

Estimate of Land Development Costs

Project Title: Tr NNNN-N

Prepared By:

Project Review No. NN.NNN

Date Prepared:

Revised 10/25/2016 Per Most Recent Los Angeles ENR Construction Cost Index = 11642.47

Item No.	Description	Quantity	Unit	Unit Cost	Item Cost
1	Finish Grade & Prime Coat	0	S.F.	\$0.22	\$0.00
2	9" Aggregate Sub Base*	0	S.F.	\$1.42	\$0.00
3	6" Aggregate Rock Base*	0	S.F.	\$1.25	\$0.00
4	3" Asphalt Concrete*	0	S.F.	\$1.60	\$0.00
5	1 1/2" Rubberized Asphalt Concrete Pavement	0	S.F.	\$2.81	\$0.00
6	Fog Seal	0	S.F.	\$0.20	\$0.00
7	Cross Gutter & Apron 7" Thick	0	S.F.	\$8.94	\$0.00
8	Concrete Sidewalk 4" Thick	0	S.F.	\$4.90	\$0.00
9	Concrete Driveway - Residential - 6" Thick	0	S.F.	\$7.03	\$0.00
10	Concrete Driveway - Commercial - 7" Thick	0	S.F.	\$7.25	\$0.00
11	Air Blown Mortar 3" Thick	0	S.F.	\$8.08	\$0.00
12	Concrete Curb Only	0	L.F.	\$14.26	\$0.00
13	Concrete Curb and Gutter	0	L.F.	\$17.87	\$0.00
14	Asphalt Concrete Berm	0	L.F.	\$9.38	\$0.00
15	Concrete Cut-off Wall	0	L.F.	\$15.95	\$0.00
16	Barricade (complete) - VCPWA F-1	0	L.F.	\$74.47	\$0.00
17	Street Name Sign - VCPWA F-4	0	EA.	\$446.82	\$0.00
18	Traffic Signs	0	EA.	\$319.15	\$0.00
19	Concrete Block Retaining Wall Footing	0	L.F.	\$74.47	\$0.00
20	Concrete Block Retaining Wall (Per Foot of Height)	0	L.F.	\$6.60	\$0.00
21	Chain Link Fence	0	L.F.	\$29.80	\$0.00
22	Redwood Header	0	L.F.	\$6.60	\$0.00
23	Handicap Ramps	0	EA.	\$1,705.61	\$0.00
24	Street Light Conduit & Wire	0	L.F.	\$9.38	\$0.00
25	5.6 or 22 K Lumen H.P.S. Luminaire	0	EA.	\$3,070.11	\$0.00
26	Reflective Pavement Markers Type B & D	0	EA.	\$28.72	\$0.00
27	Pavement Markers Type A	0	EA.	\$6.17	\$0.00
28	Traffic Striping-Removal (Single Stripe)	0	L.F.	\$3.19	\$0.00
29	Thermoplastic Traffic Striping-Double Solid	0	L.F.	\$7.27	\$0.00
30	Thermoplastic Traffic Striping-Single Solid	0	L.F.	\$3.63	\$0.00
31	Thermoplastic Traffic Striping-Single Skip	0	L.F.	\$3.39	\$0.00
32	Thermoplastic Traffic Legends, Cross-walks & Stop Bars	0	S.F.	\$8.70	\$0.00
Subtotal					\$0.00
Add 10%					\$0.00
TOTAL - STREET IMPROVEMENTS					\$0.00

Summation of All Sheets

	Street Improvements =	\$0.00
	Demolition, Removal & Adjustments =	\$0.00
	Drainage Improvements =	\$0.00
	Erosion Control Landscaping & Irrigation =	\$0.00
	Non-District Water Improvements =	\$0.00
	Non-District Sewer Improvements =	\$0.00
	Total Performance Bond Amount =	\$0.00
	Total Labor & Materials Bond =	\$0.00
	Total Monument Bond Amount =	\$0.00
	Total Grading Bond Amount =	\$0.00

*FOR PRELIMINARY ESTIMATES ONLY
FINAL DESIGN WILL DETERMINE ACTUAL
THICKNESS.

