

Engineer's Opinion of Probable Cost
SDSU - SE Residential Community Parking Development
 May 25, 2011

Base Bid - New Parking Lot

Bid Item Number	Grading and Surfacing Items	Quantity	Unit	Unit Cost	Total Cost
C-1	Mobilization	1	LS	\$ 60,000.00	\$ 60,000.00
C-2	Traffic Control	1	LS	\$ 1,000.00	\$ 1,000.00
C-3	Chain Link Fence	1,200	Ft	\$ 18.00	\$ 21,600.00
C-4	Clearing & Grubbing	1	LS	\$ 25,000.00	\$ 25,000.00
C-5	Building Demolition	1	Each	\$ 2,000.00	\$ 2,000.00
C-6	Remove Concrete Sidewalk/Surfacing	0	SqFt	\$ 0.50	\$ -
C-7	Remove Curb & Gutter	400	Ft	\$ 3.50	\$ 1,400.00
C-8	Remove Existing Waterline	730	Ft	\$ 5.00	\$ 3,650.00
C-9	Unclassified Excavation	35,000	CuYd	\$ 3.00	\$ 105,000.00
C-10	Placing Topsoil (6")	2,000	CuYd	\$ 6.00	\$ 12,000.00
C-11	Waste	25,000	CuYd	\$ 4.00	\$ 100,000.00
C-12	Scarify and Recompact (8")	6,200	CuYd	\$ 5.00	\$ 31,000.00
C-13	High Flow Silt Fence	2,000	Ft	\$ 3.50	\$ 7,000.00
C-14	Concrete Washout Facility	1	Each	\$ 1,200.00	\$ 1,200.00
C-15	Temporary Tracking Control	1	Each	\$ 1,000.00	\$ 1,000.00
C-16	18" RCP Storm Sewer, Furnish	190	Ft	\$ 24.00	\$ 4,560.00
C-17	18" RCP Storm Sewer, Install	190	Ft	\$ 16.00	\$ 3,040.00
C-18	24" RCP Storm Sewer, Furnish	540	Ft	\$ 30.00	\$ 16,200.00
C-19	24" RCP Storm Sewer, Install	540	Ft	\$ 17.00	\$ 9,180.00
C-20	27" RCP Storm Sewer, Furnish	410	Ft	\$ 36.00	\$ 14,760.00
C-21	27" RCP Storm Sewer, Furnish	410	FT	\$ 18.00	\$ 7,380.00
C-22	2'x3' Type B - Drop Inlet	5	Each	\$ 1,800.00	\$ 9,000.00
C-23	4.5'x10' Type S Drop Inlet	2	Each	\$ 2,500.00	\$ 5,000.00
C-24	Draintile	4,300	Ft	\$ 9.00	\$ 38,700.00
C-25	High Performance Geotextile Fabric	28,500	SqYd	\$ 3.00	\$ 85,500.00
C-26	Base Course (15")	23,200	Ton	\$ 9.00	\$ 208,800.00
C-27	Curb and Gutter, Type B66	0	Ft	\$ 10.00	\$ -
C-28	Curb and Gutter, Rollover	1,410	Ft	\$ 11.00	\$ 15,510.00
C-29	6" PCC Fillet Section	20.0	SqYd	\$ 50.00	\$ 1,000.00
C-30	Concrete Valley Gutter	8,010	SqFt	\$ 6.00	\$ 48,060.00
C-31	Asphalt Concrete, Class E, Natural Agg.	2,250	Ton	\$ 75.00	\$ 168,750.00
C-32	Asphalt Concrete, Class G, 85% Quartzite	2,250	Ton	\$ 84.00	\$ 189,000.00
C-33	SS-1h or CSS-1h Asphalt for Tack	6.0	Ton	\$ 1,200.00	\$ 7,200.00
C-34	Pavement Marking Paint, White	85.0	Gal	\$ 110.00	\$ 9,350.00
C-35	Motorcycle Parking Sign Pole	4	Each	\$ 350.00	\$ 1,400.00
C-36	Stop Sign	0	Each	\$ 350.00	\$ -

