

Estimate of Probable Construction Costs

prepared for the
City of Menlo Park

Burgess Park Study
Natural Turf Option

prepared on: 7/10/08
prepared by: KD
checked by: DR

Item #	Description	Qty	Unit	Cost	Item Total	Subtotal
A	Project Start-up					
1.	Bonding and mobilization	Allow	5%	\$6,701.50	\$6,702.	
2.	Temporary fence	320	LF	\$3.00	\$960.	
						\$7,660.
B	Demolition					
1.	Strip and off-haul sod	1,180	SF	\$0.50	\$590.	
2.	Infield mix	300	CY	\$40.00	\$12,000.	
3.	Clean-out	2	EA	\$250.00	\$500.	
4.	In-ground baseball equipment (pitcher's rubber, base plugs)	Allow	LS	\$1,000.00	\$1,000.	
						\$14,090.
C	Grading and Drainage					
1.	Soil off-haul, 7.5" avg. across infield	375	CY	\$40.00	\$15,000.	
2.	Rough grading, 6" avg across infield	300	CY	\$15.00	\$4,500.	
3.	Sand planting mixture, 8" depth	430	CY	\$60.00	\$25,800.	
4.	Clean-out	2	EA	\$300.00	\$600.	
5.	Perforated drain line, 4"	150	LF	\$18.00	\$2,700.	
6.	Class 2 permeable, 5.5" average depth	525	TN	\$45.00	\$23,625.	
7.	Misc. storm drainage modifications	Allow	LS	\$4,500.00	\$4,500.	
						\$76,730.
D	Erosion Control					
1.	Temporary construction entrance	Allow	LS	\$1,500.00	\$1,500.	
2.	Wash down area	Allow	LS	\$1,000.00	\$1,000.	
3.	Storm drain inlet filters	2	EA	\$250.00	\$500.	
						\$3,000.
E	Site Furnishings					
1.	Portable pitching mound	1	EA	\$1,500.00	\$1,500.	
						\$1,500.
F	Landscape Soil Preparation					
1.	Fine grading	17,400	SF	\$0.30	\$5,220.	
						\$5,220.
G	Irrigation					
1.	Rotor irrigation	17,400	SF	\$0.80	\$13,920.	
2.	Quick couplers	2	EA	\$250.00	\$500.	
3.	System modifications	Allow	LS	\$5,000.00	\$5,000.	
						\$19,420.
H	Planting					
1.	Turf from sod	17,400	SF	\$0.55	\$9,570.	
						\$9,570.
I	Landscape Maintenance					
1.	Plant establishment, 3 months	Allow	LS	\$4,500.00	\$4,500.	
						\$4,500.
J	Subtotal Construction Costs					\$141,690.
K	Design Contingency	Allow	5%	\$7,084.50	\$7,085.	
						\$7,080.
L	Bid Contingency	Allow	5%	\$7,084.50	\$7,085.	
						\$7,080.
M	Anticipated Low Bid					\$155,850.
N	Change Order Contingency	Allow	15%	\$23,377.50	\$23,378.	
						\$23,380.
O	City Administration, Permitting, CEQA *	Allow	10%	\$15,585.00	\$15,585.	
						\$15,590.

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Burgess Park Study
Natural Turf Option

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Item #	Description	Qty	Unit	Cost	Item Total	Subtotal
P	Total of Construction					\$194,820.
Q	Professional Services					
1.	Supplemental survey	Allow	LS	\$2,500.00	\$2,500.	
2.	Landscape architectural services	Allow	4%	\$7,792.80	\$7,793.	
						\$10,290.
R	Inflation	1 YR	3%	\$6,153.30	\$6,153.	
						\$6,153.
S	Total Estimated Project					\$211,263.
	* City administration, permitting and CEQA allowance estimated by City.					
	Based on drawing entitled "Concept Plan", dated "7/10/08"					
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	of document preparation and is offered only as reference data. Callander Associates has no control over construction quantities,					
	costs and related factors affecting costs, and advises the client that significant variation may occur between					
	this estimate of probable construction costs and actual construction prices.					