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Site Preparation, Demolition, Removal And Adjustments					
Most recent Los Angeles ENR Construction Cost Index = 11642.47					
Item No.	Description	Quantity	Unit	Unit Cost	Item Cost
Concrete - Demolition, Removal & Disposal					
1	Reinforced Concrete		C.Y.	\$204.67	\$0.00
2	Unreinforced Concrete		C.Y.	\$153.51	\$0.00
3	Asphalt		S.F.	\$3.02	\$0.00
4	Concrete Sidewalk, Driveway, Cross Gutter & Spandrel		S.F.	\$8.02	\$0.00
5	Curb and Gutter		L.F.	\$11.14	\$0.00
6	Storm Drain Pipe 15"- 42"		L.F.	\$16.46	\$0.00
7	Storm Drain 42" and above		L.F.	\$32.10	\$0.00
8	Adjust Manhole to Grade		EA.	\$521.58	\$0.00
9	Adjust Water Valve Box to Grade		EA.	\$300.90	\$0.00
10	Adjust Survey Monument to Grade		EA.	\$421.27	\$0.00
11	Relocate Power Poles		L.S.	\$34,112.28	\$0.00
Tree Removal & Disposal					
12	>3" & <6" Diameter at Breast Height		EA.	\$341.12	\$0.00
13	>6" & <12" Diameter at Breast Height		EA.	\$1,023.37	\$0.00
14	>12" Diameter at Breast Height		EA.	\$2,728.98	\$0.00
Clearing and Grubbing					
16	Clean Soils & Grassy Areas		Acre	\$8,528.07	\$0.00
17	Clean Soils & Heavily Brushed Areas		Acre	\$11,086.49	\$0.00
18	Rubble & Grassy Areas		Acre	\$12,792.11	\$0.00
19	Rubble & Heavily Brushed Areas		Acre	\$15,350.53	\$0.00
Cold Plane Asphalt Pavement					
20	>2" & <4" Thickness		S.F.	\$0.51	\$0.00
21	>0" & <2" Thickness		S.F.	\$0.68	\$0.00
22	Saw Cutting		L.F.	\$2.13	\$0.00
23	Perimeter Fencing - Entire Site		L.F.	\$11.94	\$0.00
Traffic Control (Incl. TCP Preparation)					
24	2 Lane Local Street - 2-Way Traffic Maintained		Day	\$119.39	\$0.00
25	2 Lane Local Street - 1-Way, Flagger Controlled		Day	\$1,688.56	\$0.00
26	2 Lane Collector or Arterial Street - 2-Way Traffic Maintained		Day	\$204.67	\$0.00
27	2 Lane Collector or Arterial Street - 1-Way, Flagger Controlled		Day	\$2,558.42	\$0.00
28	2 Lane Additional Per Foot Per Day for Work Zone >100' Long		LF/D	\$0.85	\$0.00
29	4 Lane Collector or Arterial Street - 2-Way Traffic Maintained		Day	\$255.84	\$0.00
30	4 Lane Collector or Arterial Street - 1-Way, Flagger Controlled		Day	\$3,411.23	\$0.00
31	4 Lane Additional Per Foot Per Day for Work Zone >100' Long		LF/D	\$1.71	\$0.00
32	Temporary Traffic Stripe		L.F.	\$0.24	\$0.00
33	Remove Temporary Traffic Stripe		L.F.	\$0.60	\$0.00
34	Temporary Glue-Down Channelizer		E.A.	\$4.26	\$0.00
35	Portable Changeable Message Sign		Day	\$112.57	\$0.00
36	Portable Flashing Arrow Sign		Day	\$25.58	\$0.00
37	Temporary K-Rail		L.F.	\$15.35	\$0.00
38	Temporary Crash Cushion Module		E.A.	\$682.25	\$0.00
Sub Total					\$0.00
Add 10%					\$0.00
TOTAL - SITE PREPARATION, DEMOLITION, REMOVAL AND ADJUSTMENTS					\$0.00

