

Alternate Bids Comparison

For the January 26, 2007 Bid Opening

Call Number	101	LCCA Factor	\$154,500.00		
Job Number	J110926	Asphalt Alternate	11" & 12" SP125B		
County	Harrison	Concrete Alternate	7" & 8 1/2" NRPCCP		
Route	35				
Length	0.645				
Description	Grading & Alt. Pvmnts. New Welcome Center				
	Bidder	Alternate	Bid	Bid for Comparison	Bid vs. Low
	Chester Bross Const. Co./C.B. Equipment Inc.	pc	\$5,089,100.24	\$5,089,100.24	0.0%
	Loch Sand and Construction Co.	pc	\$5,603,062.59	\$5,603,062.59	10.1%
	Ideker Inc.	pc	\$6,377,848.00	\$6,377,848.00	25.3%

Call Number	103	LCCA Factor	\$161,900.00		
Job Number	J1P0760	Asphalt Alternate	10" & 7" BP		
County	Daviess	Concrete Alternate	8" & 7" NRPCCP		
Route	6				
Length	2.585				
Description	Grading, Alt. Pvmnts. & 3 Br.				
	Bidder	Alternate	Bid	Bid for Comparison	Bid vs. Low
	Chester Bross Const. Co.	ac	\$6,660,838.55	\$6,822,738.55	0.00%
	McAninch Corporation	ac	\$7,049,443.72	\$7,211,343.72	5.70%
	Columbia Curb & Gutter Co.	ac	\$7,120,409.45	\$7,282,309.45	6.74%
	Ideker Inc.	ac	\$7,133,545.98	\$7,295,445.98	6.93%
	Emery Sapp & Sons Inc.	ac	\$7,572,987.12	\$7,734,887.12	13.37%

Call Number	201	LCCA Factor	\$292,600.00		
Job Number	J2P0748	Asphalt Alternate	11.5" SP125C		
County	Macon	Concrete Alternate	8.5" NRPCCP		
Route	63				
Length	3.892				
Description	Grading, Drainage & Alternate Pavements				
	Bidder	Alternate	Bid	Bid for Comparison	Bid vs. Low
	Emery Sapp & Sons, Inc.	pc	\$5,133,423.00	\$5,133,423.00	0.00%
	Chester Bross Const. Co./C.B. Equipment Inc.	ac	\$5,598,055.72	\$5,890,655.72	14.75%
	APAC - Missouri, Inc.	ac	\$6,564,702.40	\$6,857,302.40	33.58%

Call Number	902	LCCA Factor	\$654,700.00		
Job Number	J9P0364	Asphalt Alternate	13" SP125C		
County	Howell	Concrete Alternate	9" NRPCCP		
Route	60				
Length	8.92				
Description	Grading, Drainage & Alternate Pavements				
Let in Combination with J9P0364L					
	Bidder	Alternate	Bid	Bid for Comparison	Bid vs. Low
	Chester Bross Const. Co./C.B. Equipment Inc.	pc	\$14,539,994.76	\$14,539,994.76	0.0%
	Progressive Contractors Inc.	pc	\$14,658,763.85	\$14,658,763.85	0.8%
	Emery Sapp & Sons, Inc.	pc	\$14,854,113.53	\$14,854,113.53	2.2%
	Leo Journagan Construction Co. Inc.	ac	\$15,052,127.25	\$15,706,827.25	8.0%
	Illinois Valley Paving Co.	pc	\$16,029,754.97	\$16,029,754.97	10.2%

Call Number	902	LCCA Factor	\$547,300.00		
Job Number	J9P0364L	Asphalt Alternate	13" SP125C		
County	Howell	Concrete Alternate	9" NRPCCP		
Route	60				
Length	5.03				
Description	Grading, Drainage & Alternate Pavements				
Let in Combination with J9P0364					
	Bidder	Alternate	Bid	Bid for Comparison	Bid vs. Low
	Chester Bross Const. Co./C.B. Equipment Inc.	pc	\$9,450,686.56	\$9,450,686.56	0.0%
	Progressive Contractors Inc.	pc	\$9,514,294.11	\$9,514,294.11	0.7%
	Emery Sapp & Sons, Inc.	pc	\$10,091,076.45	\$10,091,076.45	6.8%
	Leo Journagan Construction Co. Inc.	ac	\$11,136,414.26	\$11,683,714.26	23.6%
	Illinois Valley Paving Co.	pc	\$11,111,869.44	\$11,111,869.44	17.6%

Life-Cycle Cost Adjustment Worksheet

last revised March 2006

Cost per lane Mile
\$41,255.81

Job Number J110926
 County Harrison
 Route 35
 Call 101
 Letting Date 01/26/07

This Documentation should be filed with all other Final Engineer's Estimate Documentation. Also include a copy along with the pavement estimation worksheet in the Alternate Pavements Notebook.