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Estimate of Probable Construction Costs

Burgess Park Study
Natural Turf with Lights Option

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Item #	Description	Qty	Unit	Cost	Item Total	Subtotal
A	Project Start-up					
1.	Bonding and mobilization	Allow	5%	\$6,701.50	\$6,702.	
2.	Temporary fence	1,705	LF	\$3.00	\$5,115.	
						\$11,820.
B	Demolition					
1.	Strip and off-haul sod	1,180	SF	\$0.50	\$590.	
2.	Infield mix	300	CY	\$40.00	\$12,000.	
3.	Clean-out	2	EA	\$250.00	\$500.	
4.	In-ground baseball equipment (pitcher's rubber, base plugs)	Allow	LS	\$1,000.00	\$1,000.	
						\$14,090.
C	Grading and Drainage					
1.	Soil off-haul, 7.5" avg. across infield	375	CY	\$40.00	\$15,000.	
2.	Rough grading, 6" avg across infield	300	CY	\$15.00	\$4,500.	
3.	Sand planting mixture, 8" depth	430	CY	\$60.00	\$25,800.	
4.	Clean-out	2	EA	\$300.00	\$600.	
5.	Perforated drain line, 4"	150	LF	\$18.00	\$2,700.	
6.	Class 2 permeable, 5.5" average depth	525	TN	\$45.00	\$23,625.	
7.	Misc. storm drainage modifications	Allow	LS	\$4,500.00	\$4,500.	
						\$76,730.
D	Erosion Control					
1.	Temporary construction entrance	Allow	LS	\$1,500.00	\$1,500.	
2.	Wash down area	Allow	LS	\$1,000.00	\$1,000.	
3.	Storm drain inlet filters	2	EA	\$250.00	\$500.	
						\$3,000.
E	Site Furnishings					
1.	Portable pitching mound	1	EA	\$1,500.00	\$1,500.	
						\$1,500.
F	Landscape Soil Preparation					
1.	Fine grading	17,400	SF	\$0.30	\$5,220.	
						\$5,220.
G	Irrigation					
1.	Rotor irrigation	17,400	SF	\$0.80	\$13,920.	
2.	Quick couplers	2	EA	\$250.00	\$500.	
3.	System modifications	Allow	LS	\$5,000.00	\$5,000.	
						\$19,420.
H	Planting					
1.	Turf from sod	17,400	SF	\$0.55	\$9,570.	
						\$9,570.
I	Landscape Maintenance					
1.	Plant establishment, 3 months	Allow	LS	\$4,500.00	\$4,500.	
						\$4,500.
J	Electrical					
1.	Soccer/softball field lights	7	EA	\$22,000.00	\$154,000.	
2.	Little League field lights	4	EA	\$20,000.00	\$80,000.	
3.	Upgrade service	Allow	LS	\$15,000.00	\$15,000.	
4.	PVC conduit, wires in trench	1,680	LF	\$16.00	\$26,880.	
5.	Trenching and backfill	1,680	LF	\$5.00	\$8,400.	
6.	Lighting controls	Allow	LS	\$7,500.00	\$7,500.	
7.	Pull boxes, covers and ground rods	13	EA	\$700.00	\$9,100.	
						\$300,880.

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Estimate of Probable Construction Costs
Burgess Park Study
Natural Turf with Lights Option

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Item #	Description	Qty	Unit	Cost	Item Total	Subtotal
K	Subtotal Construction Costs					\$446,730.
L	Design Contingency	Allow	5%	\$22,336.50	\$22,337.	\$22,340.
M	Bid Contingency	Allow	5%	\$22,336.50	\$22,337.	\$22,340.
N	Anticipated Low Bid					\$491,410.
O	Change Order Contingency	Allow	15%	\$73,711.50	\$73,712.	\$73,710.
P	City Administration, Permitting, CEQA *	Allow	10%	\$49,141.00	\$49,141.	\$49,140.
Q	Total of Construction					\$614,260.
R	Professional Services					
	1. Supplemental survey	Allow	LS	\$2,500.00	\$2,500.	
	2. Landscape architectural services	Allow	4%	\$24,570.40	\$24,570.	
	3. Electrical engineering	Allow	LS	\$10,000.00	\$10,000.	
						\$37,070.
S	Inflation	1 YR	3%	\$19,539.90	\$19,540.	\$19,540.
T	Total Estimated Project					\$670,870.
* City administration, permitting and CEQA allowance estimated by City.						
Based on drawing entitled "Concept Plan", dated "7/10/08"						
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Estimate of Probable Construction Costs

