

CITY OF EL CAJON - DEPARTMENT OF PUBLIC WORKS

Revised September 17, 2009

Unit Costs for Estimating Public Works Construction 2009

Add 15% Contingency and round up to the nearest \$100 for calculation of fees. For on-site improvements, exclude buildings, utilities, walls, and AC and PCC paving. For Public Improvements to be bonded, add administration cost per table (1) for Bond estimates and round up to the nearest \$100 for Total Bond amount.

(1) Administration Cost Table

Used for calculating Bond amounts only

Up to 5,000 - 25%	50,000 - 13%	500,000 - 9%
10,000 - 20%	100,000 - 11.5%	1,000,000 - 8.5%
25,000 - 15%	200,000 - 10%	2,000,000 - 8%
		Over 2,000,000 - 7.5%

Description of Item	Unit Type	Jobs > \$20,000	Jobs < \$20,000
Clearing and Grubbing *(percent x subtotal cost of other improvement items except traffic signals and lighting)	LS	12 % *	15 % *
Contaminated Soil Removal and Disposal	CY	\$ 170.00	
Roadway Excavation	CY	\$35.00	\$50.00
Crushed Rock to replace unsuitable material	CY	\$150.00	\$200.00
Concrete removal	SF	\$2.50	\$3.80
Class 2 Aggregate Base	TON	\$100.00	\$110.00
Asphalt Concrete including sand and seal	TON	\$90.00	\$100.00
Asphalt Concrete - TMAC-C	TON	\$100.00	\$125.00
AC Grind Down 0.2"	SF	\$0.20	\$0.30
1" AC Paving including sand and seal	SF	\$0.90	\$1.15
Type II Slurry Seal	SY	\$3.80	\$4.00
Trench Resurfacing G-24	LF	\$40.00	\$45.00
1" Class 2 Base	SF	\$0.40	\$0.50
2" AC on native material with minor grading including sand and seal	SF	\$1.20	\$1.90
6" or 8" AC Berm (G-5)	LF	\$15.00	\$20.00
6" or 8" PCC Curb and Gutter (G-2)	LF	\$25.00	\$30.00
PCC Curb and Gutter, Rolled (G-4)	LF	\$25.00	\$30.00
6" or 8" PCC Curb (G-1, G-6)	LF	\$20.00	\$25.00
4" PCC Sidewalk (G-7)	SF	\$6.00	\$8.00
Curb Ramp Major (new construction-whole curb return w/ ramp)	EA	\$5,000.00	\$5,000.00
Curb Ramp Minor (existing construction-only curb ramp)	EA	\$3,000.00	\$3,000.00
Curb/Pedestrian Ramp Truncated Domes (thermoplastic warning)	EA	\$600.00	\$600.00
5.5" PCC Driveway/Alley Apron/PCC Pavement/7" Cross Gutter	SF	\$6.00	\$8.00
4" PCC or Gunite Lined Channel Wall and Bottom (D-70, D-71)	SF	\$12.00	\$18.00
6" PCC or Gunite Lined Channel Wall and Bottom (D-71)	SF	\$12.00	\$19.00

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Filter Material and 4" Drain	LF	\$35.00	\$45.00
RC Structure or Vertical/Transit per Caltrans ± Wall Chn. (D-76, 77, 78)	CY	\$790.00	\$1,125.00
PCC Ditch (D-75)	LF	\$20.00	\$25.00
Concrete Lug (D-63)	EA	\$1,900.00	\$2,000.00
72" Storm Drain Pipe (including Trench Safety and Shoring)	LF	\$430.00	\$495.00
66" Storm Drain Pipe (including Trench Safety and Shoring)	LF	\$370.00	\$430.00
60" Storm Drain Pipe (including Trench Safety and Shoring)	LF	\$315.00	\$370.00
54" Storm Drain Pipe " "	LF	\$270.00	\$290.00
48" Storm Drain Pipe " "	LF	\$235.00	\$270.00
42" Storm Drain Pipe " "	LF	\$215.00	\$240.00
36" Storm Drain Pipe " "	LF	\$200.00	\$215.00
30" Storm Drain Pipe " "	LF	\$180.00	\$190.00
24" Storm Drain Pipe " "	LF	\$165.00	\$180.00
18" Storm Drain Pipe " "	LF	\$150.00	\$170.00
Large Storm Drain Inlets and Cleanouts	EA	\$6,300.00	\$7,600.00
Small Storm Drain Inlets and Cleanouts	EA	\$5,000.00	\$6,300.00
Curb Inlet L<7' (D-1)	EA	\$5,000.00	\$5,800.00
Curb Inlet L>7' (D-1)	EA	\$6,000.00	\$6,500.00
Catch Basin Small	EA	\$5,500.00	\$5,800.00
Catch Basin Large	EA	\$6,000.00	\$6,500.00
Storm Drain Cleanout A-4 (D-9)	EA	\$5,000.00	\$5,500.00
Curb Outlet (D-25)	EA	\$3,500.00	\$3,800.00
Sidewalk Underdrains (D-27)	EA	\$800.00	\$820.00
Standard Sewer Manhole (S-2)	EA	\$5,000.00	\$6,300.00
Deep Sewer Manhole	EA	\$6,300.00	\$7,600.00
Adjust Sewer Manhole	EA	\$500.00	\$560.00
4" PVC Sewer Lateral (SDR-35)	LF	\$63.00	\$89.00
Sewer Cleanout 4" (SC-01)	EA	\$1,000.00	\$1,500.00
8" PVC Sewer Main Pipe (including trench safety and shoring)	LF	\$100.00	\$130.00
10" PVC Sewer Main Pipe " "	LF	\$120.00	\$145.00
12" PVC Sewer Main Pipe " "	LF	\$135.00	\$169.00