Subtotal: \$ 1,214,240.00

Base Bid - Lighting for New Parking Lot

Bid Item Number	Lighting / Electrical Items	Quantity	Unit	Unit Cost	Total Cost
E-1	High Cutoff Double Luminaries	18	Each	\$ 5,000.00	\$ 90,000.00
E-2	High Cutoff Single Luminaries	1	Each	\$ 4,500.00	\$ 4,500.00
E-3	Lighting Control Panel	1	Each	\$ 26,000.00	\$ 26,000.00
E-4	Trenching, Raceway & Backfill	2,200	Ft	\$ 14.32	\$ 31,504.00
E-5	Conductors	2,500	Ft	\$ 2.00	\$ 5,000.00
E-6	Relocate Transformer & Connectors	1	LS	\$ 4,000.00	\$ 4,000.00
E-7	Transformer Pad, Raceway & Ground	1	LS	\$ 5,000.00	\$ 5,000.00
E-8	3-Phase Primary Circuit (12.5 KV)	400	Ft	\$ 70.00	\$ 28,000.00
E-9	Extend Circuits & Relocate Panel (Intramural)	1	LS	\$ 10,000.00	\$ 10,000.00
E-10	Terminations	1	LS	\$ 3,000.00	\$ 3,000.00

Subtotal: \$ 207,004.00



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Alternate #1 - Access Road to 11th Street

Bid Item Number	Grading and Surfacing Items	Quantity	Unit	Unit Cost	Total Cost
1.1	Mobilization	1	LS	\$ 8,000.00	\$ 8,000.00
1.2	Traffic Control	1	LS	\$ 1,000.00	\$ 1,000.00
1.3	Remove Concrete Sidewalk/Surfacing	560	SqFt	\$ 0.50	\$ 280.00
1.4	Remove Curb & Gutter	80	Ft	\$ 3.50	\$ 280.00
1.5	Remove & Salvage Light Pole	1	Each	\$ 5,000.00	\$ 5,000.00
1.6	Adjust Manhole Casting	1	Each	\$ 500.00	\$ 500.00
1.7	Unclassified Excavation	1,000	CuYd	\$ 3.00	\$ 3,000.00
1.8	Placing Topsoil (6")	300	CuYd	\$ 6.00	\$ 1,800.00
1.9	Waste	700	CuYd	\$ 6.00	\$ 4,200.00
1.10	Scarify and Recompact (8")	400	CuYd	\$ 5.00	\$ 2,000.00
1.11	High Flow Silt Fence	500	Ft	\$ 3.50	\$ 1,750.00
1.12	Draintile	500	Ft	\$ 9.00	\$ 4,500.00
1.13	High Performance Geotextile Fabric	1,620	SqYd	\$ 3.00	\$ 4,860.00
1.14	Base Course (15")	1,350	Ton	\$ 9.00	\$ 12,150.00
1.15	Curb and Gutter (Standard 30" Wide)	830	Ft	\$ 10.00	\$ 8,300.00
1.16	6" PCC Fillet Section	69.0	SqYd	\$ 50.00	\$ 3,450.00
1.17	Concrete Valley Gutter	150	SqFt	\$ 6.00	\$ 900.00
1.18	Asphalt Concrete, Class E, Natural Agg.	180	Ton	\$ 75.00	\$ 13,500.00
1.19	Asphalt Concrete, Class G, 85% Quartzite	130	Ton	\$ 84.00	\$ 10,920.00
1.20	SS-1h or CSS-1h Asphalt for Tack	0.3	Ton	\$ 1,200.00	\$ 360.00
1.21	Stop Sign	1	Each	\$ 350.00	\$ 350.00

