

Appendix G



Cost Estimates

Bicycle Project: 1. H Street/East H Street Multi-Use Path

Improvement Description	Units	Unit Cost	Quantity	Cost
Class I bike path (10' wide)	mile	\$2,500,000.00	5.8	\$14,500,000.00
Sub-Total				\$14,500,000.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$2,900,000.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$7,250,000.00
Construction Management		15%		\$2,175,000.00
Contingency		30%		\$4,350,000.00
Total Cost Estimate:				\$31,175,000.00

Note: Multi-Use costs for both sides of the road (2.9 mile corridor = 5.8 miles of Class I)

Bicycle Project: 2. Main Street Buffered Bike Lanes

Improvement Description	Units	Unit Cost	Quantity	Cost
Class II with Buffer	mile	\$294,745.00	2.8	\$825,286.00
Sub-Total				\$825,286.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$165,057.20
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$412,643.00
Construction Management		15%		\$123,792.90
Contingency		30%		\$247,585.80
Total Cost Estimate:				\$1,774,364.90

Bicycle Project: 3. J Street/East J Street Bicycle Boulevard

Improvement Description	Units	Unit Cost	Quantity	Cost
Mid-Block Curb Extension/Choker	pair	\$150,000.00	5	\$750,000.00
Intersection Curb Extension/Bulb-Out	pair	\$350,000.00	11	\$3,850,000.00
Speed Cushion	ea	\$20,000.00	20	\$400,000.00
Class III Bike Route Sharrow Marking	ea	\$80.00	40	\$3,200.00
Class III Bike Route vertical sign/pole	ea	\$500.00	20	\$10,000.00
Sub-Total				\$5,013,200.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$2,000.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$5,000.00
Construction Management		15%		\$1,500.00
Contingency		30%		\$3,000.00
Total Cost Estimate:				\$5,034,700.00

Note: "Chokers" spaced every 1/2 mile; "Bulb-Outs" spaced every 1/4 mile; 2 "speed cushions" per 1/4 mi. stretch; 4 "sharrows" per 1/4 mi. stretch (2 in each direction)

Bicycle Project: 4. Palomar Street/East Palomar Street Bike Lanes

Improvement Description	Units	Unit Cost	Quantity	Cost
Class II W/O Buffer	mile	\$32,636.00	2.2	\$71,799.20
Sub-Total				\$71,799.20
Pre-Construction (Env. Clearance, PS&E)		20%		\$14,359.84
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$35,899.60
Construction Management		15%		\$10,769.88
Contingency		30%		\$21,539.76
Total Cost Estimate:				\$154,368.28

Bicycle Project: 5. Fourth Avenue Buffered Bike Lanes

Improvement Description	Units	Unit Cost	Quantity	Cost
Class II with Buffer	mile	\$294,745.00	2.2	\$648,439.00
Sub-Total				\$648,439.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$129,687.80
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$324,219.50
Construction Management		15%		\$97,265.85
Contingency		30%		\$194,531.70
Total Cost Estimate:				\$1,394,143.85

Bicycle Project: 6. Bay Boulevard Multi-Use Path

Improvement Description	Units	Unit Cost	Quantity	Cost
Class I bike path (10' wide)	mile	\$2,500,000.00	0.8	\$2,000,000.00
Sub-Total				\$2,000,000.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$400,000.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$1,000,000.00
Construction Management		15%		\$300,000.00
Contingency		30%		\$600,000.00
Total Cost Estimate:				\$4,300,000.00

Note: Multi-Use costs for one side of the road (0.8 mile corridor = 0.8 miles of Class I)

Bicycle Project: 7. F Street Multi-Use Paths

Improvement Description	Units	Unit Cost	Quantity	Cost
Class I bike path (10' wide)	mile	\$2,500,000.00	2.4	\$6,000,000.00
Sub-Total				\$6,000,000.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$1,200,000.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$3,000,000.00
Construction Management		15%		\$900,000.00
Contingency		30%		\$1,800,000.00
Total Cost Estimate:				\$12,900,000.00

Note: Multi-Use costs for both sides of the road (1.2 mile corridor = 2.4 miles of Class I)

Bicycle Project: 8. Fifth Avenue Bicycle Boulevard

Improvement Description	Units	Unit Cost	Quantity	Cost
Mid-Block Curb Extension/Choker	pair	\$150,000.00	2	\$300,000.00
Intersection Curb Extension/Bulb-Out	pair	\$350,000.00	6	\$2,100,000.00
Speed Cushion	ea	\$20,000.00	10	\$200,000.00
Class III Bike Route Sharrow Marking	ea	\$80.00	20	\$1,600.00
Class III Bike Route vertical sign/pole	ea	\$500.00	10	\$5,000.00
Subtotal				\$2,606,600.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$521,320.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$1,303,300.00
Construction Management		15%		\$390,990.00
Contingency		30%		\$781,980.00
Total Cost Estimate:				\$5,604,190.00

Note: "Chokers" spaced every 1/2 mile; "Bulb-Outs" spaced every 1/4 mile; 2 "speed cushions" per 1/4 mi. stretch; 4 "sharrows" per 1/4 mi. stretch (2 in each direction)

Bicycle Project: 9. Bay Boulevard Multi-Use Path

Improvement Description	Units	Unit Cost	Quantity	Cost
Class I bike path (10' wide)	mile	\$2,500,000.00	0.4	\$1,000,000.00
Sub-Total				\$1,000,000.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$200,000.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$500,000.00
Construction Management		15%		\$150,000.00
Contingency		30%		\$300,000.00
Total Cost Estimate:				\$2,150,000.00

