

City Engineer's Estimate

City of Los Angeles - Department of Public Works - Bureau of Engineering

GLENALBYN DRIVE SEWER EASEMENT REPAIR

W.O.No. SWC00632



DETAILED RESULTS				City Engineer's Estimate		Calex Engineering Company		John S. Meek Company, Inc.		PPC Construction, Inc.	
ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL
1	Mobilization	LS			\$ 30,000.00		\$26,000.00		\$21,000.00		\$30,000.00
2	Allowance for unforeseen permanent Utility & Service Line Relocations	LS			\$ 15,000.00		\$ 15,000.00		\$ 15,000.00		\$ 15,000.00
3	Allowance for Permits	LS			\$ 5,000.00		\$ 5,000.00		\$ 5,000.00		\$ 5,000.00
4	Allowance for Differing Site Conditions "DSC"	LS			\$ 5,000.00		\$ 5,000.00		\$ 5,000.00		\$ 5,000.00
5	Traffic Control and Signs	LS			\$ 55,000.00		\$1,500.00		\$5,400.00		\$10,000.00
6	Clear, grub and dispose interfering vegetation, debris, and loose soil on slope.	LS			\$ 10,000.00		\$5,000.00		\$12,540.00		\$15,000.00
7	Drill one 3.5-foot diameter hole per pile schedule - Plan Sht. 5	LF	24	\$225.00	\$ 5,400.00	\$ 210.00	\$ 5,040.00	\$ 75.50	\$ 1,812.00	\$ 290.00	\$ 6,960.00
8	Drill eight 3-foot diameter holes per pile schedule - Plan Sht. 5	LF	194	\$200.00	\$ 38,800.00	\$ 205.00	\$ 39,770.00	\$ 63.00	\$ 12,222.00	\$ 290.00	\$ 56,260.00
9	Drill one 1.5-foot diameter hole per pile schedule - Plan Sht. 5	LF	13	\$250.00	\$ 3,250.00	\$ 350.00	\$ 4,550.00	\$ 55.00	\$ 715.00	\$ 290.00	\$ 3,770.00
10	Supply three W24 x 117 Soldier Beams (ea. ~ 46' to 51' long)	LF	148	\$157.00	\$ 23,236.00	\$ 125.00	\$ 18,500.00	\$ 73.50	\$ 10,878.00	\$ 92.00	\$ 13,616.00
11	Supply two W24 x 104 Soldier Beams (ea. ~38-39' long)	LF	77	\$132.00	\$ 10,164.00	\$ 115.00	\$ 8,855.00	\$ 78.00	\$ 6,006.00	\$ 92.00	\$ 7,084.00
12	Supply three W21 x 101 Soldier Beams (ea. ~ 41'-46.5' long)	LF	130	\$125.00	\$ 16,250.00	\$ 100.00	\$ 13,000.00	\$ 71.00	\$ 9,230.00	\$ 92.00	\$ 11,960.00
13	Supply one W18 x 76 Soldier Beam	LF	35	\$96.00	\$ 3,360.00	\$ 50.00	\$ 1,750.00	\$ 54.00	\$ 1,890.00	\$ 92.00	\$ 3,220.00
14	Supply three W10 x 49 Soldier Beams (ea. ~14'-25' long)	LF	59.5	\$75.00	\$ 4,462.50	55.00	\$ 3,272.50	54.00	\$ 3,213.00	92.00	\$ 5,474.00
15	Install three W24 x 117 Soldier Beams (ea. ~ 46' to 51' long)	LF	148	\$30.00	\$ 4,440.00	30.00	\$ 4,440.00	36.00	\$ 5,328.00	32.00	\$ 4,736.00
16	Install two W24 x 104 Soldier Beams (ea. ~38-39' long)	LF	77	\$30.00	\$ 2,310.00	55.00	\$ 4,235.00	36.00	\$ 2,772.00	32.00	\$ 2,464.00
17	Install three W21 x 101 Soldier Beams (ea. ~ 41'-46.5' long)	LF	130	\$30.00	\$ 3,900.00	30.00	\$ 3,900.00	36.00	\$ 4,680.00	32.00	\$ 4,160.00
18	Install one W18 x 76 Soldier Beam	LF	35	\$20.00	\$ 700.00	40.00	\$ 1,400.00	36.00	\$ 1,260.00	32.00	\$ 1,120.00
19	Install three W10 x 49 Soldier Beams (ea. ~14'-25' long)	LF	59.5	\$25.00	\$ 1,487.50	\$ 70.00	\$ 4,165.00	\$ 36.00	\$ 2,142.00	\$ 32.00	\$ 1,904.00
20	Construct Concrete for Embedded Portion of the Soldier Beam	CY	62	\$300.00	\$ 18,600.00	\$ 135.00	\$ 8,370.00	\$ 255.00	\$ 15,810.00	\$ 250.00	\$ 15,500.00