Total Area of Paving 26370 SY
 Area of Traveled Way 26370 SY
 SP125 Weight Factor 1.97 Tons/CY

Spreadsheets use OMB Real Interest Rates 2006
 5-Year 2.600% 10-Year 2.800% 20-Year 3.000% 25-Year* 3.000% 30-Year + 3.000%
 *Straight Line Interpolation From Published Rates

Estimated Unit Price for SP125B \$64.53 /Ton
 Estimated Unit Price for Cold Milling \$1.42 /SY
 Estimated Unit Price for Diamond Grinding \$3.07 /SY
 Estimated Unit Price for Pavement Repair** \$125.00 /SY
Estimated Unit Prices Based off of a 5 mile Project for Future Operations

**Includes all related Pavement Repair Items

Total LCCA Adjustment Factor \$154,533
For Job Special Provision \$154,500

MoDOT AC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
20 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift Traveled Way	1	20	26,370 SY		\$1.42	\$37,445	\$20,733
AC Resurfacing Traveled Way	1.75	20	2,525 TON		\$64.53	\$162,957	\$90,225
Miscellaneous	9.5%	20	1 Price		\$19,038.25	\$19,038	\$10,541
Mobilization	3.0%	20	1 Price		\$6,583.23	\$6,583	\$3,645
Construction added costs	9.7%	20	1 Price		\$21,924.34	\$21,924	\$12,139
33 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift - all	1	33	26,370 SY		\$1.42	\$37,445	\$14,118
AC Resurfacing (100%) - all	1.75	33	2,525 TON		\$64.53	\$162,957	\$61,439
Miscellaneous	9.5%	33	1 Price		\$19,038.25	\$19,038	\$7,178
Mobilization	3.0%	33	1 Price		\$6,583.23	\$6,583	\$2,482
Construction added costs	9.7%	33	1 Price		\$21,924.34	\$21,924	\$8,266
Years in analysis:	45					Total Cost:	\$495,897
Discount Rate:	3.000%						\$230,766
Equivalent Uniform Annual Cost:							\$9,412

MoDOT PCC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
25 Year Maintenance							
Discount Rate:	3.000%						
Traveled Way Slab Replacements	1.5%	25	396 SY		\$125.00	\$49,444	\$23,615
Diamond Grinding of Traveled Way		25	26,370 SY		\$3.07	\$80,956	\$38,665
Miscellaneous	9.5%	25	1 Price		\$12,387.97	\$12,388	\$5,917
Mobilization	1.9%	25	1 Price		\$2,712.96	\$2,713	\$1,296
Construction added costs	9.7%	25	1 Price		\$14,113.56	\$14,114	\$6,741
Years in analysis:	45					Total Cost:	\$159,614
Discount Rate:	3.000%						\$76,233
Equivalent Uniform Annual Cost:							\$3,109

Life-Cycle Cost Adjustment Worksheet

last revised December 2006

Cost per lane Mile
\$28,456.59

Job Number J1P0760
 County DAVIESS
 Route 6
 Call 103
 Letting Date 01/26/07

This Documentation should be filed with all other Final Engineer's Estimate Documentation. Also include a copy along with the pavement estimation worksheet in the Alternate Pavements Notebook.

Total Area of Paving 40057.8 SY
 Area of Traveled Way 40057.8 SY
 Area of Shoulders (6' wide or more) 0 SY

SP125 Weight Factor 1.97 Tons/CY

Spreadsheets use OMB Real Interest Rates 2006
 5-Year 10-Year 20-Year 25-Year* 30-Year +
 2.600% 2.800% 3.000% 3.000% 3.000%

Estimated Unit Price for BP-1 \$46.05 /Ton
 Estimated Unit Price for BP-1 - Shoulders \$0.00 /Ton
 Estimated Unit Price for Cold Milling \$1.37 /SY
 Estimated Unit Price for Diamond Grinding \$2.39 /SY
 Estimated Unit Price for Pavement Repair** \$125.00 /SY

