
Payment Bond	1.00%	\$460
Subtotal		\$46,924
Engineering Fee	10.00%	\$2,684
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$91,608



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project AFB - Located in Basin A

Item	Item Description Quar	tity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	AFB												
00 017	TE CONSTRUCTION												
02 - 511	E CONSTRUCTION												
02210 -	Clear and grub												
	Clear & grub, brush, including stumps	1	Acre	\$1,759.00	\$1,055.40	\$0.00	\$0.00	\$3,686.00	\$2,211.60	\$5445 / Acre	\$0.00	\$0.00	\$3,267.00
02420 -	Excavating			.					^				
	Excavation, self prop scraper, 14 CY 1/4 push dozer	500	Cuyd	\$1.29	\$1,935.00	\$0.00	\$0.00	\$5.19	\$7,785.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$9,720.00
02360 -	Compaction												
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	650	Cuyd	\$1.90	\$3,135.00	\$0.00	\$0.00	\$0.51	\$841.50	\$2.41 / Cuyd	\$0.00	\$0.00	\$3,976.50
02460 -	Hauling												
	Disposal fee	53	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$105 / Trk			\$5,601.75
		067	Cuyd	\$4.66	\$4,972.22	\$0.00	\$0.00	\$9.74		\$14.4 / Cuyd			\$15,364.80
		067	Cuyd	\$0.74	\$789.58	\$0.00	\$0.00	\$1.24		\$1.98 / Cuyd		\$0.00	\$2,112.66
	Fill, spread dumped material, by dozer, no compaction	650	Cuyd	\$0.72	\$1,188.00	\$0.00	\$0.00	\$1.15	\$1,897.50	\$1.87 / Cuyd	\$0.00	\$0.00	\$3,085.50
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	646	Sqyd	\$0.32	\$526.72	\$1.85	\$3,045.10	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$3,571.82
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	132	Cuyd	\$49.95	\$6,593.40	\$60.56	\$7,993.92	\$16.44	\$2,170.08	\$126.95 / Cuyd	\$0.00	\$0.00	\$16,757.40
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$20,195.32		\$11.039.02		\$26.621.34		\$0.00	\$8,215.75	\$66,071.43
							, , , , , , , , , , , , , , , , , , , ,		, ,,,				
	Project AFB Total				\$20,195.32		\$11,039.02		\$26,621.34		\$0.00	\$8,215.75	\$66,071.43
	Grand Total				\$20,195.32		\$11,039.02		\$26,621.34		\$0.00	\$8,215.75	\$66,071.43

Category	Percent	Amount
Labor	30.57%	\$20,195
Material	16.71%	\$11,039
Equipment	40.29%	\$26,621
Subcontractor	0.00%	\$0
Other	12.43%	\$8,216
Net Costs		\$66,071
Labor Mark-up	18.00%	\$3,635
Material Mark-up	15.00%	\$1,656
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,993
Sales tax (material)	7.75%	\$856
Sales tax (equipment)	7.75%	\$2,063
Material Shipping & Handling	2.50%	\$276
Worker's Travel/Subsistence	0.10%	\$20
Subtotal		\$78,570
Contractor General Conditions	12.00%	\$9,428
Subtotal		\$87,999
Earthquake Insurance	0.10%	\$88
Subtotal		\$88,087
Construction Contingency	25.00%	\$22,022
Subtotal		\$110,109
Bldg Risk, Liability Auto Ins.	2.00%	\$2,202
Subtotal		\$112,311
Performance Bond	1.00%	\$1,123
Payment Bond	1.00%	\$1,123
Subtotal		\$114,557
Engineering Fee	10.00%	\$6,607
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$163,164



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project B - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	3												
02 - SITE	CONSTRUCTION												
02060 - 3	Site demolition												
	Site dml, conc7" to 24" thick, rod reinforced	25	Cuyd	\$92.56	\$2,314.00	\$0.00	\$0.00	\$61.09	\$1,527.25	\$153.65 / Cuyd	\$0.00	\$0.00	\$3,841.25
00040	Clear and grub												
02210-0	Clear & grub, brush, including stumps	2	Acre	\$1,759.00	\$3,518.00	\$0.00	\$0.00	\$3,686.00	\$7,372.00	\$5445 / Acre	\$0.00	\$0.00	\$10.890.00
	Clear & grub, brush, including stumps		Acre	\$1,759.00	\$3,316.00	\$0.00	\$0.00	\$3,000.00	\$1,312.00	\$5445 / ACIE	\$0.00	\$0.00	\$10,090.00
02420 - 1	Excavating, structural												
02120	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	36000	Cuyd	\$5.28	\$190,080.00	\$0.00	\$0.00	\$6.70	\$241,200.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$431,280.00
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	1000	Cuyd	\$5.28	\$5,280.00	\$0.00	\$0.00		\$6,700.00			*	\$11,980.00
	<i>g</i> , , , , , , , <i>y</i> , , ,		,	*	, , ,	,	*		, , , , , , , , , , , , , , , , , , , ,	, ,			, , , , , , , , , , , , , , , , , , , ,
02430 - 1	Fill												
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$0.72	\$1,008.00	\$0.00	\$0.00	\$1.15	\$1,610.00	\$1.87 / Cuyd	\$0.00	\$0.00	\$2,618.00
02460 - I													
	Disposal fee	2	Trk	\$0.00	\$0.00	\$0.00	\$0.00		70.00				\$210.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	25	Cuyd	\$5.95	\$148.75	\$0.00	\$0.00						\$408.75
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	30000	Cuyd	\$5.95	\$178,500.00	\$0.00	\$0.00		\$312,000.00			*	\$490,500.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2456	Cuyd	\$5.95		\$0.00	\$0.00		* -,				\$40,155.60
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1400	Cuyd	\$5.95		\$0.00	\$0.00		\$14,560.00				\$22,890.00
	Loading Trucks, F.E. Loader, 3 C.Y	26000	Cuyd	\$0.74	\$19,240.00	\$0.00	\$0.00	•	\$32,240.00			*	\$51,480.00
	Loading Trucks, F.E. Loader, 3 C.Y, concrete Loading Trucks, F.E. Loader, 3 C.Y	23 1400	Cuyd	\$0.74 \$0.74	\$17.02 \$1.036.00	\$0.00 \$0.00	\$0.00 \$0.00	•	\$28.52 \$1.736.00				\$45.54 \$2,772.00
	Loading Trucks, F.E. Loader, 3 C.Y	2456	Cuyd Cuyd	\$0.74	\$1,817.44	\$0.00	\$0.00	•	\$3,045.44			*	\$4,862.88
	Loading Trucks, F.E. Loader, 3 C.T	2430	Cuyu	\$0.74	Ф1,017. 44	\$0.00	\$0.00	Φ1.24	\$3,043.44	\$1.96 / Cuyu	\$0.00	\$0.00	Ψ4,002.00
02470 - 1	l Soil stabilization												
02470 - 0	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	507	Sqyd	\$0.32	\$162.24	\$1.85	\$937.95	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$1,100.19
	Con stabilization, gootokiilo tabrio, moveri, mibil, coo ibi tenene et	00.	Oqyu	Ψ0.02	Ų102.2·	ψ1.00	ψουου	ψο.σσ	Ψ0.00	ψ2, σαγα	ψ0.00	φοισσ	ψ1,100.10
02480 - 1	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	618	Cuyd	\$49.95	\$30,869.10	\$60.56	\$37,426.08	\$16.44	\$10,159.92	\$126.95 / Cuyd	\$0.00	\$0.00	\$78,455.10
	7 170			·		·	· · ·						
	SITE CONSTRUCTION Total				\$456,933.75		\$38,364.03		\$657,981.53		\$0.00	\$210.00	\$1,153,489.31
03 - COI	NCRETE												
03150 - (Concrete, ready mix				***		***		*				
	Retaining wall	25	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$25,000.00	\$25,000.00
	COMODETE T- (-)				\$0.00		\$0.00		\$0.00		60.00	\$25,000,00	PDE 000 00
	CONCRETE Total				\$0.00	+	\$0.00		\$0.00		\$0.00	\$25,000.00	\$25,000.00
	Project B Total				\$456.933.75		\$38.364.03		\$657,981.53		\$0.00	\$25,210.00	\$1,178,489.31
	Project B Total				φ 4 00,933.75		φ30,30 4 .03		φυυτ,9ο1.53		φυ.υυ	φ20,210.00	φ1,170, 4 09.31
	Grand Total				\$456,933.75		\$38,364.03		\$657,981.53		\$0.00	\$25,210.00	\$1,178,489.31

Category	Percent	Amount
Labor	38.77%	\$456,934
Material	3.26%	\$38,364
Equipment	55.83%	\$657,982
Subcontractor	0.00%	\$0
Other	2.14%	\$25,210
Net Costs		\$1,178,489
Labor Mark-up	18.00%	\$82,248
Material Mark-up	15.00%	\$5,755
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$98,697
Sales tax (material)	7.75%	\$2,973
Sales tax (equipment)	7.75%	\$50,994
Material Shipping & Handling	2.50%	\$959
Worker's Travel/Subsistence	0.10%	\$457
Subtotal		\$1,420,572
Contractor General Conditions	12.00%	\$170,469
Subtotal		\$1,591,041
Earthquake Insurance	0.10%	\$1,591
Subtotal		\$1,592,632
Construction Contingency	20.00%	\$318,526
Subtotal		\$1,911,158
Bldg Risk, Liability Auto Ins.	2.00%	\$38,223
Subtotal		\$1,949,381
Performance Bond	1.00%	\$19,494
Payment Bond	1.00%	\$19,494
Subtotal		\$1,988,369
Engineering Fee	10.00%	\$117,849
Environmental Permitting (Lump Sum)	-	\$25,000
Total Estimate		\$2,131,218



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BB-1

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BB-1												
01 - GEI	NERAL REQUIREMENTS												
UT - GLI	NEIVAE REGOINEMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	25	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$3,540.00	\$141.6 / Day	\$0.00	\$0.00	\$3,540.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,440.00		\$0.00	\$0.00	\$4,440.00
02 - SIT	E CONSTRUCTION												
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	11	Clf	\$2.34	\$25.74	\$3.06	\$33.66	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$59.40
					·	Ì	·	•				·	
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	672	Sqyd	\$5.29	\$3,554.88	\$0.00	\$0.00	\$3.49	\$2,345.28	\$8.78 / Sqyd		\$0.00	\$5,900.16
	Asphalt disposal - hauling and disposal fee, 4" thick	672	Sqyd	\$1.00	\$672.00	\$4.70	\$3,158.40	\$1.32	\$887.04	\$7.02 / Sqyd	\$0.00	\$0.00	\$4,717.44
00470	O												
02170 -	Saw cutting Saw cutting, asphalt, up to 3" deep	2211	Lnft	\$0.48	\$1,061.28	\$0.07	\$154.77	\$0.26	\$574.86	\$0.81 / Lnft	\$0.00	\$0.00	\$1,790.91
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2211	Lnft	\$0.46	\$1,813.02	\$0.07	\$663.30	\$0.26	\$972.84	\$1.56 / Lnft		\$0.00	\$3,449.16
	daw cutting, asprian, anter 3 deep, each addriner or depth	2211	Lint	Ψ0.02	ψ1,013.02	ψ0.30	ψ003.30	ψυ.++	Ψ312.04	ψ1.50 / Lint	ψ0.00	ψ0.00	ψ3,443.10
02310 -	Fine grade												
	Fine grade, fine grade granular base for sidewalks and bikeways	100	Sqyd	\$1.06	\$106.00	\$0.00	\$0.00	\$0.15	\$15.00	\$1.21 / Sqyd	\$0.00	\$0.00	\$121.00
02320 -	Backfill												
	Backfill, dozer backfilling, trench, no compaction	1160	Cuyd	\$0.80	\$928.00	\$0.00	\$0.00	\$1.28	\$1,484.80	\$2.08 / Cuyd	\$0.00	\$0.00	\$2,412.80
00040	De della co												
02340 -	Bedding Bedding, crushed stone 3/4" to 1/2"	224	C	CO 47	\$1,897.28	\$32.03	\$7,174.72	\$1.89	\$423.36	¢42.20 / Cd	\$0.00	\$0.00	\$9,495.36
	Bedding, crushed stone 3/4 to 1/2	224	Cuyd	\$8.47	\$1,097.20	\$32.03	\$7,174.72	\$1.09	\$423.30	\$42.39 / Cuyd	\$0.00	\$0.00	\$9,495.30
02360 -	Compaction												
02000	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	1160	Cuyd	\$1.90	\$2,204.00	\$0.00	\$0.00	\$0.51	\$591.60	\$2.41 / Cuyd	\$0.00	\$0.00	\$2,795.60
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1160	Cuyd	\$2.93	\$3,398.80	\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd			\$4,303.60
										•			
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1456	Cuyd	\$1.95	\$2,839.20	\$0.00	\$0.00	\$1.42	\$2,067.52	\$3.37 / Cuyd	\$0.00	\$0.00	\$4,906.72
02460 -	Hauling	000	01	0 E 0E	£4.704.00	#0.00	#0.00	C40.40	¢0.070.40	£40.05 / O	#0.00	# 0.00	£4,000,00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Loading Trucks, F.E. Loader, 3 C.Y	296 296	Cuyd Cuyd	\$5.95 \$0.74	\$1,761.20 \$219.04	\$0.00 \$0.00	\$0.00 \$0.00	\$10.40 \$1.24	\$3,078.40 \$367.04	\$16.35 / Cuyd \$1.98 / Cuyd		\$0.00 \$0.00	\$4,839.60 \$586.08
	Disposal fee	15	Trk	\$0.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.96 / Cuyu			\$1,575.00
		.5	111	ψ0.00	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ100 / TIK	Ψ0.00	\$1,070.00	ψ1,070.00
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes											1	
	Cleanout	2	Each	\$1,019.00	\$2,038.00	\$1,560.00	\$3,120.00	\$249.00	\$498.00	\$2828 / Each	\$0.00	\$0.00	\$5,656.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	2	Each	\$602.88	\$1,205.76	\$472.04	\$944.08	\$0.00	\$0.00	\$1074.92 / Each	\$0.00		\$2,149.84
	Junction Structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$6,680.00
02610 -	Asphalt concrete pavement												
32070-	Asphaltic conc pavement, pavement replacement over trench, 4"	672	Sqyd	\$35.00	\$23,520.00	\$18.00	\$12,096.00	\$2.98	\$2,002.56	\$55.98 / Sqyd	\$0.00	\$0.00	\$37,618.56
	, , , , , , , , , , , , , , , , , , , ,		- 7,5 ∞	,	,	,	, -,	+50	, _,		72.00	Ţ2.3 0	
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1100	Lnft	\$0.12	\$132.00	\$0.17	\$187.00	\$0.08	\$88.00	\$0.37 / Lnft	\$0.00	\$0.00	\$407.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	22	Each	\$250.00	\$5,500.00	\$0.00	\$0.00	\$35.00	\$770.00	\$285 / Each	\$0.00	\$0.00	\$6,270.00
	SITE CONSTRUCTION Total				\$53,556.20		\$33,531.93		\$17,071.10		\$0.00	\$9,067.00	\$113,226.23
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	1100	Lnft	\$18.85	\$20,735.00	\$32.00	\$35,200.00	\$2.18	\$2,398.00	\$53.03 / Lnft	\$0.00	\$0.00	\$58,333.00
	Piping, water dist, conc pipe, gasket, 18" dia	110	Each	\$3.14	\$345.40	\$4.50	\$495.00	\$0.00	\$0.00	\$7.64 / Each	\$0.00	\$0.00	\$840.40
	MECHANICAL Total				\$21,080.40		\$35,695.00		\$2,398.00		\$0.00	\$0.00	\$59,173.40
	Project BB-1 Total				\$74,636.60		\$69,226.93		\$23,909.10		\$0.00	\$9,067.00	\$176,839.63
	Grand Total				\$74,636.60		\$69,226.93		\$23,909.10		\$0.00	\$9,067.00	\$176,839.63

Category	Percent	Amount
Labor	42.21%	\$74,637
Material	39.15%	\$69,227
Equipment	13.52%	\$23,909
Subcontractor	0.00%	\$0
Other	5.13%	\$9,067
Net Costs		\$176,840
Labor Mark-up	18.00%	\$13,435
Material Mark-up	15.00%	\$10,384
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,586
Sales tax (material)	7.75%	\$5,365
Sales tax (equipment)	7.75%	\$1,853
Material Shipping & Handling	2.50%	\$1,731
Worker's Travel/Subsistence	0.10%	\$75
Subtotal		\$213,268
Contractor General Conditions	12.00%	\$25,592
Subtotal		\$238,860
Earthquake Insurance	0.10%	\$239
Subtotal		\$239,099
Construction Contingency	25.00%	\$59,775
Subtotal		\$298,874
Bldg Risk, Liability Auto Ins.	2.00%	\$5,977
Subtotal		\$304,851
Performance Bond	1.00%	\$3,049
Payment Bond	1.00%	\$3,049
Subtotal		\$310,948
Engineering Fee	10.00%	\$17,684
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$335,632



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BB-2

Item	Item Description (Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	3B-2												
01 CE	NERAL REQUIREMENTS												
UI - GEI	VERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	23	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$3,256.80	\$141.6 / Day	\$0.00	\$0.00	\$3,256.80
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,156.80		\$0.00	\$0.00	\$4,156.80
00 0/T	5 CONICTRUCTION												
	E CONSTRUCTION Underground marking tape												
02020 -	Underground tape, detectable aluminum, 2"	17	Clf	\$2.34	\$39.78	\$3.06	\$52.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$91.80
	Onderground tape, detectable aluminum, 2	- 17	Oii	Ψ2.54	ψ33.70	ψ3.00	Ψ02.02	ψ0.00	ψ0.00	ψ3.47 ΟΠ	ψ0.00	ψ0.00	ψ31.00
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1322	Sqyd	\$5.29	\$6,993.38	\$0.00	\$0.00	\$3.49	\$4,613.78	\$8.78 / Sqyd	\$0.00	\$0.00	\$11,607.16
	Asphalt disposal - hauling and disposal fee, 4" thick	1322	Sqyd	\$1.00	\$1,322.00	\$4.70	\$6,213.40	\$1.32	\$1,745.04	\$7.02 / Sqyd	\$0.00	\$0.00	\$9,280.44
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	3414	Lnft	\$0.48	\$1,638.72	\$0.07	\$238.98	\$0.26	\$887.64	\$0.81 / Lnft		\$0.00	\$2,765.34
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3414	Lnft	\$0.82	\$2,799.48	\$0.30	\$1,024.20	\$0.44	\$1,502.16	\$1.56 / Lnft	\$0.00	\$0.00	\$5,325.84
00040	Fine areada												
02310 -	Fine grade Fine grade, fine grade granular base for sidewalks and bikeways	125	Sqyd	\$1.06	\$132.50	\$0.00	\$0.00	\$0.15	\$18.75	\$1.21 / Sqyd	\$0.00	\$0.00	\$151.25
	The grade, line grade grandal base for sidewarks and bikeways	123	Sqyu	φ1.00	\$132.30	\$0.00	φυ.υυ	φυ. 13	\$10.75	\$1.217 Sqyu	\$0.00	\$0.00	\$131.23
02320 -	Backfill												
	Backfill, dozer backfilling, trench, no compaction	2640	Cuyd	\$0.80	\$2,112.00	\$0.00	\$0.00	\$1.28	\$3,379.20	\$2.08 / Cuyd	\$0.00	\$0.00	\$5,491.20
										-			
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	441	Cuyd	\$8.47	\$3,735.27	\$32.03	\$14,125.23	\$1.89	\$833.49	\$42.39 / Cuyd	\$0.00	\$0.00	\$18,693.99
20000													
02360 -	Compaction	2640	Cund	\$1.90	\$5.016.00	\$0.00	\$0.00	\$0.51	\$1,346.40	\$2.41 / Cund	\$0.00	\$0.00	\$6,362.40
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	2640 2640	Cuyd Cuyd	\$1.90	\$5,016.00 \$7,735.20	\$0.00	\$0.00	\$0.51		\$2.41 / Cuyd \$3.71 / Cuyd			\$9,794.40
	Compaction, familier tamper, 0 to 11 , 4 lins, 2 passes	2040	Cuyu	φ2.93	φ1,133.20	φ0.00	φυ.υυ	φυ.70	\$2,039.20	\$3.717 Cuyu	\$0.00	\$0.00	\$3,734.40
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	3526	Cuyd	\$1.95	\$6,875.70	\$0.00	\$0.00	\$1.42	\$5,006.92	\$3.37 / Cuyd	\$0.00	\$0.00	\$11,882.62
			1			·	·	•				·	
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	886	Cuyd	\$5.95	\$5,271.70	\$0.00	\$0.00	\$10.40	\$9,214.40	\$16.35 / Cuyd	\$0.00	\$0.00	\$14,486.10
	Loading Trucks, F.E. Loader, 3 C.Y	886	Cuyd	\$0.74	\$655.64	\$0.00	\$0.00	\$1.24	\$1,098.64	\$1.98 / Cuyd			\$1,754.28
	Disposal fee	43	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$4,515.00	\$4,515.00
00.400	Foreign control												
02490 -	Erosion control	1	Loum	ድ ስ ስስ	00.00	00.00	\$0.00	<u></u> የሰ ሰሰ	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	Erosion control allowance:	- 1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2014 / LSum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes												
32070	Cleanout	2	Each	\$1,019.00	\$2,038.00	\$1,560.00	\$3,120.00	\$249.00	\$498.00	\$2828 / Each	\$0.00	\$0.00	\$5,656.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	3	Each	\$602.88	\$1,808.64	\$472.04	\$1,416.12	\$0.00	\$0.00	\$1074.92 / Each	\$0.00		\$3,224.76
	Junction Structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	\$6680 / Each			\$6,680.00
02610 -	Asphalt concrete pavement				-		-						·
	Asphaltic conc pavement, pavement replacement over trench, 4"	1322	Sqyd	\$35.00	\$46,270.00	\$18.00	\$23,796.00	\$2.98	\$3,939.56	\$55.98 / Sqyd	\$0.00	\$0.00	\$74,005.56
000:-													
02640 -	Lines on pav't			00.1-	***	* 0.4=	****	^	* 100 5 5	#0.57 / 1	**	* 0 5 -	****
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1700	Lnft	\$0.12	\$204.00	\$0.17	\$289.00	\$0.08	\$136.00	\$0.37 / Lnft	\$0.00	\$0.00	\$629.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	34	Each	\$250.00	\$8,500.00	\$0.00	\$0.00	\$35.00	\$1,190.00	\$285 / Each	\$0.00	\$0.00	\$9,690.00
	SITE CONSTRUCTION Total				\$103,828.01		\$56,274.95		\$37,469.18		\$0.00	\$12,007.00	\$209,579.14
15 - ME	CHANICAL												
15090 -	l Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1700	Lnft	\$39.70	\$67,490.00	\$73.00	\$124,100.00	\$3.94	\$6,698.00	\$116.64 / Lnft	\$0.00	\$0.00	\$198,288.00
	Piping, water dist, conc pipe, gasket, 36" dia	170	Each	\$3.14	\$533.80	\$6.50	\$1,105.00	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$1,638.80
	MECHANICAL Total				\$68,023.80		\$125,205.00		\$6,698.00		\$0.00	\$0.00	\$199,926.80
	Project BB-2 Total				\$171,851.81		\$181,479.95		\$48,323.98		\$0.00	\$12,007.00	\$413,662.74
	Grand Total				\$171,851.81		\$181,479.95		\$48,323.98	·	\$0.00	\$12,007.00	\$413,662.74

Category	Percent	Amount
Labor	41.54%	\$171,852
Material	43.87%	\$181,480
Equipment	11.68%	\$48,324
Subcontractor	0.00%	\$0
Other	2.90%	\$12,007
Net Costs		\$413,663
Labor Mark-up	18.00%	\$30,933
Material Mark-up	15.00%	\$27,222
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$7,249
Sales tax (material)	7.75%	\$14,065
Sales tax (equipment)	7.75%	\$3,745
Material Shipping & Handling	2.50%	\$4,537
Worker's Travel/Subsistence	0.10%	\$172
Subtotal		\$501,585
Contractor General Conditions	12.00%	\$60,190
Subtotal		\$561,776
Earthquake Insurance	0.10%	\$562
Subtotal		\$562,337
Construction Contingency	20.00%	\$112,467
Subtotal		\$674,805
Bldg Risk, Liability Auto Ins.	2.00%	\$13,496
Subtotal		\$688,301
Performance Bond	1.00%	\$6,883
Payment Bond	1.00%	\$6,883
Subtotal		\$702,067
Engineering Fee	10.00%	\$41,366
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$750,433



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 4/18/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BCA - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	CA												
01 - GF	 NERAL REQUIREMENTS												
01 - GE	NEI NE REGOINEMENTO												-
	Trench box, 9500 lbs, 8'x 20'	40	Day	\$0.00		\$0.00	\$0.00	\$240.00		\$240 / Day	\$0.00	\$0.00	\$9,600.00
	Trench Plates allowance	2	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$1,800.00	\$900 / Mo	\$0.00	\$0.00	\$1,800.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$11,400.00		\$0.00	\$0.00	\$11,400.00
							•		, , , , , , , , , , , , , , , , , , , ,				
02 - SITI	E CONSTRUCTION												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	29	Clf	\$2.34	\$67.86	\$3.06	\$88.74	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$156.60
02060 -	Site demolition	4000	0	* F 00	©0.550.74	# 0.00	\$0.00	CO 40	#0.000.04	f0.70 / 0d	# 0.00	#0.00	\$45.050.00
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick Asphalt disposal - hauling and disposal fee, 4" thick	1806 1806	Sqyd Sqyd	\$5.29 \$1.00		\$0.00 \$4.70	\$0.00 \$8,488.20	\$3.49 \$1.32		\$8.78 / Sqyd \$7.02 / Sqyd	\$0.00 \$0.00	\$0.00 \$0.00	\$15,856.68 \$12,678.12
	Aspiral disposal - flauling and disposal fee, 4 tillex	1000	Sqyu	ψ1.00	\$1,000.00	φ4.70	ψ0,400.20	ψ1.32	Ψ2,303.92	φ1.02 / 3qyu	φυ.υυ	φ0.00	\$12,070.12
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	6600	Lnft	\$0.48		\$0.07	\$462.00	\$0.26		\$0.81 / Lnft	\$0.00	\$0.00	\$5,346.00
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	6600	Lnft	\$0.82	\$5,412.00	\$0.30	\$1,980.00	\$0.44	\$2,904.00	\$1.56 / Lnft	\$0.00	\$0.00	\$10,296.00
02320 -	Rackfill												
02320 -	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1173	Cuyd	\$0.80	\$938.40	\$0.00	\$0.00	\$1.28	\$1,501.44	\$2.08 / Cuyd	\$0.00	\$0.00	\$2,439.84
	3, , . ,		,	*	•		•	· · ·	, , , , , , , , , , , , , , , , , , , ,	,	•		
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	1970	Cuyd	\$8.47	\$16,685.90	\$32.03	\$63,099.10	\$1.89	\$3,723.30	\$42.39 / Cuyd	\$0.00	\$0.00	\$83,508.30
02360 -	Compaction												
02000	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	232	Cuyd	\$1.90	\$440.80	\$0.00	\$0.00	\$0.51	\$118.32	\$2.41 / Cuyd	\$0.00	\$0.00	\$559.12
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	1691	Cuyd	\$2.93	\$4,954.63	\$0.00	\$0.00	\$0.78	\$1,318.98	\$3.71 / Cuyd	\$0.00	\$0.00	\$6,273.61
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	1057	Cuyd	\$2.93	\$3,097.01	\$0.00	\$0.00	\$0.78	\$824.46	\$3.71 / Cuyd	\$0.00	\$0.00	\$3,921.47
02450	Excavating, trench												
02430 -	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3075	Cuvd	\$1.76	\$5,412.00	\$0.00	\$0.00	\$1.28	\$3,936.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$9,348.00
	endavate tronging common carting and, a 10 doop, 1 hz a 1 hya	00.0	Cuyu	ψσ	\$0,112.00	ψ0.00	ψ0.00	ψ· <u>2</u> 0	φο,σσσ.σσ	ψοιστή σαγα	\$0.00	ψ0.00	Ψο,ο .ο.οο
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2670	Cuyd	\$5.95		\$0.00	\$0.00	\$10.40	+ ,	\$16.35 / Cuyd	\$0.00	\$0.00	\$43,654.50
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	2670 134	Cuyd Trk	\$0.74 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00	+ - 1	\$1.98 / Cuyd \$105 / Trk	\$0.00 \$0.00	\$0.00 \$14,017.50	\$5,286.60 \$14,017.50
	Disposalitee	104	IIK	ψ0.00	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ103 / TIK	ψ0.00	Ψ14,017.30	Ψ14,017.30
02490 -	Erosion control												
	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
02570	Catala haning ay mandalag												
02570 -	Catch basins or manholes Cleanout	9	Each	\$1,019.00	\$9,171.00	\$1,560.00	\$14,040.00	\$249.00	\$2,241.00	\$2828 / Each	\$0.00	\$0.00	\$25,452.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	8	Each	\$602.88		\$472.04	\$3,776.32	\$0.00		\$1074.92 / Each	\$0.00	\$0.00	\$8,599.36
	Junction Structure	2	Each	\$680.00		\$6,000.00	\$12,000.00	\$0.00			\$0.00	\$0.00	\$13,360.00
02600 -	Base course	1806	Sgyd	\$0.80	\$1,444.80	\$8.06	\$14,556.36	\$1.02	\$1,842.12	\$9.88 / Sqyd	\$0.00	\$0.00	\$17,843.28
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	1806	Sqya	φυ.80	\$1, 444 .80	φσ.υδ	\$14,555.35	\$1.UZ	\$1,042.12	\$9.00 / Sqya	\$0.00	Φ0.00	\$17,043.28
02610 -	Asphalt concrete pavement												-
	Asphaltic conc pavement, pavement replacement over trench, 4"	1806	Sqyd	\$35.00	\$63,210.00	\$18.00	\$32,508.00	\$2.98	\$5,381.88	\$55.98 / Sqyd	\$0.00	\$0.00	\$101,099.88

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640	- Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	3300	Lnft	\$0.12	\$396.00	\$0.17	\$561.00	\$0.08	\$264.00	\$0.37 / Lnft	\$0.00	\$0.00	\$1,221.00
02840	- Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$9,756.00	\$9,756.00
	SITE CONSTRUCTION Total				\$149,803.48		\$151,559.72		\$65,537.16		\$0.00	\$29,001.50	\$395,901.86
15 - ME	CHANICAL												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	2900	Lnft	\$24.50	\$71,050.00	\$35.00	\$101,500.00	\$2.84	\$8,236.00	\$62.34 / Lnft	\$0.00	\$0.00	\$180,786.00
	Piping, water dist, conc pipe, gasket, 24" dia	290	Each	\$3.14	\$910.60	\$4.75	\$1,377.50	\$0.00	\$0.00	\$7.89 / Each	\$0.00	\$0.00	\$2,288.10
	MECHANICAL Total				\$71,960.60		\$102,877.50		\$8,236.00		\$0.00	\$0.00	\$183,074.10
	Project BCA total				\$221,764.08		\$254,437.22		\$85,173.16		\$0.00	\$29,001.50	\$590,375.96
	Grand Total				\$221,764.08		\$254,437.22		\$85,173.16		\$0.00	\$29,001.50	\$590,375.96

Category	Percent	Amount
Labor	37.56%	\$221,764
Material	43.10%	\$254,437
Equipment	14.43%	\$85,173
Subcontractor	0.00%	\$0
Other	4.91%	\$29,002
Net Costs		\$590,376
Labor Mark-up	18.00%	\$39,918
Material Mark-up	15.00%	\$38,166
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$12,776
Sales tax (material)	7.75%	\$19,719
Sales tax (equipment)	7.75%	\$6,601
Material Shipping & Handling	2.50%	\$6,361
Worker's Travel/Subsistence	0.10%	\$222
Subtotal		\$714,138
Contractor General Conditions	12.00%	\$85,697
Subtotal		\$799,834
Earthquake Insurance	0.10%	\$800
Subtotal		\$800,634
Construction Contingency	20.00%	\$160,127
Subtotal		\$960,761
Bldg Risk, Liability Auto Ins.	2.00%	\$19,215
Subtotal		\$979,976
Performance Bond	1.00%	\$9,800
Payment Bond	1.00%	\$9,800
Subtotal		\$999,575
Engineering Fee	10.00%	\$59,038
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$1,068,613