Burgess Park Study Synthetic Turf with Lights Option

prepared on: 7/10/08
prepared by: KD
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Item #	Description	Qty	Unit	Cost	Item Total	Subtotal
A	Project Start-up					
1.	Bonding and mobilization	Allow	5%	\$71,546.50	\$71,547.	
2.	Construction staking	Allow	LS	\$5,000.00	\$5,000.	
3.	Temporary fence	1,705	LF	\$3.00	\$5,115.	
						\$81,660.
B	Demolition					
1.	Strip and off-haul sod	126,250	SF	\$0.50	\$63,125.	
2.	Soil off-haul, 7.5" average across infield only	520	CY	\$40.00	\$20,800.	
3.	Infield mix	22,570	SF	\$1.00	\$22,570.	
4.	Clean-out	2	EA	\$250.00	\$500.	
5.	Sand planting mixture, 8" depth	3,120	CY	\$30.00	\$93,600.	
6.	In-ground baseball equipment (pitcher's rubber, base plugs)	Allow	LS	\$1,000.00	\$1,000.	
7.	Irrigation equipment at-grade	Allow	LS	\$3,500.00	\$3,500.	
						\$205,100.
C	Grading and Drainage					
1.	Rough grading at infield, 6" average	420	CY	\$15.00	\$6,300.	
2.	Clean-out	2	EA	\$300.00	\$600.	
3.	Perforated drain line, 4"	150	LF	\$18.00	\$2,700.	
4.	Class 2 permeable under field, 8" depth	5,555	TN	\$45.00	\$249,975.	
5.	Class 2 permeable under infield, average 13.5" depth	1,695	TN	\$45.00	\$76,275.	
6.	Misc. storm drainage modifications	Allow	LS	\$4,500.00	\$4,500.	
						\$340,350.
D	Erosion Control					
1.	Temporary construction entrance	Allow	LS	\$1,500.00	\$1,500.	
2.	Wash down area	Allow	LS	\$1,000.00	\$1,000.	
3.	Storm drain inlet filters	2	EA	\$250.00	\$500.	
						\$3,000.
E	Site Construction					
1.	Synthetic turf	148,820	SF	\$5.50	\$818,510.	
2.	Nailer	1,610	LF	\$6.50	\$10,465.	
3.	Synthetic turf striping	Allow	LS	\$15,000.00	\$15,000.	
						\$843,980.
F	Site Furnishings					
1.	Soccer goals (appropriate for synthetic turf)	2	EA	\$2,500.00	\$5,000.	
						\$5,000.
G	Irrigation					
1.	Quick couplers	12	EA	\$250.00	\$3,000.	
2.	Re-route mainline	700	LF	\$15.00	\$10,500.	
3.	Field cooling system (incl. booster pump)**	Allow	LS	\$20,000.00	\$20,000.	
						\$33,500.
H	Electrical					
1.	Soccer/softball field lights	7	EA	\$22,000.00	\$154,000.	
2.	Little League field lights	4	EA	\$20,000.00	\$80,000.	
3.	Upgrade service	Allow	LS	\$15,000.00	\$15,000.	
4.	PVC conduit, wires in trench	1,680	LF	\$16.00	\$26,880.	
5.	Trenching and backfill	1,680	LF	\$5.00	\$8,400.	
6.	Lighting controls	Allow	LS	\$7,500.00	\$7,500.	
7.	Pull boxes, covers and ground rods	13	EA	\$700.00	\$9,100.	
						\$300,880.

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City of Menlo Park

Estimate of Probable Construction Costs
Burgess Park Study
Synthetic Turf with Lights Option

prepared on: 7/10/08
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Item #	Description	Qty	Unit	Cost	Item Total	Subtotal
I	Subtotal Construction Costs					\$1,813,470.
J	Design Contingency	Allow	5%	\$90,673.50	\$90,674.	\$90,670.
K	Bid Contingency	Allow	5%	\$90,673.50	\$90,674.	\$90,670.
L	Anticipated Low Bid					\$1,994,810.
M	Change Order Contingency	Allow	15%	\$299,221.50	\$299,222.	\$299,220.
N	City Administration, Permitting, CEQA *	Allow	10%	\$199,481.00	\$199,481.	\$199,480.
O	Total of Construction					\$2,493,510.
P	Professional Services					
	1. Supplemental survey	Allow	LS	\$2,500.00	\$2,500.	
	2. Landscape architectural services	Allow	4%	\$99,740.40	\$99,740.	
	3. Electrical engineering	Allow	LS	\$1,000.00	\$1,000.	\$103,240.
Q	Inflation	1 YR	3%	\$77,902.50	\$77,903.	\$77,903.
R	Total Estimated Project					\$2,674,653.
	* City administration, permitting and CEQA allowance estimated by City.					
	** Field cooling costs requested as addition to estimate by City.					
	Based on drawing entitled "Concept Plan", dated "7/10/08"					
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