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DETAILED RESULTS				City Engineer's Estimate		Calex Engineering Company		John S. Meek Company, Inc.		PPC Construction, Inc.	
ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL
21	Excavate for Lagging Installation and Removal of Damaged Asphalt Pavement and Haul-Away	CY	300	\$90.00	\$ 27,000.00	\$ 32.00	\$ 9,600.00	\$ 84.00	\$ 25,200.00	\$ 80.00	\$ 24,000.00
22	Supply 9'-6" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #1 & #2, and w/ weep holes where shown, including stone texture and acid stain	EA	17	\$510.00	\$ 8,670.00	\$ 500.00	\$ 8,500.00	\$ 482.00	\$ 8,194.00	\$ 550.00	\$ 9,350.00
23	Install 9'-6" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles 1 & 2	EA	17	\$140.00	\$ 2,380.00	\$ 170.00	\$ 2,890.00	\$ 240.00	\$ 4,080.00	\$ 150.00	\$ 2,550.00
24	Supply 8'-3" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #2A & #8, and w/ weep holes where shown), including stone texture and acid stain	EA	91	\$470.00	\$ 42,770.00	\$ 450.00	\$ 40,950.00	\$ 482.00	\$ 43,862.00	\$ 550.00	\$ 50,050.00
25	Install 8'-3" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles #2A & #8	EA	91	\$140.00	\$ 12,740.00	\$ 175.00	\$ 15,925.00	\$ 240.00	\$ 21,840.00	\$ 150.00	\$ 13,650.00
26	Supply 8'-0" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #8 & #9, and w/ weep holes where shown), including stone texture and acid stain	EA	10	\$460.00	\$ 4,600.00	\$ 430.00	\$ 4,300.00	\$ 482.00	\$ 4,820.00	\$ 550.00	\$ 5,500.00
27	Install 8'-0" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles #8 & #9	EA	10	\$140.00	\$ 1,400.00	\$ 155.00	\$ 1,550.00	\$ 240.00	\$ 2,400.00	\$ 150.00	\$ 1,500.00
28	Supply 7'-5" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #9A & #10, and w/ weep holes where shown), including stone texture and acid stain	EA	6	\$440.00	\$ 2,640.00	400.00	\$ 2,400.00	\$ 482.00	\$ 2,892.00	550.00	\$ 3,300.00
29	Install 7'-5" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles #9A & #10	EA	6	\$140.00	\$ 840.00	260.00	\$ 1,560.00	\$ 240.00	\$ 1,440.00	150.00	\$ 900.00
30	Construct vertical subsoil drainage filter 1-foot wide spaced 5 feet on center, and solid pipe collection system, per Plan Sheet 4 and Section 51.15 of Soils Report	SF	121	\$20.00	\$ 2,420.00	15.00	\$ 1,815.00	\$ 17.00	\$ 2,057.00	25.00	\$ 3,025.00
31	Construct 4" diameter slotted PVC subdrains w/ 1CF min. per LF of 3/8" pea gravel wrapped in non-woven geofabric, and solid pipe collection system, per Plan Sheet 4 and Section 5.1.5 of Soils Report	LF	150	\$60.00	\$ 9,000.00	25.00	\$ 3,750.00	\$ 46.00	\$ 6,900.00	20.00	\$ 3,000.00
32	Controlled Low Strength Material (CLSM) per Greenbook, Section 201-6 and Plan Sheets 3, 4 and 5	CY	190	\$200.00	\$ 38,000.00	125.00	\$ 23,750.00	\$ 160.00	\$ 30,400.00	125.00	\$ 23,750.00
33	Construct 3/8 " pea gravel wrapped in approved non-woven geofabric on backside of wall lagging, (per 5.1.5 of Soils Report), 1-foot min. width, covering weep holes having galvanized welded wire fabric placed between the lagging and the geofabric	SF	1100	\$9.00	\$ 9,900.00	\$ 10.00	\$ 11,000.00	\$ 11.00	\$ 12,100.00	\$ 5.00	\$ 5,500.00