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date::

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BCB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BCB .												
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental									****		***	
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2,880.00	\$240 / Day	\$0.00	\$0.00	\$2,880.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo			\$900.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$3,780.00		\$0.00	\$0.00	\$3,780.00
02 - SIT	E CONSTRUCTION												
02 - 0111	CONSTRUCTION												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
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02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$5.29	\$3,279.80	\$0.00	\$0.00	\$3.49	\$2,163.80	\$8.78 / Sqyd	\$0.00	\$0.00	\$5,443.60
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$1.00	\$620.00	\$4.70	\$2,914.00	\$1.32	\$818.40	\$7.02 / Sqyd	\$0.00	\$0.00	\$4,352.40
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1,859.00	Lnft	\$0.48	\$892.32	\$0.07	\$130.13	\$0.26	\$483.34	\$0.81 / Lnft		\$0.00	\$1,505.79
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.82	\$1,524.38	\$0.30	\$557.70	\$0.44	\$817.96	\$1.56 / Lnft	\$0.00	\$0.00	\$2,900.04
02310 -	Fine grade												****
	Fine grade under asphalt	620	Sqyd	\$0.26	\$161.20	\$0.00	\$0.00	\$0.21	\$130.20	\$0.47 / Sqyd	\$0.00	\$0.00	\$291.40
00040	Po deline												
02340 -	Bedding Bedding, crushed stone 3/4" to 1/2"	628	Cuyd	\$8.47	\$5,319.16	\$32.03	\$20,114.84	\$1.89	\$1,186.92	\$42.39 / Cuyd	\$0.00	\$0.00	\$26,620.92
	Backfill, dozer backfilling, trench, no compaction	628	Cuyd	\$0.80	\$5,319.16 \$502.40	\$0.00	\$20,114.84	\$1.89	\$1,186.92	\$2.08 / Cuyd		\$0.00	\$20,020.92
	Backilli, dozer backilling, trench, no compaction	020	Cuyu	φυ.ου	\$302.40	\$0.00	\$0.00	Φ1.20	φου3.64	\$2.06 / Cuyu	\$0.00	Φ0.00	\$1,300.24
02360 -	Compaction												
02000	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	565.3	Cuyd	\$1.72	\$972.32	\$0.00	\$0.00	\$0.41	\$231.77	\$2.13 / Cuyd	\$0.00	\$0.00	\$1,204.09
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	94.2	Cuyd	\$2.93	\$276.01	\$0.00	\$0.00	\$0.78	\$73.48	\$3.71 / Cuyd		\$0.00	\$349.48
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	585.5	Cuyd	\$2.93	\$1,715.52	\$0.00	\$0.00	\$0.78	\$456.69	\$3.71 / Cuyd		\$0.00	\$2,172.21
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02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1,319.00	Cuyd	\$1.76	\$2,321.44	\$0.00	\$0.00	\$1.28	\$1,688.32	\$3.04 / Cuyd	\$0.00	\$0.00	\$4,009.76
02460 -	Hauling												
		1,517.00	Cuyd	\$7.18	\$10,892.06	\$3.00	\$4,551.00	\$15.45	,	\$25.63 / Cuyd			\$38,875.08
	0 .	1,517.00	Cuyd	\$0.74	\$1,122.58	\$0.00	\$0.00	\$1.24	\$1,881.08	\$1.98 / Cuyd		\$0.00	\$3,003.66
	Disposal fee	76	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$7,964.25	\$7,964.25
00.400													
02490 -	Erosion control			00.00	40.00	# 0.00		# 0.00	00.00	00044/1		00.044.00	***
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570	Catch basins or manholes												
02370 -	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	1	Each	\$846.67	\$3,386.68	\$1,475.00	\$5,900.00	\$189.01	\$756.04	\$2510.68 / Each	\$0.00	\$0.00	\$10,042.72
	Cleanout	3	Each	\$1,019.00	\$3,057.00	\$1,475.00	\$4,680.00	\$249.00	\$747.00	\$2828 / Each	\$0.00	\$0.00	\$8,484.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4	Each	\$169.33	\$677.32	\$395.00	\$1,580.00	\$37.80	\$151.20	\$602.13 / Each	\$0.00	\$0.00	\$2,408.52
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$162.82	\$651.28	\$260.00	\$1,040.00	\$36.35	\$145.40		\$0.00	\$0.00	\$1,836.68
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$144.00	\$576.00	\$100.00	\$400.00	\$0.00	\$0.00	\$244 / Each	\$0.00	\$0.00	\$976.00
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16		\$9.66	\$154.56	\$23.00	\$368.00	\$0.00	\$0.00	\$32.66 / Each	\$0.00	\$0.00	\$522.56
	,, , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,			Ţ1.30	Ţ.2 00	,	7222.00	Ţ	\$2.00		\$2.00	75.50	Ţ
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$35.00	\$21,700.00	\$18.00	\$11,160.00	\$2.98	\$1,847.60	\$55.98 / Sqyd	\$0.00	\$0.00	\$34,707.60

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.12	\$111.00	\$0.17	\$157.25	\$0.08	\$74.00	\$0.37 / Lnft	\$0.00	\$0.00	\$342.25
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$250.00	\$4,500.00	\$0.00	\$0.00	\$35.00	\$630.00	\$285 / Each	\$0.00	\$0.00	\$5,130.00
	SITE CONSTRUCTION Total				\$64,434.66		\$53,581.23		\$38,519.06		\$5,000.00	\$15,456.25	\$176,991.19
03 - CO	NCRETE												
03330 -	Patching concrete												
	Patching conc, wall, wall penetration, non-shrink grout, 30" hole	8	Each	\$75.38	\$603.04	\$238.50	\$1,908.00	\$0.00	\$0.00	\$313.88 / Each	\$0.00	\$0.00	\$2,511.04
	CONCRETE Total				\$603.04	·	\$1,908.00		\$0.00		\$0.00	\$0.00	\$2,511.04
15 - ME	CHANICAL												
45000	Pipe,drng&sewage,concret												
15090 -	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	925	Lnft	\$32.48	\$30.044.00	\$43.00	\$39,775.00	\$3.22	\$2,978.50	\$78.7 / Lnft	\$0.00	\$0.00	\$72,797.50
	Piping, water dist, conc pipe, gasket, 30" dia	923	Each	\$32.40		\$6.00	\$59,775.00	\$0.00		\$9.14 / Each	\$0.00	\$0.00	\$840.88
				ΨΟ	\$200.00	ψ0.00	\$002.00	ψ0.00	ψ0.00	7 2 17 Edon	ψ0.00	φοισσ	ψο 10.00
	MECHANICAL Total				\$30,332.88		\$40,327.00		\$2,978.50		\$0.00	\$0.00	\$73,638.38
	Project BCB Total				\$95,370.58		\$95,816.23		\$45,277.56		\$5,000.00	\$15,456.25	\$256,920.61
	Grand Total				\$95,370.58		\$95,816.23		\$45,277.56		\$5,000.00	\$15,456.25	\$256,920.61

Category	Percent	Amount
Labor	37.12%	\$95,371
Material	37.29%	\$95,816
Equipment	17.62%	\$45,278
Subcontractor	1.95%	\$5,000
Other	6.02%	\$15,456
Net Costs		\$256,921
Labor Mark-up	18.00%	\$17,167
Material Mark-up	15.00%	\$14,372
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$6,792
Sales tax (material)	7.75%	\$7,426
Sales tax (equipment)	7.75%	\$3,509
Material Shipping & Handling	2.50%	\$2,395
Worker's Travel/Subsistence	0.10%	\$95
Subtotal		\$308,927
Contractor General Conditions	12.00%	\$37,071
Subtotal		\$345,998
Earthquake Insurance	0.10%	\$346
Subtotal		\$346,344
Construction Contingency	20.00%	\$69,269
Subtotal		\$415,613
Bldg Risk, Liability Auto Ins.	2.00%	\$8,312
Subtotal		\$423,925
Performance Bond	1.00%	\$4,239
Payment Bond	1.00%	\$4,239
Subtotal		\$432,404
Engineering Fee	10.00%	\$25,692
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$468,096



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BCC - Located in Basin B

Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
REQUIREMENTS												
I equipment rental	40	D	#0.00	#0.00	#0.00	#0.00	CO 40 00	#0.000.00	\$0.40 / D	# 0.00	#0.00	#0.000.00
n box, 9500 lbs, 8'x 20' n Plates allowance	12	Day Mo	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$240.00 \$900.00	\$2,880.00 \$900.00	\$240 / Day \$900 / Mo	\$0.00 \$0.00	\$0.00 \$0.00	\$2,880.00 \$900.00
GENERAL REQUIREMENTS Tota	, 1	IVIO	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$900.00	\$3,780.00	\$900 / 1010	\$0.00	\$0.00	\$3,780.00
GENERAL NE QUINEMENTO TOLA	,			Ψ0.00		ψ0.00		ψ5,700.00		Ψ0.00	ψ0.00	ψ5,700.00
STRUCTION												
round marking tape												
ground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.9
molition												
ml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$5.29		\$0.00	\$0.00	\$3.49		\$8.78 / Sqyd		\$0.00	\$5,443.60
It disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$1.00	\$620.00	\$4.70	\$2,914.00	\$1.32	\$818.40	\$7.02 / Sqyd	\$0.00	\$0.00	\$4,352.40
Hina												
tting utting, asphalt, up to 3" deep	1,859.0	Lnft	\$0.48	\$892.32	\$0.07	\$130.13	\$0.26	\$483.34	\$0.81 / Lnft	\$0.00	\$0.00	\$1,505.79
utting, asphalt, up to 3 deep utting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.46		\$0.30	\$557.70	\$0.26		\$1.56 / Lnft		\$0.00	\$2,900.04
utting, aspirant, after 3 deep, each addring to depth	1,059.00	LIIIL	Ψ0.02	\$1,324.30	φ0.30	φ337.70	φυ.44	Φ017.90	\$1.50 / LIII	\$0.00	φ0.00	\$2,900.05
ade												
rade under asphalt	620	Sgyd	\$0.26	\$161.20	\$0.00	\$0.00	\$0.21	\$130.20	\$0.47 / Sqyd	\$0.00	\$0.00	\$291.40
		- 15	*	,		,	•		,	*	,	
g												
ng, crushed stone 3/4" to 1/2"	911.4	Cuyd	\$8.47	\$7,719.56	\$32.03	\$29,192.14	\$1.89	\$1,722.55	\$42.39 / Cuyd	\$0.00	\$0.00	\$38,634.25
II, dozer backfilling, trench, no compaction	1463	Cuyd	\$0.80	\$1,170.40	\$0.00	\$0.00	\$1.28	\$1,872.64	\$2.08 / Cuyd	\$0.00	\$0.00	\$3,043.04
ction												
Il Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	668.1	Cuyd	\$1.72		\$0.00	\$0.00	\$0.41	\$273.92	\$2.13 / Cuyd		\$0.00	\$1,423.05
ade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	111.3	Cuyd	\$2.93		\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd		\$0.00	\$412.92
ng Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	783.8	Cuyd	\$2.93	\$2,296.53	\$0.00	\$0.00	\$0.78	\$611.36	\$3.71 / Cuyd	\$0.00	\$0.00	\$2,907.90
ting, trench												
ate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1900	Cuyd	\$1.76	\$3.344.00	\$0.00	\$0.00	\$1.28	\$2,432,00	\$3.04 / Cuyd	\$0.00	\$0.00	\$5,776.00
ate trench, common earth curb, 6-10 deep, 1-1/2 C1 hyd	1900	Cuyu	φ1.70	\$3,344.00	φ0.00	\$0.00	φ1.20	\$2,432.00	\$3.04 / Cuyu	\$0.00	\$0.00	\$3,776.00
1												
g, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	627	Cuyd	\$7.18	\$4.501.86	\$3.00	\$1,881.00	\$15.45	\$9,684.82	\$25.63 / Cuyd	\$0.00	\$0.00	\$16,067,68
ng Trucks, F.E. Loader, 3 C.Y	627	Cuyd	\$0.74	\$463.98	\$0.00	\$0.00	\$1.24		\$1.98 / Cuyd		\$0.00	\$1,241.46
sal fee	31	Ťrk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$3,291.75	\$3,291.75
control												
n control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
pasins or manholes			00:	0	04 :== -:	A E	A :	^	*******		*	0/
basins or manholes, concrete, precast, 5' I.D., 8' deep	4	Each	\$846.67	\$3,386.68	\$1,475.00	\$5,900.00	\$189.01		\$2510.68 / Each	\$0.00	\$0.00	\$10,042.72
manholes, conc, slab tops, precast, 8" thick, 5' dia	3	Each Each	\$1,019.00	\$3,057.00 \$677.32	\$1,560.00 \$395.00	\$4,680.00 \$1,580.00	\$249.00 \$37.80		\$2828 / Each \$602.13 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$8,484.00 \$2,408.52
bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$169.33 \$162.82		\$395.00	\$1,580.00	\$37.80 \$36.35	\$151.20 \$145.40		\$0.00	\$0.00	\$2,408.52 \$1,836.68
	1											\$976.00
	16											\$522.56
	10		ψ0.00	ψ.54.00	Ψ23.00	ψ555.00	ψ3.00	\$3.00	302.00 / Edoi1	\$0.00	\$5.00	\$322.00
concrete pavement												
ltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$35.00	\$21,700.00	\$18.00	\$11,160.00	\$2.98	\$1,847.60	\$55.98 / Sqyd	\$0.00	\$0.00	\$34,707.60
		,,,							12 -			•
manhole anhole	oles, inverts, single channel brick, concrete s, steps, heavyweight cast iron, 12" x 10-1/2", for all con ete pavement	oles, inverts, single channel brick, concrete 4 s, steps, heavyweight cast iron, 12" x 10-1/2", for all con 16 ete pavement	oles, inverts, single channel brick, concrete 4 Each s, steps, heavyweight cast iron, 12" x 10-1/2", for all con 16 Each ete pavement	oles, inverts, single channel brick, concrete 4 Each \$144.00 s, steps, heavyweight cast iron, 12" x 10-1/2", for all con 16 Each \$9.66 ete pavement	oles, inverts, single channel brick, concrete 4 Each \$144.00 \$576.00 s, steps, heavyweight cast iron, 12" x 10-1/2", for all con 16 Each \$9.66 \$154.56 ete pavement	bles, inverts, single channel brick, concrete 4 Each \$144.00 \$576.00 \$100.00 s, steps, heavyweight cast iron, 12" x 10-1/2", for all con 16 Each \$9.66 \$154.56 \$23.00 ete pavement	bles, inverts, single channel brick, concrete 4 Each \$144.00 \$576.00 \$100.00 \$400.00 \$ s, steps, heavyweight cast iron, 12" x 10-1/2", for all con 16 Each \$9.66 \$154.56 \$23.00 \$368.00 \$ ete pavement	bles, inverts, single channel brick, concrete 4 Each \$144.00 \$576.00 \$100.00 \$400.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 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cast iron, 12" x 10-1/2", for all con 16 Each \$9.66 \$154.56 \$23.00 \$368.00 \$0.00 \$0.00 \$32.66 / Each ete pavement	bles, inverts, single channel brick, concrete 4 Each \$144.00 \$576.00 \$100.00 \$400.00 \$0.00 \$0.00 \$244 / Each \$0.00 \$0.00 \$0.00 \$32.66 / Each \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 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Item	Item Description Q	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.12	\$111.00	\$0.17	\$157.25	\$0.08	\$74.00	\$0.37 / Lnft	\$0.00	\$0.00	\$342.25
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00		\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$250.00	\$4,500.00	\$0.00	\$0.00	\$35.00	\$630.00	\$285 / Each	\$0.00	\$0.00	\$5,130.00
	SITE CONSTRUCTION Total				\$62,284.76		\$59,988.53		\$26,226.53		\$5,000.00	\$10,783.75	\$164,283.56
03 - CO	NCRETE												
03330 -	Patching concrete												
	Patching conc, wall, wall penetration, non-shrink grout,	8	Each	\$75.38	\$603.04	\$286.20	\$2,289.60	\$0.00	\$0.00	\$361.58 / Each	\$0.00	\$0.00	\$2,892.64
	CONCRETE Total				\$603.04		\$2,289.60		\$0.00		\$0.00	\$0.00	\$2,892.64
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	925	Lnft	\$39.70	\$36,722.50	\$73.00	\$67,525.00	\$3.94	\$3,644.50	\$116.64 / Lnft	\$0.00	\$0.00	\$107,892.00
	Piping, water dist, conc pipe, gasket, 36" dia	92	Each	\$3.14	\$288.88	\$6.50	\$598.00	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$886.88
	MECHANICAL Total				\$37,011.38		\$68,123.00		\$3,644.50		\$0.00	\$0.00	\$108,778.88
	Project BCC Total				\$99,899.18		\$130,401.13		\$33,651.03		\$5,000.00	\$10,783.75	\$279,735.08
	Grand Total				\$99,899.18		\$130,401.13		\$33,651.03		\$5,000.00	\$10,783.75	\$279,735.08

Category	Percent	Amount
Labor	35.71%	\$99,899
Material	46.62%	\$130,401
Equipment	12.03%	\$33,651
Subcontractor	1.79%	\$5,000
Other	3.85%	\$10,784
Net Costs		\$279,735
Labor Mark-up	18.00%	\$17,982
Material Mark-up	15.00%	\$19,560
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$5,048
Sales tax (material)	7.75%	\$10,106
Sales tax (equipment)	7.75%	\$2,608
Material Shipping & Handling	2.50%	\$3,260
Worker's Travel/Subsistence	0.10%	\$100
Subtotal		\$338,649
Contractor General Conditions	12.00%	\$40,638
Subtotal		\$379,287
Earthquake Insurance	0.10%	\$379
Subtotal		\$379,666
Construction Contingency	20.00%	\$75,933
Subtotal		\$455,599
Bldg Risk, Liability Auto Ins.	2.00%	\$9,112
Subtotal		\$464,711
Performance Bond	1.00%	\$4,647
Payment Bond	1.00%	\$4,647
Subtotal		\$474,005
Engineering Fee	10.00%	\$27,974
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$511,979



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BFA - Located in Basin B

Item	Item Description Q	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BFA			***		•		**		***			
04 05	ALEDA DECUMENTO												
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$4,800.00	\$240 / Day	\$0.00	\$0.00	\$4,800.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,800.00		\$0.00	\$0.00	\$4,800.00
02020 -	Underground marking tape												
02020 -	Underground tape, detectable aluminum, 2"	16	Clf	\$2.34	\$37.44	\$3.06	\$48.96	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$86.40
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02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1072	Sqyd	\$5.29	\$5,670.88	\$0.00	\$0.00	\$3.49		\$8.78 / Sqyd		\$0.00	\$9,412.16
	Asphalt disposal - hauling and disposal fee, 4" thick	1072	Sqyd	\$1.00	\$1,072.00	\$4.70	\$5,038.40	\$1.32	\$1,415.04	\$7.02 / Sqyd	\$0.00	\$0.00	\$7,525.44
00470													
02170 -	Saw cutting Saw cutting, asphalt, up to 3" deep	3214	Lnft	\$0.48	\$1,542.72	\$0.07	\$224.98	\$0.26	\$835.64	\$0.81 / Lnft	\$0.00	\$0.00	\$2,603.34
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3214	Lnft	\$0.48	\$2,635.48	\$0.07	\$964.20	\$0.20		\$1.56 / Lnft			\$5,013.84
	can canny, acpriate, arter of acop, each add more or acpri	02		ψ0.02	ψ <u>2</u> ,000.10	ψ0.00	Q0011.20	Ψ0	\$1,11110	ψ1.00 / Line	\$0.00	φσσ	ψο,ο . ο.ο .
02310 -	Fine grade												
	Fine grade under asphalt	1072	Sqyd	\$0.26	\$278.72	\$0.00	\$0.00	\$0.21	\$225.12	\$0.47 / Sqyd	\$0.00	\$0.00	\$503.84
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	1577	Cuyd	\$8.47		\$32.03	\$50,511.31	\$1.89		\$42.39 / Cuyd		\$0.00	\$66,849.03
	Backfill, dozer backfilling, trench, no compaction	2373	Cuyd	\$0.80	\$1,898.51	\$0.00	\$0.00	\$1.28	\$3,037.62	\$2.08 / Cuyd	\$0.00	\$0.00	\$4,936.13
02360 -	Compaction												
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	2373	Cuyd	\$1.72	\$4,081.80	\$0.00	\$0.00	\$0.41	\$972.99	\$2.13 / Cuyd	\$0.00	\$0.00	\$5,054.79
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	193	Cuyd	\$2.93	\$564.32	\$0.00	\$0.00	\$0.78	\$150.23	\$3.71 / Cuyd	\$0.00	\$0.00	\$714.55
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1356	Cuyd	\$2.93	\$3,973.08	\$0.00	\$0.00	\$0.78	\$1,057.68	\$3.71 / Cuyd	\$0.00	\$0.00	\$5,030.76
02450 -	Excavating, trench												
02 100	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3082	Cuyd	\$1.76	\$5,424.32	\$0.00	\$0.00	\$1.28	\$3,944.96	\$3.04 / Cuyd	\$0.00	\$0.00	\$9,369.28
			Í			·							
02460 -	Hauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1017	Cuyd	\$7.18		\$3.00	\$3,051.18	\$15.45		\$25.63 / Cuyd			\$26,063.47
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	1017 51	Cuyd Trk	\$0.74 \$0.00	\$752.62 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00		\$1.98 / Cuyd \$105 / Trk		\$0.00 \$5,339.57	\$2,013.78 \$5,339.57
	Disposal ree	31	IIK	φυ.υυ	φυ.υυ	φυ.υυ	\$0.00	φυ.υυ	\$0.00	\$105 / 11K	\$0.00	\$5,559.57	φυ,σσ9.σ <i>1</i>
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	9	Each	\$846.67	\$7,620.03	\$1,475.00	\$13,275.00	\$189.01		\$2510.68 / Each	\$0.00	\$0.00	\$22,596.12
	Cleanout	5	Each	\$1,019.00	\$5,095.00	\$1,560.00	\$7,800.00	\$249.00		\$2828 / Each			\$14,140.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	9	Each	\$169.33		\$395.00	\$3,555.00	\$37.80	\$340.20	\$602.13 / Each		\$0.00	\$5,419.17
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	9	Each	\$162.82		\$260.00	\$2,340.00	\$36.35		\$459.17 / Each		*	\$4,132.53
	CB or manholes, inverts, single channel brick, concrete	9 45	Each	\$144.00 \$9.66	\$1,296.00 \$434.70	\$100.00	\$900.00	\$0.00 \$0.00	\$0.00 \$0.00	\$244 / Each	\$0.00	\$0.00 \$0.00	\$2,196.00
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	45	Each	\$9.00	\$434.7U	\$23.00	\$1,035.00	φυ.υυ	\$0.00	\$32.66 / Each	\$0.00	Φ0.00	\$1,469.70
02580 -	Headwall												
	Headwall, conc, CIP, 30< skewed wingwall,	2	Each	\$5,480.00	\$10,960.00	\$2,173.00	\$4,346.00	\$138.00	\$276.00	\$7791 / Each	\$0.00	\$0.00	\$15,582.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	1072	Sqyd	\$35.00	\$37,520.00	\$18.00	\$19,296.00	\$2.98	\$3,194.56	\$55.98 / Sqyd	\$0.00	\$0.00	\$60,010.56
02640	Lines on pay t												
02640 -	Lines on part t Lines on pymt, acrylic waterborne, white or yellow, 4" wide	1600	Lnft	\$0.12	\$192.00	\$0.17	\$272.00	\$0.08	\$128.00	\$0.37 / Lnft	\$0.00	\$0.00	\$592.00
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
02900 -	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	32	Each	\$250.00	\$8,000.00	\$0.00	\$0.00	\$35.00	\$1,120.00	\$285 / Each	\$0.00	\$0.00	\$9,120.00
	SITE CONSTRUCTION Total				\$122,698.66		\$112,658.03		\$45,078.20		\$5,000.00	\$7,953.57	\$293,388.45
03 - CO	NCRETE												
03330 -	Patching concrete												
00000	Pre-cast concrete wall penetration, non-shrink grout, 42" hole	18	Each	\$100.00	\$1,800.00	\$240.00	\$4,320.00	\$0.00	\$0.00	\$340 / Each	\$0.00	\$0.00	\$6,120.00
	CONCRETE Total				\$1,800.00		\$4,320.00		\$0.00		\$0.00	\$0.00	\$6,120.00
15 - MF	CHANICAL												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 42" dia	1600	Lnft	\$39.70	\$63,520.00	\$95.00	\$152,000.00	\$3.94	\$6,304.00	\$138.64 / Lnft	\$0.00	\$0.00	\$221,824.00
	Piping, water dist, conc pipe, gasket, 42" dia	160	Each	\$3.14	\$502.40	\$9.50	\$1,520.00	\$0.00	\$0.00	\$12.64 / Each	\$0.00	\$0.00	\$2,022.40
	MECHANICAL Total				\$64,022.40		\$153,520.00		\$6,304.00		\$0.00	\$0.00	\$223,846.40
	Project BFA Total				\$188,521.06		\$270,498.03		\$56,182.20		\$5,000.00	\$7,953.57	\$528,154.85
	Grand Total				\$188,521.06		\$270,498.03		\$56,182.20		\$5,000.00	\$7,953.57	\$528,154.85

Category	Percent	Amount
Labor	35.69%	\$188,521
Material	51.22%	\$270,498
Equipment	10.64%	\$56,182
Subcontractor	0.95%	\$5,000
Other	1.51%	\$7,954
Net Costs		\$528,155
Labor Mark-up	18.00%	\$33,934
Material Mark-up	15.00%	\$40,575
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$8,427
Sales tax (material)	7.75%	\$20,964
Sales tax (equipment)	7.75%	\$4,354
Material Shipping & Handling	2.50%	\$6,762
Worker's Travel/Subsistence	0.10%	\$189
Subtotal		\$643,609
Contractor General Conditions	12.00%	\$77,233
Subtotal		\$720,842
Earthquake Insurance	0.10%	\$721
Subtotal		\$721,563
Construction Contingency	20.00%	\$144,313
Subtotal		\$865,876
Bldg Risk, Liability Auto Ins.	2.00%	\$17,318
Subtotal		\$883,194
Performance Bond	1.00%	\$8,832
Payment Bond	1.00%	\$8,832
Subtotal		\$900,857
Engineering Fee	10.00%	\$52,815
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$963,673



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BFB-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
02 - SIT	ECONSTRUCTION												
02060 -	Site demolition												
02000	Site demo, Area vegetation removal	1	Acre	\$1,758.00	\$2,004.12	\$0.00	\$0.00	\$3,692.00	\$4,208.88	\$5450 / Acre	\$0.00	\$0.00	\$6,213.00
				\$ 1,100.00	4 =,00=	******	V 0.00	4 0,000	* 1,=00100	***************************************	¥0.00	70.00	
02330 -	Backfill, structural												
	Backfill, side slope fill	515	Cuyd	\$0.60	\$309.00	\$0.00	\$0.00	\$1.20	\$619.00	\$1.8 / Cuyd	\$0.00	\$0.00	\$928.00
02360 -	 Compaction												
	Compaction, riding, vibrating roller, 6" lifts, side slope fill	515	Cuyd	\$2.93	\$1,508.95	\$0.00	\$0.00	\$0.78	\$401.70	\$3.71 / Cuyd	\$0.00	\$0.00	\$1,910.65
02390 -	Excavating, bulk bank measure												
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	1864	Cuyd	\$1.95	\$3,634.80	\$0.00	\$0.00	\$1.42	\$2,646.88	\$3.37 / Cuyd	\$0.00	\$0.00	\$6,281.68
02430 -													
	Fill, spread fill, with dozer	515	Cuyd	\$0.72	\$370.80	\$0.00	\$0.00	\$1.15	\$592.25	\$1.87 / Cuyd	\$0.00	\$0.00	\$963.05
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1348	Cuyd	\$5.95	\$8,020.60	\$0.00	\$0.00	\$10.40	\$14,019.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$22,039.80
	Loading Trucks, F.E. Loader, 3 C.Y	1348	Cuyd	\$0.74	\$997.52	\$0.00	\$0.00	\$1.24	\$1,671.52	\$1.98 / Cuyd	\$0.00	\$0.00	\$2,669.04
02480 -	 Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
02490 -	Erosion control												
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	3299	Sqyd	\$0.47	\$1,550.53	\$1.40	\$4,618.60	\$0.00	\$0.00	\$1.87 / Sqyd	\$0.00	\$0.00	\$6,169.13
02600 -	Base course												
	Base course, roadway, compacted to 12" deep	667	Sqyd	\$0.87	\$580.29	\$10.76	\$7,176.92	\$1.11	\$740.37	\$12.74 / Sqyd	\$0.00	\$0.00	\$8,497.58
	SITE CONSTRUCTION Total				\$23,971.61		\$17,851.52		\$26,543.80		\$0.00	\$0.00	\$68,366.93
03 - COI	NCRETE				, 3,011101		, ,0002		. 5,6 :5:5		70.00		
	Project BFB-U-Total				\$23,971.61		\$17,851.52		\$26,543.80		\$0.00	\$0.00	\$68,366.93
	Grand Total				\$23,971.61		\$17,851.52		\$26,543.80		\$0.00	\$0.00	\$68,366.93

Category	Percent	Amount
Labor	35.06%	\$23,972
Material	26.11%	\$17,852
Equipment	38.83%	\$26,544
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$68,367
Labor Mark-up	18.00%	\$4,315
Material Mark-up	15.00%	\$2,678
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,982
Sales tax (material)	7.75%	\$1,383
Sales tax (equipment)	7.75%	\$2,057
Material Shipping & Handling	2.50%	\$446
Worker's Travel/Subsistence	0.10%	\$24
Subtotal		\$83,252
Contractor General Conditions	12.00%	\$9,990
Subtotal		\$93,242
Earthquake Insurance	0.10%	\$93
Subtotal		\$93,335
Construction Contingency	25.00%	\$23,334
Subtotal		\$116,669
Bldg Risk, Liability Auto Ins.	2.00%	\$2,333
Subtotal		\$119,003
Performance Bond	1.00%	\$1,190
Payment Bond	1.00%	\$1,190
Subtotal		\$121,383
Engineering Fee	10.00%	\$6,837
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$138,220