Subtotal: \$ 87,100.00

Alternate #1 - Lighting for Access Road

Bid Item Number	Lighting / Electrical Items	Quantity	Unit	Unit Cost	Total Cost
1.22	Poles, Bases, and Luminaries	4	Each	\$ 4,500.00	\$ 18,000.00
1.23	Trenching, Raceway & Backfill	600	Ft	\$ 10.00	\$ 6,000.00
1.24	Conductors	2,000	Ft	\$ 0.50	\$ 1,000.00
					\$ -

Subtotal: \$ 25,000.00

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 May 25, 2011

Alternate #2 - Extend North Parking Lot, Connect North Parking Lot to New Parking Lot & Flush Seals

Bid Item Number	Grading and Surfacing Items	Quantity	Unit	Unit Cost	Total Cost
2.1	Mobilization	1	LS	\$ 25,000.00	\$ 25,000.00
2.2	Traffic Control	1	LS	\$ 500.00	\$ 500.00
2.3	Remove Asphalt Surfacing	700	SqYd	\$ 1.50	\$ 1,050.00
2.4	Remove Concrete Sidewalk/Surfacing	5,000	SqFt	\$ 0.50	\$ 2,500.00
2.5	Remove Curb & Gutter	1,200	Ft	\$ 3.50	\$ 4,200.00
2.6	Unclassified Excavation	4,000	CuYd	\$ 3.00	\$ 12,000.00
2.7	Placing Topsoil (6")	400	CuYd	\$ 6.00	\$ 2,400.00
2.8	Waste	3,600	CuYd	\$ 6.00	\$ 21,600.00
2.9	Scarify and Recompact (8")	2,000	CuYd	\$ 5.00	\$ 10,000.00
2.10	High Flow Silt Fence	600	Ft	\$ 3.50	\$ 2,100.00
2.11	Draintile	600	Ft	\$ 9.00	\$ 5,400.00
2.12	High Performance Geotextile Fabric	6,500	SqYd	\$ 3.00	\$ 19,500.00
2.13	Base Course (15")	5,400	Ton	\$ 9.00	\$ 48,600.00
2.14	Curb and Gutter, Rollover	700	Ft	\$ 11.00	\$ 7,700.00
2.15	6" PCC Fillet Section	50.0	SqYd	\$ 50.00	\$ 2,500.00
2.16	Concrete Valley Gutter	250	SqFt	\$ 6.00	\$ 1,500.00
2.17	Asphalt Concrete, Class E, Natural Agg.	540	Ton	\$ 75.00	\$ 40,500.00
2.18	Asphalt Concrete, Class G, 85% Quartzite	540	Ton	\$ 84.00	\$ 45,360.00
2.19	SS-1h or CSS-1h Asphalt for Tack	1.5	Ton	\$ 1,200.00	\$ 1,800.00
2.20	SS-1h or CSS-1h Asphalt for Flush	12.4	Ton	\$ 1,200.00	\$ 14,880.00
2.21	Sand for Flush Seal	230	Ton	\$ 35.00	\$ 8,050.00
2.22	Sweeping Asphalt Parking Lot	1	LS	\$ 2,500.00	\$ 2,500.00
2.23	Pavement Marking Paint, White	85.0	Gal	\$ 188.00	\$ 15,980.00
2.24	Motorcycle Parking Sign Pole	2	Each	\$ 350.00	\$ 700.00
Subtotal:					\$ 296,320.00

Alternate #2 - Lighting to Extend North Parking Lot

Bid Item Number	Lighting / Electrical Items	Quantity	Unit	Unit Cost	Total Cost
2.25	Poles, Bases, and Luminaries	5	Each	\$ 5,000.00	\$ 25,000.00
2.26	Trenching, Raceway & Backfill	600	Ft	\$ 10.00	\$ 6,000.00
2.27	Conductors	2,000	Ft	\$ 0.50	\$ 1,000.00
					\$ -
Subtotal:					\$ 32,000.00