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DETAILED RESULTS				City Engineer's Estimate		Calex Engineering Company		John S. Meek Company, Inc.		PPC Construction, Inc.	
ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL
34	Compact structural backfill per Soils Report, to be certified @ 90% minimum Relative Compaction, includes import as needed	CY	675	\$85.00	\$ 57,375.00	\$ 48.00	\$ 32,400.00	\$ 112.00	\$ 75,600.00	\$ 80.00	\$ 54,000.00
35	Back of wall gutter and drains per detail E1&G11/Sheet 6 & Soils Report	LF	70	\$25.00	\$ 1,750.00	\$ 75.00	\$ 5,250.00	\$ 103.00	\$ 7,210.00	\$ 50.00	\$ 3,500.00
36	4" concrete slab/cap between piles, sloped towards gutter, per detail E1&G11/Sheet 6	LF	70	\$9.00	\$ 630.00	\$ 37.00	\$ 2,590.00	\$ 58.00	\$ 4,060.00	\$ 20.00	\$ 1,400.00
37	Subdrain system for existing vitrified clay pipe (VCP) sewer per detail I1/Sheet 6	LF	26	\$40.00	\$ 1,040.00	\$ 205.00	\$ 5,330.00	\$ 59.00	\$ 1,534.00	\$ 100.00	\$ 2,600.00
38	Compacted fill to support undermined walkway and wall, per detail I6/Sheet 6	CY	31	\$75.00	\$ 2,325.00	\$ 150.00	\$ 4,650.00	\$ 112.00	\$ 3,472.00	\$ 80.00	\$ 2,480.00
39	Saw Cut Existing Pavement, as needed	LF	120	\$8.00	\$ 960.00	\$ 3.00	\$ 360.00	\$ 7.00	\$ 840.00	\$ 10.00	\$ 1,200.00
40	Remove and replace concrete curb to match existing.	LF	12	\$40.00	\$ 480.00	\$ 375.00	\$ 4,500.00	\$ 64.00	\$ 768.00	\$ 100.00	\$ 1,200.00
41	Remove existing pavement and replace with new AC Pavement (6" thick AC over 8" thick CMB)	SF	480	\$14.00	\$ 6,720.00	\$ 28.00	\$ 13,440.00	\$ 22.00	\$ 10,560.00	\$ 12.00	\$ 5,760.00
42	Cable Rail per Cal Trans Standard Plan B11-47 on Plan Sht. 7	LF	80	\$50.00	\$ 4,000.00	\$ 30.00	\$ 2,400.00	\$ 39.00	\$ 3,120.00	40.00	\$ 3,200.00
43	Erosion Control Hydromulch with seed mix per Sheet 2	SF	2000	\$2.00	\$ 4,000.00	\$ 1.00	\$ 2,000.00	\$ 0.70	\$ 1,400.00	2.50	\$ 5,000.00
					\$ 498,000.00		\$ 379,657.50		\$ 416,647.00		\$ 444,643.00
						{ Low }	-23.76%	{ Low }	-16.34%	{ Low }	-10.71%