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BFB-L - Located in Basin B

9 - General Recommendation 1	Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
1720 General equipment rank 12 Day 50.00 50.00 50.00 50.00 50.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.8	Project E	BFB-L												
1720 General equipment rank 12 Day 50.00 50.00 50.00 50.00 50.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.800.00 52.8														
### CONSTRUCTION ### CO	01 - GEI	NERAL REQUIREMENTS												
### CONSTRUCTION ### CO	01200 -	General equipment rental												
Section Sect	01200 -		12	Dav	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2.880.00	\$240 / Day	\$0.00	\$0.00	\$2,880.00
22 STE CONSTRUCTION				,	*****	70.00	70.00	70.00	+ =	4 =,000.00		70.00	70.00	 ,
Compaction Com		GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,880.00		\$0.00	\$0.00	\$2,880.00
Compaction Com														
Underground tape, detectable aluminum, 2" 8 Cif \$2.34 \$18.72 \$3.06 \$2.48 \$0.00 \$0.00 \$5.4 / Cif \$0.00 \$0.00 \$43.20	02 - SITI	E CONSTRUCTION												
Underground tape, detectable aluminum, 2" 8 Cif \$2.34 \$18.72 \$3.06 \$2.48 \$0.00 \$0.00 \$5.4 / Cif \$0.00 \$0.00 \$43.20	02020	Indergraund marking tana												
Beadfill dozer backfilling, trench. up to 300' haul, no compaction 1017 Cuyd \$0.80 \$813.60 \$0.00 \$1.28 \$1.301.76 \$2.08 / Cuyd \$0.00 \$0.00 \$2.115.36	02020 -		Ω	Clf	\$2.24	¢19.72	\$3.06	\$24.49	20.00	\$0.00	\$5.4./ CIf	\$0.00	00.00	\$43.20
Backfill, dozer backfilling, trench, up to 300' haul, no compaction 1017		onderground tape, detectable aluminum, 2	O	Cii	ΨZ.34	\$10.72	ψ3.00	Ψ24.40	φ0.00	φ0.00	\$3.4 / OII	φυ.υυ	φ0.00	φ 4 3.20
Backfill, dozer backfilling, trench, up to 300' haul, no compaction 1017	02320 -	Backfill												
Bedding, crushed stone 3/4" to 1/2"			1017	Cuyd	\$0.80	\$813.60	\$0.00	\$0.00	\$1.28	\$1,301.76	\$2.08 / Cuyd	\$0.00	\$0.00	\$2,115.36
Bedding, crushed stone 3/4" to 1/2"											,			
Compaction Com	02340 - 1													
Compaction, walk behind, vibrating roller 24" M, 6" lifts, 2 passes 104		Bedding, crushed stone 3/4" to 1/2"	894	Cuyd	\$8.47	\$7,572.18	\$32.03	\$28,634.82	\$1.89	\$1,689.66	\$42.39 / Cuyd	\$0.00	\$0.00	\$37,896.66
Compaction, walk behind, vibrating roller 24" M, 6" lifts, 2 passes 104														
Compaction, rammer tamper, 6" to 11", 4" lifts, bedding 769 Cuyd \$2.93 \$2.253.17 \$0.00 \$0.00 \$0.78 \$599.82 \$3.71 / Cuyd \$0.00 \$0.00 \$2.852.99 \$2.263.17 \$0.00 \$0.00 \$0.78 \$714.48 \$3.71 / Cuyd \$0.00 \$0.00 \$3.388.36 \$0.00 \$0.00 \$0.78 \$714.48 \$3.71 / Cuyd \$0.00 \$0.00 \$3.388.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0	02360 -		404	01	£4.00	£407.00	#0.00	#0.00	CO 54	#F0.04	CO 44 / O	#0.00	#0.00	COTO 04
Compaction, rammer tamper, 6" to 11", 4" lifts, backfill 916 Cuyd \$2.93 \$2.683.88 \$0.00 \$0.00 \$0.78 \$714.48 \$3.71 / Cuyd \$0.00 \$0.00 \$3.398.36														
02450 - Excavating, trench Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd 2056 Cuyd \$1.76 \$3,618.56 \$0.00 \$0.00 \$1.28 \$2,631.68 \$3.04 / Cuyd \$0.00 \$0.00 \$6,250.24 \$0.00 \$0.00 \$1.28 \$2,631.68 \$3.04 / Cuyd \$0.00 \$0.00 \$6,250.24 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.0														
Excavate trench, common earth curb, 6-10' deep, 1-1/2 CY hyd 2056 Cuyd \$1.76 \$3,618.56 \$0.00 \$0.00 \$1.28 \$2,631.68 \$3.04 / Cuyd \$0.00 \$0.00 \$6,250.24		Compaction, running tamper, or to 11, 4 mile, backing	010	Ouyu	Ψ2.00	Ψ2,000.00	ψ0.00	ψ0.00	ψ0.10	Ψ114.40	φο./ 1 / Odyd	ψ0.00	ψ0.00	ψο,οσο.οσ
C2460 Hauling LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr 1553 Cuyd \$5.95 \$9,240.35 \$0.00 \$0.00 \$10.40 \$16,151.20 \$16.35 / Cuyd \$0.00 \$0.00 \$25,391.55 Loading Trucks, F.E. Loader, 3 C.Y 1553 Cuyd \$0.74 \$1,149.22 \$0.00 \$0.00 \$1.24 \$1,925.72 \$1.98 / Cuyd \$0.00 \$0.00 \$3,074.94 \$1.925.72 \$1.98 / Cuyd \$0.00 \$0.00 \$3,074.94 \$1.925.72 \$1.98 / Cuyd \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	02450 -	Excavating, trench												
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr 1553 Cuyd \$5.95 \$9,240.35 \$0.00 \$0.00 \$10.40 \$16,151.20 \$16,35 / Cuyd \$0.00 \$0.00 \$25,391.55 Loading Trucks, F.E. Loader, 3 C.Y 1563 Cuyd \$0.74 \$1,149.22 \$0.00 \$0.00 \$1.24 \$1,925.72 \$1.98 / Cuyd \$0.00 \$0.00 \$3,074.94 2490 - Erosion control		Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2056	Cuyd	\$1.76	\$3,618.56	\$0.00	\$0.00	\$1.28	\$2,631.68	\$3.04 / Cuyd	\$0.00	\$0.00	\$6,250.24
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr 1553 Cuyd \$5.95 \$9,240.35 \$0.00 \$0.00 \$10.40 \$16,151.20 \$16,35 / Cuyd \$0.00 \$0.00 \$25,391.55 Loading Trucks, F.E. Loader, 3 C.Y 1563 Cuyd \$0.74 \$1,149.22 \$0.00 \$0.00 \$1.24 \$1,925.72 \$1.98 / Cuyd \$0.00 \$0.00 \$3,074.94 2490 - Erosion control														
Loading Trucks, F.E. Loader, 3 C.Y 1553 Cuyd \$0.74 \$1,149.22 \$0.00 \$0.00 \$1.24 \$1,925.72 \$1.98 / Cuyd \$0.00 \$0.00 \$3,074.94	02460 - 1													
Description				,										
Erosion control allowance: 1 Lsum \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$2614 / Lsum \$0.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00		Loading Trucks, F.E. Loader, 3 C.Y	1553	Cuyd	\$0.74	\$1,149.22	\$0.00	\$0.00	\$1.24	\$1,925.72	\$1.98 / Cuyd	\$0.00	\$0.00	\$3,074.94
Erosion control allowance: 1 Lsum \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$2614 / Lsum \$0.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00 \$2,614.00	02400 -	Fresion control												
Display Disp	02430 - 1		1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2 614 00	\$2 614 00
Junction structure		Erodion control allowance.		Louin	ψ0.00	ψ0.00	ψ0.00	ψ0.00	Ψ0.00	ψ0.00	Ψ20147 Louin	ψ0.00	Ψ2,014.00	Ψ2,014.00
Catch basins or manholes, concrete, precast, 5' I.D., 8' deep 3 Each \$846.67 \$2,540.01 \$1,475.00 \$4,425.00 \$189.01 \$567.03 \$2510.68 / Each \$0.00 \$0.00 \$7,532.04 CB or manholes, conc, slab tops, precast, 8" thick, 5' dia 3 Each \$169.33 \$507.99 \$395.00 \$1,185.00 \$37.80 \$113.40 \$602.13 / Each \$0.00 \$0.00 \$1,806.39 Catch basins or manholes, fra and covs, hvy traffic, 24" diam, 400 lb. 3 Each \$162.82 \$488.46 \$260.00 \$780.00 \$36.35 \$109.05 \$459.17 / Each \$0.00 \$0.00 \$1,377.51 CB or manholes, inverts, single channel brick, concrete 3 Each \$144.00 \$432.00 \$100.00 \$300.00 \$0.00 \$0.00 \$244 / Each \$0.00 \$0.00 \$732.00 CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con 13 Each \$9.66 \$125.58 \$23.00 \$299.00 \$0.00 \$32.66 / Each \$0.00 \$0.00 \$424.88 \$0.00 \$0.00 \$424.88 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	02570 -	Catch basins or manholes												
CB or manholes, conc, slab tops, precast, 8" thick, 5' dia 3 Each \$169.33 \$507.99 \$395.00 \$1,185.00 \$37.80 \$113.40 \$602.13 / Each \$0.00 \$0.00 \$1,806.39 \$162.82 \$488.46 \$260.00 \$780.00 \$36.35 \$109.05 \$459.17 / Each \$0.00 \$0.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.00 \$1,377.51 \$100.0		Junction structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$6,680.00
Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb. Beach \$162.82 \$488.46 \$260.00 \$780.00 \$36.35 \$109.05 \$459.17 / Each \$0.00 \$0.00 \$1,377.51 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1														
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02580 - Headwall Headwall, conc, CIP, 30< skewed wingwall 1 Each \$6,762.00 \$6,762.00 \$2,173.00 \$158.00 \$158.00 \$9093 / Each \$0.00 \$9.093.00 02900 - Pot Holing														
Headwall, conc, CIP, 30< skewed wingwall 1 Each \$6,762.00 \$6,762.00 \$2,173.00 \$158.00 \$158.00 \$9093 / Each \$0.00 \$9,093.00		CB/mannoles, steps, neavyweight cast iron, 12" x 10-1/2", for all con	13	Each	\$9.66	\$125.58	\$23.00	\$299.00	\$0.00	\$0.00	\$32.66 / Each	\$0.00	\$0.00	\$424.58
Headwall, conc, CIP, 30< skewed wingwall 1 Each \$6,762.00 \$6,762.00 \$2,173.00 \$158.00 \$158.00 \$9093 / Each \$0.00 \$9,093.00	02580 -	l Headwall												
02900 - Pot Holing	32000 - 1		1	Each	\$6,762.00	\$6,762.00	\$2,173,00	\$2,173.00	\$158.00	\$158.00	\$9093 / Fach	\$0.00	\$0.00	\$9.093.00
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Pot Holing - pipe lines 16 Each \$250.00 \$4,000.00 \$0.00 \$0.00 \$35.00 \$560.00 \$285 / Each \$0.00 \$0.00 \$4,560.00	02900 - 1	Pot Holing												
		Pot Holing - pipe lines	16	Each	\$250.00	\$4,000.00	\$0.00	\$0.00	\$35.00	\$560.00	\$285 / Each	\$0.00	\$0.00	\$4,560.00
	-													
	1													

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	800	Lnft	\$44.66	\$35,728.00	\$120.00	\$96,000.00	\$4.43	\$3,544.00	\$169.09 / Lnft	\$0.00	\$0.00	\$135,272.00
	Piping, water dist, conc pipe, gasket, 48" dia	80	Each	\$3.14	\$251.20	\$10.00	\$800.00	\$0.00	\$0.00	\$13.14 / Each	\$0.00	\$0.00	\$1,051.20
	MECHANICAL Total	I			\$79,062.52		\$140,621.30		\$30,118.84		\$0.00	\$2,614.00	\$252,416.66
	Project BFB-L Total				\$79,062.52		\$140,621.30		\$32,998.84		\$0.00	\$2,614.00	\$255,296.66
	Grand Total				\$79,062.52		\$140,621.30		\$32,998.84		\$0.00	\$2,614.00	\$255,296.66

Category	Percent	Amount
Labor	30.97%	\$79,063
Material	55.08%	\$140,621
Equipment	12.93%	\$32,999
Subcontractor	0.00%	\$0
Other	1.02%	\$2,614
Net Costs		\$255,297
Labor Mark-up	18.00%	\$14,231
Material Mark-up	15.00%	\$21,093
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,950
Sales tax (material)	7.75%	\$10,898
Sales tax (equipment)	7.75%	\$2,557
Material Shipping & Handling	2.50%	\$3,516
Worker's Travel/Subsistence	0.10%	\$79
Subtotal		\$312,621
Contractor General Conditions	12.00%	\$37,515
Subtotal		\$350,136
Earthquake Insurance	0.10%	\$350
Subtotal		\$350,486
Construction Contingency	25.00%	\$87,621
Subtotal		\$438,107
Bldg Risk, Liability Auto Ins.	2.00%	\$8,762
Subtotal		\$446,869
Performance Bond	1.00%	\$4,469
Payment Bond	1.00%	\$4,469
Subtotal		\$455,807
Engineering Fee	10.00%	\$25,530
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$491,336



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BF1 - Located in Basin B

Item	Item Description Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BF1											
02 SIT	E CONSTRUCTION											
02 - 311	L CONSTRUCTION											
02320 -	Backfill											
	Backfill, dozer backfilling, trench, no compaction, inlet 11	Cuyd	\$0.80	\$9.12	\$0.00	\$0.00	\$1.28	\$14.59	\$2.08 / Cuyd	\$0.00	\$0.00	\$23.71
	Backfill, dozer backfilling, trench, no compaction, outlet 10	Cuyd	\$0.80	\$8.32	\$0.00	\$0.00	\$1.28	\$13.31	\$2.08 / Cuyd	\$0.00	\$0.00	\$21.63
02340 -	Bedding											
	Bedding, crushed stone 3/4" to 1/2", inlet	Cuyd	\$8.47	\$75.38	\$32.03	\$285.07	\$1.89	\$16.82	\$42.39 / Cuyd	\$0.00	*	\$377.27
	Bedding, crushed stone 3/4" to 1/2", outlet 7	Cuyd	\$8.47	\$58.44	\$32.03	\$221.01	\$1.89	\$13.04	\$42.39 / Cuyd	\$0.00	\$0.00	\$292.49
02260	Compaction											
02300 -	Compaction, trench, walk behind, vib. plate, bedding, inlet 8	Cuyd	\$1.90	\$14.63	\$0.00	\$0.00	\$0.51	\$3.93	\$2.41 / Cuyd	\$0.00	\$0.00	\$18.56
	Compaction, trench, walk behind, vib. plate, subgrade, inlet 1	Cuvd	\$1.90	\$1.90	\$0.00	\$0.00	\$0.51	\$0.51	\$2.41 / Cuvd	\$0.00		\$2.41
	Compaction, trench, walk behind, vib. plate, bedding, outlet 6	Cuyd	\$1.90	\$11.21	\$0.00	\$0.00	\$0.51	\$3.01	\$2.41 / Cuyd	\$0.00	*	\$14.22
	Compaction, trench, walk behind, vib. plate, subgrade, outlet 1	Cuyd	\$1.90	\$1.71	\$0.00	\$0.00	\$0.51	\$0.46	\$2.41 / Cuyd	\$0.00		\$2.17
	Compaction, trench, walk behind, vib. plate, inlet 10	Cuyd	\$1.90	\$19.38	\$0.00	\$0.00	\$0.51	\$5.20	\$2.41 / Cuyd	\$0.00	\$0.00	\$24.58
	Compaction, trench, walk behind, vib. plate, outlet 9	Cuyd	\$1.90	\$17.67	\$0.00	\$0.00	\$0.51	\$4.74	\$2.41 / Cuyd	\$0.00	\$0.00	\$22.41
02410 -	Excavation, bulk, scrapers											
	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth 31500	Cuyd	\$1.29	\$40,635.00	\$0.00	\$0.00	\$5.19	\$163,485.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$204,120.00
00.450	Evacuating transle											
02450 -	Excavating, trench Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, inlet 22	Cuyd	\$1.95	\$42.12	\$0.00	\$0.00	\$1.42	\$30.67	\$3.37 / Cuyd	\$0.00	\$0.00	\$72.79
	Excavate trench, no sht or dewtrg, 4-6 D, 1-1/2 CY hyd bac, inlet 22 Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet 17		\$1.95	\$33.74	\$0.00	\$0.00	\$1.42		\$3.37 / Cuyd	\$0.00	*	\$58.30
	Excavate tiericii, no siit of dewitg, 4-0 D, 1-1/2 CT flyd bac, odilet	Cuyu	φ1.55	ψ33.74	φ0.00	φυ.υυ	ψ1.42	\$24.57	φ3.31 / Cuyu	φ0.00	φ0.00	φ36.30
02480 -	Rip-rap											
	Rip-rap, gabions, galv steel mesh boxes, stone filled 94	Cuyd	\$49.95	\$4,675.32	\$60.56	\$5,668.42	\$16.44	\$1,538.78	\$126.95 / Cuyd	\$0.00	\$0.00	\$11,882.52
									-			
	SITE CONSTRUCTION Total			\$45,603.94		\$6,174.49		\$165,154.64		\$0.00	\$0.00	\$216,933.07
03 - CO	NCRETE											
03150 -	Concrete, ready mix									***		
	Headwall, inlet 2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00		\$2,480.00
	Headwall, outlet 1	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$1,330.00	\$1,330.00
	CONCRETE Total			\$0.00		\$0.00		\$0.00		\$0.00	\$3,810.00	\$3,810.00
15 - ME	CHANICAL			φυ.υυ		Ψ0.00		Ψ0.00		ψ3.00	ψο,ο το.οο	ψο,ο το.οο
15090 -	Pipe,drng&sewage,concret											
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia 8	Lnft	\$39.70	\$317.60	\$73.00	\$584.00	\$3.94	\$31.52	\$116.64 / Lnft	\$0.00	\$0.00	\$933.12
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia 8	Lnft	\$44.66	\$357.28	\$120.00	\$960.00	\$4.43	\$35.44	\$169.09 / Lnft	\$0.00	\$0.00	\$1,352.72
45405	Discontinuo dinamana martal											
15125 -	Pipe,strm drng,corr metal	Lnft	04400	#000 00	#47.00	£400.00	64.00	#00.00	\$00.04 / L **	# 0.00	#0.00	A707.70
	Piping, storm drain, CMP, plain, 20' lengths, 24" dia, 14 ga 24	Lnft	\$14.00	\$336.00	\$17.62	\$422.88	\$1.62	\$38.88	\$33.24 / Lnft	\$0.00	\$0.00	\$797.76
	MECHANICAL Total			\$1,010.88		\$1,966.88		\$105.84		\$0.00	\$0.00	\$3,083.60
	WEGI INVIOAL TOTAL			ψ1,010.00		ψ1,000.00		ψ100.04		ψ0.00	φυ.υυ	ψυ,υυυ.υυ
	Project BF1 Total			\$46,614.82		\$8,141.37		\$165,260.48		\$0.00	\$3,810.00	\$223,826.67
	Grand Total			\$46,614.82		\$8,141.37		\$165,260.48		\$0.00	\$3,810.00	\$223,826.67

Category	Percent	Amount
Labor	20.83%	\$46,615
Material	3.64%	\$8,141
Equipment	73.83%	\$165,260
Subcontractor	0.00%	\$0
Other	1.70%	\$3,810
Net Costs		\$223,827
Labor Mark-up	18.00%	\$8,391
Material Mark-up	15.00%	\$1,221
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$24,789
Sales tax (material)	7.75%	\$631
Sales tax (equipment)	7.75%	\$12,808
Material Shipping & Handling	2.50%	\$204
Worker's Travel/Subsistence	0.10%	\$47
Subtotal		\$271,916
Contractor General Conditions	12.00%	\$32,630
Subtotal		\$304,546
Earthquake Insurance	0.10%	\$305
Subtotal		\$304,851
Construction Contingency	20.00%	\$60,970
Subtotal		\$365,821
Bldg Risk, Liability Auto Ins.	2.00%	\$7,316
Subtotal		\$373,138
Performance Bond	1.00%	\$3,731
Payment Bond	1.00%	\$3,731
Subtotal		\$380,600
Engineering Fee	10.00%	\$22,383
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$412,983



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BJ-1 - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
02 - SITI	CONSTRUCTION												
02210 -	Clear and grub			A4 750 00	010 551 00	00.00	00.00	A 0.000.00	000 110 00	0544544	00.00		000.070.00
	Clear & grub, brush, including stumps	6	Acre	\$1,759.00	\$10,554.00	\$0.00	\$0.00	\$3,686.00	\$22,116.00	\$5445 / Acre	\$0.00	\$0.00	\$32,670.00
02310 - 1	Fine grade												
	Grade pad, contour area	23334	Sqyd	\$0.55	\$12,833.70	\$0.00	\$0.00	\$0.44	\$10,266.96	\$0.99 / Sqyd	\$0.00	\$0.00	\$23,100.66
	Grade slopes	6556	Sqyd	\$0.55	\$3,605.80	\$0.00	\$0.00	\$0.44	\$2,884.64	\$0.99 / Sqyd	\$0.00	\$0.00	\$6,490.44
02320 - 1													
	Backfill, dozer backfilling, trench, no compaction	7300	Cuyd	\$0.80	\$5,840.00	\$0.00	\$0.00	\$1.28	\$9,344.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$15,184.00
02360 -	Compaction												
02000	Compaction, trench, walk behind, vib Plate	7300	Cuyd	\$1.90	\$13,870.00	\$0.00	\$0.00	\$0.51	\$3,723.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$17,593.00
			,-	******	***************************************	7000	*****	4	70,1.20.00		70.00	74.44	***,******
02400 - 1	Excavating bulk, dozer,												
	Hauling, LCY, no loading, 50" haul	31450	Cuyd	\$0.58	\$18,241.00	\$0.00	\$0.00	\$0.95	\$29,877.50	\$1.53 / Cuyd	\$0.00	\$0.00	\$48,118.50
00.440	To a control to the discount of the control of the												
02410 - 1	Excavation, bulk, scrapers	7200	C	£4.00	\$9,417.00	CO.00	\$0.00	\$5.19	\$37,887.00	C 40 / Cd	\$0.00	#0.00	\$47,304.00
	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	7300	Cuyd	\$1.29	\$9,417.00	\$0.00	\$0.00	ф5.19	\$37,887.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$47,304.00
02480 -	Rip-rap												
	Rip-rap, energy dissipater	120	Sqyd	\$55.00	\$6,600.00	\$25.00	\$3,000.00	\$18.70	\$2,244.00	\$98.7 / Sqyd	\$0.00	\$0.00	\$11,844.00
										.,			
02490 - 1	Erosion Control												
	Erosion control, jute mesh, 100 SY per roll, 4' wide	6556	Sqyd	\$0.48	\$3,146.88	\$0.75	\$4,917.00	\$0.12		\$1.35 / Sqyd		\$0.00	\$8,850.60
	Erosion control, silt fence, polypropylene, 3' high	1800	Inft	\$0.80	\$1,440.00	\$0.34	\$612.00	\$0.00		\$1.14 / Inft		\$0.00	\$2,052.00
	Erosion control, silt fence, polypropylene, 3' high, remove	1800	Inft	\$0.80	\$1,440.00	\$0.00	\$0.00	\$0.00		\$0.8 / Inft		\$0.00	\$1,440.00
	Erosion control, hay bales, staked	2200	Inft	\$1.19	\$2,618.00	\$2.25	\$4,950.00	\$0.10	\$220.00	\$3.54 / Inft	\$0.00	\$0.00	\$7,788.00
02840 -	Landscaping												
02040 - 1	Slope Landscaping/irrigation	59000	Sqft	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$29500 / Sqft	\$29,500.00	\$0.00	\$29.500.00
			- 4	******	******	70.00	*****	*****	70.00	7-11111	V =0,000000	74.44	
	SITE CONSTRUCTION Tota	I			\$89,606.38		\$13,479.00		\$119,349.82		\$29,500.00	\$0.00	\$251,935.20
03 - COI	ICRETE												
03150 -	Concrete, ready mix		01	60.00	#0.00	#0.00	# 0.00	#0.00	#0.00	\$4000 / Od	#0.00	#0.000.00	#0 000 00
	Headwall Headwall	3	Cuyd Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$1000 / Cuyd \$1000 / Cuyd		\$3,000.00 \$3,000.00	\$3,000.00 \$3,000.00
	3'x6' RCB Culvert	16		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyd		\$16,000.00	\$3,000.00
	SAS TOS SUIVOIT	10	Juyu	Ψ0.00	ψ0.00	ψυ.υυ	ψ0.00	ψ0.00	ψ0.00	ψ1000 / Ouyu	Ψ0.00	ψ10,000.00	ψ / υ, υυυ. υ
	CONCRETE Tota	1			\$0.00		\$0.00		\$0.00		\$0.00	\$22,000.00	\$22,000.00
	IIPMENT												
11010 - 1	Process Equipment												
	Water unit	1628	Gal	\$0.70	\$1,139.60	\$1.05	\$1,709.40	\$0.00	\$0.00	\$1.75 / Gal	\$0.00	\$0.00	\$2,849.00
	EQUIPMENT Tota	,			\$1,139.60		\$1,709.40		\$0.00		\$0.00	\$0.00	\$2,849.00
	EQUIPMENT Tota	1			φ1,139.0U		φ1,709.40		\$0.00		φυ.00	φυ.υυ	φ ∠ , 049. 00
	Project BJ-1 Tota	1			\$90,745.98		\$15,188.40		\$119,349.82		\$29,500.00	\$22,000.00	\$276,784.20
	770/000 20 77000				<i>ϕ==,: :3100</i>		Ţ.c,.cc.10		Ç,		,3100		<i>,</i> ,
	Grand Total				\$90,745.98		\$15,188.40		\$119,349.82		\$29,500.00	\$22,000.00	\$276,784.20

Category	Percent	Amount
Labor	32.79%	\$90,746
Material	5.49%	\$15,188
Equipment	43.12%	\$119,350
Subcontractor	10.66%	\$29,500
Other	7.95%	\$22,000
Net Costs		\$276,784
Labor Mark-up	18.00%	\$16,334
Material Mark-up	15.00%	\$2,278
Subcontractor Mark-up	5.00%	\$1,475
Equipment Mark-up	15.00%	\$17,902
Sales tax (material)	7.75%	\$1,177
Sales tax (equipment)	7.75%	\$9,250
Material Shipping & Handling	2.50%	\$380
Worker's Travel/Subsistence	0.10%	\$91
Subtotal		\$325,671
Contractor General Conditions	12.00%	\$39,081
Subtotal		\$364,752
Earthquake Insurance	0.10%	\$365
Subtotal		\$365,117
Construction Contingency	20.00%	\$73,023
Subtotal		\$438,140
Bldg Risk, Liability Auto Ins.	2.00%	\$8,763
Subtotal		\$446,903
Performance Bond	1.00%	\$4,469
Payment Bond	1.00%	\$4,469
Subtotal		\$455,841
Engineering Fee	10.00%	\$27,678
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$500,519



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BJB - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BJB												
02 - SIT	E CONSTRUCTION												
02340 -	Bedding												
	Backing Material class #1	150	Cuyd	\$17.00	\$2,550.00	\$60.00	\$9,000.00	\$20.00	\$3,000.00	\$97 / Cuyd	\$0.00	\$0.00	\$14,550.00
02360	- Compaction												
	Compaction, trench, walk behind, vib Plate	80	Cuyd	\$1.90	\$152.00	\$0.00	\$0.00	\$0.51	\$40.80	\$2.41 / Cuyd	\$0.00	\$0.00	\$192.80
02450	- Excavating												
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	440	Cuyd	\$1.95	\$858.00	\$0.00	\$0.00	\$1.42	\$624.80	\$3.37 / Cuyd	\$0.00	\$0.00	\$1,482.80
02460 -	Hauling												
	Disposal fee	25	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,625,00	\$2,625,00
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	440	Cuyd	\$7.18		\$3.00	\$1,320.00	\$15.45	\$6,796.43	\$25.63 / Cuyd	\$0.00		\$11,275.63
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	440	Cuyd	\$0.74	\$325.60	\$0.00	\$0.00	\$1.24	\$545.60	\$1.98 / Cuyd	\$0.00	\$0.00	\$871.20
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	525	Sqyd	\$0.32	\$168.00	\$1.85	\$971.25	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$1,139.25
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	290	Cuyd	\$49.95	\$14,485.50	\$60.56	\$17,562.40	\$16.44	\$4,767.60	\$126.95 / Cuyd	\$0.00	\$0.00	\$36,815.50
	SITE CONSTRUCTION Total				\$21,698.30		\$28.853.65		\$15.775.23		\$0.00	\$2.625.00	\$68,952.18
03 - CO	NCRETE				φ2 1,000.00		Ψ20,000.00		ψ10,110.20		φο.σσ	ΨΕ,0Ε0.00	φου,σοΣ. το
03150 -	Concrete, ready mix												
	Wing wall for 7'X11' box culvert	9	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$9,000.00	\$9,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$9,000.00	\$9,000.00
	Desired D.D. Total				£24 600 20		#20.052.65		\$4E 77E 00		60.00	£44.625.00	\$77.050.40
	Project BJB Total				\$21,698.30		\$28,853.65		\$15,775.23		\$0.00	\$11,625.00	\$77,952.18
	Grand Total				\$21,698.30		\$28,853.65		\$15,775.23		\$0.00	\$11,625.00	\$77,952.18

Category	Percent	Amount
Labor	27.84%	\$21,698
Material	37.01%	\$28,854
Equipment	20.24%	\$15,775
Subcontractor	0.00%	\$0
Other	14.91%	\$11,625
Net Costs		\$77,952
Labor Mark-up	18.00%	\$3,906
Material Mark-up	15.00%	\$4,328
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$2,366
Sales tax (material)	7.75%	\$2,236
Sales tax (equipment)	7.75%	\$1,223
Material Shipping & Handling	2.50%	\$721
Worker's Travel/Subsistence	0.10%	\$22
Subtotal		\$92,754
Contractor General Conditions	12.00%	\$11,130
Subtotal		\$103,884
Earthquake Insurance	0.10%	\$104
Subtotal		\$103,988
Construction Contingency	25.00%	\$25,997
Subtotal		\$129,985
Bldg Risk, Liability Auto Ins.	2.00%	\$2,600
Subtotal		\$132,585
Performance Bond	1.00%	\$1,326
Payment Bond	1.00%	\$1,326
Subtotal		\$135,237
Engineering Fee	10.00%	\$7,795
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$153,032



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/11/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BL-U - Located in Basin B

Item	Item Description Q	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BL-U												
01 - GEI	NERAL REQUIREMENTS												
0.40.00													
01200 -	General equipment rental Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2,400.00	\$240 / Day	\$0.00	\$0.00	\$2,400.00
	Trench Plates allowance	10	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00		\$2,400.00
	GENERAL REQUIREMENTS Total			ψ0.00	\$0.00	ψ0.00	\$0.00	Ψ000.00	\$3,300.00	φοσο γ ιο	\$0.00	\$0.00	\$3,300.00
02 - SIT	E CONSTRUCTION												
02020 -	Underground marking tape												
02020	Underground tape, detectable aluminum, 2"	8	Clf	\$2.34	\$18.72	\$3.06	\$24.48	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$43.20
02320 -	Backfill Sackfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	943	Cuyd	\$0.80	\$754.40	\$0.00	\$0.00	\$1.28	\$1,207.04	\$2.08 / Cuyd	\$0.00	\$0.00	\$1,961.44
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	737	Cuyd	\$8.47	\$6,242.39	\$32.03	\$23,606.11	\$1.89	\$1,392.93	\$42.39 / Cuyd	\$0.00	\$0.00	\$31,241.43
02360 -	Compaction	00	0	64.00	\$176.70	\$0.00	\$0.00	\$0.51	\$47.43	\$2.41 / Cuyd	#0.00	\$0.00	\$224.13
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	93 634	Cuyd Cuyd	\$1.90 \$2.93	\$176.70 \$1,857.62	\$0.00	\$0.00 \$0.00	\$0.51 \$0.78		\$2.41 / Cuyd \$3.71 / Cuyd	\$0.00 \$0.00		\$224.13 \$2,352.14
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	849	Cuyd	\$2.93	\$2,487.57	\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd	\$0.00		\$3,149.79
00.450			Í							•			
02450 -	Excavating, trench Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1729	Cuyd	\$1.76	\$3,043.04	\$0.00	\$0.00	\$1.28	\$2,213.12	\$3.04 / Cuyd	\$0.00	\$0.00	\$5,256.16
			,				·				•		
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1218	Cuyd	\$5.95	\$7,247.10	\$0.00	\$0.00	\$10.40	\$12,667.20	\$16.35 / Cuyd	\$0.00		\$19,914.30
	Loading Trucks, F.E. Loader, 3 C.Y	1218	Cuyd	\$0.74	\$901.32	\$0.00	\$0.00	\$1.24	\$1,510.32	\$1.98 / Cuyd	\$0.00	\$0.00	\$2,411.64
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes												
	Junction structure	2	Each	\$680.00	\$1,360.00	\$6,000.00	\$12,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00		\$13,360.00
	CB or manholes, conc, precast, 4' ID, 6' deep	4	Each	\$549.75	\$2,199.00	\$1,050.00	\$4,200.00	\$148.32		\$1748.07 / Each	\$0.00		\$6,992.28
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each Each	\$158.75 \$162.82	\$635.00 \$651.28	\$201.00 \$260.00	\$804.00 \$1,040.00	\$35.44 \$36.35	\$141.76 \$145.40	\$395.19 / Each \$459.17 / Each	\$0.00 \$0.00		\$1,580.76 \$1,836.68
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$162.82	\$576.00	\$260.00	\$400.00	\$0.00	\$0.00	\$244 / Each	\$0.00		\$1,836.66
	Catch basins or manholes, steps, standard sizes, aluminum	12	Each	\$9.66	\$115.92	\$26.50	\$318.00	\$0.00	\$0.00	\$36.16 / Each	\$0.00		\$433.92
	Cleanout	1	Each	\$1,019.00	\$1,019.00	\$1,560.00	\$1,560.00	\$249.00	\$249.00	\$2828 / Each	\$0.00		\$2,828.00
	SITE CONSTRUCTION Total				\$29,285.06		\$43,952.59		\$21,324.22		\$0.00	\$2,614.00	\$97,175.87
15 - ME	CHANICAL												
15090 -	Pipe, draipage & course PCP, close 3, no gaskete 20" die	800	Lnft	¢20.70	\$31,760.00	₹70.00	\$60.400.00	60.04	\$3,152.00	¢101.04 / L=#	#0.00	\$0.00	¢07.040.00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 39" dia Piping, water dist, conc pipe, gasket, 39" dia	800	Each	\$39.70 \$3.14	\$31,760.00	\$78.00 \$9.20	\$62,400.00 \$736.00	\$3.94 \$0.00		\$121.64 / Lnft \$12.34 / Each	\$0.00 \$0.00		\$97,312.00 \$987.20
		50	Luon	ψ0.14	,	ψ5.20		Ψ0.00		ψ12.0∓ / Ed011		***	
	MECHANICAL Total				\$32,011.20		\$63,136.00		\$3,152.00		\$0.00	\$0.00	\$98,299.20
	Project BL-U Total				\$61,296.26		\$107,088.59		\$27,776.22		\$0.00	\$2,614.00	\$198,775.07
	Grand Total				\$61,296.26		\$107,088.59		\$27,776.22		\$0.00	\$2,614.00	\$198,775.07