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 May 25, 2011

Alternate #3 - Connect Existing Parking Lots

Bid Item Number	Grading and Surfacing Items	Quantity	Unit	Unit Cost	Total Cost
3.1	Mobilization	1	LS	\$ 25,000.00	\$ 25,000.00
3.2	Traffic Control	1	LS	\$ 500.00	\$ 500.00
3.3	Chain Link Fence	1,200	Ft	\$ 18.00	\$ 21,600.00
3.4	Clearing & Grubbing	1	LS	\$ 25,000.00	\$ 25,000.00
3.5	Building Demolition	1	Each	\$ 2,000.00	\$ 2,000.00
3.6	Remove Concrete Sidewalk/Surfacing	4,300	SqFt	\$ 0.50	\$ 2,150.00
3.7	Remove Curb & Gutter	1,300	Ft	\$ 3.50	\$ 4,550.00
3.8	Unclassified Excavation	2,000	CuYd	\$ 3.00	\$ 6,000.00
3.9	Placing Topsoil (6")	100	CuYd	\$ 6.00	\$ 600.00
3.10	Waste	1,900	CuYd	\$ 4.00	\$ 7,600.00
3.11	Scarify and Recompact (8")	1,000	CuYd	\$ 5.00	\$ 5,000.00
3.12	High Flow Silt Fence	200	Ft	\$ 3.50	\$ 700.00
3.13	DrainTile	4,300	Ft	\$ 9.00	\$ 38,700.00
3.14	High Performance Geotextile Fabric	4,500	SqYd	\$ 3.00	\$ 13,500.00
3.15	Base Course (15")	3,700	Ton	\$ 9.00	\$ 33,300.00
3.16	Curb and Gutter, Rollover	200	Ft	\$ 11.00	\$ 2,200.00
3.17	Concrete Valley Gutter	2,600	SqFt	\$ 6.00	\$ 15,600.00
3.18	Asphalt Concrete, Class E, Natural Agg.	400	Ton	\$ 75.00	\$ 30,000.00
3.19	Asphalt Concrete, Class G, 85% Quartzite	400	Ton	\$ 84.00	\$ 33,600.00
3.20	SS-1h or CSS-1h Asphalt for Tack	1.0	Ton	\$ 1,200.00	\$ 1,200.00
3.21	Pavement Marking Paint, White	12.0	Gal	\$ 110.00	\$ 1,320.00
					\$ -

Subtotal: \$ 270,120.00

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Alternate #4 - New Lighting in Existing Parking Lots

Bid Item Number	Lighting / Electrical Items	Quantity	Unit	Unit Cost	Total Cost
3.22	Poles, Bases, and Luminaries	45	Each	\$ 6,000.00	\$ 270,000.00
3.23	Trenching, Raceway & Backfill	6,000	Ft	\$ 10.00	\$ 60,000.00
3.24	Conductors	18,000	Ft	\$ 0.50	\$ 9,000.00
					\$ -
Subtotal:					\$ 339,000.00

Summary of Opinions of Construction Cost

Base Bid - Grading & Surfacing	\$ 1,214,240.00
Base Bid - Lighting / Electrical	\$ 207,004.00
Contingency (3%)	\$ 42,637.32
Base Bid - Total: \$ 1,463,881.32	

Alternate #1 - Grading & Surfacing	\$ 87,100.00
Alternate #1 - Lighting / Electrical	\$ 25,000.00
Contingency (3%)	\$ 3,363.00
Alternate #1 - Total: \$ 115,463.00	

Alternate #2 - Grading & Surfacing	\$ 296,320.00
Alternate #2 - Lighting / Electrical	\$ 32,000.00
Contingency (3%)	\$ 9,849.60
Alternate #2 - Total: \$ 338,169.60	

Alternate #3 - Grading & Surfacing	\$ 270,120.00
Alternate #3 - Lighting / Electrical	N/A
Contingency (3%)	\$ 8,103.60
Alternate #3 - Total: \$ 278,223.60	

Alternate #4 - Grading & Surfacing	N/A
Alternate #4 - Lighting / Electrical	\$ 339,000.00
Contingency (3%)	\$ 10,170.00
Alternate #4 - Total: \$ 349,170.00	