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DETAILED RESULTS				City Engineer's Estimate		Clarke Contracting Corporation		Hayward Baker, Inc.	
ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL
1	Mobilization	LS			\$ 30,000.00		\$38,000.00		\$100,000.00
2	Allowance for unforeseen permanent Utility & Service Line Relocations	LS			\$ 15,000.00		\$ 15,000.00		\$ 15,000.00
3	Allowance for Permits	LS			\$ 5,000.00		\$ 5,000.00		\$ 5,000.00
4	Allowance for Differing Site Conditions "DSC"	LS			\$ 5,000.00		\$ 5,000.00		\$ 5,000.00
5	Traffic Control and Signs	LS			\$ 55,000.00		\$3,000.00		\$50,000.00
6	Clear, grub and dispose interfering vegetation, debris, and loose soil on slope.	LS			\$ 10,000.00		\$6,000.00		\$40,000.00
7	Drill one 3.5-foot diameter hole per pile schedule - Plan Sht. 5	LF	24	\$225.00	\$ 5,400.00	\$ 215.00	\$ 5,160.00	\$ 1,500.00	\$ 36,000.00
8	Drill eight 3-foot diameter holes per pile schedule - Plan Sht. 5	LF	194	\$200.00	\$ 38,800.00	\$ 138.00	\$ 26,772.00	\$ 1,200.00	\$ 232,800.00
9	Drill one 1.5-foot diameter hole per pile schedule - Plan Sht. 5	LF	13	\$250.00	\$ 3,250.00	\$ 80.00	\$ 1,040.00	\$ 1,000.00	\$ 13,000.00
10	Supply three W24 x 117 Soldier Beams (ea. ~ 46' to 51' long)	LF	148	\$157.00	\$ 23,236.00	\$ 160.00	\$ 23,680.00	\$ 125.00	\$ 18,500.00
11	Supply two W24 x 104 Soldier Beams (ea. ~38-39' long)	LF	77	\$132.00	\$ 10,164.00	\$ 150.00	\$ 11,550.00	\$ 120.00	\$ 9,240.00
12	Supply three W21 x 101 Soldier Beams (ea. ~ 41'-46.5' long)	LF	130	\$125.00	\$ 16,250.00	\$ 136.00	\$ 17,680.00	\$ 120.00	\$ 15,600.00
13	Supply one W18 x 76 Soldier Beam	LF	35	\$96.00	\$ 3,360.00	\$ 90.00	\$ 3,150.00	\$ 100.00	\$ 3,500.00
14	Supply three W10 x 49 Soldier Beams (ea. ~14'-25' long)	LF	59.5	\$75.00	\$ 4,462.50	\$ 58.00	\$ 3,451.00	\$ 100.00	\$ 5,950.00
15	Install three W24 x 117 Soldier Beams (ea. ~ 46' to 51' long)	LF	148	\$30.00	\$ 4,440.00	\$ 50.00	\$ 7,400.00	\$ 200.00	\$ 29,600.00
16	Install two W24 x 104 Soldier Beams (ea. ~38-39' long)	LF	77	\$30.00	\$ 2,310.00	\$ 50.00	\$ 3,850.00	\$ 200.00	\$ 15,400.00
17	Install three W21 x 101 Soldier Beams (ea. ~ 41'-46.5' long)	LF	130	\$30.00	\$ 3,900.00	\$ 50.00	\$ 6,500.00	\$ 200.00	\$ 26,000.00
18	Install one W18 x 76 Soldier Beam	LF	35	\$20.00	\$ 700.00	\$ 50.00	\$ 1,750.00	\$ 250.00	\$ 8,750.00
19	Install three W10 x 49 Soldier Beams (ea. ~14'-25' long)	LF	59.5	\$25.00	\$ 1,487.50	\$ 50.00	\$ 2,975.00	\$ 250.00	\$ 14,875.00
20	Construct Concrete for Embedded Portion of the Soldier Beam	CY	62	\$300.00	\$ 18,600.00	\$ 350.00	\$ 21,700.00	\$ 750.00	\$ 46,500.00
21	Excavate for Lagging Installation and Removal of Damaged Asphalt Pavement and Haul-Away	CY	300	\$90.00	\$ 27,000.00	\$ 81.00	\$ 24,300.00	\$ 100.00	\$ 30,000.00