Category	Percent	Amount
Labor	5.20%	\$61,296
Material	9.09%	\$107,089
Equipment	2.36%	\$27,776
Subcontractor	0.00%	\$0
Other	0.22%	\$2,614
Net Costs		\$198,775
Labor Mark-up	18.00%	\$11,033
Material Mark-up	15.00%	\$16,063
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,166
Sales tax (material)	7.75%	\$8,299
Sales tax (equipment)	7.75%	\$2,153
Material Shipping & Handling	2.50%	\$2,677
Worker's Travel/Subsistence	0.10%	\$61
Subtotal		\$243,229
Contractor General Conditions	12.00%	\$29,187
Subtotal		\$272,416
Earthquake Insurance	0.10%	\$272
Subtotal		\$272,689
Construction Contingency	25.00%	\$68,172
Subtotal		\$340,861
Bldg Risk, Liability Auto Ins.	2.00%	\$6,817
Subtotal		\$347,678
Performance Bond	1.00%	\$3,477
Payment Bond	1.00%	\$3,477
Subtotal		\$354,631
Engineering Fee	10.00%	\$19,878
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$384,509



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BL-L - Located in Basin B

Item	Item Description Quant	ity Ur	nit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I													
01 - GE	NERAL REQUIREMENTS												
01200 -	General equipment rental	4	D	60.00	#0.00	#0.00	#0.00	#040.00	€ 0.40.00	\$0.40 / D	#0.00	# 0.00	CO 40 00
	Trench box, 9500 lbs, 8'x 20' Trench Plates allowance	1	Day Mo	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$240.00 \$900.00	\$240.00 \$900.00	\$240 / Day \$900 / Mo	\$0.00 \$0.00		\$240.00 \$900.00
	GENERAL REQUIREMENTS Total	- 1	IVIO	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$900.00	\$1,140.00	\$900 / 1010	\$0.00	\$0.00	\$1,140.00
	OLIVEI NE QUI LIVEI VI O TOTAL				Ψ0.00		ψ0.00		ψ1,140.00		Ψ0.00	Ψ0.00	ψ1,140.00
02 SITE	CONSTRUCTION												
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	10 5	Sqyd	\$5.29	\$52.90	\$0.00	\$0.00	\$3.49	\$34.90	\$8.78 / Sqyd	\$0.00	\$0.00	\$87.80
	Asphalt disposal - hauling and disposal fee, 4" thick	1 8	Sqyd	\$1.00	\$1.00	\$4.70	\$4.70	\$1.32	\$1.32	\$7.02 / Sqyd	\$0.00	\$0.00	\$7.02
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep		Lnft	\$0.48	\$31.20	\$0.07	\$4.55	\$0.26		\$0.81 / Lnft			\$52.65
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	65	Lnft	\$0.82	\$53.30	\$0.30	\$19.50	\$0.44	\$28.60	\$1.56 / Lnft	\$0.00	\$0.00	\$101.40
00010	Fine words												
02310 -	Fine grade	40 6		00.00	40.00	# 0.00	# 0.00	00.04	00.40	00.47.40		00.00	0.4.70
	Fine grade under asphalt	10 5	Sqyd	\$0.26	\$2.60	\$0.00	\$0.00	\$0.21	\$2.10	\$0.47 / Sqyd	\$0.00	\$0.00	\$4.70
ດລວວດ	Backfill												
02320 -	Backfill, dozer backfilling, trench, no compaction	33 C	Cuyd	\$0.80	\$26.40	\$0.00	\$0.00	\$1.28	\$42.24	\$2.08 / Cuyd	\$0.00	\$0.00	\$68.64
	Backilli, dozel backilling, trench, no compaction	33 (Juyu	φυ.ου	\$20.40	φ0.00	φυ.υυ	ψ1.20	Ψ42.24	\$2.00 / Cuyu	\$0.00	\$0.00	ФО.04
02340 -	Bedding												
02010	Bedding, crushed stone 3/4" to 1/2"	9 (Cuyd	\$8.47	\$72.00	\$32.03	\$272.26	\$1.89	\$16.07	\$42.39 / Cuyd	\$0.00	\$0.00	\$360.32
			,.	*****	¥	40=.00	*	******	Ţ.0.0.	*	70.00	73.33	*******
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	74 C	Cuyd	\$1.90	\$140.60	\$0.00	\$0.00	\$0.51	\$37.74	\$2.41 / Cuyd	\$0.00	\$0.00	\$178.34
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding		Cuyd	\$2.93	\$216.82	\$0.00	\$0.00	\$0.78	\$57.72	\$3.71 / Cuyd	\$0.00	\$0.00	\$274.54
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	74 (Cuyd	\$2.93	\$216.82	\$0.00	\$0.00	\$0.78	\$57.72	\$3.71 / Cuyd	\$0.00	\$0.00	\$274.54
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	107 C	Cuyd	\$1.76	\$188.32	\$0.00	\$0.00	\$1.28	\$136.96	\$3.04 / Cuyd	\$0.00	\$0.00	\$325.28
02460 -	Hauling			05.05	# 4 4 0 0 0	# 0.00	# 0.00	A40.40	\$700.00	040.05.40		00.00	A 4 000 00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr		Cuyd	\$5.95	\$440.30 \$54.76	\$0.00	\$0.00	\$10.40 \$1.24	\$769.60	\$16.35 / Cuyd		*	\$1,209.90
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	/4 C	Cuyd Trk	\$0.74 \$0.00	\$54.76 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00	\$91.76 \$0.00	\$1.98 / Cuyd \$105 / Trk			\$146.52 \$388.50
	Disposal fee	4	IIK	φυ.υυ	φυ.υυ	\$0.00	\$0.00	φυ.υυ	\$0.00	\$105 / TIK	φυ.υυ	\$300.30	φ300.30
02490 -	Erosion control												
	Erosion control allowance::	1 L	.sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
				,0	‡ 2.00	‡ 3.30	\$2.00	41.00	\$2.30		75.00	733330	+
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	10 5	Sqyd	\$0.80	\$8.00	\$8.06	\$80.60	\$1.02	\$10.20	\$9.88 / Sqyd	\$0.00	\$0.00	\$98.80
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	10 S	Sqyd	\$35.00	\$350.00	\$18.00	\$180.00	\$2.98	\$29.80	\$55.98 / Sqyd	\$0.00	\$0.00	\$559.80
02840 -	Landscaping												
	Landscaping Allowance:		.sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$500 / Lsum			\$500.00
	Traffic Control Allowance:	1 L	.sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	OUTE CONOTRUCTION TO A				Ø4 055 00		ØE04.01		Ø4 000 00		Ø500.00	¢4 000 50	ØF 000 75
	SITE CONSTRUCTION Total				\$1,855.02	+	\$561.61		\$1,333.63		\$500.00	\$1,388.50	\$5,638.75
											1		

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEC	CHANICAL												
15090 - 1	Pipe,drng&sewage,concret	00	1 61	6405.05	© 0 F 04 00	#450.00	# 0.000.00	640.40	#0.40.00	\$507.45 / L-ft	\$ 0.00	#0.00	C14 740 00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 90" dia Piping, water dist, conc pipe, gasket, 90" dia	20 2	Lnft Each	\$125.05 \$3.14	\$2,501.00 \$6.28	\$450.00 \$36.00	\$9,000.00 \$72.00	\$12.40 \$0.00		\$587.45 / Lnft \$39.14 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$11,749.00 \$78.28
	riping, water dist, conc pipe, gasker, 90 dia	2	Lacii	φ5.14	φ0.20	φ30.00	\$72.00	φ0.00	φυ.υυ	φ39.14 / Lacii	φ0.00	φ0.00	Ψ10.20
	MECHANICAL Total				\$2,507.28		\$9,072.00		\$248.00		\$0.00	\$0.00	\$11,827.28
	Project BL-L (90 inch RCP) Total				\$4,362.30		\$9,633.61		\$2,721.63		\$500.00	\$1,388.50	\$18,606.03
-													
Project F	L-L - Bridge												
	NERAL REQUIREMENTS												
O7 OL1	VETVE NE QUI LEMENTO												
01210 -	Lifting and hoisting equipment												
	Rent crane truck mounted, hydraulic, 55 ton capacity	30	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$29,700.00	\$28038 / Day	\$27,048.00	\$0.00	\$56,748.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$29,700.00		\$27,048.00	\$0.00	\$56,748.00
02 SITE	CONSTRUCTION												
UZ SITE	CONSTRUCTION												
02280 -	Sheet piling												
02200	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2700	Sqft	\$14.03	\$37,881.00	\$11.41	\$30,807.00	\$10.60	\$28,620.00	\$36.04 / Sqft	\$0.00	\$0.00	\$97,308.00
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$8.47	\$440.44	\$32.03	\$1,665.56	\$1.89	\$98.28	\$42.39 / Cuyd	\$0.00	\$0.00	\$2,204.28
02260	Compaction												
02360 -	Compaction Compaction, walk behind, vibrating plate 18" wide, subgrade	25	Cuyd	\$1.90	\$47.50	\$0.00	\$0.00	\$0.51	\$12.75	\$2.41 / Cuyd	\$0.00	\$0.00	\$60.25
	Compaction, walk behind, vibrating plate 15 wide, subgrade Compaction, walk behind, vibrating plate 18" wide, bedding	50	Cuyd	\$1.90	\$95.00	\$0.00	\$0.00	\$0.51		\$2.41 / Cuyd		\$0.00	\$120.50
	compaction, main porting, therating place to that, bedaining		Cuju	ψ1.00	φου.σσ	ψ0.00	ψ0.00	ψ0.01	\$20.00	ψ <u>2</u> , σαγα	\$0.00	ψ0.00	\$120.00
02420 - 1	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	2000	Cuyd	\$5.28	\$10,560.00	\$0.00	\$0.00	\$6.70	\$13,400.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$23,960.00
02420 - 1		0000	01	\$5.95	£45.470.00	\$0.00	\$0.00	C40.40	#07.040.00	\$40.05 / Od	\$0.00	\$0.00	£40.540.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Loading Trucks, F.E. Loader, 3 C.Y	2600 2600	Cuyd Cuyd	\$5.95 \$0.74	\$15,470.00 \$1,924.00	\$0.00	\$0.00	\$10.40 \$1.24		\$16.35 / Cuyd \$1.98 / Cuyd	\$0.00 \$0.00	\$0.00	\$42,510.00 \$5,148.00
	Disposal fee	130	Trk	\$0.74	\$0.00	\$0.00	\$0.00	\$0.00		\$1.96 / Cuyu	\$0.00	\$13,650.00	\$13,650.00
	STOPOGET TOO			ψ0.00	φο.σσ	ψ0.00	ψ0.00	ψ0.00	φσ.σσ	ψ1007111	\$0.00	ψ10,000.00	\$10,000.00
	SITE CONSTRUCTION Total				\$66,417.94		\$32,472.56		\$72,420.53		\$0.00	\$0.00	\$184,961.03
03 - COI	NCRETE												
02150	Concrete ready mix												
03130 -	Concrete, ready mix Wall, bridge	278	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$278,000.00	\$278,000.00
	Footing	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyd	\$0.00	\$32,000.00	\$32,000.00
	Elevated slab	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyd	\$0.00	\$32,000.00	\$32,000.00
	Headwall	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$10,000.00	\$10,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$352,000.00	\$352,000.00

Item	Item Description Qu	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
05 - ME	TALS												
05010 -	Misc Metals												
	Misc metals, allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.0
05040 -	Structural steel members												
	Struct stl, WF, W 36 x 170	270	Lnft	\$4.66	\$1,258.20	\$192.44	\$51,958.80	\$1.87	\$504.90	\$198.97 / Lnft	\$0.00	\$0.00	\$53,721.9
	MECHANICAL Total				\$1,258.20		\$51,958.80		\$504.90		\$0.00	\$500.00	\$54,221.90
	111251111101121000				ψ1,200.20		\$01,000.00		\$00.1100		φο.σσ	\$000.00	ψο 1,22 1.00
	Project Bridge Total				\$67,676.14		\$84,431.36		\$102,625.43		\$27,048.00	\$352,500.00	\$647,930.93
	Project BL-L Total				\$72,038.44		\$94,064.97		\$105,347.06		\$27,548.00	\$353,888.50	\$666,536.96
	Grand Total				\$72,038.44		\$94,064.97		\$105,347.06		\$27,548.00	\$353,888.50	\$652,886.9

Category	Percent	Amount
Labor	6.11%	\$72,038
Material	7.98%	\$94,065
Equipment	8.94%	\$105,347
Subcontractor	2.34%	\$27,548
Other	30.03%	\$353,889
Net Costs		\$652,887
Labor Mark-up	18.00%	\$12,967
Material Mark-up	15.00%	\$14,110
Subcontractor Mark-up	5.00%	\$1,377
Equipment Mark-up	15.00%	\$15,802
Sales tax (material)	7.75%	\$7,290
Sales tax (equipment)	7.75%	\$8,164
Material Shipping & Handling	2.50%	\$2,352
Worker's Travel/Subsistence	0.10%	\$72
Subtotal		\$715,021
Contractor General Conditions	12.00%	\$85,803
Subtotal		\$800,824
Earthquake Insurance	0.10%	\$801
Subtotal		\$801,625
Construction Contingency	20.00%	\$160,325
Subtotal		\$961,949
Bldg Risk, Liability Auto Ins.	2.00%	\$19,239
Subtotal		\$981,188
Performance Bond	1.00%	\$9,812
Payment Bond	1.00%	\$9,812
Subtotal		\$1,000,812
Engineering Fee	10.00%	\$65,289
Environ Permitting/Monitoring (L.S.)	-	\$750,000
Total Estimate		\$1,816,101



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BM - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
02 SITE	CONSTRUCTION												
02210 -	 Fine grade												
02310 -	Fine grade under asphalt	293	Sqyd	\$0.26	\$76.18	\$0.00	\$0.00	\$0.21	\$61.53	\$0.47 / Sqyd	\$0.00	\$0.00	\$137.71
	i ine grade drider asprian	233	Oqyu	Ψ0.20	ψ7 0.10	ψ0.00	ψ0.00	Ψ0.21	ψ01.55	φυ.+ <i>i</i> / Oqyu	ψ0.00	ψ0.00	ψ101.11
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	125	Cuyd	\$8.47	\$1,058.75	\$32.03	\$4,003.75	\$1.89	\$236.25	\$42.39 / Cuyd	\$0.00	\$0.00	\$5,298.75
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	381	Cuyd	\$1.90	\$723.90	\$0.00	\$0.00	\$0.51	\$194.31	\$2.41 / Cuyd		\$0.00	\$918.21
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	381	Cuyd	\$2.93		\$0.00	\$0.00	\$0.78		\$3.71 / Cuyd		\$0.00	\$1,413.51
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	381	Cuyd	\$2.93	\$1,116.33	\$0.00	\$0.00	\$0.78	\$297.18	\$3.71 / Cuyd	\$0.00	\$0.00	\$1,413.51
00.450	Formation (mark												
02450 -	Excavating, trench Excavate trench, common earth curb, 4'-6' deep, 1-1/2 CY hyd	636	Cuyd	\$1.95	\$1,240.20	\$0.00	\$0.00	\$1.42	\$903.12	\$3.37 / Cuyd	\$0.00	\$0.00	\$2,143.32
	Excavate trench, common earth curb, 4-6 deep, 1-1/2 CY nyd	030	Cuya	\$1.95	\$1,240.20	\$0.00	\$0.00	\$1.42	\$903.12	\$3.37 / Cuyu	\$0.00	\$0.00	\$2,143.32
02480 -	Rin-ran												
02 700	Rip-rap, energy dissipater	34	Sqyd	\$55.00	\$1.870.00	\$25.00	\$850.00	\$18.70	\$635.80	\$98.7 / Sqyd	\$0.00	\$0.00	\$3.355.80
	The rap, and go and parts		- 45 -	******	\$ 1,01010	4-0.00	***************************************	*	· · · · · · · · · · · · · · · · · · ·	+	V 3.33	70.00	**,*******
02490 -	Erosion control												
	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	376	Sqyd	\$0.80	\$300.80	\$8.06	\$3,030.56	\$1.02	\$383.52	\$9.88 / Sqyd	\$0.00	\$0.00	\$3,714.88
00040	Landscaping												
02840 -	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00	\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$500 / Lsum		\$500.00	\$500.00 \$500.00
	Trailic Control Allowance.	ı	LSuili	φυ.υυ	φυ.υυ	\$0.00	φυ.υυ	φυ.υυ	\$0.00	\$500 / LSuiii	\$0.00	\$500.00	φ500.00
	SITE CONSTRUCTION Total				\$7,502.49		\$7,884.31		\$3,008.89		\$500.00	\$5,728.00	\$24,623.69
	CHE CONCINCTION FOR				ψ1,002.10		<i>\$7,001.01</i>		\$0,000.00		\$000.00	\$5,725.55	φ2 1,020.00
03 - CO	NCRETE												
03150 -	Concrete, ready mix												
	5'x32" RCB Culvert	99	Cuyd	\$0.00		\$0.00	\$0.00	\$0.00		\$1000 / Cuyd		\$99,000.00	\$99,000.00
	Headwall	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	*	\$1000 / Cuyd		\$2,000.00	\$2,000.00
	Headwall	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$2,000.00	\$2,000.00
	CONODETE T-1-1				# 0.00		# 0.00		# 0.00		fc 00	£402.000.00	\$103,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$103,000.00	\$103,000.00
	Project BM Total				\$7,502.49		\$7,884.31		\$3,008.89		\$500.00	\$108,728.00	\$127,623.69
	FTOJECT BIVI TOTAL				φ1,502.49		φ1,004.31		φ3,000.09		φυσυ.συ	φ100,120.00	φ121,023.09
	Grand Total				\$7.502.49		\$7.884.31		\$3.008.89		\$500.00	\$108.728.00	\$127,623.69
	Joining Total				91,302.43		ψ1,004.31		Ψ5,000,03		Ψ300.00	ψ100,120.00	Ψ121,023.03

Category	Percent	Amount
Labor	0.64%	\$7,502
Material	0.67%	\$7,884
Equipment	0.26%	\$3,009
Subcontractor	0.04%	\$500
Other	9.23%	\$108,728
Net Costs		\$127,624
Labor Mark-up	18.00%	\$1,350
Material Mark-up	15.00%	\$1,183
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$451
Sales tax (material)	7.75%	\$611
Sales tax (equipment)	7.75%	\$233
Material Shipping & Handling	2.50%	\$197
Worker's Travel/Subsistence	0.10%	\$8
Subtotal		\$131,682
Contractor General Conditions	12.00%	\$15,802
Subtotal		\$147,484
Earthquake Insurance	0.10%	\$147
Subtotal		\$147,631
Construction Contingency	20.00%	\$29,526
Subtotal		\$177,158
Bldg Risk, Liability Auto Ins.	2.00%	\$3,543
Subtotal		\$180,701
Performance Bond	1.00%	\$1,807
Payment Bond	1.00%	\$1,807
Subtotal		\$184,315
Engineering Fee	10.00%	\$12,762
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$204,077



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BN - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BN												
02 - SIT	E CONSTRUCTION												
02060 -	Site demolition												
	Site dml, conc7" to 24" thick, rod reinforced	23	Cuyd	\$92.56	\$2,128.88	\$0.00	\$0.00	\$61.09	\$1,405.07	\$153.65 / Cuyd	\$0.00	\$0.00	\$3,533.95
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	800	Cuyd	\$5.28	\$4,224.00	\$0.00	\$0.00	\$6.70	\$5,360.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$9,584.00
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	500	Cuyd	\$5.28	\$2,640.00	\$0.00	\$0.00	\$6.70	\$3,350.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$5,990.00
02430 -	l Fill												
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$0.72	\$1,008.00	\$0.00	\$0.00	\$1.15	\$1,610.00	\$1.87 / Cuyd	\$0.00	\$0.00	\$2,618.00
02460 -	Hauling												
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	23	Cuyd	\$5.95	\$136.85	\$0.00	\$0.00	\$10.40	\$239.20	\$16.35 / Cuyd	\$0.00	\$0.00	\$376.05
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600	Cuyd	\$5.95	\$15,470.00	\$0.00	\$0.00	\$10.40	\$27,040.00	\$16.35 / Cuyd	\$0.00	\$0.00	\$42,510.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 6 MI RT, 1 lds/hr	1400	Cuyd	\$10.52	\$14,728.00	\$0.00	\$0.00	\$18.95	\$26,529.00	\$29.47 / Cuyd	\$0.00	\$0.00	\$41,257.00
	Loading Trucks, F.E. Loader, 3 C.Y	2600	Cuyd	\$0.74	\$1,924.00	\$0.00	\$0.00	\$1.24	\$3,224.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$5,148.00
	Loading Trucks, F.E. Loader, 3 C.Y, concrete	23	Cuyd	\$0.74	\$17.02	\$0.00	\$0.00	\$1.24	\$28.52	\$1.98 / Cuyd	\$0.00	\$0.00	\$45.54
	Loading Trucks, F.E. Loader, 3 C.Y	1400	Cuyd	\$0.74	\$1,036.00	\$0.00	\$0.00	\$1.24	\$1,736.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$2,772.00
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1667	Sqyd	\$0.32	\$533.44	\$1.85	\$3,083.95	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$3,617.39
02480 -	Rip-rap												
02400 -	Backing Material class #1	33	Cuyd	\$17.00	\$561.00	\$60.00	\$1,980.00	\$20.00	\$660.00	\$97 / Cuyd	\$0.00	\$0.00	\$3,201.00
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	155	Sayd	\$56.55	\$8,765.25	\$49.55	\$7,680.25	\$12.33			\$0.00	*	\$18,356.65
	Rip-rap, gabions, galv steel mesh boxes, stone filled	165	Cuyd	\$49.95	\$8,241.75	\$60.56	\$9,992.40	\$16.44	\$2,712.60		\$0.00		\$20,946.75
	SITE CONSTRUCTION Total	1			\$61,414.19		\$22,736,60		\$75,805.54		\$0.00	\$2,100,00	\$162.056.33
03 - CO	NCRETE				φο1,414.10		ΨΣΣ,700.00		ψ70,000.07		φο.σσ	ΨΣ,100.00	ψ102,000.00
03150 -	Concrete, ready mix												
	Apron wall	8	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$8,000.00	\$8,000.00
			7 -	,	,,,,,		, 0.00	,	,,,,,	,	,,,,,		* - /
	CONCRETE Total	1			\$0.00		\$0.00		\$0.00		\$0.00	\$8,000.00	\$8,000.00
	Project BN Total				\$61,414.19		\$22,736.60		\$75,805.54		\$0.00	\$10,100.00	\$170,056.33
	One district				604 44 1 10		#00.706.00		A75 005 5 1		AC 00	\$40.400.00	\$470.0E6.00
	Grand Total				\$61,414.19		\$22,736.60		\$75,805.54		\$0.00	\$10,100.00	\$170,056.33

Category	Percent	Amount
Labor	5.21%	\$61,414
Material	1.93%	\$22,737
Equipment	6.43%	\$75,806
Subcontractor	0.00%	\$0
Other	0.86%	\$10,100
Net Costs		\$170,056
Labor Mark-up	18.00%	\$11,055
Material Mark-up	15.00%	\$3,410
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$11,371
Sales tax (material)	7.75%	\$1,762
Sales tax (equipment)	7.75%	\$5,875
Material Shipping & Handling	2.50%	\$568
Worker's Travel/Subsistence	0.10%	\$61
Subtotal		\$204,159
Contractor General Conditions	12.00%	\$24,499
Subtotal		\$228,658
Earthquake Insurance	0.10%	\$229
Subtotal		\$228,887
Construction Contingency	25.00%	\$57,222
Subtotal		\$286,108
Bldg Risk, Liability Auto Ins.	2.00%	\$5,722
Subtotal		\$291,831
Performance Bond	1.00%	\$2,918
Payment Bond	1.00%	\$2,918
Subtotal		\$297,667
Engineering Fee	10.00%	\$17,006
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$356,673



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BNB - Located in Basin B

Item	Item Description Qu	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BNB												
00 01	E CONSTRUCTION												
02 - 311	ECONSTRUCTION												
02060 -	- Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	204	Sqyd	\$5.29	\$1,077.63	\$0.00	\$0.00	\$3.49	\$710.95	\$8.78 / Sqyd	\$0.00	\$0.00	\$1,788.57
00000	- Backfill												
02320	Backfill, dozer backfilling, trench, no compaction, inlet	11000	Cuyd	\$0.80	\$8,800.00	\$0.00	\$0.00	\$1.28	\$14,080.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$22,880.00
	Datam, actor backming, across, no compacter, mac		Cuju	ψ0.00	ψο,σσσ.σσ	ψ0.00	ψ0.00	V.1.20	\$11,000.00	\$2.007 Gaya	\$0.00	φοισσ	\$22,000.00
02340 -	- Bedding												
	Bedding, crushed stone 3/4" to 1/2", inlet	1467	Cuyd	\$8.47	\$12,425.49	\$32.03	\$46,988.01	\$1.89	\$2,772.63	\$42.39 / Cuyd	\$0.00	\$0.00	\$62,186.13
02360	- Compaction												
02300	Compaction, trench, walk behind, vib. plate, bedding	11000	Cuyd	\$1.90	\$20,900.00	\$0.00	\$0.00	\$0.51	\$5,610.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$26,510.00
	Compaction, trench, walk behind, vib. plate, subgrade	667	Cuyd	\$1.90	\$1,266.73	\$0.00	\$0.00	\$0.51	\$340.02	\$2.41 / Cuyd		\$0.00	\$1,606.75
	Compaction, trench, walk behind, vib Plate	11000	Cuyd	\$1.90	\$20,900.00	\$0.00	\$0.00	\$0.51	\$5,610.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$26,510.00
00.450	Frequenting transle												
02450	Excavating, trench Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	17600	Cuyd	\$1.95	\$34,320.00	\$0.00	\$0.00	\$1.42	\$24.992.00	\$3.37 / Cuyd	\$0.00	\$0.00	\$59,312.00
	Executate deficit, the six of dewarg, 4 or B, 1 1/2 of thy abdo	17000	Ouyu	ψ1.00	ψο-1,020.00	ψ0.00	ψ0.00	Ψ112	ΨΣ-1,00Σ.00	φο.οτ / Οαγα	ψ0.00	ψ0.00	ψου,σ12.00
02480 -	- Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled	104	Cuyd	\$49.95	\$5,194.80	\$60.56	\$6,298.24	\$16.44	\$1,709.76	\$126.95 / Cuyd	\$0.00	\$0.00	\$13,202.80
02610 -	Asphalt concrete pavement												
02010 -	Asphaltic conc pavement, pavement replacement over trench, 6"	204	Sqyd	\$44.54	\$9,073.24	\$27.00	\$5,500.17	\$3.79	\$772.06	\$75.33 / Sqyd	\$0.00	\$0.00	\$15,345.47
			.,	·		·		•	·				
	SITE CONSTRUCTION Total				\$113,957.89		\$58,786.42		\$56,597.42		\$0.00	\$0.00	\$229,341.73
03 - CC	DNCRETE												
03150 -	Concrete, ready mix												
	Headwall, with apron	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$5,000.00	\$5,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$5,000.00	\$5,000.00
15 - ME	L ECHANICAL												
10 1112	OI WITO IL												
15090 -	- Pipe,drng&sewage,concrete												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 84" dia	3600	Lnft	\$125.05	\$450,180.00	\$300.00	\$1,080,000.00	\$12.40	\$44,640.00	\$437.45 / Lnft			\$1,574,820.00
	Piping, water dist, conc pipe, gasket, 84" dia	360	Each	\$3.14	\$1,130.40	\$36.00	\$12,960.00	\$0.00	\$0.00	\$39.14 / Each	\$0.00	\$0.00	\$14,090.40
15395 -	- Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 84" pipe size	9	Each	\$2,217.00	\$19,953.00	\$3,659.00	\$32,931.00	\$0.00	\$0.00	\$5876 / Each	\$0.00	\$0.00	\$52,884.00
							•	·					
	MECHANICAL Total				\$471,263.40		\$1,125,891.00		\$44,640.00		\$0.00	\$0.00	\$1,641,794.40
	Project BNB Total				\$585,221.29		\$1,184,677.42		\$101,237.42		\$0.00	\$5,000.00	\$1,876,136.13
	Troject BIVB Total				ψοσο,ΣΣ 1.29		\$1,104,011.42		ψ101,201.42		\$3.00	φο,σσσ.σσ	\$1,010,100.10
	Grand Total				\$585,221.29		\$1,184,677.42		\$101,237.42		\$0.00	\$5,000.00	\$1,876,136.13

Category	Percent	Amount
Labor	49.66%	\$585,221
Material	100.53%	\$1,184,677
Equipment	8.59%	\$101,237
Subcontractor	0.00%	\$0
Other	0.42%	\$5,000
Net Costs		\$1,876,136
Labor Mark-up	18.00%	\$105,340
Material Mark-up	15.00%	\$177,702
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$15,186
Sales tax (material)	7.75%	\$91,813
Sales tax (equipment)	7.75%	\$7,846
Material Shipping & Handling	2.50%	\$29,617
Worker's Travel/Subsistence	0.10%	\$585
Subtotal		\$2,304,224
Contractor General Conditions	12.00%	\$276,507
Subtotal		\$2,580,731
Earthquake Insurance	0.10%	\$2,581
Subtotal		\$2,583,311
Construction Contingency	20.00%	\$516,662
Subtotal		\$3,099,974
Bldg Risk, Liability Auto Ins.	2.00%	\$61,999
Subtotal		\$3,161,973
Performance Bond	1.00%	\$31,620
Payment Bond	1.00%	\$31,620
Subtotal		\$3,225,213
Engineering Fee	10.00%	\$187,614
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$3,422,826