*Straight Line Interpolation From Published Rates

**Includes all related Pavement Repair Items

Estimated Unit Prices Based off of a 5 mile Project for Future Operations

Total LCCA Adjustment Factor \$161,919
For Job Special Provision \$161,900

MoDOT AC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
20 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift Traveled Way	1	20	40,058 SY		\$1.37	\$55,009	\$30,457
AC Resurfacing Traveled Way	1.75	20	3,836 TON		\$46.05	\$176,656	\$97,810
Miscellaneous	11.7%	20	1 Price		\$27,104.78	\$27,105	\$15,007
Mobilization	4.6%	20	1 Price		\$11,903.40	\$11,903	\$6,591
Construction added costs	10.1%	20	1 Price		\$27,337.97	\$27,338	\$15,136
33 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift - all	1	33	40,058 SY		\$1.37	\$55,009	\$20,740
AC Resurfacing (minus shoulders 6' wide or more)	1.75	33	3,836 TON		\$46.05	\$176,656	\$66,604
Resurfacing Shoulders 6' wide or more	1.75	33	0 TON		\$0.00	\$0	\$0
Miscellaneous	11.7%	33	1 Price		\$27,104.78	\$27,105	\$10,219
Mobilization	4.6%	33	1 Price		\$11,903.40	\$11,903	\$4,488
Construction added costs	10.1%	33	1 Price		\$27,337.97	\$27,338	\$10,307
Years in analysis:	45					Total Cost:	
						\$596,022	\$277,359
Discount Rate:	3.000%						
Equivalent Uniform Annual Cost:							\$11,312

MoDOT PCC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
25 Year Maintenance							
Discount Rate:	3.000%						
Traveled Way Slab Replacements	1.5%	25	601 SY		\$125.00	\$75,108	\$35,872
Diamond Grinding of Traveled Way		25	40,058 SY		\$2.39	\$95,814	\$45,761
Miscellaneous	23.0%	25	1 Price		\$39,312.06	\$39,312	\$18,776
Mobilization	4.9%	25	1 Price		\$10,301.47	\$10,301	\$4,920
Construction added costs	9.6%	25	1 Price		\$21,171.41	\$21,171	\$10,112
Years in analysis:	45					Total Cost:	
						\$241,707	\$115,441
Discount Rate:	3.000%						
Equivalent Uniform Annual Cost:							\$4,708

Life-Cycle Cost Adjustment Worksheet

last revised December 2006

Cost per lane Mile
\$34,648.76

Job Number J2P0748
 County Macon
 Route 63
 Call 201
 Letting Date 01/26/07

This Documentation should be filed with all other Final Engineer's Estimate Documentation. Also include a copy along with the pavement estimation worksheet in the Alternate Pavements Notebook.

Total Area of Paving 59451.3 SY
 Area of Traveled Way 59451.3 SY
 Area of Shoulders (6' wide or more) 0 SY

SP125 Weight Factor 1.97 Tons/CY

Spreadsheets use OMB Real Interest Rates 2006
 5-Year 10-Year 20-Year 25-Year* 30-Year +
 2.600% 2.800% 3.000% 3.000% 3.000%

Estimated Unit Price for SP125 \$54.69 /Ton
 Estimated Unit Price for BP-1 - Shoulders \$0.00 /Ton
 Estimated Unit Price for Cold Milling \$1.36 /SY
 Estimated Unit Price for Diamond Grinding \$2.52 /SY
 Estimated Unit Price for Pavement Repair** \$125.00 /SY

