

Pavement

Mainline = 14 in. HMA Pavement

Ramps = 12.5 in. HMA Pavement

Cross Street = 12.5 in. HMA Pavement

Pavement Data

Length, Mainline (M) = 14,661 ft

Length, Ramps (R) at Cross Street (CS) = 5,490 ft

Length, CS = 4,646 ft

Width, M = Four 12-ft Lanes + Two 4-ft Inside Shoulders (IS) + Two 10-ft Outside Shoulders
(OS) = 48 ft + 8 ft + 20 ft = 76 ft

Width, R = One 16 ft lane + One 4-ft IS + One 8-ft OS = 16 ft + 4 ft + 8 ft = 28 ft

Width, CS = Two 12-ft lanes + Two 8-ft Shoulders = 24 ft + 16 ft = 40 ft

Area, M Lanes = 91,355 sys, IS = 13,086 sys, OS = 28,204 sys

Area, R = 32,850 sys

Area, CS Lanes = 20,280 sys, Shoulders = 5,375 sys

Pavement Cost

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| Surface, M + IS | 104441*165*(1/2000)*\$68.40 | \$589,360.56 |
| Surface, OS | 28204*165*(1/2000)*\$57.68 | \$134,211.55 |
| Surface, R | 32850*165*(1/2000)*\$48.98 | \$132,741.92 |
| Surface, CS Lanes | 20280*165*(1/2000)*\$48.98 | \$81,948.44 |
| Surface, CS Shoulders | 5375*165*(1/2000)*\$57.68 | \$25,577.48 |
| Intermediate, M + IS | 104441*275*(1/2000)*\$48.10 | \$690,746.66 |
| Intermediate, R | 32850*275*(1/2000)*\$50.09 | \$226,250.27 |
| Intermediate, CS Lanes | 20280*275*(1/2000)*\$50.09 | \$139,675.97 |
| Base, M + IS | 104441*385*(1/2000)*\$47.30 | \$950,961.42 |
| Base, OS | 28204*495*(1/2000)*\$60.49 | \$422,249.84 |
| Base, R | 32850*330*(1/2000)*\$56.13 | \$304,238.63 |
| Base, CS Lanes | 20280*330*(1/2000)*\$56.13 | \$187,822.21 |
| Base, CS Shoulders | 5375*495*(1/2000)*\$60.49 | \$80,470.60 |
| Base OG, M + IS | 104441*300*(1/2000)*\$53.40 | \$836,572.41 |
| Base OG, R + CS Lanes | 53130*250*(1/2000)*\$53.40 | \$354,642.75 |
| Base, M + IS | 104441*385*(1/2000)*\$47.30 | \$950,961.42 |
| Base, R + CS Lanes | 53130*330*(1/2000)*\$56.13 | \$492,060.84 |
| CA No. 53, Base, OS | 28204*(8/12)*(1/3)*1.69*\$15.40 | \$163,119.40 |
| CA No. 53, Base, CS Shoulder | 5375*(6/12)*(1/3)*1.69*\$15.40 | \$23,314.96 |
| Tack Coat, M + IS | 104441*4*\$0.15 | \$62,664.60 |
| Tack Coat, OS | 28204*2*\$0.15 | \$8,461.20 |
| Tack Coat, R | 32850*4*\$0.15 | \$19,710.00 |
| Tack Coat, CS Lanes | 20280*4*\$0.15 | \$12,168.00 |

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| Tack Coat, CS Shoulder | 5375*2*\$0.15 | \$1,612.50 |
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| Total Cost | | \$6,891,543.62 |
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Joint Sealing

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| M | 14,661*6 joints*\$1.00 | \$87,966.00 |
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| R | 5,490*2 joints*\$1.00 | \$10,980.00 |
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| CS | 4,646*3 joints*\$1.00 | \$13,938.00 |
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| Traffic Maintenance | 5% of Contract Cost | \$5,644.20 |
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| Total Cost | | \$118,528.20 |
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Milling and Functional Overlay

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| Milling | 191,150*\$1.02 | \$194,973.00 |
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| Tack Coat | 191,150*2*\$0.15 | \$57,345.00 |
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| Overlay, Surface & Inter., M + IS | | \$1,280,107.23 |
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| Overlay, Surface, OS | | \$134,211.55 |
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| Overlay, Inter., OS | 28204*275*(1/2000)*\$51.10 | \$198,168.36 |
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| Overlay, Surface & Inter., R | | \$358,992.19 |
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| Overlay, Surface & Inter., CS Lanes | | \$221,624.40 |
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| Overlay, Surface, CS Shoulder: | 5375*165*(1/2000)*\$57.68 | \$25,577.48 |
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| Overlay, Inter., CS Shoulders | 5375*275*(1/2000)*\$51.10 | \$37,766.09 |
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| Traffic Maintenance | 5% of Contract Cost | \$125,438.26 |
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| Total Cost | | \$2,634,203.56 |
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Milling and Overlay

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| Milling | 191,150*\$1.02 | \$194,973.00 |
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| Tack Coat | 191,150*\$0.15 | \$28,672.50 |
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| Overlay Surface, M + R + CS | | \$804,050.92 |
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| Overlay Surface, OS + CS Shoulders | | \$159,789.03 |
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| Traffic Maintenance | 5% of Contract Cost | \$59,374.27 |
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| Total Cost | | \$1,246,859.73 |
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| Traffic Maintenance | 5% of Contract Cost | \$6,127.45 |
| Total Cost | | \$128,676.52 |

4R Rehabilitation

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| Milling M + R + CS Lanes | 157,571*\$0.51 | \$80,361.21 |
| Milling M + CS Shoulders | 33,579*\$1.02 | \$34,250.58 |
| Patching, M | 14,661*(1/18)*17.33*2*0.015*\$142 | \$60,131.11 |
| Patching, R | 5,490*(1/15)*5.33*2*0.015*\$142 | \$8,310.32 |
| Patching, CS | 4,646*(1/15)*9.33*2*0.015*\$142 | \$12,310.60 |
| Tack Coat, 2 Lifts | 157,571*2*\$0.15 | \$47,271.30 |
| Overlay, Surface & Inter., M + IS | | \$1,280,107.23 |
| Overlay, Surface, OS | | \$134,211.55 |
| Overlay, Inter., OS | 28204*275*(1/2000)*\$51.10 | \$198,168.36 |
| Overlay, Surface & Inter., R | | \$358,992.19 |
| Overlay, Surface & Inter., CS Lanes | | \$221,624.40 |
| Overlay, Surface, CS Shoulder: | 5375*165*(1/2000)*\$57.68 | \$25,577.48 |
| Overlay, Inter., CS Shoulders | 5375*275*(1/2000)*\$51.10 | \$37,766.09 |
| Traffic Maintenance | 5% of Contract Cost | \$124,954.12 |
| Total Cost | | \$2,624,036.55 |

Resurfacing

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| Milling | 191,150*\$1.02 | \$194,973.00 |
| Patching | (1/3)*(\$60,131+\$8,310+\$12,310) | \$26,917.35 |
| Tack Coat | 191,150*\$0.15 | \$28,672.50 |
| Overlay, Surface, M + R + CS | | \$804,050.92 |
| Overlay, Surface, OS + CS Shoulders | | \$159,789.03 |
| Traffic Maintenance | 5% of Contract Cost | \$60,720.14 |
| Total Cost | | \$1,275,122.94 |