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BP - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
01200	Trench box, 9500 lbs, 8'x 20'	4	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$960.00	\$240 / Day	\$0.00	\$0.00	\$960.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00		\$900 / Mo	\$0.00		\$900.00
							·						·
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,860.00		\$0.00	\$0.00	\$1,860.00
02 SHE	CONSTRUCTION												
02060 -	Site demolition												
02000 -	Site denominarial Site dml, no hauling, pavement removal, bit, 4" to 6" thick	15	Sqyd	\$5.29	\$79.35	\$0.00	\$0.00	\$3.49	\$52.35	\$8.78 / Sqyd	\$0.00	\$0.00	\$131.70
	Asphalt disposal - hauling and disposal fee, 4" thick	15		\$1.00	\$15.00	\$4.70	\$70.50	\$1.32		\$7.02 / Sqyd	\$0.00		\$105.30
	g and angesting and angesting and		1, -	*		*****	*******	*****	7.0.00	+,,,-		70.00	*
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	150	Lnft	\$0.48		\$0.07	\$10.50	\$0.26		\$0.81 / Lnft	\$0.00		\$121.50
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	150	Lnft	\$0.82	\$123.00	\$0.30	\$45.00	\$0.44	\$66.00	\$1.56 / Lnft	\$0.00	\$0.00	\$234.00
00010													
02310 -	Fine grade	45	01	#0.00	\$3.90	\$0.00	#0.00	\$0.21	CO 45	00 47 / OI	# 0.00	#0.00	\$7.05
	Fine grade under asphalt	15	Sqyd	\$0.26	\$3.90	\$0.00	\$0.00	\$0.21	\$3.15	\$0.47 / Sqyd	\$0.00	\$0.00	\$7.05
02320 -	Backfill												
02020	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	250	Cuyd	\$0.80	\$200.00	\$0.00	\$0.00	\$1.28	\$320.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$520.00
	Davidini, dozor backiming, tronon, ap to occ madi, no compaction,	200	ouyu	ψ0.00	\$200.00	ψ0.00	ψ0.00	ψ20	\$620.00	ψ2.007 0uyu	Ψ0.00	ψ0.00	ψ020.00
02340	- Bedding												
	Bedding, crushed stone 3/4" to 1/2", outlet	30	Cuyd	\$8.47	\$254.10	\$32.03	\$960.90	\$1.89	\$56.70	\$42.39 / Cuyd	\$0.00	\$0.00	\$1,271.70
02360	- Compaction												
	Compaction, trench, walk behind, vib. plate, subgrade outlet	250	Cuyd	\$1.90	\$475.00	\$0.00	\$0.00	\$0.51	\$127.50	\$2.41 / Cuyd	\$0.00	\$0.00	\$602.50
02450	- Excavating, trench												
02400	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	250	Cuyd	\$1.95	\$487.50	\$0.00	\$0.00	\$1.42	\$355.00	\$3.37 / Cuyd	\$0.00	\$0.00	\$842.50
			,-	*	7.0	70.00	71111	*****	700000			70.00	***************************************
02460 -	Hauling												
	Disposal fee	5	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	*	\$525.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site	100	Cuyd	\$4.66		\$0.00	\$0.00	\$9.74		\$14.4 / Cuyd	\$0.00		\$1,440.00
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	100	Cuyd	\$4.66		\$0.00	\$0.00	\$9.74	\$974.00	\$14.4 / Cuyd	\$0.00		\$1,440.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	100	Cuyd	\$7.18		\$3.00	\$300.00	\$15.45		\$25.63 / Cuyd	\$0.00		\$2,562.64
	Loading Trucks, F.E. Loader, 3 C.Y, stockpile	100	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24	\$124.00	\$1.98 / Cuyd	\$0.00		\$198.00
	Loading Trucks, F.E. Loader, 3 C.Y.	100 100	Cuyd Cuyd	\$0.74 \$0.74		\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$1.24		\$1.98 / Cuyd \$1.98 / Cuyd	\$0.00 \$0.00		\$198.00 \$198.00
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	100	Cuya	\$0.74	\$74.00	\$0.00	\$0.00	\$1.24	\$124.00	\$1.98 / Cuya	\$0.00	\$0.00	\$198.00
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	400	Sqyd	\$0.32	\$128.00	\$1.85	\$740.00	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$868.00
			.,,,										
02480 -	Rip-rap				-		-			·	-		·
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
00.400	Freedom control												
02490 -	Erosion control	4	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ֆ∠614 / LSUM	\$0.00	\$2,614.00	\$2,614.00
02600 -	Base course												
02000	Base course, large areas, crushed 3/4" stone, compacted to 12"	400	Sqyd	\$0.87	\$348.00	\$10.76	\$4,304.00	\$1.11	\$444.00	\$12.74 / Sqyd	\$0.00	\$0.00	\$5,096.00
		.00	Sqyu	Ψ0.01	ψ3.5.00	ψ.σ.70	ψ .,cc τ.00	Ψι	\$ 1.00	‡ . z , 5qyu	\$0.00	\$3.00	ψο,οοο.οο

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	15	Sqyd	\$35.00	\$525.00	\$18.00	\$270.00	\$2.98	\$44.70	\$55.98 / Sqyd	\$0.00	\$0.00	\$839.70
	SITE CONSTRUCTION Total				\$9,577.85		\$12,756.90		\$7,036.84		\$0.00	\$3,139.00	\$32,510.59
03 - CO	NCRETE												
03150	- Concrete, ready mix												
	Headwall, inlet	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$10,000.00	\$10,000.00
	6'x7' RCB Culvert	108	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$108,000.00	\$108,000.00
	4.3'x5.7' RCB Culvert	27	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$27,000.00	\$27,000.00
	Culvert, outlet	12	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$12,000.00	\$12,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$157,000.00	\$157,000.00
							·						,
	Project BP Total				\$9,577.85		\$12,756.90		\$8,896.84			\$160,139.00	\$191,370.59
	Grand Total				\$9,577.85		\$12,756.90		\$8,896.84		\$0.00	\$160,139.00	\$191,370.59

Category	Percent	Amount
Labor	0.81%	\$9,578
Material	1.08%	\$12,757
Equipment	0.75%	\$8,897
Subcontractor	0.00%	\$0
Other	13.59%	\$160,139
Net Costs		\$191,371
Labor Mark-up	18.00%	\$1,724
Material Mark-up	15.00%	\$1,914
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,335
Sales tax (material)	7.75%	\$989
Sales tax (equipment)	7.75%	\$690
Material Shipping & Handling	2.50%	\$319
Worker's Travel/Subsistence	0.10%	\$10
Subtotal		\$198,349
Contractor General Conditions	12.00%	\$23,802
Subtotal		\$222,151
Earthquake Insurance	0.10%	\$222
Subtotal		\$222,373
Construction Contingency	25.00%	\$55,593
Subtotal		\$277,967
Bldg Risk, Liability Auto Ins.	2.00%	\$5,559
Subtotal		\$283,526
Performance Bond	1.00%	\$2,835
Payment Bond	1.00%	\$2,835
Subtotal		\$289,197
Engineering Fee	10.00%	\$19,137
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$325,334



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BQ - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BQ												
02 - SIT	E CONSTRUCTION												
02 - 311	Leonstroction												
02210 -	Clear and grub												
	Clear & grub, brush, including stumps	0.29	Acre	\$1,759.00	\$510.11	\$0.00	\$0.00	\$3,686.00	\$1,068.94	\$5445 / Acre	\$0.00	\$0.00	\$1,579.05
02310 -	Fine grade Fine grade, grade subgrade for base course, roadways	1067	Savd	\$0.26	\$277.42	\$0.00	\$0.00	\$0.21	\$224.07	\$0.47 / Sqyd	\$0.00	\$0.00	\$501.49
	Fine grade, grade subgrade for base course, roadways	1067	Sqya	\$0.26	\$211.42	\$0.00	\$0.00	\$0.21	\$224.07	\$0.47 / Sqya	\$0.00	\$0.00	\$501.49
02330 -	Backfill, structural												
	Backfill, from stockpile	140	Cuyd	\$0.60	\$84.00	\$0.00	\$0.00	\$0.40	\$56.00	\$1 / Cuyd	\$0.00	\$0.00	\$140.00
02360 -	Compaction	0.45		04.55	00.505.55	40	00.77	40 - ·	04 707 17	00.44./5	0	00.00	00.05
	Compaction, walk behind, vibrating pl 18" wide, 12" lifts, 4 passes	3465	Cuyd	\$1.90	\$6,583.50	\$0.00	\$0.00	\$0.51	\$1,767.15	\$2.41 / Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$8,350.65
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	119	Cuyd	\$1.90	\$226.10	\$0.00	\$0.00	\$0.51	\$60.69	\$2.41 / Cuyd	\$0.00	\$0.00	\$286.79
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	550	Cuyd	\$5.28	\$2,904.00	\$0.00	\$0.00	\$6.70	\$3,685.00	\$11.98 / Cuyd	\$0.00	\$0.00	\$6,589.00
02460 -	Hauling												
	Disposal fee	20 140	Trk	\$0.00	\$0.00 \$652.40	\$0.00	\$0.00	\$0.00		\$105 / Trk			\$2,100.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site Hauling, LCY, no loading, 12 CY dump truck, clear & grub	140 237	Cuyd Cuyd	\$4.66 \$4.66	\$652.40 \$1,104.42	\$0.00 \$0.00	\$0.00 \$0.00	\$9.74 \$9.74	* /	\$14.4 / Cuyd \$14.4 / Cuyd		*	\$2,016.00 \$3,412.80
	Hauling, LCY, no loading, 12 c.y. dump truck, clear & grub Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	616	Cuyd	\$7.18	\$4,422.88	\$3.00	\$1,848.00	\$15.45		\$25.63 / Cuyd			\$15,785.88
	Loading Trucks, F.E. Loader, 3 C.Y, stockpile	140	Cuyd	\$0.74	\$103.60	\$0.00	\$0.00	\$1.24		\$1.98 / Cuyd			\$277.20
	Loading Trucks, F.E. Loader, 3 C.Y	616	Cuyd	\$0.74	\$455.84	\$0.00	\$0.00	\$1.24	\$763.84	\$1.98 / Cuyd	\$0.00	\$0.00	\$1,219.68
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	237	Cuyd	\$0.74	\$175.38	\$0.00	\$0.00	\$1.24	\$293.88	\$1.98 / Cuyd	\$0.00	\$0.00	\$469.26
02470 -	Soil stabilization	290	Canad	#0.22	#02.00	¢4.05	reac ea	#0.00	CO.00	¢0.47 / C∞d	#0.00	\$0.00	\$629.30
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	290	Sqyd	\$0.32	\$92.80	\$1.85	\$536.50	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$629.30
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$12,695.00
										•			
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02600	Base course												
02000 -	Base course Base course, large areas, crushed 3/4" stone, compacted to 12"	667	Sayd	\$0.87	\$580.29	\$10.76	\$7,176.92	\$1.11	\$740.37	\$12.74 / Sqyd	\$0.00	\$0.00	\$8,497.58
	200 Course, large droug, ordered or a corre, compacted to 12	557	Oqyu	ψ0.07	ψ000.29	ψ10.70	ψ1,110.02	Ψ1.11	ψ1 40.01	\$12.7 + 7 Oqyu	ψ0.00	ψ5.00	ψο, πον .ου
	SITE CONSTRUCTION Total				\$23,167.74		\$15,617.42		\$23,664.52		\$0.00	\$4,714.00	\$67,163.68
							-						
					40.5		0.5 - : - :		0000000			0	00-1
	Project BQ Total				\$23,167.74		\$15,617.42		\$23,664.52		\$0.00	\$4,714.00	\$67,163.68
	Grand Total				\$23,167,74		\$15.617.42		\$23.664.52		\$0.00	\$4,714.00	\$67.163.68
	Grand Total				φ 2 3,107.74		\$13,017.42		\$23,004.3Z		\$0.00	φ 4 ,7 14.00	φυ <i>τ</i> , 103.00

Category	Percent	Amount
Labor	1.97%	\$23,168
Material	1.33%	\$15,617
Equipment	2.01%	\$23,665
Subcontractor	0.00%	\$0
Other	0.40%	\$4,714
Net Costs		\$67,164
Labor Mark-up	18.00%	\$4,170
Material Mark-up	15.00%	\$2,343
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,550
Sales tax (material)	7.75%	\$1,210
Sales tax (equipment)	7.75%	\$1,834
Material Shipping & Handling	2.50%	\$390
Worker's Travel/Subsistence	0.10%	\$23
Subtotal		\$80,684
Contractor General Conditions	12.00%	\$9,682
Subtotal		\$90,366
Earthquake Insurance	0.10%	\$90
Subtotal		\$90,457
Construction Contingency	25.00%	\$22,614
Subtotal		\$113,071
Bldg Risk, Liability Auto Ins.	2.00%	\$2,261
Subtotal		\$115,332
Performance Bond	1.00%	\$1,153
Payment Bond	1.00%	\$1,153
Subtotal		\$117,639
Engineering Fee	10.00%	\$6,716
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$131,355



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: DO / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/5/2007

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project BR - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BR												
00 017	5 CONSTRUCTION												
02 - SH	E CONSTRUCTION												
02320 -	L Backfill												
02020	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	127	Cuyd	\$0.80	\$101.60	\$0.00	\$0.00	\$1.28	\$162.56	\$2.08 / Cuyd	\$0.00	\$0.00	\$264.16
										•			
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	28	Cuyd	\$8.47	\$237.16	\$32.03	\$896.84	\$1.89	*	\$42.39 / Cuyd		*	\$1,186.92
	Backing Material, 200 Lb	21	Cuyd	\$17.00	\$357.00	\$60.00	\$1,260.00	\$20.00	\$420.00	\$97 / Cuyd	\$0.00	\$0.00	\$2,037.00
02350 -	Borrw,ldng and/or sprdng												
	Borrow, bank measure, select granular fill, shovel, 1.5 CY bucket. 1/4	380	Cuyd	\$1.25	\$475.00	\$13.25	\$5,035.00	\$3.20	\$1,216.00	\$17.7 / Cuyd	\$0.00	\$0.00	\$6,726.00
02360 -	Compaction	400		04.00	A000 70	# 0.00	00.00	A0.54	0045.70	00.44.40	00.00	* 0.00	0.1.0.10.10
	Compaction, vibratory plate, 8" lifts, common fill Compaction, vibratory plate, 8" lifts, select fill, bedding	423 32	Cuyd Cuyd	\$1.90 \$1.90	\$803.70 \$60.80	\$0.00 \$0.00	\$0.00 \$0.00	\$0.51 \$0.51	\$215.73 \$16.32	\$2.41 / Cuyd \$2.41 / Cuyd			\$1,019.43 \$77.12
	Compaction, vibratory plate, o lints, select fill, beduing	32	Cuyu	په.۱.و	φυ0.80	φυ.00	φ0.00	φυ.51	\$10.32	φ∠.41 / Cuyu	φ0.00	φυ.υυ	φι1.12
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	106	Cuyd	\$1.95	\$206.70	\$0.00	\$0.00	\$1.42	\$150.52	\$3.37 / Cuyd	\$0.00	\$0.00	\$357.22
02470 -	Soil stabilization	50		00.00	# 40.00	0.1.05	000.05	A 0.00	00.00	00.17.10	00.00	* 0.00	0445.04
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	53	Sqyd	\$0.32	\$16.96	\$1.85	\$98.05	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$115.01
02480 -	Rip-rap												
	Rip-rap, machine placed for slope prot, 3/8 to 1/4 CY pieces	52	Cuyd	\$37.46	\$1,947.92	\$49.55	\$2,576.60	\$12.33	\$641.16	\$99.34 / Cuyd	\$0.00	\$0.00	\$5,165.68
										-			
02610 -	Asphitc concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 6"	267	Sqyd	\$44.54	\$11,892.18	\$27.00	\$7,209.00	\$3.79	\$1,011.93	\$75.33 / Sqyd	\$0.00	\$0.00	\$20,113.11
	SITE CONSTRUCTION Total				\$16,099.02		\$17,075.49		\$3,887.14		\$0.00	\$0.00	\$37,061.65
	SITE CONCINCOTION TOLAR				ψ10,000.0 <u>2</u>		ψ11,010.40		φο,σστ.τ-τ		φο.οο	φο.σο	ψον,σον.σο
03 - CO	NCRETE												
03110 -	Forms in place, walls	4.0		00.00	# 0.00	# 0.00	00.00	A 0.00	00.00	04000 / 0	00.00	040.000.00	* 40.000.00
	Concrete Structure (Conceptual) Headwall Concrete Structure (Conceptual) Open Baffle Box	18	Cuyd Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		* -/	\$18,000.00 \$7,000.00
	Concrete Structure (Conceptual) Open Barrie Box	,	Cuyu	φυ.υυ	φ0.00	φ0.00	φυ.υυ	φ0.00	φ0.00	\$1000 / Cuyu	φ0.00	\$7,000.00	φ1,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$25,000.00	\$25,000.00
	CHANICAL												
15090 -	Piping, drainage & sewage, RCP, class 3, no gaskets, 66" dia	150	Lnft	\$71.46	\$10.719.00	\$250.00	\$37.500.00	\$7.09	\$1.063.50	\$328.55 / Lnft	\$0.00	\$0.00	\$49.282.50
1	riping, dramage & sewage, RCP, class 3, no gaskets, 66" dla	150	LΠπ	\$/1.46	\$10,719.00	\$∠5∪.00	φ37,500.00	\$1.09	\$1,053.50	φ3∠0.33 / LNπ	\$0.00	φυ.υυ	ֆ49,∠62.5U
	MECHANICAL Total				\$10,719.00		\$37,500.00		\$1,063.50		\$0.00	\$0.00	\$49,282.50
					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , , , , , , , , , , , , , , ,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		75.00	75.50	, 1,-1-100
	Project BR Total				\$26,128.37		\$39,217.18		\$7,685.21		\$0.00	\$21,250.00	\$94,280.76
	0.17.1				400 100 00		000.045 :-		AT 005 5			404 050	404.005
<u> </u>	Grand Total				\$26,128.37		\$39,217.18		\$7,685.21		\$0.00	\$21,250.00	\$94,280.76

Category	Percent	Amount
Labor	2.22%	\$26,128
Material	3.33%	\$39,217
Equipment	0.65%	\$7,685
Subcontractor	0.00%	\$0
Other	1.80%	\$21,250
Net Costs		\$94,281
Labor Mark-up	18.00%	\$4,703
Material Mark-up	15.00%	\$5,883
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,153
Sales tax (material)	7.75%	\$3,039
Sales tax (equipment)	7.75%	\$596
Material Shipping & Handling	2.50%	\$980
Worker's Travel/Subsistence	0.10%	\$26
Subtotal		\$110,661
Contractor General Conditions	12.00%	\$13,279
Subtotal		\$123,940
Earthquake Insurance	0.10%	\$124
Subtotal		\$124,064
Construction Contingency	25.00%	\$31,016
Subtotal		\$155,080
Bldg Risk, Liability Auto Ins.	2.00%	\$3,102
Subtotal		\$158,182
Performance Bond	1.00%	\$1,582
Payment Bond	1.00%	\$1,582
Subtotal		\$161,345
Engineering Fee	10.00%	\$9,428
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$180,773



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/15/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project C1 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project (CI CONTRACTOR CONTRACT												
04 05	NERAL REQUIREMENTS												
01 - GEI	NERAL REQUIREMENTS												
01210 -	Lifting and hoisting equi												
	Rent crane truck mounted, hydraulic, 55 ton	45	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$44,550.00	\$41562 / Day	\$40,572.00	\$0.00	\$85,122.00
02 - SIT	E CONSTRUCTION												
													
02060	Site demolition			000.50	# 0.000.00	* 0.00	00.00	004.00	A 5 004 07	0450.05.40		**	044.000.45
	Site dml, conc7" to 24" thick, rod reinforced	93	Cuyd	\$92.56	\$8,608.08	\$0.00	\$0.00	\$61.09		\$153.65 / Cuyd			\$14,289.45
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Loading Trucks, F.E. Loader, 3 C.Y	309 309	Cuyd	\$5.95 \$0.74	\$1,838.55 \$228.66	\$0.00 \$0.00	\$0.00 \$0.00	\$10.40 \$1.24	\$3,213.60 \$383.16				\$5,052.15 \$611.82
	Disposal fee	20	Cuyd Trk	\$0.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.98 / Cuyd \$105 / Trk			\$2,100.00
	Disposal ree	20	IIK	φ0.00	φυ.υυ	φ0.00	Ψ0.00	ψ0.00	φυ.υυ	\$1057 TIK	\$0.00	\$2,100.00	\$2,100.00
02280 -	Sheet piling												
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2,700	Sqft	\$14.03	\$37,881.00	\$11.41	\$30,807.00	\$10.60	\$28,620.00	\$36.04 / Sqft	\$0.00	\$0.00	\$97,308.00
02320 -													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	186	Cuyd	\$0.80	\$148.80	\$0.00	\$0.00	\$1.28	\$238.08	\$2.08 / Cuyd	\$0.00	\$0.00	\$386.88
00010													
02340 -	Bedding			A0. 47	\$500.04	***	00.017.00	04.00	A440.07	010.00.10		**	00.070.5
	Bedding, crushed stone 3/4" to 1/2"	63	Cuyd	\$8.47	\$533.61	\$32.03	\$2,017.89	\$1.89	\$119.07	\$42.39 / Cuyd	\$0.00	\$0.00	\$2,670.57
02360 -	Compaction							**		******		****	
	Compaction, walk behind, vibrating plate 18" wide, subgrade	63	Cuyd	\$1.90	\$119.70	\$0.00	\$0.00	\$0.51	\$32.13	\$2.41 / Cuyd			\$151.83
	Compaction, walk behind, vibrating plate 18" wide, bedding	63	Cuyd	\$1.90	\$119.70	\$0.00	\$0.00	\$0.51	\$32.13	\$2.41 / Cuyd			\$151.83
	Compaction, walk behind, vibrating plate 18" wide, backfill Compaction, riding, vibrating roller, 6" lifts, fill	186 9,827	Cuyd Cuyd	\$1.90 \$2.93	\$353.40 \$28,793.11	\$0.00 \$0.00	\$0.00 \$0.00	\$0.51 \$0.78	\$94.86 \$7,665.06	\$2.41 / Cuyd \$3.71 / Cuyd			\$448.26 \$36,458.17
	Compaction, name, vibrating roller, 6 lints, fill	9,027	Cuyu	Ф 2.93	Φ20,793.11	\$0.00	\$0.00	φυ./ο	\$7,000.00	φ3.7 1 / Cuyu	\$0.00	\$0.00	\$30,436.17
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt	309	Cuyd	\$5.28	\$1,631.52	\$0.00	\$0.00	\$6.70	\$2,070.30	\$11.98 / Cuyd	\$0.00	\$0.00	\$3,701.82
	, , , , , , , , , , , , , , , , , , ,		,	*		•		*	,		,	, , , , , , , , , , , , , , , , , , , ,	* - /
02430 -													
	Fill, spread dumped material, by dozer, no compaction	9,827	Cuyd	\$0.72	\$7,075.44	\$0.00	\$0.00	\$1.15	\$11,301.05				\$18,376.49
	Fill, spread dumped material, by dozer, no compaction, berm	74	Cuyd	\$0.72	\$53.28	\$0.00	\$0.00	\$1.15	\$85.10	\$1.87 / Cuyd			\$138.38
	Granular fill	9,827	Cuyd	\$0.00	\$0.00	\$10.06	\$98,859.62	\$0.00	\$0.00				\$98,859.62
	Granular fill, berm	74	Cuyd	\$0.00	\$0.00	\$17.04	\$1,260.96	\$0.00	\$0.00	\$17.04 / Cuyd	\$0.00	\$0.00	\$1,260.96
02460	Hauling												
02400 -	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	Cuyd	\$5.95	\$1,838.55	\$0.00	\$0.00	\$10.40	\$3,213.60	\$16.35 / Cuyd	\$0.00	\$0.00	\$5,052.15
	Loading Trucks, F.E. Loader, 3 C.Y	309	Cuyd	\$0.74	\$228.66	\$0.00	\$0.00	\$1.24	\$3,213.60	\$1.98 / Cuyd			\$6,032.13
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk			\$2,100.00
	Hauling, LCY, no loading, 20 c.y dump truck, 30 MI RT, 0.33 lds/hr, concrete	93	Cuyd	\$5.68	\$528.24	\$0.00	\$0.00	\$9.92	\$923.00	\$15.6 / Cuyd			\$1,451.24
	Loading Trucks, F.E. Loader, 3 C.Y., concrete	93	Cuyd	\$0.74	\$68.82	\$0.00	\$0.00	\$1.24	\$115.32	\$1.98 / Cuyd		\$0.00	\$184.14
00.400													
02480 -		4.00	0	0505	Φ 7 5 40 7 5	610.5-	# 00 222 ==	610.5	M40 440 ==	0440.40.70	***	***	0457.005.
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	1,334	Sqyd	\$56.55	\$75,437.70	\$49.55	\$66,099.70	\$12.33	\$16,448.22	\$118.43 / Sqyd	\$0.00	\$0.00	\$157,985.62
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 6" deep	378	Sqyd	\$0.73	\$275.94	\$5.41	\$2,044.98	\$0.94	\$355.32	\$7.08 / Sqyd	\$0.00	\$0.00	\$2,676.24
02640 -	Lines on pav't												
	Painting lines, thermoplastic, white or yellow, 6" wide	204	Lnft	\$0.14	\$28.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.14 / Lnft	\$0.00	\$0.00	\$28.56

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02660 -	Sidewlks, drivwys, & patios			φ/ΟΠΙ		φ/OIIIt	Amount	φ/OIIIt		φ/OIIIt			I Otal
02000	Sidewalks, conc, 3000 PSI, CIP w/ 6x6 mesh, broom fin, no basem 4" T	544	Sqft	\$2.01	\$1,093.44	\$1.45	\$788.80	\$0.00	\$0.00	\$3.46 / Sqft	\$0.00	\$0.00	\$1,882.24
	Sidewalks, conc, 3000 PSI, for bank run gravel base, 4" thick, add	544	Saft	\$0.47	\$255.68	\$0.42	\$228.48	\$0.04	\$21.76	\$0.93 / Saft			\$505.92
	g ,		- 4.1	*****	7_00.00	*****	4	****	*	40.00, 04.	40.00	******	***************************************
02840 -	Landscaping												
	Erosion Control Allowance:::	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	Landscaping Allowance::	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	Traffic Control Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	SITE CONSTRUCTION Total				\$167,140.44		\$202,107.43		\$125,546.29		\$40,572.00	\$94,200.00	\$629,566.16
03 - CO	DNCRETE												
03150 -	Concrete, ready mix												
	5-12'x12' RCB Culverts	403	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$403,000.00	\$403,000.00
	Headwall, inlet	21	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$21,000.00	\$21,000.00
	Headwall, outlet	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$28,000.00	\$28,000.00
	Wall, bridge	163	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$163,000.00	\$163,000.00
	Footing	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$10,000.00	\$10,000.00
	Elevated slab	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$28,000.00	\$28,000.00
	Wingwall	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$154850 / Lsum	\$0.00		\$154,850.00
	Slab on Grade	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$28,000.00	\$28,000.00
	Slab on Grade for roadway	202	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$202,000.00	\$202,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$1,037,850.00	\$1,037,850.00
05 - ME	TALS												
05080 -	Railings, industrial												
	Railing, pipe, aluminum, 3 rail, clear anodized	272	Lnft	\$15.67	\$4,262.24	\$45.95	\$12,498.40	\$0.96	\$261.12	\$81.58 / Lnft	\$0.00	\$5,168.00	\$22,189.76
	METALS Total				\$4,262.24		\$12,498.40		\$261.12		\$0.00	\$5,168.00	\$22,189.76
07 - TH	ERMAL/MOIST PROTECTION												
	Building paper												
0020	Building paper, polyethylene vapor barrier, std, .010" thick, berm	28	Cuyd	\$10.95	\$306.60	\$5.35	\$149.80	\$0.00	\$0.00	\$16.3 / Cuyd	\$0.00	\$0.00	\$456.40
	THERMAL/MOIST PROTECTION Total				\$306.60		\$149.80		\$0.00		\$0.00	\$0.00	\$456.40
	Project C1 Total				\$167,140.44		\$202,107.43		\$125,546.29		\$40,572.00	\$1,132,050.00	\$1,690,062.32
-	Grand Total				\$167,140,44		\$202,107.43		\$125.546.29		\$40.572.00	\$1,132,050.00	\$1,667,416.16
<u> </u>	Granu rotai				\$107,140.44		\$202,107.43		\$125,546.29		\$40,572.00	φ1,13∠,U3U.UU	\$1,007,416.76

Category	Percent	Amount
Labor	10.02%	\$167,140
Material	12.12%	\$202,107
Equipment	7.53%	\$125,546
Subcontractor	2.43%	\$40,572
Other	67.89%	\$1,132,050
Net Costs		\$1,667,416
Labor Mark-up	18.00%	\$30,085
Material Mark-up	15.00%	\$30,316
Subcontractor Mark-up	5.00%	\$2,029
Equipment Mark-up	15.00%	\$18,832
Sales tax (material)	7.75%	\$15,663
Sales tax (equipment)	7.75%	\$9,730
Material Shipping & Handling	2.50%	\$5,053
Worker's Travel/Subsistence	0.10%	\$167
Subtotal		\$1,779,291
Contractor General Conditions	12.00%	\$213,515
Subtotal		\$1,992,806
Earthquake Insurance	0.10%	\$1,993
Subtotal		\$1,994,799
Construction Contingency	35.00%	\$698,180
Subtotal		\$2,692,978
Bldg Risk, Liability Auto Ins.	2.00%	\$53,860
Subtotal		\$2,746,838
Performance Bond	1.00%	\$27,468
Payment Bond	1.00%	\$27,468
Subtotal		\$2,801,775
Engineering Fee	10.00%	\$166,742
Environ Permitting/Monitoring (L.S.)	-	\$550,000
Total Estimate		\$3,518,516



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008
BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project C2 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project 0	C2												
02 - SIT	E CONSTRUCTION												
00000	- Site demolition												
02060 -	Site dml, conc7" to 24" thick, rod reinforced	10	Cuyd	\$92.56	\$925.60	\$0.00	\$0.00	\$61.09	\$610.00	\$153.65 / Cuyd	\$0.00	\$0.00	\$1,536.50
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	10	Cuyd	\$5.95	\$59.50	\$0.00	\$0.00	\$10.40	\$104.00				\$163.50
	Loading Trucks, F.E. Loader, 3 C.Y	10	Cuyd	\$0.74	\$7.40	\$0.00	\$0.00	\$1.24	\$12.40	\$1.98 / Cuyd			\$19.80
	Disposal fee	1	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk			\$105.00
				·	·		·		·		·		
02280 -	Sheet piling												
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	1,500	Sqft	\$14.03	\$21,045.00	\$11.41	\$17,115.00	\$10.60	\$15,900.00	\$36.04 / Sqft	\$0.00	\$0.00	\$54,060.00
02320 -				*					****				
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	347	Cuyd	\$0.80	\$277.60	\$0.00	\$0.00	\$1.28	\$444.16	\$2.08 / Cuyd	\$0.00	\$0.00	\$721.76
02240	Bedding												
02340 -	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$8.47	\$440.44	\$32.03	\$1,665.56	\$1.89	\$98.28	\$42.39 / Cuyd	\$0.00	\$0.00	\$2,204.28
02360 -	Compaction	JZ	Cuyu	φυ.47	φ440.44	ψ32.03	\$1,005.50	Ψ1.09	ψ90.20	φ42.39 / Cuyu	\$0.00	φ0.00	ΨΖ,Ζ04.Ζ0
02000	Compaction												
	Compaction, walk behind, vibrating plate 18" wide, subgrade	33	Cuyd	\$1.90	\$62.70	\$0.00	\$0.00	\$0.51	\$16.83	\$2.41 / Cuyd	\$0.00	\$0.00	\$79.53
	Compaction, walk behind, vibrating plate 18" wide, bedding	65	Cuyd	\$1.90	\$123.50	\$0.00	\$0.00	\$0.51	\$33.15	\$2.41 / Cuyd			\$156.65
	Compaction, walk behind, vibrating plate 18" wide, backfill	347	Cuyd	\$1.90	\$659.30	\$0.00	\$0.00	\$0.51	\$176.97	\$2.41 / Cuyd		\$0.00	\$836.27
02420 -	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	640	Cuyd	\$7.33	\$4,691.20	\$0.00	\$0.00	\$5.34	\$3,417.60	\$12.67 / Cuyd	\$0.00	\$0.00	\$8,108.80
02460 -													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	293	Cuyd	\$5.95	\$1,743.35	\$0.00	\$0.00	\$10.40	\$3,047.20				\$4,790.55
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	293 15	Cuyd Trk	\$0.74 \$0.00	\$216.82 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00	\$363.32 \$0.00	\$1.98 / Cuyd \$105 / Trk			\$580.14 \$1,575.00
	Disposal fee	15	HK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / 11K	\$0.00	\$1,575.00	\$1,575.00
02840 -	Landscaping												
02010	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
	rame common monament a maggara, no pipanii			******	70.00	7	40.00	40.00	******	¥ 101 0 7 = 00111	70.00	4 1,01 0.00	\$ 1,01010
	SITE CONSTRUCTION Total				\$30,252.41		\$18,780.56		\$24,224.81		\$0.00	\$6,558.00	\$79,815.78
					<u> </u>								
03 - CO	NCRETE					,							
03150 -	Concrete, ready mix									*******			A
	4'x10' RCB Culvert	170	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		* -,	\$170,000.00
	Headwall, inlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$1000 / Cuyd		4 - ,	\$5,000.00
	Headwall, outlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$5,000.00	\$5,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$180.000.00	\$180,000.00
	CONCRETE TOTAL				φυ.υυ		φυ.υυ		φ0.00		φ0.00	φ100,000.00	φ100,000.00
	Project C2 Total				\$30,252.41		\$18,780.56		\$24,224.81		\$0.00	\$186,558.00	\$259,815.78
	110,000 02 1000				+,		Ţ. Z,: Z3100		ţ= :,== 110 î		\$0.00	Ţ:22,220i00	+====
	Grand Total				\$30,252.41		\$18,780.56		\$24,224.81		\$0.00	\$186,558.00	\$259,815.78