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15" PVC Sewer Main Pipe	LF	\$145.00	\$180.00
18" PVC Sewer Main Pipe	LF	\$160.00	\$195.00
21" PVC Sewer Main Pipe	LF	\$170.00	\$210.00
24" PVC Sewer Main Pipe	LF	\$180.00	\$225.00
Concrete Cradle or Encasement (S-6, S-7)	LF	\$45.00	\$60.00
Pavement Markers per each line	LF	\$2.50	\$3.80
Traffic Loops	EA	\$500.00	\$630.00
Public Street Light (incl. Service point, conduit runs, and accessories)	EA	\$5,000.00	\$6,300.00
Traffic Signal (per location)	LS	\$127,000.00	N/A
Public Street Name Sign and Post	EA	\$120.00	\$150.00
Curtain Wall/Pipe Collar/Concrete Lug/Cut-off Wall	EA	\$1,500.00	\$1,900.00
Street Survey Monuments (M-10)	EA	\$450.00	\$500.00
6' Chain Link Fence (M-6)	LF	\$25.00	\$35.00
Obstruction Markers (M-6) (L Type)	EA	\$150.00	\$225.00
Undergrounding of Existing and/or New Utility Distribution Lines in the public R/W	LF	\$380.00	\$440.00
1" Water Lateral	EA	\$5,000.00	\$5,000.00
1.5" Water Lateral	EA	\$8,500.00	\$8,500.00
2" Water Lateral	EA	\$12,000.00	\$12,000.00
Fire Hydrant	EA	\$4,000.00	\$5,000.00
6" Asbestos Cement Water Main Pipe	LF	\$80.00	\$95.00
8" Asbestos Cement water Main Pipe	LF	\$95.00	\$150.00
10" Asbestos Cement Water Main Pipe	LF	\$110.00	\$190.00
12" Asbestos Cement Water Main Pipe	LF	\$120.00	\$200.00
Tree Removal	EA	\$760.00	\$1,000.00
Tree Installation	EA	\$1,200.00	\$1,200.00
On-Site Grading Embankment/Excavation 0-1000	CY	\$9.00	\$13.00
On-Site Grading Embankment/Excavation 1001-20,000	CY	\$5.50	\$8.00
On-Site Grading Embankment/Excavation 20,001-100,000	CY	\$4.50	N/A
On-Site Grading Embankment/Excavation 100,001-350,000	CY	\$3.75	N/A
On-Site Grading Embankment/Excavation 350,001 +	CY	\$3.20	N/A
On-Site Grading Export or Import 0 – 1,000	CY	\$45.00	

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On-Site Grading Export or Import 1,000 +	CY	\$9.25	\$13.00
On-Site Grading Export or Import 1,001 - 20,000	CY	\$35.00	
On-Site Grading Export or Import 20,000+	CY	\$19.00	
Fine Grading	SF	\$0.45	\$0.70
Erosion Control Sand/Gravel bag	EA	\$1.40	\$1.90
Erosion Control Jute Mat	SF	\$0.50	\$0.70
Erosion Control Straw Bales Not Allowed in El Cajon	EA	\$6.30	\$8.90
Erosion Control Straw Fences Not allowed in El Cajon	LF	\$2.00	\$2.80
Erosion Control Silt Fences	LF	\$2.00	\$2.80
Erosion Control Fiber rolls	LF	\$2.80	\$3.90
Erosion Control Fiber Mat	SF	\$0.50	\$0.70
Erosion Control Hydro-Seed	SF	\$0.20	\$0.35
Stabilized Construction Entrance	SF	\$9.00	N/A
Concrete Washout	EA	\$825.00	\$850.00
Inlet Protection	EA	\$110.00	\$225.00
Sub Drain 4"-6"	LF	\$38.00	\$53.00
Sub Drain 8"	LF	\$44.00	\$63.00
Energy Dissapator (D-41)	EA	\$13,000.00	N/A
Small Headwall for Subdrain	EA	\$4,000.00	\$4,000.00
PVC Storm Drain Pipe 4"-6"	LF	\$15.00	\$21.00
PVC Storm Drain Pipe 8"-12"	LF	\$32.00	\$44.00
PVC Storm Drain Pipe Cleanout 4"-12"	LF	\$380.00	\$630.00
Precast Parking Lot Area Drain	EA	\$630.00	\$890.00
Precast landscape Area Drain	EA	\$380.00	\$530.00

Approved By _____

Date _____