*Straight Line Interpolation From Published Rates

**Includes all related Pavement Repair Items

Estimated Unit Prices Based off of a 5 mile Project for Future Operations

Total LCCA Adjustment Factor \$292,601
For Job Special Provision \$292,600

MoDOT AC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
20 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift Traveled Way	1	20	59,451 SY		\$1.36	\$80,607	\$44,630
AC Resurfacing Traveled Way	1.75	20	5,693 TON		\$54.69	\$311,339	\$172,381
Miscellaneous	11.7%	20	1 Price		\$45,857.69	\$45,858	\$25,390
Mobilization	4.6%	20	1 Price		\$20,138.97	\$20,139	\$11,150
Construction added costs	10.1%	20	1 Price		\$46,252.22	\$46,252	\$25,609
33 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift - all	1	33	59,451 SY		\$1.36	\$80,607	\$30,391
AC Resurfacing (minus shoulders 6' wide or more)	1.75	33	5,693 TON		\$54.69	\$311,339	\$117,383
Resurfacing Shoulders 6' wide or more	1.75	33	0 TON		\$0.00	\$0	\$0
Miscellaneous	11.7%	33	1 Price		\$45,857.69	\$45,858	\$17,290
Mobilization	4.6%	33	1 Price		\$20,138.97	\$20,139	\$7,593
Construction added costs	10.1%	33	1 Price		\$46,252.22	\$46,252	\$17,438
Years in analysis:	45					Total Cost:	\$1,008,390
Discount Rate:	3.000%						\$469,255
Equivalent Uniform Annual Cost:							\$19,139

MoDOT PCC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
25 Year Maintenance							
Discount Rate:	3.000%						
Traveled Way Slab Replacements	1.5%	25	892 SY		\$125.00	\$111,471	\$53,239
Diamond Grinding of Traveled Way		25	59,451 SY		\$2.52	\$150,084	\$71,681
Miscellaneous	23.0%	25	1 Price		\$60,157.61	\$60,158	\$28,732
Mobilization	4.9%	25	1 Price		\$15,763.91	\$15,764	\$7,529
Construction added costs	9.6%	25	1 Price		\$32,397.73	\$32,398	\$15,473
Years in analysis:	45					Total Cost:	\$369,874
Discount Rate:	3.000%						\$176,654
Equivalent Uniform Annual Cost:							\$7,205

Life-Cycle Cost Adjustment Worksheet

last revised December 2006

Cost per lane Mile
\$36,695.86

Job Number: J9P0364
 County: Howell
 Route: 60
 Call: 902
 Letting Date: 01/26/07

This Documentation should be filed with all other Final Engineer's Estimate Documentation. Also include a copy along with the pavement estimation worksheet in the Alternate Pavements Notebook.

Total Area of Paving: 175729 SY
 Area of Traveled Way: 125600 SY
 Area of Shoulders (6' wide or more): 0 SY

SP125 Weight Factor: 1.97 Tons/CY

Spreadsheets use OMB Real Interest Rates 2006
 5-Year: 2.600% 10-Year: 2.800% 20-Year: 3.000% 25-Year*: 3.000% 30-Year+: 3.000%

Estimated Unit Price for SP125: \$53.66 /Ton
 Estimated Unit Price for BP-1 - Shoulders: \$0.00 /Ton
 Estimated Unit Price for Cold Milling: \$1.41 /SY
 Estimated Unit Price for Diamond Grinding: \$2.42 /SY
 Estimated Unit Price for Pavement Repair**: \$125.00 /SY

*Straight Line Interpolation From Published Rates

**Includes all related Pavement Repair Items

Estimated Unit Prices Based off of a 5 mile Project for Future Operations

Total LCCA Adjustment Factor: \$654,688
For Job Special Provision: \$654,700

MoDOT AC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
20 Year Maintenance							
Discount Rate: 3.000%							
Mill Surface Lift Traveled Way	1	20	125,600 SY		\$1.41	\$177,096	\$98,054
AC Resurfacing Traveled Way	1.75	20	12,028 TON		\$53.66	\$645,419	\$357,353
Miscellaneous	11.7%	20	1 Price		\$96,234.31	\$96,234	\$53,283
Mobilization	4.6%	20	1 Price		\$42,262.49	\$42,262	\$23,400
Construction added costs	10.1%	20	1 Price		\$97,062.24	\$97,062	\$53,741
33 Year Maintenance							
Discount Rate: 3.000%							
Mill Surface Lift - all	1	33	175,729 SY		\$1.41	\$247,778	\$93,419
AC Resurfacing (minus shoulders 6' wide or more)	1.75	33	12,028 TON		\$53.66	\$645,419	\$243,340
Resurfacing Shoulders 6' wide or more	1.75	33	0 TON		\$0.00	\$0	\$0
Miscellaneous	11.7%	33	1 Price		\$104,504.09	\$104,504	\$39,401
Mobilization	4.6%	33	1 Price		\$45,894.27	\$45,894	\$17,303
Construction added costs	10.1%	33	1 Price		\$105,403.17	\$105,403	\$39,740
Years in analysis:	45	Total Cost:				\$2,207,073	\$1,019,033
Discount Rate: 3.000%							
Equivalent Uniform Annual Cost:							\$41,561