Category	Percent	Amount
Labor	11.64%	\$30,252
Material	7.23%	\$18,781
Equipment	9.32%	\$24,225
Subcontractor	0.00%	\$0
Other	71.80%	\$186,558
Net Costs		\$259,816
Labor Mark-up	18.00%	\$5,445
Material Mark-up	15.00%	\$2,817
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,634
Sales tax (material)	7.75%	\$1,455
Sales tax (equipment)	7.75%	\$1,877
Material Shipping & Handling	2.50%	\$470
Worker's Travel/Subsistence	0.10%	\$30
Subtotal		\$275,545
Contractor General Conditions	12.00%	\$33,065
Subtotal		\$308,610
Earthquake Insurance	0.10%	\$309
Subtotal		\$308,919
Construction Contingency	25.00%	\$77,230
Subtotal		\$386,148
Bldg Risk, Liability Auto Ins.	2.00%	\$7,723
Subtotal		\$393,871
Performance Bond	1.00%	\$3,939
Payment Bond	1.00%	\$3,939
Subtotal		\$401,749
Engineering Fee	10.00%	\$25,982
Environ Permitting/Monitoring (L.S.)	-	\$300,000
Total Estimate		\$727,730



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: SB / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project CA - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project (CA												
00 0/7	E CONOTRUCTION												
02 - 511	E CONSTRUCTION												
02320	- Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	100	Cuyd	\$0.80	\$80.00	\$0.00	\$0.00	\$1.28	\$128.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$208.00
02360	- Compaction		01	#4.00	#05.00	#0.00	# 0.00	CO 54	\$25.50	CO 44 / O	# 0.00	#0.00	\$400.50
	Compaction, walk behind, vibrating plate 18" wide, subgrade Compaction, walk behind, vibrating plate 18" wide, bedding	50 377	Cuyd Cuyd	\$1.90 \$1.90	\$95.00 \$716.30	\$0.00 \$0.00	\$0.00 \$0.00	\$0.51 \$0.51	\$25.50 \$192.27	\$2.41 / Cuyd \$2.41 / Cuyd			\$120.50 \$908.57
	Compaction, walk bening, vibrating plate 16 wide, bedding	311	Cuyu	\$1.90	\$710.30	\$0.00	\$0.00	φυ.υ i	\$192.27	\$2.41 / Cuyu	\$0.00	\$0.00	\$906.37
02420	- Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	377	Cuyd	\$7.33	\$2,763.41	\$0.00	\$0.00	\$5.34	\$2,013.18	\$12.67 / Cuyd	\$0.00	\$0.00	\$4,776.59
02460	- Hauling	000	01	\$5.05	#0.570.00	#0.00	# 0.00	C40.40	# 0.040.00	\$40.05 / O	# 0.00	#0.00	#0.040.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Loading Trucks, F.E. Loader, 3 C.Y	600 600	Cuyd Cuyd	\$5.95 \$0.74	\$3,570.00 \$444.00	\$0.00 \$0.00	\$0.00 \$0.00	\$10.40 \$1.24	\$6,240.00 \$744.00	\$16.35 / Cuyd \$1.98 / Cuyd			\$9,810.00 \$1,188.00
	Loading Trucks, F.E. Loader, 3 C.T	600	Cuyu	Ф 0.74	\$444 .00	\$0.00	\$0.00	\$1.24	\$744.00	\$1.96 / Cuyu	\$0.00	\$0.00	\$1,100.00
	SITE CONSTRUCTION Total				\$7,668.71		\$0.00		\$9,342.95		\$0.00	\$0.00	\$17,011.66
03 - CO	NCRETE				, , , , , ,				* 1,1				
03090	Forms place, slab grade									A a .			
	Forms in place, SOG, edge forms, over 12", wood	1,800	Sfca	\$3.99	\$7,182.00	\$0.80	\$1,440.00	\$0.00	\$0.00	\$4.79 / Sfca	\$0.00	\$0.00	\$8,622.00
03110	l - Forms in place, walls												
03110	Forms in place, walls, job built plyform, to 8' high, below gr	8,400	Sfca	\$7.35	\$61,740.00	\$2.59	\$21,756.00	\$0.00	\$0.00	\$9.94 / Sfca	\$0.00	\$0.00	\$83,496.00
	3,111	-,		,	, , , , , , , , , , , , , , , , , , , ,	*	, ,	****	***	*	*	***	, ,
03140	- Welded wire fabric												
	Welded wire fabric, 10/10 gage, SOG	18	Csf	\$36.61	\$658.98	\$29.41	\$529.38	\$0.00	\$0.00	\$66.02 / Csf	*		\$1,188.36
	Welded wire fabric, 10/10 gage, Walls	84	Csf	\$36.61	\$3,075.24	\$29.41	\$2,470.44	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$5,545.68
03150	- Concrete, ready mix												
03730	Concrete, ready mix, regular weight, 4000 psi	300	Cuyd	\$0.00	\$0.00	\$120.00	\$36,000.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$36,000.00
	The state of the s		, -	40.00	71111	¥12000	4 00,000.00	70.00	70.00	V:==: = = = = = = = = = = = = = = = = =	73.33	70.00	4 00,000.00
03170	- Placing concrete												
	Placing conc, incl vib, slab on grade, 6" thick, pumped	34	Cuyd	\$17.45	\$593.30	\$0.00	\$0.00	\$5.56	\$189.04	\$23.01 / Cuyd			\$782.34
	Placing conc, incl vib, walls, 8" thick, pumped	160	Cuyd	\$32.28	\$5,164.80	\$0.00	\$0.00	\$10.28	\$1,644.80	\$42.56 / Cuyd	\$0.00	\$0.00	\$6,809.60
03190	- Finishing floors		+										
03160	Finishing slabs, break ties, forms & patch voids	1,800	Sqft	\$1.17	\$2,106.00	\$0.03	\$54.00	\$0.00	\$0.00	\$1.2 / Sqft	\$0.00	\$0.00	\$2,160.00
	Finishing slabs, break ties, forms a paten voids Finishing floors, monolithic, machine trowel, for finish floor	1,800	Saft	\$0.68		\$0.00	\$0.00	\$0.00	\$0.00	\$0.68 / Sqft			\$1,224.00
		,	- 1.		7 / 1100	7			, 0.00	** *** ***	,,,,,		. ,
03190	- Finishing walls												
!	Finishing slabs, break ties, forms & patch voids	8,400	Sqft	\$1.17		\$0.03	\$252.00	\$0.00	\$0.00	\$1.2 / Sqft			\$10,080.00
<u> </u>	Finishing walls, carborundum rub, wet rub	8,400	Sqft	\$2.13	\$17,892.00	\$0.03	\$252.00	\$0.00	\$0.00	\$2.16 / Sqft	\$0.00	\$0.00	\$18,144.00
<u> </u>	MECHANICAL Total				\$109,464.32		\$62,753.82		\$1,833.84		\$0.00	\$0.00	\$174,051.98
	WECHANICAL TOTAL				φ109,404.32		ψυ∠,1 υυ.02		φ1,055.04		φ0.00	φ0.00	φ174,UJ1.90
	Project CA Total				\$117,133.03		\$62,753.82		\$11,176.79		\$0.00	\$0.00	\$191,063.64
	·												
	Grand Total				\$117,133.03		\$62,753.82		\$11,176.79		\$0.00	\$0.00	\$191,063.64

Category	Percent	Amount
Labor	61.31%	\$117,133
Material	32.84%	\$62,754
Equipment	5.85%	\$11,177
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$191,064
Labor Mark-up	18.00%	\$21,084
Material Mark-up	15.00%	\$9,413
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,677
Sales tax (material)	7.75%	\$4,863
Sales tax (equipment)	7.75%	\$866
Material Shipping & Handling	2.50%	\$1,569
Worker's Travel/Subsistence	0.10%	\$117
Subtotal		\$230,653
Contractor General Conditions	12.00%	\$27,678
Subtotal		\$258,331
Earthquake Insurance	0.10%	\$258
Subtotal		\$258,589
Construction Contingency	25.00%	\$64,647
Subtotal		\$323,237
Bldg Risk, Liability Auto Ins.	2.00%	\$6,465
Subtotal		\$329,702
Performance Bond	1.00%	\$3,297
Payment Bond	1.00%	\$3,297
Subtotal		\$336,296
Engineering Fee	10.00%	\$19,106
Environ Permitting/Monitoring (L.S.)	-	\$174,000
Total Estimate		\$529,402



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DBA

Item	Item Description Q	uantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DBA												
01 - GEN	NERAL REQUIREMENTS												
01 - OLI	VELVAE REQUIREMENTO												
01200 - (General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	1	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$240.00	\$240 / Day	\$0.00	\$0.00	\$240.00
									40.10.00			4	
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$240.00		\$0.00	\$0.00	\$240.00
02 - SITE	E CONSTRUCTION												
02 0111													
02020 - (Underground marking tape												
	Underground tape, detectable aluminum, 2"	4	Clf	\$2.34	\$8.42	\$3.06	\$11.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$19.44
02060 - 3	Site demolition	120	Canad	PE 20	#c07.70	\$0.00	CO. OO	P2 40	£452.70	CO 70 / Could	\$0.00	#0.00	\$0.00
	Site dml, no hauling, pavement removal, bit, 4" thk Asphalt disposal - hauling and disposal fee, 4" thick	130 130	Sqyd Sqyd	\$5.29 \$1.00		\$4.70	\$0.00 \$611.00	\$3.49 \$1.32			\$0.00 \$0.00	\$0.00 \$0.00	\$1,141.40 \$912.60
	Aspiralit disposal - flauling and disposal fee, 4 trick	130	Sqyu	\$1.00	\$130.00	\$4.70	\$611.00	\$1.32	\$171.00	\$7.02 / Sqyu	\$0.00	\$0.00	\$912.00
02170 - 3	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	720	Lnft	\$0.48	\$345.60	\$0.07	\$50.40	\$0.26	\$187.20	\$0.81 / Lnft	\$0.00	\$0.00	\$583.20
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	720	Lnft	\$0.82	\$590.40	\$0.30	\$216.00	\$0.44	\$316.80	\$1.56 / Lnft	\$0.00	\$0.00	\$1,123.20
02320 - 1													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	444	Cuyd	\$0.80	\$355.52	\$0.00	\$0.00	\$1.28	\$568.83	\$2.08 / Cuyd	\$0.00	\$0.00	\$924.35
00040	Bedding												
02340 - 1	Bedding, crushed stone 3/4" to 1/2"	265	Cuyd	\$8.47	\$2,244.55	\$32.03	\$8,487.95	\$1.89	\$500.85	\$42.39 / Cuyd	\$0.00	\$0.00	\$11,233.35
	beduing, crusited stone 3/4 to 1/2	203	Cuyu	ψ0.47	φ2,244.33	ψ32.03	φο,467.93	φ1.05	φ300.83	φ42.39 / Cuyu	φ0.00	φ0.00	φ11,233.30
02360 - (Compaction												
	Compaction, trench, walk behind, vib. plate, bedding	228	Cuyd	\$1.90	\$433.01	\$0.00	\$0.00	\$0.51	\$116.23	\$2.41 / Cuyd	\$0.00	\$0.00	\$549.24
	Compaction, trench, walk behind, vib. plate, subgrade	37	Cuyd	\$1.90	\$69.73	\$0.00	\$0.00	\$0.51	\$18.72	\$2.41 / Cuyd	\$0.00	\$0.00	\$88.45
	Compaction, trench, walk behind, vib. plate, backfill	400	Cuyd	\$1.90	\$760.00	\$0.00	\$0.00	\$0.51	\$204.00	\$2.41 / Cuyd	\$0.00	\$0.00	\$964.00
02450 - 1	Excavating, trench	000	01	64.05	#4.054.04	# 0.00	#0.00	64.40	DO04.40	f0.07 / Od	# 0.00	#0.00	#0.000.40
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	693	Cuyd	\$1.95	\$1,351.94	\$0.00	\$0.00	\$1.42	\$984.49	\$3.37 / Cuyd	\$0.00	\$0.00	\$2,336.42
02460 - 1	Hauling												
02100 1	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	422	Cuyd	\$5.95	\$2,512.09	\$0.00	\$0.00	\$10.40	\$4,390.88	\$16.35 / Cuyd	\$0.00	\$0.00	\$6,902.97
	Loading Trucks, F.E. Loader, 3 C.Y	422	Cuyd	\$0.74		\$0.00	\$0.00	\$1.24			\$0.00		\$835.96
02570 - (Catch basins or manholes												
	Junction structure	2	Each	\$680.00	\$1,360.00	\$6,000.00	\$12,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$13,360.00
00000	Dana and an												
02600 - 1	Base course Base course, large areas, crushed 3/4" stone, compacted to 9" deep	130	Sqyd	\$0.80	\$104.00	\$8.06	\$1,047.80	\$1.02	\$132.60	\$9.88 / Sqyd	\$0.00	\$0.00	\$1,284.40
	Base course, large areas, crusineu 3/4 storie, compacteu to 5 deep	130	Sqyu	ψ0.00	\$104.00	φο.υυ	\$1,047.00	Ψ1.02	\$132.00	фэ.00 / Oqyu	φ0.00	\$0.00	φ1,204.40
02610 - /	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	130	Sqyd	\$35.00	\$4,550.00	\$18.00	\$2,340.00	\$2.98	\$387.40	\$55.98 / Sqyd	\$0.00	\$0.00	\$7,277.40
00077	2 444 5												
υ2900 - I	Pot Holing		For!	# 0E0 00	£4,000,00	#0.00	#0.00	# 2E 22	£4.40.00	€205 / 5 !	# 0.00	#0.00	£4.440.00
	Pot Holing - pipe lines	4	Each	\$250.00	\$1,000.00	\$0.00	\$0.00	\$35.00	\$140.00	\$285 / Each	\$0.00	\$0.00	\$1,140.00
	SITE CONSTRUCTION Total				\$16,815.39		\$24,764.17		\$9,096.82		\$0.00	\$0.00	\$50,676.38
	CITE CONCINCOTION Total				ψ10,010.00		ψΣ-1,10-1.11		φυ,υυυ.υΣ		ψ0.00	Ψ0.00	ψου,υτο.ου

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - ME	CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	360	Lnft	\$32.48	\$11,692.80	\$43.00	\$15,480.00	\$3.22	\$1,159.20	\$78.7 / Lnft	\$0.00	\$0.00	\$28,332.00
15395 -	Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 30" pipe size	2	Each	\$791.91	\$1,583.82	\$1,308.00	\$2,616.00	\$0.00	\$0.00	\$2099.91 / Each	\$0.00	\$0.00	\$4,199.82
	MECHANICAL Total				\$13,276.62		\$18,096.00		\$1,159.20		\$0.00	\$0.00	\$32,531.82
	Project DBA Total				\$30,092.01		\$42,860.17		\$10,496.02		\$0.00	\$0.00	\$83,448.20
	Grand Total				\$30,092.01		\$42,860.17		\$10,496.02		\$0.00	\$0.00	\$83,448.20

Category	Percent	Amount
Labor	36.06%	\$30,092
Material	51.36%	\$42,860
Equipment	12.58%	\$10,496
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$83,448
Labor Mark-up	18.00%	\$5,417
Material Mark-up	15.00%	\$6,429
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,574
Sales tax (material)	7.75%	\$3,322
Sales tax (equipment)	7.75%	\$813
Material Shipping & Handling	2.50%	\$1,072
Worker's Travel/Subsistence	0.10%	\$30
Subtotal		\$102,105
Contractor General Conditions	12.00%	\$12,253
Subtotal		\$114,357
Earthquake Insurance	0.10%	\$114
Subtotal		\$114,472
Construction Contingency	25.00%	\$28,618
Subtotal		\$143,090
Bldg Risk, Liability Auto Ins.	2.00%	\$2,862
Subtotal		\$145,952
Performance Bond	1.00%	\$1,460
Payment Bond	1.00%	\$1,460
Subtotal		\$148,871
Engineering Fee	10.00%	\$8,345
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$167,215



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DBB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DBB												
01 - GEI	NERAL REQUIREMENTS												
01 - OLI	VEIVAL REGORDINEIVIO												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$141.60	\$1,416.00	\$141.6 / Day	\$0.00	\$0.00	\$1,416.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
	OFNEDAL DEGLIDEMENTO Take				#0.00		#0.00		#0.040.00		#0.00	60.00	#0.040.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,316.00		\$0.00	\$0.00	\$2,316.00
02 - SIT	E CONSTRUCTION												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	7	Clf	\$2.34	\$16.85	\$3.06	\$22.03	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$38.88
02060 -	Site demolition	400	01	\$5.00	© 0 540 ₹0	(0.00	# 0.00	CO 40	£4.000.40	\$0.70 / OI	#0.00	#0.00	£4.004.00
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	482 482	Sqyd	\$5.29 \$1.00	\$2,549.78 \$482.00	\$0.00 \$4.70	\$0.00 \$2,265.40	\$3.49 \$1.32	\$1,682.18 \$636.24		\$0.00 \$0.00	\$0.00 \$0.00	\$4,231.96 \$3,383.64
	Asphalt disposal - hauling and disposal fee, 4" thick	462	Sqyd	\$1.00	\$482.00	\$4.70	\$2,265.40	\$1.32	\$030.24	\$7.02 / Sqyd	\$0.00	\$0.00	\$3,383.04
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1450	Lnft	\$0.48	\$696.00	\$0.07	\$101.50	\$0.26	\$377.00	\$0.81 / Lnft	\$0.00	\$0.00	\$1,174.50
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1450	Lnft	\$0.82	\$1,189.00	\$0.30	\$435.00	\$0.44	\$638.00	\$1.56 / Lnft	\$0.00	\$0.00	\$2,262.00
02310 -	Fine grade												
	Fine grade, fine grade granular base for sidewalks and bikeways	482	Sqyd	\$1.06	\$510.92	\$0.00	\$0.00	\$0.15	\$72.30	\$1.21 / Sqyd	\$0.00	\$0.00	\$583.22
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	530	Cuyd	\$8.47	\$4,489.10	\$32.03	\$16,975.90	\$1.89	\$1,001.70	\$42.39 / Cuyd	\$0.00	\$0.00	\$22,466.70
	Bedding, crushed stone 3/4" to 1/2"	577	Cuyd	\$8.47		\$32.03	\$18,481.31	\$1.89	\$1,090.53		\$0.00	\$0.00	\$24,459.03
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	440	, -	\$1.90	\$836.00	\$0.00	\$0.00	\$0.51	\$224.40		\$0.00	\$0.00	\$1,060.40
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	73 456	Cuyd	\$2.93		\$0.00 \$0.00	\$0.00	\$0.78	\$57.17 \$355.52		\$0.00	\$0.00 \$0.00	\$271.94 \$1,691.02
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	456	Cuyd	\$2.93	\$1,335.49	\$0.00	\$0.00	\$0.78	\$300.02	\$3.71 / Cuyd	\$0.00	\$0.00	\$1,091.02
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1027	Cuyd	\$1.95	\$2,002.65	\$0.00	\$0.00	\$1.42	\$1,458.34	\$3.37 / Cuyd	\$0.00	\$0.00	\$3,460.99
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1181	Cuyd	\$5.95		\$0.00	\$0.00	\$10.40	\$12,282.40		\$0.00	\$0.00	\$19,309.35
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	1181 59	Cuyd Trk	\$0.74 \$0.00	\$873.94 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.24 \$0.00	\$1,464.44 \$0.00	,,.	\$0.00 \$0.00	\$0.00 \$6,200.25	\$2,338.38 \$6,200.25
	Disposariee	39	IIK	φυ.υυ	\$0.00	\$0.00	\$0.00	\$0.00	φ0.00	\$105 / TIK	φ0.00	\$0,200.23	\$0,200.20
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
-				-									
02570 -	Catch basins or manholes	_		Φ4 F07 F1	0.700	#0.400.04	#0 222 52	0054.75	# 4 000 ==	ΦΕ07Ε 04 / Ε ·	***	20.05	#45.005.5
	Catch basins or manholes, concrete, precast, 8' I.D., 8' deep	3	Each		\$4,762.50	\$3,133.31	\$9,399.93	\$354.40		\$5075.21 / Each	\$0.00 \$0.00	\$0.00	\$15,225.63
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	3	Each Each	\$158.75 \$162.82	\$476.25 \$488.46	\$201.00 \$260.00	\$603.00 \$780.00	\$35.44 \$36.35		\$395.19 / Each \$459.17 / Each	\$0.00	\$0.00 \$0.00	\$1,185.57 \$1,377.51
	Catch bsns or manholes, frs and covs, hvy traffic, 24 diam, 400 lb. CB or manholes, inverts, single channel brick, concrete	3	Each	\$102.02		\$100.00	\$300.00	\$0.00	\$0.00		\$0.00	\$0.00	\$732.00
	Catch basins or manholes, steps, standard sizes, aluminum	10	Each	\$9.66	\$96.60	\$26.50	\$265.00	\$0.00	\$0.00		\$0.00	\$0.00	\$361.60
	Junction structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00		\$0.00	\$0.00	\$6,680.00
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	482	Sqyd	\$35.00	\$16,870.00	\$18.00	\$8,676.00	\$2.98	\$1,436.36	\$55.98 / Sqyd	\$0.00	\$0.00	\$26,982.36

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	720	Lnft	\$0.12	\$86.40	\$0.17	\$122.40	\$0.08	\$57.60	\$0.37 / Lnft	\$0.00	\$0.00	\$266.40
02840 -	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 -	Pot Holing												
	Pot Holing - pipe lines	28	Each	\$250.00	\$7,000.00	\$0.00	\$0.00	\$35.00	\$980.00	\$285 / Each	\$0.00	\$0.00	\$7,980.00
	SITE CONSTRUCTION Total				\$58,002.85		\$64,427.47		\$25,092.76		\$5,000.00	\$13,692.25	\$166,215.33
03 - CO	NCRETE												
03330 -	Patching concrete												
	80 Patching conc, wall, wall penetration, non-shrink grout, 24" hole	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$2,000.00	\$2,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$2,000.00	\$2,000.00
15 - ME	 CHANICAL												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	720	Lnft	\$32.48	\$23,385.60	\$43.00	\$30,960.00	\$3.22	\$2,318.40	\$78.7 / Lnft	\$0.00	\$0.00	\$56,664.00
	Piping, water dist, conc pipe, gasket, 36" dia	72	Each	\$3.14	\$226.08	\$6.50	\$468.00	\$0.00	\$0.00	\$9.64 / Each	\$0.00	\$0.00	\$694.08
	MECHANICAL Total				\$23,611.68		\$31,428.00		\$2,318.40		\$0.00	\$0.00	\$57,358.08
	Project DBB Total				\$81,614.53		\$95,855.47		\$29,727.16		\$5,000.00	\$15,692.25	\$227,889.41
	. Tojou BB Folds				\$5.,5.7.00		ФСС,ССС.41		\$20,121110		\$5,555.00	\$10,002.20	ψ <u>22</u> , ,000.41
	Grand Total				\$81,614.53		\$95,855.47		\$29,727.16		\$5,000.00	\$15,692.25	\$227,889.41

Category	Percent	Amount
Labor	35.81%	\$81,615
Material	42.06%	\$95,855
Equipment	13.04%	\$29,727
Subcontractor	2.19%	\$5,000
Other	6.89%	\$15,692
Net Costs		\$227,889
Labor Mark-up	18.00%	\$14,691
Material Mark-up	15.00%	\$14,378
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$4,459
Sales tax (material)	7.75%	\$7,429
Sales tax (equipment)	7.75%	\$2,304
Material Shipping & Handling	2.50%	\$2,396
Worker's Travel/Subsistence	0.10%	\$82
Subtotal		\$273,878
Contractor General Conditions	12.00%	\$32,865
Subtotal		\$306,743
Earthquake Insurance	0.10%	\$307
Subtotal		\$307,050
Construction Contingency	25.00%	\$76,763
Subtotal		\$383,813
Bldg Risk, Liability Auto Ins.	2.00%	\$7,676
Subtotal		\$391,489
Performance Bond	1.00%	\$3,915
Payment Bond	1.00%	\$3,915
Subtotal		\$399,319
Engineering Fee	10.00%	\$22,789
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$429,108



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DFA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DFA												
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$2,400.00	\$240 / Day	\$0.00	\$0.00	\$2,400.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$900.00	\$900 / Mo	\$0.00	\$0.00	\$900.00
04240	lifting and bainting any impact												
01210-1	Lifting and hoisting equipment Rent crane truck mounted, hydraulic, 55 ton capacity - Type B	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$9,900.00	\$1891.6 / Day	\$901.60	\$0.00	\$10,801.60
	Rent crane truck mounted, nydraulic, 55 ton capacity - Type B	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$990.00	\$9,900.00	\$1891.67 Day	\$901.60	\$0.00	\$10,801.60
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$13,200.00		\$901.60	\$0.00	\$14,101.60
	OENEINAL NEGOTIVENIENTO TOTAL				ψ0.00		ψ0.00		φ13,200.00		ψ301.00	ψ0.00	φ1+,101.00
02 - SITI	E CONSTRUCTION												
02 0111	Continuonen												
02320 - 1	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	175	Cuyd	\$0.80	\$140.00	\$0.00	\$0.00	\$1.28	\$224.00	\$2.08 / Cuyd	\$0.00	\$0.00	\$364.00
	· · · · · · · · · · · · · · · · · · ·			·			·	-					
02340 - 1	Bedding												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	355	Sqyd	\$0.80	\$284.00	\$8.06	\$2,861.30	\$1.02	\$362.10	\$9.88 / Sqyd	\$0.00	\$0.00	\$3,507.40
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	175	Cuyd	\$1.90	\$332.50	\$0.00	\$0.00	\$0.51	\$89.25	\$2.41 / Cuyd	\$0.00	\$0.00	\$421.75
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	175	Cuyd	\$2.93	\$512.75	\$0.00	\$0.00	\$0.78	\$136.50	\$3.71 / Cuyd	\$0.00	\$0.00	\$649.25
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	175	Cuyd	\$2.93	\$512.75	\$0.00	\$0.00	\$0.78	\$136.50	\$3.71 / Cuyd	\$0.00	\$0.00	\$649.25
02450 - 1	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	400	Cuyd	\$1.76	\$704.00	\$0.00	\$0.00	\$1.28	\$512.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$1,216.00
02460 - 1													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	175	Cuyd	\$5.95	\$1,041.25	\$0.00	\$0.00	\$10.40			\$0.00	\$0.00	\$2,861.25
	Loading Trucks, F.E. Loader, 3 C.Y	175	Cuyd	\$0.74	\$129.50	\$0.00	\$0.00	\$1.24	\$217.00	\$1.98 / Cuyd	\$0.00	\$0.00	\$346.50
02470	Soil stabilization									A			
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	50	Sqyd	\$0.32	\$16.00	\$1.85	\$92.50	\$0.00	\$0.00	\$2.17 / Sqyd	\$0.00	\$0.00	\$108.50
00.400	Pin you												
02480 - 1	, , ,	5	01	C47.00	#05.00	\$60.00	# 000 00	#00.00	£400.00	£07 / Od	#0.00	\$0.00	\$485.00
	Backing Material class #1	5 25	Cuyd	\$17.00 \$56.55	\$85.00 \$1,413.75	\$60.00 \$49.55	\$300.00 \$1,238.75	\$20.00 \$12.33	\$100.00	\$97 / Cuyd \$118.43 / Sqyd	\$0.00 \$0.00	\$0.00	\$485.00 \$2,960.75
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	25	Sqyd	\$30.33	\$1,413.75	\$49.55	\$1,236.75	\$12.33	\$308.25	\$118.43 / Sqyu	\$0.00	\$0.00	\$2,960.75
02/190 -	Erosion control												
02730 - 1	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2.614.00	\$2,614.00
	2.00.0 co.titor allowarioo.	'	Louin	ψ0.00	ψ0.00	ψυ.υυ	ψυ.υυ	ψυ.υυ	ψ0.00	ΨEO1-F/ E3UIII	Ψ0.00	Ψ2,017.00	Ψ2,017.00
02570 -	Catch basins or manholes		-										
	Junction structure	2	Each	\$680.00	\$1,360.00	\$6,000.00	\$12,000.00	\$0.00	\$0.00	\$6680 / Each	\$0.00	\$0.00	\$13,360.00
	CB or manholes, conc, precast, 4' ID, 6' deep	2	Each	\$549.75	\$1,099.50	\$1,050.00	\$2,100.00	\$148.32		\$1748.07 / Each	\$0.00	\$0.00	\$3,496.14
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	2	Each	\$158.75	\$317.50	\$201.00	\$402.00	\$35.44		\$395.19 / Each	\$0.00	\$0.00	\$790.38
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	2	Each	\$162.82	\$325.64	\$260.00	\$520.00	\$36.35		\$459.17 / Each	\$0.00	\$0.00	\$918.34
	CB or manholes, inverts, single channel brick, concrete	2	Each	\$144.00	\$288.00	\$100.00	\$200.00	\$0.00		\$244 / Each	\$0.00	\$0.00	\$488.00
	Catch basins or manholes, steps, standard sizes, aluminum	6	Each	\$9.66	\$57.96	\$26.50	\$159.00	\$0.00			\$0.00	\$0.00	\$216.96
	SITE CONSTRUCTION Total				\$8,620.10		\$19,873.55		\$4,345.82		\$0.00	\$2,614.00	\$35,453.47
											-		

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEC	CHANICAL												
15090 - I	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 72" dia	8	Lnft	\$71.46	\$571.68	\$275.00	\$2,200.00	\$7.09	\$56.72	\$353.55 / Lnft	\$0.00	\$0.00	\$2,828.40
	Piping, water dist, conc pipe, gasket, 72" dia	1	Each	\$3.14	\$3.14	\$36.00	\$36.00	\$0.00	\$0.00	\$39.14 / Each	\$0.00	\$0.00	\$39.14
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	16	Lnft	\$44.66	\$714.56	\$120.00	\$1,920.00	\$4.43	\$70.88	\$169.09 / Lnft	\$0.00	\$0.00	\$2,705.44
	Piping, water dist, conc pipe, gasket, 48" dia	2	Each	\$3.14	\$6.28	\$10.00	\$20.00	\$0.00	\$0.00	\$13.14 / Each	\$0.00	\$0.00	\$26.28
15095 - I	Process Equipment												
	Process Equipment - Vortech Precast	1	Each	\$3,850.00	\$3,850.00	\$50,400.00	\$50,400.00	\$0.00	\$0.00	\$54250 / Each	\$0.00	\$0.00	\$54,250.00
	MECHANICAL Total				\$5,145.66		\$54,576.00		\$127.60		\$0.00	\$0.00	\$59,849.26
		-											•
	Project BLU Total	-			\$13,765.76		\$74,449.55		\$17,673.42		\$901.60	\$2,614.00	\$109,404.33
		-											•
	Grand Total				\$13,765.76		\$74,449.55		\$17,673.42		\$901.60	\$2,614.00	\$109,404.33