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DRAINAGE IMPROVEMENTS					
Most recent Los Angeles ENR Construction Cost Index = 11642.47					
Item No.	Description	Quantity	Unit	Unit Cost	Item Cost
1	18" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$94.61	\$0.00
2	21" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$119.02	\$0.00
3	24" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$137.34	\$0.00
4	30" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$154.58	\$0.00
5	36" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$177.03	\$0.00
6	42" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$193.02	\$0.00
7	48" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$231.52	\$0.00
8	60" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$320.69	\$0.00
9	72" Dia. D-1350 Reinforced Concrete Pipe		L.F.	\$394.83	\$0.00
10	22" x 13" Reinforced Concrete Pipe		L.F.	\$100.41	\$0.00
11	25" x 16" Reinforced Concrete Pipe		L.F.	\$124.82	\$0.00
12	29" x 18" Reinforced Concrete Pipe		L.F.	\$145.05	\$0.00
13	36" x 22" Reinforced Concrete Pipe		L.F.	\$168.07	\$0.00
14	43" x 27" Reinforced Concrete Pipe		L.F.	\$192.44	\$0.00
15	50" x 30" Reinforced Concrete Pipe		L.F.	\$212.30	\$0.00
16	58" x 36" Reinforced Concrete Pipe		L.F.	\$256.58	\$0.00
17	72" x 44" Reinforced Concrete Pipe		L.F.	\$349.60	\$0.00
18	83" x 57" Reinforced Concrete Pipe		L.F.	\$429.52	\$0.00
19	Class "A" Reinf, Concrete more than 100 cy		CY	\$861.73	\$0.00
20	Class "A" Reinf, Concrete (less than 100 cy)		CY	\$968.11	\$0.00
21	Rip Rap (Placed-Ungouted)		CY	\$148.93	\$0.00
22	Rip Rap (Placed-Grouted)		CY	\$212.78	\$0.00
23	Rip Rap (Sacked)		CY	\$244.69	\$0.00
24	APWA Catch Basin 300-0 W=3.5'		EA	\$2,766.03	\$0.00
25	APWA Catch Basin 301-0 W=7.0'		EA	\$3,659.65	\$0.00
26	APWA Catch Basin 302-0 W=3.5'		EA	\$2,906.76	\$0.00
27	APWA Catch Basin 303-0 W=3.5'		EA	\$2,768.43	\$0.00
28	APWA Catch Basin 304-0 W=3.5'		EA	\$2,768.43	\$0.00
29	APWA Catch Basin 305-0 W=3.5'		EA	\$2,768.43	\$0.00
30	For each foot of inlet length added or subtracted		L.F.	\$638.31	\$0.00
31	Terrace, interceptor or down drains		L.F.	\$34.04	\$0.00
32	Junction Structures		EA	\$8,510.83	\$0.00
33	Manhole		EA	\$5,319.26	\$0.00
34	3" Dia. PVC Subdrain Pipe & Drain Rock		L.F.	\$17.45	\$0.00
35	6" Dia. PVC Subdrain Pipe & Drain Rock		L.F.	\$27.58	\$0.00
36	6" Dia. PVC Subdrain Header Pipe		L.F.	\$24.94	\$0.00
37	8" Dia. PVC Subdrain Pipe & Drain Rock		L.F.	\$38.12	\$0.00
38	8" Dia. PVC Subdrain Header Pipe		L.F.	\$34.45	\$0.00
37	Subdrain Flushing Inlet		EA	\$431.52	\$0.00
38	Subdrain Flushing Inlet in Street		EA	\$1,125.71	\$0.00
Subtotal					\$0.00
Add 10%					\$0.00
TOTAL DRAINAGE					\$0.00

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MONUMENTS					
Most recent Los Angeles ENR Construction Cost Index = 11642.47					
Item No.	Item	Unit	Unit Cost	Item Cost	
1	Street Centerline Monument - VCPWA E-4	EA	\$1,040.42	\$0.00	
2	Tract Boundry Monument	EA	\$531.93	\$0.00	
3	Lot Corner Monument	EA	\$351.08	\$0.00	
Sub Total				\$0.00	
Add 10%				\$0.00	
TOTAL MONUMENTS				\$0.00	