Note: Multi-Use costs for one side of the road (0.4 mile corridor = 0.4 miles of Class I)

Bicycle Project: 10. L Street Bike Lanes

Improvement Description	Units	Unit Cost	Quantity	Cost
Class II W/O Buffer	mile	\$32,636.00	1	\$32,636.00
				\$0.00
				\$0.00
				\$0.00
Sub-Total				\$32,636.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$6,527.20
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$16,318.00
Construction Management		15%		\$4,895.40
Contingency		30%		\$9,790.80
Total Cost Estimate:				\$70,167.40

Sidewalk Project: 1. Industrial Boulevard from Ada Street to Anita Street

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	3945	\$47,340.00
Curb and Gutter	lin. ft.	\$35.00	789	\$27,615.00
Reconstruction of Curb Ramps	each	\$15,000.00	3	\$45,000.00
Sub-Total				\$119,955.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$23,991.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$59,977.50
Construction Management		15%		\$17,993.25
Contingency		30%		\$35,986.50
Total Cost Estimate:				\$257,903.25

Sidewalk Project: 2. Main Street from Del Monte Avenue to Albany Avenue

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	7650	\$91,800.00
Curb and Gutter	lin. ft.	\$35.00	1530	\$53,550.00
Reconstruction of Curb Ramps	each	\$15,000.00	4	\$60,000.00
Sub-Total				\$205,350.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$41,070.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$102,675.00
Construction Management		15%		\$30,802.50
Contingency		30%		\$61,605.00
Total Cost Estimate:				\$441,502.50

Sidewalk Project: 3. Main Street from Reed Court to Mace Street

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	3120	\$37,440.00
Curb and Gutter	lin. ft.	\$35.00	624	\$21,840.00
Reconstruction of Curb Ramps	each	\$15,000.00	6	\$90,000.00
Sub-Total				\$149,280.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$29,856.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$74,640.00
Construction Management		15%		\$22,392.00
Contingency		30%		\$44,784.00
Total Cost Estimate:				\$320,952.00

Sidewalk Project: 4. Palomar Street from Bay Boulevard to I-5 Northbound On/Off-Ramps

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	1130	\$13,560.00
Curb and Gutter	lin. ft.	\$35.00	226	\$7,910.00
Reconstruction of Curb Ramps	each	\$15,000.00	2	\$30,000.00
Sub-Total				\$51,470.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$10,294.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$25,735.00
Construction Management		15%		\$7,720.50
Contingency		30%		\$15,441.00
Total Cost Estimate:				\$110,660.50

Sidewalk Project: 5. F Street from I-5 to Woodlawn Avenue

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	1335	\$16,020.00
Reconstruction of Curb Ramps	each	\$15,000.00	8	\$120,000.00
Sub-Total				\$136,020.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$27,204.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$68,010.00
Construction Management		15%		\$20,403.00
Contingency		30%		\$40,806.00
Total Cost Estimate:				\$292,443.00

Sidewalk Project: 6. Orange Avenue at Crann Avenue

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	1835	\$22,020.00
Curb and Gutter	lin. ft.	\$35.00	367	\$12,845.00
Reconstruction of Curb Ramps	each	\$15,000.00	2	\$30,000.00
Sub-Total				\$64,865.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$12,973.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$32,432.50
Construction Management		15%		\$9,729.75
Contingency		30%		\$19,459.50
Total Cost Estimate:				\$139,459.75

Sidewalk Project: 7. Anita Street from Jayken Way to Silvas Street

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	2870	\$34,440.00
Curb and Gutter	lin. ft.	\$35.00	574	\$20,090.00
Reconstruction of Curb Ramps	each	\$15,000.00	3	\$45,000.00
Sub-Total				\$99,530.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$19,906.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$49,765.00
Construction Management		15%		\$14,929.50
Contingency		30%		\$29,859.00
Total Cost Estimate:				\$213,989.50

Sidewalk Project: 8. Main Street from Date Street to Melrose Avenue

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	15425	\$185,100.00
Curb and Gutter	lin. ft.	\$35.00	3085	\$107,975.00
Reconstruction of Curb Ramps	each	\$15,000.00	9	\$135,000.00
Sub-Total				\$428,075.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$85,615.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$214,037.50
Construction Management		15%		\$64,211.25
Contingency		30%		\$128,422.50
Total Cost Estimate:				\$920,361.25

Sidewalk Project: 9. Moss Street from Third Avenue to First Avenue

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	11810	\$141,720.00
Curb and Gutter	lin. ft.	\$35.00	2362	\$82,670.00
Reconstruction of Curb Ramps	each	\$15,000.00	3	\$45,000.00
Sub-Total				\$269,390.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$53,878.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$134,695.00
Construction Management		15%		\$40,408.50
Contingency		30%		\$80,817.00
Total Cost Estimate:				\$579,188.50

Sidewalk Project: 10. Beyer Way from Main Street to Forth Avenue

Improvement Description	Units	Unit Cost	Quantity	Cost
Improved Sidewalk	sq. ft.	\$12.00	2470	\$29,640.00
Curb and Gutter	lin. ft.	\$35.00	494	\$17,290.00
Reconstruction of Curb Ramps	each	\$15,000.00	2	\$30,000.00
Sub-Total				\$76,930.00
Pre-Construction (Env. Clearance, PS&E)		20%		\$15,386.00
Construction (mobilization, construction schedule, erosion control, traffic control, clearing and grubbing, unclassified excavation, utility adjustments, construction staging)		50%		\$38,465.00
Construction Management		15%		\$11,539.50
Contingency		30%		\$23,079.00
Total Cost Estimate:				\$165,399.50