Category	Percent	Amount
Labor	12.58%	\$13,766
Material	68.05%	\$74,450
Equipment	16.15%	\$17,673
Subcontractor	0.82%	\$902
Other	2.39%	\$2,614
Net Costs		\$109,404
Lohou Moule up	18.00%	\$0.470
Labor Mark-up		\$2,478
Material Mark-up	15.00%	\$11,167
Subcontractor Mark-up	5.00%	\$45
Equipment Mark-up	15.00%	\$2,651
Sales tax (material)	7.75%	\$5,770
Sales tax (equipment)	7.75%	\$1,370
Material Shipping & Handling	2.50%	\$1,861
Worker's Travel/Subsistence	0.10%	\$14
Subtotal		\$134,760
Contractor General Conditions	12.00%	\$16,171
Subtotal		\$150,931
Earthquake Insurance	0.10%	\$151
Subtotal		\$151,082
Construction Contingency	25.00%	\$37,771
Subtotal		\$188,853
Bldg Risk, Liability Auto Ins.	2.00%	\$3,777
Subtotal		\$192,630
Performance Bond	1.00%	\$1,926
Payment Bond	1.00%	\$1,926
Subtotal		\$196,483
Engineering Fee	10.00%	\$10,940
Environmental Permitting (Lump Sum)	-	\$49,000
Total Fatimata		#050 400
Total Estimate		\$256,423



City of Carlsbad, Master Drainage Plan

Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DQB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	OQB												
01 - GE	NERAL REQUIREMENTS												
04200	Concret on vinneant vantal												
	General equipment rental Trench box, 9500 lbs, 8'x 20'	20	Dav	\$0.00	\$0.00	\$0.00	\$0.00	\$240.00	\$4.800.00	\$240 / Day	\$0.00	\$0.00	\$4.800.00
	TIETICIT DOX, 9500 IDS, 6 X 20	20	Day	φυ.υυ	\$0.00	\$0.00	φυ.υυ	\$240.00	\$4,600.00	\$240 / Day	\$0.00	\$0.00	\$4,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$4,800.00		\$0.00	\$0.00	\$4,800.00
02 - SIT	TE CONSTRUCTION				¥		*****		V 1,0000100		*****	******	V 1,000100
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	25	Clf	\$2.34	\$58.50	\$3.06	\$76.50	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$135.00
	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	3241	Cuyd	\$0.80	\$2,592.56	\$0.00	\$0.00	\$1.28	\$4,148.10	\$2.08 / Cuyd	\$0.00	\$0.00	\$6,740.66
000.40	De delle e												
	Bedding Dedding arreshed stone 2/4" to 4/2"	1000	Cd	\$8.47	\$8,470.00	\$32.03	\$32,030.00	\$1.89	£4 000 00	\$42.39 / Cuyd	\$0.00	\$0.00	\$42,390.00
	Bedding, crushed stone 3/4" to 1/2"	1000	Cuyd	\$6.47	\$8,470.00	\$32.03	\$32,030.00	\$1.09	\$1,890.00	\$42.39 / Cuyu	\$0.00	\$0.00	\$42,390.00
02360 -	Compaction												
	Compaction, trench, walk behind, vib. plate, bedding	1846	Cuyd	\$1.90	\$3,506.45	\$0.00	\$0.00	\$0.51	\$941.21	\$2.41 / Cuyd	\$0.00	\$0.00	\$4,447.66
	Compaction, trench, walk behind, vib. plate, bedding Compaction, trench, walk behind, vib. plate, subgrade	278	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$141.68			\$0.00	\$669.50
	Compaction, trench, walk behind, vib. plate, backfill	2917	Cuyd	\$1.90		\$0.00	\$0.00	\$0.51	\$1,487.52		\$0.00	\$0.00	\$7,029.25
	Compaction, trained many risk plate, sacram	2011	ouyu	ψιισο	φο,σιπισ	ψ0.00	ψ0.00	ψ0.01	\$1,107.02	ψ2, σαγα	ψ0.00	φο.σσ	ψ.,ο20.20
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	5417	Cuyd	\$1.95	\$10,562.57	\$0.00	\$0.00	\$1.42	\$7,691.71	\$3.37 / Cuyd	\$0.00	\$0.00	\$18,254.28
	Catch basins or manholes			#	*****		***	00.00		#2000 / F		# 0.00	40.000.00
	Junction structure	1	Each	\$680.00	\$680.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00	*	\$0.00 \$0.00	\$0.00 \$0.00	\$6,680.00
	Catch basins or manholes, concrete, precast, 6' I.D., 6' deep CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	5	Each Each	\$846.67 \$158.75		\$1,850.00 \$201.00	\$9,250.00 \$1,005.00	\$189.01 \$35.44		\$2885.68 / Each \$395.19 / Each	\$0.00	\$0.00	\$14,428.40 \$1,975.95
	Catch bsns or manholes, frs and covs, hvy traffic, 24 diam, 400 lb.	5 5	Each	\$162.82		\$260.00	\$1,300.00	\$36.35		\$459.17 / Each	\$0.00	\$0.00	\$2,295.85
	CB or manholes, inverts, single channel brick, concrete	5	Each	\$102.02		\$100.00	\$500.00	\$0.00	\$0.00		\$0.00	\$0.00	\$1,220.00
	Catch basins or manholes, steps, standard sizes, aluminum	15	Each	\$9.66		\$26.50	\$397.50	\$0.00	\$0.00		\$0.00	\$0.00	\$542.40
	Catori Sasirio di Marinolos, Stopo, Staridara Sizos, diaminani	10	Lacii	ψ0.00	ψ144.00	Ψ20.00	ψουτ.σο	ψ0.00	ψ0.00	φοσ.107 Εασπ	ψ0.00	ψ0.00	ψ0-1210
	SITE CONSTRUCTION Total				\$36,172.98		\$47,356.50		\$17,245.26		\$0.00	\$0.00	\$100,774.74
03 - CO	NCRETE												
	Concrete, ready mix	_											
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$5,000.00	\$5,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$5,000.00	\$5,000.00
	CONCRETE TOTAL				φυ.υυ		φυ.υυ		φυ.υυ		\$0.00	\$5,000.00	\$5,000.00
15 - ME	CCHANICAL												
10 1112	OT WITHOUTE												
15090 -	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	2500	Lnft	\$39.70	\$99,250.00	\$73.00	\$182,500.00	\$3.94	\$9,850.00	\$116.64 / Lnft	\$0.00	\$0.00	\$291,600.00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	250	Lnft	\$39.70	\$9,925.00	\$73.00	\$18,250.00	\$3.94	\$985.00	\$116.64 / Lnft	\$0.00	\$0.00	\$29,160.00
	MECHANICAL Total				\$99,250.00		\$182,500.00		\$9,850.00		\$0.00	\$0.00	\$291,600.00
	D : (2007 t)				Ø405 400 00		#000 050 50		#04.005.00		# 0.00	# 5 000 00	#400 474 74
	Project DQB Total				\$135,422.98		\$229,856.50		\$31,895.26		\$0.00	\$5,000.00	\$402,174.74
	Grand Total				\$135,422,98		\$229.856.50		\$31.895.26		\$0.00	\$5,000,00	\$402.174.74

Category	Percent	Amount
Labor	33.67%	\$135,423
Material	57.15%	\$229,857
Equipment	7.93%	\$31,895
Subcontractor	0.00%	\$0
Other	1.24%	\$5,000
Net Costs		\$402,175
Labor Mark-up	18.00%	\$24,376
Material Mark-up	15.00%	\$34,478
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,784
Sales tax (material)	7.75%	\$17,814
Sales tax (equipment)	7.75%	\$2,472
Material Shipping & Handling	2.50%	\$5,746
Worker's Travel/Subsistence	0.10%	\$135
Subtotal		\$491,981
Contractor General Conditions	12.00%	\$59,038
Subtotal		\$551,019
Earthquake Insurance	0.10%	\$551
Subtotal		\$551,570
Construction Contingency	20.00%	\$110,314
Subtotal		\$661,884
Bldg Risk, Liability Auto Ins.	2.00%	\$13,238
Subtotal		\$675,122
Performance Bond	1.00%	\$6,751
Payment Bond	1.00%	\$6,751
Subtotal		\$688,624
Engineering Fee	10.00%	\$40,217
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$745,842



City of Carlsbad, Master Drainage Plan

Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DH

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	Н												
02 - SIT	E CONSTRUCTION												
02060 -	Site demolition												
	Site demo, Area vegetation removal	1	Acre	\$1,758.00	\$2,004.12	\$0.00	\$0.00	\$3,692.00	\$4,208.88	\$5450 / Acre	\$0.00	\$0.00	\$6,213.00
02330 -	Backfill. structural												
02330 -	Backfill, side slope fill	405	Cuyd	\$0.60	\$242.74	\$0.00	\$0.00	\$1.20	\$486.27	\$1.8 / Cuyd	\$0.00	\$0.00	\$729.01
	245Kiiii, 6145 616p5 IIII	100	Cuju	ψ0.00	ŲZ 12.1 I	ψ0.00	ψ0.00	ψ20	ψ100.21	ψο, σαγα	Ψ0.00	ψ0.00	Ų. <u>2</u> 0.0 .
02360 -	Compaction												
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	2750	Cuyd	\$2.93	\$8,057.50	\$0.00	\$0.00	\$0.78	\$2,145.00	\$3.71 / Cuyd	\$0.00	\$0.00	\$10,202.50
02410 -	Excavation,bulk,scrapers												
	Excavation, self prop scraper, 14 CY 1/4 push dozer	2500	Cuyd	\$1.29	\$3,225.00	\$0.00	\$0.00	\$5.19	\$12,975.00	\$6.48 / Cuyd	\$0.00	\$0.00	\$16,200.00
00.400	F.II.												
02430 -	Fill, spread fill, with dozer	2750	Consid	\$0.72	\$1,980.00	\$0.00	\$0.00	\$1.15	\$3,162.50	\$1.87 / Cuyd	\$0.00	\$0.00	\$5,142.50
	Fili, spread fili, with dozer	2/50	Cuyd	\$0.72	\$1,980.00	\$0.00	\$0.00	\$1.15	\$3,162.50	\$1.87 / Cuyu	\$0.00	\$0.00	\$5,142.50
02460 -	Hauling												
02400	Backfill, dozer backfilling no compaction	2750	Cuvd	\$0.80	\$2,200,00	\$0.00	\$0.00	\$1.28	\$3.520.00	\$2.08 / Cuvd	\$0.00	\$0.00	\$5,720.00
	action, dozor backining no compaction	2.00	Ouju	ψ0.00	ψ2,200.00	ψ0.00	ψο.σσ	ψ1. <u>2</u> 0	\$0,020.00	ψ2.007 Ouyu	ψ0.00	ψ0.00	ψο,, 20.00
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	200	Cuyd	\$49.95	\$9,990.00	\$60.56	\$12,112.00	\$16.44	\$3,288.00	\$126.95 / Cuyd	\$0.00	\$0.00	\$25,390.00
02490 -	Erosion control												
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.47	\$964.52	\$1.40	\$2,873.02	\$0.00	\$0.00	\$1.87 / Sqyd	\$0.00	\$0.00	\$3,837.54
00000	D												
02600 -	Base course Area aggregate, crushed 3/4" stone, compacted to 9" deep	4148	Sqyd	\$0.80	\$3.318.40	\$8.06	\$33,432.88	\$1.02	\$4,230.96	\$9.88 / Sqyd	\$0.00	\$0.00	\$40.982.24
	Area aggregate, crushed 3/4 Storie, compacted to 9 deep	4140	Sqyu	φυ.ου	φ3,316.4U	\$6.00	φου,402.00	\$1.02	\$4,230.96	ъэ.оо / З ч уи	\$0.00	\$0.00	\$40,96Z.Z4
	SITE CONSTRUCTION Total				\$31,982,28		\$48,417.90		\$34.016.61		\$0.00	\$0.00	\$114,416.79
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,				V	70.00	
	Project DH Total				\$31,982.28		\$48,417.90		\$34,016.61		\$0.00	\$0.00	\$114,416.79
	,												
	Grand Total				\$31,982.28		\$48,417.90		\$34,016.61		\$0.00	\$0.00	\$114,416.79

Category	Percent	Amount
Labor	27.95%	\$31,982
Material	42.32%	\$48,418
Equipment	29.73%	\$34,017
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$114,417
Labor Mark-up	18.00%	\$5,757
Material Mark-up	15.00%	\$7,263
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$5,102
Sales tax (material)	7.75%	\$3,752
Sales tax (equipment)	7.75%	\$2,636
Material Shipping & Handling	2.50%	\$1,210
Worker's Travel/Subsistence	0.10%	\$32
Subtotal		\$140,170
Contractor General Conditions	12.00%	\$16,820
Subtotal		\$156,990
Earthquake Insurance	0.10%	\$157
Subtotal		\$157,147
Construction Contingency	25.00%	\$39,287
Subtotal		\$196,434
Bldg Risk, Liability Auto Ins.	2.00%	\$3,929
Subtotal		\$200,363
Performance Bond	1.00%	\$2,004
Payment Bond	1.00%	\$2,004
Subtotal		\$204,370
Engineering Fee	10.00%	\$11,442
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$232,812



City of Carlsbad, Master Drainage Plan

Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: JW / DG

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 04

Estimate Revision Date:: 6/27/2008

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 6/27/2008

PROJECT LOCATION / PROCESS AREA

Project DZ

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	Z												
02 - SIT	E CONSTRUCTION												
	Fine grade			00.00	200.50		40.00	00.04	# 00.00	00.47.40		\$0.00	0.150.54
	Fine grade under asphalt	333	Sqyd	\$0.26	\$86.58	\$0.00	\$0.00	\$0.21	\$69.93	\$0.47 / Sqyd	\$0.00	\$0.00	\$156.51
02360 -	Compaction												
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	734	Cuyd	\$2.93	\$2,150.62	\$0.00	\$0.00	\$0.78	\$572.52	\$3.71 / Cuyd	\$0.00	\$0.00	\$2,723.14
	Compaction, rammer tamper, or to 11, 4 mile, backing	704	Ouyu	Ψ2.00	ψΣ,100.0Σ	ψ0.00	ψ0.00	ψ0.70	ψ072.02	ψ0:7 1 7 Ouyu	ψ0.00	ψ0.00	ΨΣ,7 ΣΟ. 1 4
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2000	Cuyd	\$1.76	\$3,520.00	\$0.00	\$0.00	\$1.28	\$2,560.00	\$3.04 / Cuyd	\$0.00	\$0.00	\$6,080.00
	, , , , ,					ì	•	,	, ,			·	
02480 -	Rip-rap												
	Rip-rap, energy dissipater	155	Sqyd	\$55.00	\$8,525.00	\$25.00	\$3,875.00	\$18.70	\$2,898.50	\$98.7 / Sqyd	\$0.00	\$0.00	\$15,298.50
02490 -	Erosion control												
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.47	\$964.52	\$1.40	\$2,873.02	\$0.00	\$0.00	\$1.87 / Sqyd	\$0.00	\$0.00	\$3,837.54
	Base course	455		00.00	010100	00.00	# 4 040 00	* 4.00	\$150.10	A0.00 / O. I		* 0.00	A4 504 40
	Area aggregate, crushed 3/4" stone, compacted to 9" deep	155	Sqyd	\$0.80	\$124.00	\$8.06	\$1,249.30	\$1.02	\$158.10	\$9.88 / Sqyd	\$0.00	\$0.00	\$1,531.40
02840 -	Landscaping												
02040 -	Landscaping Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00	\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	*	\$500 / Lsum	\$0.00		\$500.00
	Traine Control / the Warlee.		Louin	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	φοσο / Louin	ψ0.00	ψοσο.σο	φοσσ.σσ
	SITE CONSTRUCTION Total				\$15,370.72		\$7,997.32		\$6,259,05		\$500.00	\$500.00	\$30.627.09
					<i>-</i>		71,00110		70,2000		, , , , , , , , , , , , , , , , , , ,	700000	700,021100
03 - COI	NCRETE												
03150 -	Concrete, ready mix												
	10'x12' RCB Culvert (2)	375		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyd			\$375,000.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1000 / Cuyd		* - 7	\$5,000.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1000 / Cuyd	\$0.00	\$5,000.00	\$5,000.00
	_												
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$385,000.00	\$385,000.00
					0.5.070		A7 00=		00050		A E05	#00F F05	0.445.00=
	Project DZ Total				\$15,370.72		\$7,997.32		\$6,259.05		\$500.00	\$385,500.00	\$415,627.09
					\$15,370.72		\$7,997.32		\$6,259.05		\$500.00	\$385,500.00	\$415,627.09
					\$15,370.72		\$1,991.3Z		ა ნ,∠59.05		აეს.00	\$365,500.00	\$415,627.U9

Category	Percent	Amount
Labor	3.70%	\$15,371
Material	1.92%	\$7,997
Equipment	1.51%	\$6,259
Subcontractor	0.12%	\$500
Other	92.75%	\$385,500
Net Costs		\$415,627
Labor Mark-up	18.00%	\$2,767
Material Mark-up	15.00%	\$1,200
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$939
Sales tax (material)	7.75%	\$620
Sales tax (equipment)	7.75%	\$485
Material Shipping & Handling	2.50%	\$200
Worker's Travel/Subsistence	0.10%	\$15
Subtotal		\$421,877
Contractor General Conditions	12.00%	\$50,625
Subtotal		\$472,503
Earthquake Insurance	0.10%	\$473
Subtotal		\$472,975
Construction Contingency	20.00%	\$94,595
Subtotal		\$567,570
Bldg Risk, Liability Auto Ins.	2.00%	\$11,351
Subtotal		\$578,922
Performance Bond	1.00%	\$5,789
Payment Bond	1.00%	\$5,789
Subtotal		\$590,500
Engineering Fee	10.00%	\$41,563
Environmental Permitting (Lump Sum)	•	\$10,000
Total Estimate		\$642,063