GRADING					
Item No.	Item	Quantity	Unit	Unit Cost	Item Cost
1	Cut or Fill* (whichever is greater)				
	0 - 5,000		CY	\$6.38	\$0.00
	5,001 - 10,000		CY	\$5.30	\$0.00
	10,001 - 20,000		CY	\$4.26	\$0.00
	20,001 - 50,000		CY	\$3.74	\$0.00
	50,001 - 100,000		CY	\$3.19	\$0.00
	100,001 - 500,000		CY	\$2.66	\$0.00
	500,001 c.y. or greater		CY	\$2.13	\$0.00
2	Import/Export		CY	\$10.63	\$0.00
	0 - 5,000		CY	\$13.64	\$0.00
	5,001 c.y. or greater		CY	\$8.53	\$0.00
Sub Total				\$0.00	
Add 10%				\$0.00	
TOTAL GRADING				\$0.00	

* Note: Quantities of reworked soils must be included in the estimate.

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Erosion Control, Landscaping & Irrigation

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Item No.	Description	Quantity	Unit	Unit Cost	Item Cost
Trees*					
1	4" DBH Parkway Tree		Ea.	\$341.12	\$0.00
2	15 Gallon Tree		Ea.	\$187.62	\$0.00
3	24" Box Tree		Ea.	\$324.07	\$0.00
4	48" Box Tree		Ea.	\$1,364.49	\$0.00
5	96" Box Tree		Ea.	\$3,411.23	\$0.00
6	Root Barrier		S.F.	\$1.88	\$0.00
Shrubs*					
7	1 Gallon Shrub, Non-Native		Ea.	\$8.53	\$0.00
8	5 Gallon Shrub, Non-Native		Ea.	\$18.76	\$0.00
9	15 Gallon Shrub, Non-Native		Ea.	\$170.56	\$0.00
10	1 Gallon Shrub, Native		Ea.	\$12.79	\$0.00
11	5 Gallon Shrub, Native		Ea.	\$42.64	\$0.00
12	15 Gallon Shrub, Native		Ea.	\$511.68	\$0.00
Ground Cover*					
13	Non-Native		S.F.	\$3.41	\$0.00
14	Native		S.F.	\$5.97	\$0.00
15	Turf (Include for BMP's)		S.F.	\$3.41	\$0.00
16	Hydroseed, Erosion Control Mixture with Mulch		S.F.	\$0.43	\$0.00
17	Plant Establishment and Maintenance		S.F.	\$0.10	\$0.00
18	Topsoil Import		C.Y.	\$42.64	\$0.00
19	Soil Conditioning		Acre	\$12,792.11	\$0.00
20	Mulch		C.Y.	\$76.75	\$0.00
21	Irrigation Controller		EA.	\$801.64	\$0.00
22	Water Service, (Meter, Lateral, WD Fee & Backflow Preventer)		EA.	\$10,233.68	\$0.00
Irrigation Pipe and Sprinkler Heads					
23	Temporary		S.F.	\$0.60	\$0.00
24	Permanent		S.F.	\$1.88	\$0.00
25	Temporary Electrical Service		Ea.	\$682.25	\$0.00
26	Maintain Best Management Practices		S.F.	\$0.34	\$0.00
Temporary Erosion Control Devices					
27	Erosion Control Silt Fence		L.F.	\$5.12	\$0.00
28	Erosion Control Gravel Bag		Ea.	\$1.11	\$0.00
29	Erosion Control Jute Cover		S.F.	\$0.43	\$0.00
30	Erosion Control Straw Wattle		L.F.	\$2.56	\$0.00
31	Erosion Control Desiltation Basin (Footprint)		Ac.	\$82,551.72	\$0.00
32	Erosion Control Desiltation Basin Outlet Structure			\$25,584.21	\$0.00
33	Controlled Construction Entrance		Ea.	\$5,969.65	\$0.00
34				\$0.00	\$0.00
35				\$0.00	\$0.00
* Included only when permanent landscaping is proposed for erosion control in lieu of interim landscaping				Sub Total	\$0.00
				Add 10%	\$0.00
TOTAL - EROSION CONTROL, LANDSCAPING & IRRIGATION					\$0.00