MoDOT PCC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
25 Year Maintenance							
Discount Rate: 3.000%							
Traveled Way Slab Replacements	1.5%	25	1,884 SY		\$125.00	\$235,500	\$112,476
Diamond Grinding of Traveled Way		25	125,600 SY		\$2.42	\$303,952	\$145,169
Miscellaneous	23.0%	25	1 Price		\$124,073.96	\$124,074	\$59,258
Mobilization	4.9%	25	1 Price		\$32,512.77	\$32,513	\$15,528
Construction added costs	9.6%	25	1 Price		\$66,819.72	\$66,820	\$31,913
Years in analysis:	45	Total Cost:				\$762,858	\$364,345
Discount Rate: 3.000%							
Equivalent Uniform Annual Cost:							\$14,860

Life-Cycle Cost Adjustment Worksheet

last revised December 2006

Cost per lane Mile
\$40,768.83

Job Number J9P0364L
 County Howell
 Route 60
 Call 902
 Letting Date 01/26/07

This Documentation should be filed with all other Final Engineer's Estimate Documentation. Also include a copy along with the pavement estimation worksheet in the Alternate Pavements Notebook.

Total Area of Paving 131704 SY
 Area of Traveled Way 94500 SY
 Area of Shoulders (6' wide or more) 17764 SY

SP125 Weight Factor 1.97 Tons/CY

Spreadsheets use OMB Real Interest Rates 2006
 5-Year 10-Year 20-Year 25-Year* 30-Year +
 2.600% 2.800% 3.000% 3.000% 3.000%

Estimated Unit Price for SP125 \$54.87 /Ton
 Estimated Unit Price for BP-1 - Shoulders \$50.80 /Ton
 Estimated Unit Price for Cold Milling \$1.41 /SY
 Estimated Unit Price for Diamond Grinding \$2.42 /SY
 Estimated Unit Price for Pavement Repair** \$125.00 /SY

*Straight Line Interpolation From Published Rates

**Includes all related Pavement Repair Items

Estimated Unit Prices Based off of a 5 mile Project for Future Operations

Total LCCA Adjustment Factor \$547,252
For Job Special Provision \$547,300

MoDOT AC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
20 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift Traveled Way	1	20	94,500 SY		\$1.41	\$133,245	\$73,775
AC Resurfacing Traveled Way	1.75	20	9,050 TON		\$54.87	\$496,556	\$274,931
Miscellaneous	11.7%	20	1 Price		\$73,686.76	\$73,687	\$40,799
Mobilization	4.6%	20	1 Price		\$32,360.45	\$32,360	\$17,917
Construction added costs	10.1%	20	1 Price		\$74,320.71	\$74,321	\$41,150
33 Year Maintenance							
Discount Rate:	3.000%						
Mill Surface Lift - all	1	33	131,704 SY		\$1.41	\$185,703	\$70,015
AC Resurfacing (minus shoulders 6' wide or more)	1.75	33	9,050 TON		\$54.87	\$496,556	\$187,215
Resurfacing Shoulders 6' wide or more	1.75	33	1,701 TON		\$50.80	\$86,418	\$32,582
Miscellaneous	11.7%	33	1 Price		\$89,935.26	\$89,935	\$33,908
Mobilization	4.6%	33	1 Price		\$39,496.18	\$39,496	\$14,891
Construction added costs	10.1%	33	1 Price		\$90,708.99	\$90,709	\$34,200
Years in analysis:	45					Total Cost:	\$1,798,987
Discount Rate:	3.000%						\$821,381
Equivalent Uniform Annual Cost:							\$33,500

MoDOT PCC Projection							2006 Present Worth
	% or Thick. (in.)	Year	Quantity	Unit	Unit Price	Cost	
25 Year Maintenance							
Discount Rate:	3.000%						
Traveled Way Slab Replacements	1.5%	25	1,418 SY		\$125.00	\$177,188	\$84,626
Diamond Grinding of Traveled Way		25	94,500 SY		\$2.42	\$228,690	\$109,224
Miscellaneous	23.0%	25	1 Price		\$93,351.83	\$93,352	\$44,585
Mobilization	4.9%	25	1 Price		\$24,462.24	\$24,462	\$11,683
Construction added costs	9.6%	25	1 Price		\$50,274.39	\$50,274	\$24,011
Years in analysis:	45					Total Cost:	\$573,966
Discount Rate:	3.000%						\$274,129
Equivalent Uniform Annual Cost:							\$11,180