	1 • · · · ·		Labor	Invento Labor	ry Materials	Materials	Equip	Equip	Total	Subs	Other	Grand
Item Description 10'x12' RCB Culvert (2)	Quantity 309.40	Unit Cuyd	\$/Unit	Amount \$0.00	\$/Unit	Amount \$0.00	\$/Unit	Amount \$0.00	\$/Unit \$1000 / Cuyd	Amount	Amount \$1,000.00	Total \$1,000.00
12'x5' RCB Culvert 3'x6' RCB Culvert	309.40 170.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
4.3'x5.7' RCB Culvert 4'x10' RCB Culvert	170.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
5-12'x12' RCB Culverts	170.00	Cuyd		\$0.00		\$0.00		\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
5'x32" RCB Culvert 6'x7' RCB Culvert	170.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
80 Patching conc, wall, wall penetration, non-shrink grout, 24" hole Apron wall	8.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
Area aggregate, crushed 3/4" stone, compacted to 9" deep Asphalt disposal - hauling and disposal fee, 4" thick	4,148.00 600.00	Sqyd Sqyd	\$0.80 \$1.00	\$3,318.40 \$600.00	\$8.06 \$4.70	\$33,432.88 \$2,820.00	\$1.02 \$1.32	\$4,230.96 \$792.00	\$9.88 / Sqyd \$7.02 / Sqyd			\$40,982.24 \$4,212.00
Asphaltic conc pavement, pavement replacement over trench, 4" thick Asphaltic conc pavement, pavement replacement over trench, 6" thick	367.00 203.71	Sqyd Sqyd	\$35.00 \$44.54	\$12,845.00 \$9,073.24	\$18.00 \$27.00	\$6,606.00 \$5,500.17	\$2.98 \$3.79	\$1,093.66 \$772.06	\$55.98 / Sqyd \$75.33 / Sqyd			\$20,544.66 \$15,345.47
Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes Backfill, dozer backfilling no compaction	11.60	Cuyd Cuyd	\$1.72 \$0.80	\$19.95 \$0.00		\$0.00 \$0.00	\$0.41 \$1.28	\$4.76 \$0.00	\$2.13 / Cuyd \$2.08 / Cuyd			\$24.71 \$0.00
Backfill, dozer backfilling, trench, no compaction Backfill, dozer backfilling, trench, no compaction, inlet	7,300.00 11.40	Cuyd Cuyd	\$0.80 \$0.80	\$5,840.00 \$9.12		\$0.00 \$0.00	\$1.28 \$1.28	\$9,344.00 \$14.59	\$2.08 / Cuyd \$2.08 / Cuyd			\$15,184.00 \$23.71
Backfill, dozer backfilling, trench, no compaction, outlet	10.40	Cuyd Cuyd	\$0.80	\$8.32		\$0.00	\$1.28	\$13.31	\$2.08 / Cuyd			\$21.63
Backfill, dozer backfilling, trench, up to 300' haul, no compaction Backfill, dozer backfilling, trench, up to 300' haul, no compaction, channel	432.00 391.00	Cuyd	\$0.80 \$0.80	\$345.60 \$312.80		\$0.00 \$0.00	\$1.28 \$1.28	\$552.96 \$500.48	\$2.08 / Cuyd \$2.08 / Cuyd			\$898.56 \$813.28
Backfill, dozer backfilling, trench, up to 300' haul, no compaction, outlet Backfill, from stockpile	47.00 140.00	Cuyd Cuyd	\$0.80 \$0.60	\$37.60 \$84.00		\$0.00 \$0.00	\$1.28 \$0.40	\$60.16 \$56.00	\$2.08 / Cuyd \$1 / Cuyd			\$97.76 \$140.00
Backfill, side slope fill Backing Material class #1	515.00 67.00	Cuyd Cuyd	\$0.60 \$17.00	\$309.00 \$1,139.00	\$60.00	\$0.00 \$4,020.00	\$1.20 \$20.00	\$619.00 \$1,340.00	\$1.8 / Cuyd \$97 / Cuyd			\$928.00 \$6,499.00
Backing Material, 200 Lb Base course, large areas, crushed 3/4" stone, compacted to 12" deep	21.00 667.00	Cuyd Sqyd	\$17.00 \$0.87	\$357.00 \$580.29	\$60.00 \$10.76	\$1,260.00 \$7,176.92	\$20.00 \$1.11	\$420.00 \$740.37	\$97 / Cuyd \$12.74 / Sqyd			\$2,037.00 \$8,497.58
Base course, large areas, crushed 3/4" stone, compacted to 9" deep Base course, large areas, crushed 3/4" stone, compacted to 6" deep	367.00 378.00	Sqyd Sqyd	\$0.80 \$0.73	\$293.60 \$275.94	\$8.06 \$5.41	\$2,958.02 \$2,044.98	\$1.02 \$0.94	\$374.34 \$355.32	\$9.88 / Sqyd \$7.08 / Sqyd			\$3,625.96 \$2,676.24
Base course, roadway, compacted to 12" deep Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	667.00 11.60	Sqyd Cuyd	\$0.87 \$2.93	\$580.29 \$33.99	\$10.76	\$7,176.92 \$0.00	\$1.11 \$0.78	\$740.37 \$9.05	\$12.74 / Sqyd \$3.71 / Cuyd			\$8,497.58 \$43.04
Bedding, crushed stone 3/4" to 1/2" Bedding, crushed stone 3/4" to 1/2", inlet	420.90 8.90	Cuyd Cuyd	\$8.47 \$8.47	\$3,565.02 \$75.38	\$32.03 \$32.03	\$13,481.43 \$285.07	\$1.89 \$1.89	\$795.50 \$16.82	\$42.39 / Cuyd \$42.39 / Cuyd			\$17,841.95 \$377.27
Bedding, crushed stone 3/4" to 1/2", outlet	47.00	Cuyd	\$8.47	\$398.09	\$32.03	\$1,505.41	\$1.89	\$88.83	\$42.39 / Cuyd			\$1,992.33
Borrow, bank measure, select granular fill, shovel, 1.5 CY bucket. 1/4 hr delivery Building paper, polyethylene vapor barrier, std, .010" thick, berm	380.00 28.00	Cuyd Cuyd	\$1.25 \$10.95	\$475.00 \$306.60	\$13.25 \$5.35	\$5,035.00 \$149.80	\$3.20 \$0.00	\$1,216.00 \$0.00	\$17.7 / Cuyd \$16.3 / Cuyd			\$6,726.00 \$456.40
Cast -In-Place Box Girter Bridge Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	5,600.00 4	Sqft Each	\$846.67	\$0.00 \$3,386.68	\$1,475.00	\$0.00 \$5,900.00	\$189.01	\$0.00 \$756.04	\$160 / Sqft \$2510.68 / Each		\$160.00	\$160.00 \$10,042.72
Catch basins or manholes, concrete, precast, 6' I.D., 6' deep Catch basins or manholes, concrete, precast, 8' I.D., 8' deep	6.00 1.00	Each Each	\$846.67 \$1,587.50	\$5,080.02 \$1,587.50	\$1,850.00 \$3,133.31	\$11,100.00 \$3,133.31	\$189.01 \$354.40	\$1,134.06 \$354.40	\$2885.68 / Each \$5075.21 / Each			\$17,314.08 \$5,075.21
Catch basins or manholes, steps, standard sizes, aluminum Catch bans or manholes, curb inlet FR, grate, large 24"x36" heavy dty	10.00 12.00	Each Each	\$9.66 \$602.88	\$96.60 \$7,234.56	\$26.50 \$472.04	\$265.00 \$5,664.48		\$0.00 \$0.00	\$36.16 / Each \$1074.92 / Each			\$361.60 \$12,899.04
Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	9.00	Each Each	\$162.82	\$1,465.38 \$423.33	\$260.00	\$2,340.00	\$36.35 \$94.51	\$327.15 \$94.51	\$459.17 / Each			\$4,132.53
Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb. CB or manholes, conc, precast, 4' ID, 6' deep	1.00 3.00	Each	\$423.33 \$549.75	\$1,649.25	\$860.00 \$1,050.00	\$860.00 \$3,150.00	\$94.51 \$148.32	\$444.96	\$1377.84 / Each \$1748.07 / Each			\$1,377.84 \$5,244.21
CB or manholes, conc, slab tops, precast, 8" thick, 4' dia CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4.00 9.00	Each Each	\$158.75 \$169.33	\$635.00 \$1,523.97	\$201.00 \$395.00	\$804.00 \$3,555.00	\$35.44 \$37.80	\$141.76 \$340.20	\$395.19 / Each \$602.13 / Each			\$1,580.76 \$5,419.17
CB or manholes, conc, slab tops, precast, 8" thick, 8' dia CB or manholes, inverts, single channel brick, concrete	1.00 3.00	Each Each	\$181.43 \$144.00	\$181.43 \$432.00	\$575.00 \$100.00	\$575.00 \$300.00	\$40.50	\$40.50 \$0.00	\$796.93 / Each \$244 / Each			\$796.93 \$732.00
CB or manholes, inverts, triple channel, conc CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	1.00	Each Each	\$240.32 \$9.66	\$240.32 \$57.96	\$134.00 \$23.00	\$134.00 \$138.00		\$0.00 \$0.00	\$374.32 / Each \$32.66 / Each			\$374.32 \$195.96
Cleanout	10.00	Each Each	\$1,019.00 \$791.91	\$10,190.00 \$1,583.82	\$1,560.00 \$1,308.00	\$15,600.00 \$2,616.00	\$249.00	\$2,490.00 \$0.00	\$2828 / Each \$2099.91 / Each			\$28,280.00 \$4,199.82
Cleanouts, fir type, rnd top, xtra hvy dty, 30" pipe size Cleanouts, fir type, rnd top, xtra hvy dty, 36" pipe size Cleanouts, fit type, rd top, xtra hvy dty, 36" pipe size	3.00	Each	\$791.91	\$2,375.73	\$1,500.00	\$4,500.00		\$0.00	\$2291.91 / Each			\$6,875.73
Cleanouts, flr type, rnd top, xtra hvy dty, 84" pipe size Clear & grub, brush, including stumps	6.00 0.29	Each Acre	\$2,217.00 \$1,759.00	\$13,302.00 \$510.11	\$3,659.00	\$21,954.00 \$0.00	\$3,686.00	\$0.00 \$1,068.94	\$5876 / Each \$5445 / Acre			\$35,256.00 \$1,579.05
Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	73.30 849.00	Cuyd Cuyd	\$2.93 \$2.93	\$214.77 \$2,487.57		\$0.00 \$0.00	\$0.78 \$0.78	\$57.17 \$662.22	\$3.71 / Cuyd \$3.71 / Cuyd			\$271.94 \$3,149.79
Compaction, rammer tamper, 6" to 11", 4" lifts, bedding Compaction, riding, vibrating roller, 6" lifts, side slope fill	634.00 515.00	Cuyd Cuyd	\$2.93 \$2.93	\$1,857.62 \$1,508.95		\$0.00 \$0.00	\$0.78 \$0.78	\$494.52 \$401.70	\$3.71 / Cuyd \$3.71 / Cuyd			\$2,352.14 \$1,910.65
Compaction, riding, vibrating roller, 6" lifts, fill Compaction, struct. or trench, walk behind, vib. plate backfill channel	9,827.00 391.00	Cuyd Cuyd	\$2.93 \$1.90	\$28,793.11 \$742.90		\$0.00 \$0.00	\$0.78 \$0.51	\$7,665.06 \$199.41	\$3.71 / Cuyd \$2.41 / Cuyd			\$36,458.17 \$942.31
Compaction, struct. or trench, walk behind, vib. plate bedding channel Compaction, struct. or trench, walk behind, vib. plate subgrade channel	167.00 111.00	Cuyd Cuyd	\$1.90 \$1.90	\$317.30 \$210.90		\$0.00 \$0.00	\$0.51 \$0.51	\$85.17 \$56.61	\$2.41 / Cuyd \$2.41 / Cuyd			\$402.47 \$267.51
Compaction, trench, walk behind, vib. plate, backfill Compaction, trench, walk behind, vib. plate, backfill outlet	2,916.70 277.00	Cuyd Cuyd	\$1.90 \$1.90	\$5,541.73 \$526.30		\$0.00 \$0.00	\$0.51 \$0.51	\$1,487.52 \$141.27	\$2.41 / Cuyd \$2.41 / Cuyd			\$7,029.25 \$667.57
Compaction, trench, walk behind, vib. plate, bedding	1,845.50	Cuyd	\$1.90	\$3,506.45		\$0.00	\$0.51	\$941.21	\$2.41 / Cuyd \$2.41 / Cuyd \$2.41 / Cuyd			\$4,447.66
Compaction, trench, walk behind, vib. plate, bedding, inlet Compaction, trench, walk behind, vib. plate, bedding, outlet	11.60 41.00	Cuyd Cuyd	\$1.90 \$1.90	\$22.04 \$77.90		\$0.00 \$0.00	\$0.51 \$0.51	\$5.92 \$20.91	\$2.41 / Cuyd			\$27.96 \$98.81
Compaction, trench, walk behind, vib. plate, inlet Compaction, trench, walk behind, vib. plate, outlet	10.20 9.30	Cuyd Cuyd	\$1.90 \$1.90	\$19.38 \$17.67		\$0.00 \$0.00	\$0.51 \$0.51	\$5.20 \$4.74	\$2.41 / Cuyd \$2.41 / Cuyd			\$24.58 \$22.41
Compaction, trench, walk behind, vib. plate, subgrade Compaction, trench, walk behind, vib. plate, subgrade outlet	277.80 5.00	Cuyd Cuyd	\$1.90 \$1.90	\$527.82 \$9.50		\$0.00 \$0.00	\$0.51 \$0.51	\$141.68 \$2.55	\$2.41 / Cuyd \$2.41 / Cuyd			\$669.50 \$12.05
Compaction, trench, walk behind, vib. plate, subgrade, inlet Compaction, trench, walk behind, vib. plate, subgrade, outlet	1.30 32.00	Cuyd Cuyd	\$1.90 \$1.90	\$2.47 \$60.80		\$0.00 \$0.00	\$0.51 \$0.51	\$0.66 \$16.32	\$2.41 / Cuyd \$2.41 / Cuyd			\$3.13 \$77.12
Compaction, trench, walk behind, vib Plate Compaction, vibratory plate, 8" lifts, common fill	5,800.00 423.00	Cuyd Cuyd	\$1.90 \$1.90	\$11,020.00 \$803.70		\$0.00 \$0.00	\$0.51 \$0.51	\$2,958.00 \$215.73	\$2.41 / Cuyd \$2.41 / Cuyd			\$13,978.00 \$1,019.43
Compaction, vibratory plate, 8" lifts, select fill, bedding Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes, subgrade	32.00 119.00	Cuyd Cuyd	\$1.90 \$1.90	\$60.80 \$226.10		\$0.00 \$0.00	\$0.51 \$0.51	\$16.32 \$60.69	\$2.41 / Cuyd \$2.41 / Cuyd			\$77.12 \$286.79
Compaction, walk behind, vibrating pl 18" wide, 12" lifts, 4 passes	1,638.00	Cuyd	\$1.90 \$1.90 \$1.90	\$3,112.20		\$0.00	\$0.51	\$835.38	\$2.41 / Cuyd			\$3,947.58
Compaction, walk behind, vibrating plate 18" wide, backfill Compaction, walk behind, vibrating plate 18" wide, bedding	269.00 50.00	Cuyd Cuyd	\$1.90	\$511.10 \$95.00		\$0.00 \$0.00	\$0.51 \$0.51	\$137.19 \$25.50	\$2.41 / Cuyd \$2.41 / Cuyd			\$648.29 \$120.50
Compaction, walk behind, vibrating plate 18" wide, subgrade Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	185.00 440.00	Cuyd Cuyd	\$1.90 \$1.90	\$351.50 \$836.00		\$0.00 \$0.00	\$0.51 \$0.51	\$94.35 \$224.40	\$2.41 / Cuyd \$2.41 / Cuyd			\$445.85 \$1,060.40
Concrete Structure (Conceptual) Headwall Concrete Structure (Conceptual) Open Baffle Box	18.00 7.00	Cuyd Cuyd		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$1000 / Cuyd		\$1,000.00 \$1,000.00	\$1,000.00 \$1,000.00
Concrete, ready mix, regular weight, 4000 psi Culvert, outlet	74.00 34.00	Cuyd Cuyd		\$0.00 \$0.00	\$120.00	\$8,880.00 \$0.00		\$0.00 \$0.00	\$120 / Cuyd \$1000 / Cuyd		\$1,000.00	\$8,880.00 \$1,000.00
Disposal fee Dump Charge, typical urban city, fees only, bldg constr mat'ls	2.00 801.00	Trk Ton		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$105 / Trk \$33 / Ton		\$105.00 \$33.00	\$105.00 \$33.00
Elevated slab Erosion control allowance:	32.00 1.00	Cuyd Lsum		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1000 / Cuyd \$2614 / Lsum		\$1,000.00 \$2,614.00	\$1,000.00 \$2,614.00
Erosion control allowance: small site: silt fence, bio bags, no special	1.00	Lsum		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$1536 / Lsum		\$1,536.00 \$500.00	\$1,536.00 \$500.00
Erosion control allowance:: Erosion control allowance:::	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$500 / Lsum \$30000 / Lsum		\$30,000.00	\$30,000.00
Erosion control, hay bales, staked Erosion control, jute mesh, 100 SY per roll, 4' wide	2,200.00 2,086.00	Inft Sqyd	\$1.19 \$0.48	\$2,618.00 \$1,001.28	\$2.25 \$0.75	\$4,950.00 \$1,564.50	\$0.10 \$0.12	\$220.00 \$250.32	\$3.54 / Inft \$1.35 / Sqyd			\$7,788.00 \$2,816.10
Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y Erosion control, silt fence, polypropylene, 3' high	2,052.16 1,800.00	Sqyd Inft	\$0.47 \$0.80	\$964.52 \$1,440.00	\$1.40 \$0.34	\$2,873.02 \$612.00		\$0.00 \$0.00	\$1.87 / Sqyd \$1.14 / Inft			\$3,837.54 \$2,052.00
Erosion control, silt fence, polypropylene, 3' high, remove Excavate trench, common earth curb, 4'-6' deep, 1-1/2 CY hyd backhoe	1,800.00 1,540.00	Inft Cuyd	\$0.80 \$1.95	\$1,440.00 \$3,003.00		\$0.00 \$0.00	\$1.42	\$0.00 \$2,186.80	\$0.8 / Inft \$3.37 / Cuyd			\$1,440.00 \$5,189.80
Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd backhoe Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1,540.00 867.00	Cuyd Cuyd	\$1.76 \$1.95	\$2,710.40 \$1,690.65		\$0.00 \$0.00	\$1.28 \$1.42	\$1,971.20 \$1,231.14	\$3.04 / Cuyd \$3.37 / Cuyd			\$4,681.60 \$2,921.79
Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	5,416.70 21.60	Cuyd Cuyd	\$1.95 \$1.95	\$10,562.57 \$42.12		\$0.00 \$0.00	\$1.42 \$1.42	\$7,691.71 \$30.67	\$3.37 / Cuyd \$3.37 / Cuyd			\$18,254.28 \$72.79
Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, inlet Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	112.00 516.00	Cuyd Cuyd Cuyd	\$1.95 \$1.95 \$1.95	\$42.12 \$218.40 \$1,006.20		\$0.00 \$0.00 \$0.00	\$1.42 \$1.42 \$1.42	\$159.04 \$732.72	\$3.37 / Cuyd \$3.37 / Cuyd \$3.37 / Cuyd			\$72.79 \$377.44 \$1,738.92
Excavating, bulk bank measure, backhoe, hyd, 1-1/2 CY cap. = 100 CY/hr Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap. = 80 CY Expanding, trutture, mach except, cap ageth, but backhoe, 1.4/2 CY by	1,864.00	Cuyd	\$1.95	\$3,634.80		\$0.00	\$1.42	\$2,646.88	\$3.37 / Cuyd			\$6,281.68
Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt	2,245.00 1,000.00	Cuyd Cuyd	\$7.33 \$5.28	\$16,455.85 \$5,280.00		\$0.00 \$0.00	\$5.34 \$6.70	\$11,988.30 \$6,700.00	\$12.67 / Cuyd \$11.98 / Cuyd			\$28,444.15 \$11,980.00
Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt, channel Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	890.00 1,000.00	Cuyd Cuyd	\$5.28 \$5.28	\$4,699.20 \$5,280.00		\$0.00 \$0.00	\$6.70 \$6.70	\$5,963.00 \$6,700.00	\$11.98 / Cuyd \$11.98 / Cuyd			\$10,662.20 \$11,980.00
Excavation, self prop scraper, 14 CY 1/4 push dozer Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	3,806.40 22,000.00	Cuyd Cuyd	\$1.29 \$1.29	\$4,910.26 \$28,380.00		\$0.00 \$0.00	\$5.19 \$5.19	\$19,755.22 \$114,180.00	\$6.48 / Cuyd \$6.48 / Cuyd			\$24,665.47 \$142,560.00
Fill, spread dumped material, by dozer, no compaction Fill, spread dumped material, by dozer, no compaction, berm	695.00 74.00	Cuyd Cuyd	\$0.72 \$0.72	\$500.40 \$53.28		\$0.00 \$0.00	\$1.15 \$1.15	\$799.25 \$85.10	\$1.87 / Cuyd \$1.87 / Cuyd			\$1,299.65 \$138.38
Fill, spread fill, with dozer Fine grade under asphalt	404.57 367.00	Cuyd Sqyd	\$0.72 \$0.26	\$291.29 \$95.42		\$0.00 \$0.00	\$1.15 \$0.21	\$465.26 \$77.07	\$1.87 / Cuyd \$0.47 / Sqyd			\$756.55 \$172.49
Fine grade, fine grade granular base for sidewalks and bikeways	482.00	Sqyd	\$1.06	\$510.92		\$0.00	\$0.15	\$72.30	\$1.21 / Sqyd			\$583.22
Fine grade, grade subgrade for base course, roadways Finishing floors, monolithic, machine trowel, for finish floor	1,067.00 6,000.00	Sqyd Sqft	\$0.26 \$0.68	\$277.42 \$4,080.00		\$0.00 \$0.00	\$0.21	\$224.07 \$0.00	\$0.47 / Sqyd \$0.68 / Sqft			\$501.49 \$4,080.00
Finishing floors, monolithic, screed, float, & hand trowel, channel Finishing slabs, break ties, forms & patch voids	4,800.00 12,000.00	Sqft Sqft	\$0.62 \$1.17	\$2,976.00 \$14,040.00	\$0.03	\$0.00 \$360.00		\$0.00 \$0.00	\$0.62 / Sqft \$1.2 / Sqft			\$2,976.00 \$14,400.00
Finishing walls, carborundum rub, wet rub Footing	6,000.00 32.00	Sqft Cuyd	\$2.13	\$12,780.00 \$0.00	\$0.03	\$180.00 \$0.00		\$0.00 \$0.00	\$2.16 / Sqft \$1000 / Cuyd		\$1,000.00	\$12,960.00 \$1,000.00
Forms in place, SOG, edge forms, 7" to 12" high, wood, channel Forms in place, SOG, edge forms, over 12", wood	1,216.00 2,012.00	Sfca Sfca	\$3.99 \$3.99	\$4,851.84 \$8,027.88	\$0.80 \$0.80	\$972.80 \$1,609.60		\$0.00 \$0.00	\$4.79 / Sfca \$4.79 / Sfca			\$5,824.64 \$9,637.48
Forms in place, walls, job built plyform, to 8' high, below gr Forms in place, walls, job built plyform, to 8' high, channel	12,000.00 2,400.00	Sfca Sfca	\$7.35 \$7.35	\$88,200.00 \$17,640.00	\$2.59 \$2.59	\$31,080.00 \$6,216.00		\$0.00 \$0.00	\$9.94 / Sfca \$9.94 / Sfca			\$119,280.00 \$23,856.00
Grade pad, contour area Grade slopes	23,334.00 6,556.00	Sqyd Sqyd	\$0.55 \$0.55	\$12,833.70 \$3,605.80		\$0.00 \$0.00	\$0.44 \$0.44	\$10,266.96 \$2,884.64	\$0.99 / Sqyd \$0.99 / Sqyd			\$23,100.66 \$6,490.44
Granular fill Granular fill, berm	695.00 74.00	Cuyd Cuyd	71.00	\$0.00 \$0.00	\$10.06 \$17.04	\$6,991.70 \$1,260.96	\$0.00	\$0.00 \$0.00	\$10.06 / Cuyd \$17.04 / Cuyd		 	\$6,991.70 \$1,260.96
Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	867.00 616.00	Cuyd Cuyd Cuyd	\$7.18 \$7.18	\$6,225.06 \$4,422.88	\$3.00 \$3.00	\$2,601.00 \$1,848.00	\$15.45 \$15.45	\$13,392.00 \$9,515.00	\$25.63 / Cuyd \$25.63 / Cuyd			\$22,218.06 \$15,785.88
Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr and disposal fe	e 1,053.00	Cuyd	\$7.18	\$7,560.54	\$3.00 \$3.00	\$3,159.00	\$15.45	\$16,264.94	\$25.63 / Cuyd			\$26,984.48
Hauling, LCY, no loading, 12 c.y. dump truck, 6 MI RT, 1 Ids/hr Hauling, LCY, no loading, 12 CY dump truck, clear & grub	1,400.00 237.00	Cuyd Cuyd	\$10.52 \$4.66	\$14,728.00 \$1,104.42		\$0.00 \$0.00	\$18.95 \$9.74	\$26,529.00 \$2,308.38	\$29.47 / Cuyd \$14.4 / Cuyd			\$41,257.00 \$3,412.80
Hauling, LCY, no loading, 12 CY dump truck, stockpile on site Hauling, LCY, no loading, 20 c.y dump truck, 30 MI RT, 0.33 lds/hr, concrete	140.00 93.00	Cuyd Cuyd	\$4.66 \$5.68	\$652.40 \$528.24		\$0.00 \$0.00	\$9.74 \$9.92	\$1,363.60 \$923.00	\$14.4 / Cuyd \$15.6 / Cuyd			\$2,016.00 \$1,451.24
Hauling, LCY, no loading, 20 c.y. dump truck, 20 MI RT, 0.4 lds/hr, channel Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	499.00 70,200.00	Cuyd Cuyd	\$5.95 \$5.95	\$2,969.05 \$417,690.00		\$0.00 \$0.00	\$10.40 \$10.40	\$5,189.60 \$730,080.00	\$16.35 / Cuyd \$16.35 / Cuyd			\$8,158.65 \$1,147,770.00
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, concrete Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr, outlet	23.00 93.00	Cuyd Cuyd	\$5.95 \$5.95	\$136.85 \$553.35		\$0.00 \$0.00	\$10.40 \$10.40	\$239.20 \$967.20	\$16.35 / Cuyd \$16.35 / Cuyd		-	\$376.05 \$1,520.55
Hauling, LCY, no loading, 20 c.y. dump truck, 30 Mi RT. 0.33 ins/nr. dumet		Cuyd	\$0.58	\$31,320.00		\$0.00 \$0.00	\$0.95	\$51,300.00 \$0.00	\$1.53 / Cuyd \$1000 / Cuyd		\$1,000.00	\$82,620.00 \$1,000.00
Hauling, LCY, no loading, 20 c.y. dump truck, 30 MIRT, 0.33 lds/nr, outlet Headwall Headwall	54,000.00 3.00	Cuyd		\$0.00							\$1.000.000	÷.,555.00
Hauling, LCY, no loading, 50" haul Headwall Headwall, conc, CIP, 30< skewed wingwall	3.00 1.00	Each	\$6,762.00 \$5,480.00	\$6,762.00	\$2,173.00 \$2,173.00	\$2,173.00	\$158.00 \$138.00	\$158.00	\$9093 / Each		\$1,000.00	\$9,093.00 \$15,582.00
Hauling, LCY, no loading, 50" haul Headwall Headwall, conc, CIP, 30< skewed wingwall Headwall, conc, CIP, 30< skewed wingwall, Headwall, inlet	3.00 1.00 2.00 2.48	Each Each Cuyd	\$6,762.00 \$5,480.00	\$6,762.00 \$10,960.00 \$0.00	\$2,173.00 \$2,173.00	\$2,173.00 \$4,346.00 \$0.00	\$158.00 \$138.00	\$158.00 \$276.00 \$0.00	\$9093 / Each \$7791 / Each \$1000 / Cuyd		\$1,000.00	\$15,582.00 \$1,000.00
Hauling, LCY, no loading, 50° haul Headwall Headwall, conc, CIP, 30< skewed wingwall Headwall, conc, CIP, 30< skewed wingwall	3.00 1.00 2.00	Each Each		\$6,762.00 \$10,960.00		\$2,173.00 \$4,346.00		\$158.00 \$276.00	\$9093 / Each \$7791 / Each			\$15,582.00

Hom Decariation	Quantity	Unit	Labor	Labor	Materials	Materials	Equip	Equip	Total	Subs	Other	Grand
Item Description	Quantity		\$/Unit	Amount	\$/Unit	Amount	\$/Unit	Amount	\$/Unit	Amount	Amount	Total
Junction structure manholes, concrete, precast, 8' I.D., 8' deep, Landscaping Allowance	1.00	Each Lsum	\$1,587.50	\$1,587.50 \$0.00	\$3,133.31	\$3,133.31 \$0.00	\$354.40	\$354.40 \$0.00	\$5075.21 / Each \$5000 / Lsum	\$5,000.00		\$5,075.2° \$5,000.00
Landscaping Allowance:	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$500 / Lsum	\$5,000.00		\$5,000.00
Landscaping Allowance::	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$30000 / Lsum		\$30,000.00	\$30,000.00
Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925 93.00	Lnft Cuyd	\$0.12 \$0.74	\$111.00 \$68.82	\$0.17	\$157.25 \$0.00	\$0.08	\$74.00 \$115.32	\$0.37 / Lnft			\$342.25 \$184.14
Loading Trucks, F.E. Loader, 3 C.Y., concrete Loading Trucks, F.E. Loader, 3 C.Y	616.00	Cuyd	\$0.74 \$0.74	\$68.82 \$455.84		\$0.00	\$1.24 \$1.24	\$115.32 \$763.84	\$1.98 / Cuyd \$1.98 / Cuyd			\$1,219.68
Loading Trucks, F.E. Loader, 3 C.Y, channel	499.00	Cuyd	\$0.74	\$369.26		\$0.00	\$1.24	\$618.76	\$1.98 / Cuyd			\$988.02
Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	237.00	Cuyd	\$0.74	\$175.38		\$0.00	\$1.24	\$293.88	\$1.98 / Cuyd			\$469.26
Loading Trucks, F.E. Loader, 3 C.Y, concrete	23.00	Cuyd	\$0.74	\$17.02		\$0.00	\$1.24	\$28.52	\$1.98 / Cuyd			\$45.54
Loading Trucks, F.E. Loader, 3 C.Y, outlet Loading Trucks, F.E. Loader, 3 C.Y, stockpile	93.00 140.00	Cuyd Cuyd	\$0.74 \$0.74	\$68.82 \$103.60		\$0.00 \$0.00	\$1.24 \$1.24	\$115.32 \$173.60	\$1.98 / Cuyd \$1.98 / Cuyd			\$184.14 \$277.20
Misc metals, allowance	1.00	Lsum	ψ0.74	\$0.00		\$0.00	Ψ1.24	\$0.00	\$500 / Lsum		\$500.00	\$500.00
Painting lines, thermoplastic, white or yellow, 6" wide	204.00	Lnft	\$0.14	\$28.56		\$0.00	\$0.00	\$0.00	\$0.14 / Lnft			\$28.56
Patching conc, wall, wall penetration, non-shrink grout,	8	Each	\$75.38	\$603.04	\$286.20	\$2,289.60		\$0.00	\$361.58 / Each			\$2,892.64
Patching conc, wall, wall penetration, non-shrink grout, 24" hole Patching conc, wall, wall penetration, non-shrink grout, 30" hole	2	Each Each	\$79.82 \$75.38	\$159.64 \$603.04	\$238.50 \$238.50	\$477.00 \$1,908.00		\$0.00 \$0.00	\$318.32 / Each \$313.88 / Each			\$636.64 \$2,511.04
Patching conc, wall, wall penetration, non-shrink grout, 30 hole Patching conc, wall, wall penetration, non-shrink grout, 42" hole	18.00	Each	\$79.20	\$1,425.60	\$230.50	\$4,320.00		\$0.00	\$319.2 / Each			\$5,745.60
Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	275.00	Lnft	\$18.85	\$5,183.75	\$32.00	\$8,800.00	\$2.18	\$599.50	\$53.03 / Lnft			\$14,583.25
Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	900.00	Lnft	\$24.50	\$22,050.00	\$35.00	\$31,500.00	\$2.84	\$2,556.00	\$62.34 / Lnft			\$56,106.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	925	Lnft	\$32.48	\$30,044.00	\$43.00	\$39,775.00	\$3.22	\$2,978.50	\$78.7 / Lnft			\$72,797.50
Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia Piping, drainage & sewage, RCP, class 3, no gaskets, 39" dia	550.00 800.00	Lnft Lnft	\$39.70 \$39.70	\$21,835.00 \$31,760.00	\$73.00 \$78.00	\$40,150.00 \$62,400.00	\$3.94 \$3.94	\$2,167.00 \$3,152.00	\$116.64 / Lnft \$121.64 / Lnft			\$64,152.00 \$97,312.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 42" dia	1,600.00	Lnft	\$39.70	\$63,520.00	\$95.00	\$152,000.00	\$3.94	\$6,304.00	\$138.64 / Lnft	1		\$221,824.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	800.00	Lnft	\$44.66	\$35,728.00	\$120.00	\$96,000.00	\$4.43	\$3,544.00	\$169.09 / Lnft			\$135,272.00
Piping, drainage & sewage, RCP, class 3, no gaskets, 66" dia	150.00	Lnft	\$71.46	\$10,719.00	\$250.00	\$37,500.00	\$7.09	\$1,063.50	\$328.55 / Lnft			\$49,282.50
Piping, drainage & sewage, RCP, class 3, no gaskets, 72" dia	8.00	Lnft Lnft	\$71.46	\$571.68	\$275.00	\$2,200.00	\$7.09	\$56.72	\$353.55 / Lnft	1		\$2,828.40
Piping, drainage & sewage, RCP, class 3, no gaskets, 84" dia Piping, drainage & sewage, RCP, class 3, no gaskets, 90" dia	3,600.00 600.00	Lnft Lnft	\$125.05 \$125.05	\$450,180.00 \$75,030.00	\$300.00 \$450.00	\$1,080,000.00 \$270,000.00	\$12.40 \$12.40	\$44,640.00 \$7,440.00	\$437.45 / Lnft \$587.45 / Lnft	1		\$1,574,820.00 \$352,470.00
Piping, storm drain, CMP, plain, 20' lengths, 24" dia, 14 ga	24.00	Lnft	\$14.00	\$336.00	\$17.62	\$422.88	\$1.62	\$38.88	\$33.24 / Lnft			\$797.76
Piping, water dist, conc pipe, gasket, 18" dia	100.00	Each	\$3.14	\$314.00	\$4.50	\$450.00		\$0.00	\$7.64 / Each			\$764.00
Piping, water dist, conc pipe, gasket, 24" dia	70.00	Each	\$3.14	\$219.80	\$4.75	\$332.50		\$0.00	\$7.89 / Each			\$552.30
Piping, water dist, conc pipe, gasket, 30" dia Piping, water dist, conc pipe, gasket, 36" dia	70 55.00	Each Each	\$3.14 \$3.14	\$219.80 \$172.70	\$6.00 \$6.50	\$420.00 \$357.50		\$0.00 \$0.00	\$9.14 / Each \$9.64 / Each			\$639.80 \$530.20
Piping, water dist, conc pipe, gasket, 35" dia Piping, water dist, conc pipe, gasket, 39" dia	80.00	Each	\$3.14	\$172.70	\$9.20	\$736.00		\$0.00	\$12.34 / Each			\$987.20
Piping, water dist, conc pipe, gasket, 42" dia	123.00	Each	\$3.14	\$386.22	\$9.50	\$1,168.50		\$0.00	\$12.64 / Each			\$1,554.72
Piping, water dist, conc pipe, gasket, 48" dia	61.00	Each	\$3.14	\$191.54	\$10.00	\$610.00		\$0.00	\$13.14 / Each			\$801.54
Piping, water dist, conc pipe, gasket, 72" dia	46.00	Each	\$3.14	\$144.44	\$36.00	\$1,656.00		\$0.00	\$39.14 / Each			\$1,800.44
Piping, water dist, conc pipe, gasket, 90" dia Placing conc, incl vib, slab on grade, 6" thick, pumped	46.00 74.00	Each Cuyd	\$3.14 \$17.45	\$144.44 \$1,291.30	\$36.00	\$1,656.00 \$0.00	\$5.56	\$0.00 \$411.44	\$39.14 / Each \$23.01 / Cuyd			\$1,800.44 \$1,702.74
Placing conc, incl vib, slab on grade, o trick, pumped Placing conc, incl vib, slab on grade, pumped, channel	59.00	Cuyd	\$17.45	\$1,029.55		\$0.00	\$5.56	\$328.04	\$23.01 / Cuyd			\$1,702.74
Placing conc, incl vib, walls, 8" thick, pumped	74.00	Cuyd	\$32.28	\$2,388.72		\$0.00	\$10.28	\$760.72	\$42.56 / Cuyd			\$3,149.44
Placing conc, incl vib, walls, pumped, channel	45.00	Cuyd	\$32.28	\$1,452.60		\$0.00	\$10.28	\$462.60	\$42.56 / Cuyd			\$1,915.20
Pot Holing - pipe lines	28.00	Each	\$250.00	\$7,000.00		\$0.00	\$35.00	\$980.00	\$285 / Each			\$7,980.00
Pot Holing - pipe lines: 2 per 100' Pre-cast concrete wall penetration, non-shrink grout, 24" hole	32.00 8.00	Each Each	\$250.00 \$75.00	\$8,000.00 \$600.00	\$108.00	\$0.00 \$864.00	\$35.00	\$1,120.00 \$0.00	\$285 / Each \$183 / Each			\$9,120.00 \$1,464.00
Pre-cast concrete wall penetration, non-shrink grout, 24 hole	18.00	Each	\$100.00	\$1,800.00	\$240.00	\$4,320.00		\$0.00	\$340 / Each			\$6,120.00
Process Equipment - Vortech Precast	1.00	Each	\$3,850.00	\$3,850.00	\$50,400.00	\$50,400.00		\$0.00	\$54250 / Each			\$54,250.00
Railing, pipe, aluminum, 3 rail, clear anodized	272.00	Lnft	\$15.67	\$4,262.24	\$45.95	\$12,498.40	\$0.96	\$261.12	\$81.58 / Lnft		\$19.00	\$17,040.76
Rent crane truck mounted, hydraulic, 55 ton Rent crane truck mounted, hydraulic, 55 ton capacity	45.00 30.00	Day Day		\$0.00 \$0.00		\$0.00 \$0.00	\$990.00 \$990.00	\$44,550.00 \$29,700.00	\$41562 / Day \$28038 / Day	\$40,572.00 \$27,048.00		\$85,122.00 \$56,748.00
Rent crane truck mounted, hydraulic, 55 ton capacity Rent crane truck mounted, hydraulic, 55 ton capacity - Type B	1.00	Day		\$0.00		\$0.00	\$990.00	\$990.00	\$1891.6 / Day	\$901.60		\$1,891.60
Retaining wall	25.00	Cuyd		\$0.00		\$0.00	***************************************	\$0.00	\$1000 / Cuyd	400	\$1,000.00	\$1,000.00
Rip-rap, energy dissipater	120.00	Sqyd	\$55.00	\$6,600.00	\$25.00	\$3,000.00	\$18.70	\$2,244.00	\$98.7 / Sqyd			\$11,844.00
Rip-rap, gabions, galv steel mesh boxes, stone filled	100.00	Cuyd	\$49.95	\$4,995.00	\$60.56	\$6,056.00	\$16.44	\$1,644.00	\$126.95 / Cuyd			\$12,695.00
Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep Rip-rap, mach placed for slp protec, 18" min thick. not grouted	100.00 618.00	Cuyd Sqyd	\$49.95 \$56.55	\$4,995.00 \$34,947.90	\$60.56 \$49.55	\$6,056.00 \$30,621.90	\$16.44 \$12.33	\$1,644.00 \$7,619.94	\$126.95 / Cuyd \$118.43 / Sqyd	1		\$12,695.00 \$73,189.74
Rip-rap, mach placed for slp protec, 18" min thick, not grouted	1,334.00	Sqyd	\$56.55	\$75,437.70	\$49.55	\$66,099.70	\$12.33	\$16,448.22	\$118.43 / Sqyd	1		\$157,985.62
Rip-rap, machine placed for slope prot, 3/8 to 1/4 CY pieces	52.00	Cuyd	\$37.46	\$1,947.92	\$49.55	\$2,576.60	\$12.33	\$641.16	\$99.34 / Cuyd			\$5,165.68
RT, 0.4 lds/hr and disposal fee		Each		\$0.00		\$0.00		\$0.00	\$0 / Each			\$0.00
Saw cutting, asphalt, after 3" deep; each addl inch of depth Saw cutting, asphalt, up to 3" deep	1,112.00 1,112.00	Lnft Lnft	\$0.82 \$0.48	\$911.84 \$533.76	\$0.30 \$0.07	\$333.60 \$77.84	\$0.44 \$0.26	\$489.28 \$289.12	\$1.56 / Lnft \$0.81 / Lnft			\$1,734.72 \$900.72
Saw cutting, aspnait, up to 3" deep Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	1,112.00	Sqft	\$0.48	\$533.76 \$18,519.60	\$0.07 \$11.41	\$15,061.20	\$0.26	\$289.12 \$13,992.00	\$0.81 / Lntt \$36.04 / Sqft	1		\$47,572.80
Sidewalks, conc, 3000 PSI, CIP w/ 6x6 mesh, broom fin, no basem 4" T	544.00	Sqft	\$2.01	\$1,093.44	\$1.45	\$788.80	\$0.00	\$0.00	\$3.46 / Sqft			\$1,882.24
Sidewalks, conc, 3000 PSI, for bank run gravel base, 4" thick, add	544.00	Sqft	\$0.47	\$255.68	\$0.42	\$228.48	\$0.04	\$21.76	\$0.93 / Sqft			\$505.92
Site demo, Area vegetation removal Site dml, conc7" to 24" thick, rod reinforced	1.14	Acre	\$1,758.00	\$2,004.12		\$0.00	\$3,692.00	\$4,208.88 \$1,405.07	\$5450 / Acre			\$6,213.00
Site dml, conc/" to 24" thick, rod reinforced Site dml, no hauling, pavement removal, bit, 4" thk	23.00 130.00	Cuyd Sqyd	\$92.56 \$5.29	\$2,128.88 \$687.70		\$0.00 \$0.00	\$61.09 \$3.49	\$1,405.07 \$453.70	\$153.65 / Cuyd \$8.78 / Sqyd			\$3,533.95 \$1,141.40
Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1,072.00	Sqyd	\$5.29	\$5,670.88		\$0.00	\$3.49	\$3,741.28	\$8.78 / Sqyd			\$9,412.16
Slab on Grade	28.00	Cuyd		\$0.00		\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Slab on Grade for roadway	202.00	Cuyd		\$0.00		\$0.00	\$0.00	\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Slope Landscaping/irrigation Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	59,000.00 290.00	Sqft Sqyd	\$0.32	\$0.00 \$92.80	\$1.85	\$0.00 \$536.50		\$0.00 \$0.00	\$29500 / Sqft \$2.17 / Sqyd			\$29,500.00 \$629.30
Struct stl, WF, W 36 x 170	270.00	Lnft	\$0.32 \$4.66	\$1,258.20	\$1.05	\$51,958.80	\$1.87	\$504.90	\$2.17 / Sqyd \$198.97 / Lnft	I		\$53,721.90
Struct stl, WF, W 36 x 171	270.00	Lnft	\$4.66	\$1,258.20	\$192.44	\$51,958.80	\$1.87	\$504.90	\$198.97 / Lnft			\$53,721.90
Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	11.60	Cuyd	\$2.93	\$33.99		\$0.00	\$0.78	\$9.05	\$3.71 / Cuyd			\$43.04
Traffic Control Allowance	1.00	Lsum		\$0.00		\$0.00		\$0.00	\$30000 / Lsum		\$30,000.00	\$30,000.00
Traffic Control Allowance: Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1.00	Lsum Lsum		\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00	\$500 / Lsum \$4878 / Lsum	-	\$500.00 \$4,878.00	\$500.00 \$4,878.00
Trench box, 7200 lbs, 6'x 20'	12.00	Day		\$0.00		\$0.00	\$141.60	\$1,699.20	\$46767 LSuiii \$141.6 / Day		ψ-1,070.00	\$1,699.20
Trench box, 9500 lbs, 8'x 20'	20.00	Day		\$0.00		\$0.00	\$240.00	\$4,800.00	\$240 / Day			\$4,800.00
Trench Plates allowance	1.00	Mo		\$0.00		\$0.00	\$900.00	\$900.00	\$900 / Mo			\$900.00
Underground tape, detectable aluminum, 2"	9	Clf	\$2.34	\$21.06	\$3.06	\$27.54		\$0.00	\$5.4 / Clf		Ø4 000 CC	\$48.6
Wall, bridge Water unit	120 1628	Cuyd Gal	\$0.70	\$0.00 \$1,139.60	\$1.05	\$0.00 \$1,709.40		\$0.00 \$0.00	\$1000 / Cuyd \$1.75 / Gal	1	\$1,000.00	\$1,000.0 \$2,849.0
Welded wire fabric, 10/10 gage, SOG	20	Csf	\$36.61	\$732.20	\$29.41	\$588.20		\$0.00	\$66.02 / Csf	1		\$1,320.4
Welded wire fabric, 10/10 gage, Walls	60	Csf	\$36.61	\$2,196.60	\$29.41	\$1,764.60		\$0.00	\$66.02 / Csf			\$3,961.20
Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF, channel	12	Csf	\$36.61	\$439.32	\$29.41	\$352.92		\$0.00	\$66.02 / Csf			\$792.24
Wing wall for 7'X11' box culvert	9.15	Cuyd		\$0.00		\$0.00	00.55	\$0.00	\$1000 / Cuyd		\$1,000.00	\$1,000.00
Wingwall	1	Lsum		\$0.00		\$0.00	\$0.00	\$0.00	\$154850 / Lsum	1	\$154,850.00	\$154,850.00