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DETAILED RESULTS				City Engineer's Estimate		Clarke Contracting Corporation		Hayward Baker, Inc.	
ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL
22	Supply 9'-6" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #1 & #2, and w/ weep holes where shown, including stone texture and acid stain	EA	17	\$510.00	\$ 8,670.00	\$ 600.00	\$ 10,200.00	\$ 1,000.00	\$ 17,000.00
23	Install 9'-6" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles 1 & 2	EA	17	\$140.00	\$ 2,380.00	\$ 300.00	\$ 5,100.00	\$ 500.00	\$ 8,500.00
24	Supply 8'-3" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #2A & #8, and w/ weep holes where shown), including stone texture and acid stain	EA	91	\$470.00	\$ 42,770.00	\$ 500.00	\$ 45,500.00	\$ 950.00	\$ 86,450.00
25	Install 8'-3" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles #2A & #8	EA	91	\$140.00	\$ 12,740.00	\$ 300.00	\$ 27,300.00	\$ 500.00	\$ 45,500.00
26	Supply 8'-0" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #8 & #9, and w/ weep holes where shown), including stone texture and acid stain	EA	10	\$460.00	\$ 4,600.00	\$ 475.00	\$ 4,750.00	\$ 900.00	\$ 9,000.00
27	Install 8'-0" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles #8 & #9	EA	10	\$140.00	\$ 1,400.00	\$ 300.00	\$ 3,000.00	\$ 500.00	\$ 5,000.00
28	Supply 7'-5" x 1'-6" x 8" Precast Concrete Lagging Panels (pre details on Sht. 6) between Piles #9A & #10, and w/ weep holes where shown), including stone texture and acid stain	EA	6	\$440.00	\$ 2,640.00	\$ 440.00	\$ 2,640.00	\$ 950.00	\$ 5,700.00
29	Install 7'-5" x 1'-6" x 8" Precast Concrete Lagging Panels between Piles #9A & #10	EA	6	\$140.00	\$ 840.00	\$ 300.00	\$ 1,800.00	\$ 500.00	\$ 3,000.00
30	Construct vertical subsoil drainage filter 1-foot wide spaced 5 feet on center, and solid pipe collection system, per Plan Sheet 4 and Section 51.15 of Soils Report	SF	121	\$20.00	\$ 2,420.00	\$ 16.00	\$ 1,936.00	\$ 75.00	\$ 9,075.00
31	Construct 4" diameter slotted PVC subdrains w/ 1CF min. per LF of 3/8" pea gravel wrapped in non-woven geofabric, and solid pipe collection system, per Plan Sheet 4 and Section 5.1.5 of Soils Report	LF	150	\$60.00	\$ 9,000.00	\$ 45.00	\$ 6,750.00	\$ 35.00	\$ 5,250.00
32	Controlled Low Strength Material (CLSM) per Greenbook, Section 201-6 and Plan Sheets 3, 4 and 5	CY	190	\$200.00	\$ 38,000.00	\$ 120.00	\$ 22,800.00	\$ 150.00	\$ 28,500.00
33	Construct 3/8 " pea gravel wrapped in approved non-woven geofabric on backside of wall lagging, (per 5.1.5 of Soils Report), 1-foot min. width, covering weep holes having galvanized welded wire fabric placed between the lagging and the geofabric	SF	1100	\$9.00	\$ 9,900.00	\$ 10.00	\$ 11,000.00	\$ 20.00	\$ 22,000.00

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ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL	UNIT PRICE	ITEM TOTAL
34	Compact structural backfill per Soils Report, to be certified @ 90% minimum Relative Compaction, includes import as needed	CY	675	\$85.00	\$ 57,375.00	\$ 45.00	\$ 30,375.00	\$ 100.00	\$ 67,500.00
35	Back of wall gutter and drains per detail E1&G11/Sheet 6 & Soils Report	LF	70	\$25.00	\$ 1,750.00	\$ 100.00	\$ 7,000.00	\$ 75.00	\$ 5,250.00
36	4" concrete slab/cap between piles, sloped towards gutter, per detail E1&G11/Sheet 6	LF	70	\$9.00	\$ 630.00	\$ 66.00	\$ 4,620.00	\$ 75.00	\$ 5,250.00
37	Subdrain system for existing vitrified clay pipe (VCP) sewer per detail I1/Sheet 6	LF	26	\$40.00	\$ 1,040.00	\$ 85.00	\$ 2,210.00	\$ 150.00	\$ 3,900.00
38	Compacted fill to support undermined walkway and wall, per detail I6/Sheet 6	CY	31	\$75.00	\$ 2,325.00	\$ 180.00	\$ 5,580.00	\$ 150.00	\$ 4,650.00
39	Saw Cut Existing Pavement, as needed	LF	120	\$8.00	\$ 960.00	\$ 5.00	\$ 600.00	\$ 25.00	\$ 3,000.00
40	Remove and replace concrete curb to match existing.	LF	12	\$40.00	\$ 480.00	\$ 145.00	\$ 1,740.00	\$ 150.00	\$ 1,800.00
41	Remove existing pavement and replace with new AC Pavement (6" thick AC over 8" thick CMB)	SF	480	\$14.00	\$ 6,720.00	\$ 27.00	\$ 12,960.00	\$ 60.00	\$ 28,800.00
42	Cable Rail per Cal Trans Standard Plan B11-47 on Plan Sht. 7	LF	80	\$50.00	\$ 4,000.00	\$ 32.00	\$ 2,560.00	\$ 75.00	\$ 6,000.00
43	Erosion Control Hydromulch with seed mix per Sheet 2	SF	2000	\$2.00	\$ 4,000.00	\$ 2.00	\$ 4,000.00	\$ 5.00	\$ 10,000.00
					\$ 498,000.00		\$ 447,379.00		\$ 1,101,840.00
						{ Low }	-10.16%	{ High }	121.25%