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Appendix F:

Preliminary Cost Estimates

Project	MP	Quantity	Unit	Total
Segment 1: US 89 to Pinkerton Road				
Reconstruct				
Typical 1 (24 feet)	0 - 3.8	3.8	mi	\$2,300,000
Typical 2 (28 feet)	0 - 3.8	3.8	mi	\$3,500,000
Typical 3 (30 feet)	0 - 3.8	3.8	mi	\$3,900,000
Segment 2: Pinkerton Road to Porcupine Road				
Reconstruct				
Typical 1 (24 feet) ¹	3.8 - 8.4	4.6	mi	\$3,300,000
Typical 2 (28 feet) ¹	3.8 - 8.4	4.6	mi	\$5,100,000
Typical 3 (30 feet) ¹	3.8 - 8.4	4.6	mi	\$5,600,000
Segment 3: Porcupine Road to Hill Road				
Reconstruct				
Typical 1 (24 feet)	8.4 - 14.2	5.8	mi	\$3,500,000
Typical 2 (28 feet)	8.4 - 14.2	5.8	mi	\$5,300,000
Typical 3 (30 feet)	8.4 - 14.2	5.8	mi	\$5,900,000
Segment 4: Hill Road to Smith Creek Road				
Preservation and Maintenance				
Chip Seal	14.2 - 15.7	1.5	mi	\$70,000
Resurfacing	14.2 - 15.7	1.5	mi	\$640,000
Segment 5: Smith Creek Road to End Project				
Preservation and Maintenance				
Resurfacing	15.7 - 19.5	3.8	mi	\$790,000
Combined Reconstruction				
Reconstruct				
Typical 1 (24 feet) ¹	0.0 - 14.2	14.2	mi	\$9,100,000
Typical 2 (28 feet) ¹	0.0 - 14.2	14.2	mi	\$13,900,000
Typical 3 (30 feet) ¹	0.0 - 14.2	14.2	mi	\$15,400,000

¹ Includes a 20% inflation to account for installment of guardrail, bank stabilization, and other geotechnical considerations on Segment 2.

Unit Costs:	
Reconstruction:	
Typical 1 (24 feet)	\$588,315 /mi
Typical 2 (28 feet)	\$906,075 /mi
Typical 3 (30 feet)	\$1,005,075 /mi
Resurfacing:	
Pavement (Chip Seal)	\$43,200 /mi
Pavement (Resurfacing)	\$421,200 /mi
Gravel	\$205,296 /mi
Geotech/Stabilization:	20%

24 -Foot Typical Section Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Full Depth Recycling	14373.33 sqyd/mile	14400	\$3.00	\$43,200.00
2" Agg. Base	1695.076 ton/mile	1700	\$25.00	\$42,500.00
3" Pavement	2352.142 ton/mile	2400	\$90.00	\$216,000.00
Incidentals			30%	\$90,510.00
Subtotal cost per mile:				\$392,210.00
Construction Engineering			15%	\$58,831.50
Preliminary Engineering			15%	\$58,831.50
Contingency			20%	\$78,442.00
Total cost per mile:				\$588,315.00

28 -Foot Typical Section Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Full Depth Recycling	14373.33 sqyd/mile	14400	\$3.00	\$43,200.00
3" Pavement	2731.52 ton/mile	2800	\$90.00	\$252,000.00
2" Agg. Base	1926.222 ton/mile	2000	\$25.00	\$50,000.00
6" Agg. Base	1386.88 ton/mile	1400	\$25.00	\$35,000.00
Unclassified borrow	1486.222 cuyd/mile	1500	\$15.00	\$22,500.00
Incidentals			50%	\$201,350.00
Subtotal cost per mile:				\$604,050.00
Construction Engineering			15%	\$90,607.50
Preliminary Engineering			15%	\$90,607.50
Contingency			20%	\$120,810.00
Total cost per mile:				\$906,075.00

30 -Foot Typical Section Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Full Depth Recycling	14373.33 sqyd/mile	14400	\$3.00	\$43,200.00
3" Pavement	2921.209 ton/mile	3000	\$90.00	\$270,000.00
2" Agg. Base	2080.32 ton/mile	2100	\$25.00	\$52,500.00
6" Agg. Base	1772.124 ton/mile	1800	\$25.00	\$45,000.00
Unclassified borrow	2346.667 cuyd/mile	2400	\$15.00	\$36,000.00
Incidentals			50%	\$223,350.00
Subtotal cost per mile:				\$670,050.00
Construction Engineering			15%	\$100,507.50
Preliminary Engineering			15%	\$100,507.50
Contingency			20%	\$134,010.00
Total cost per mile:				<u>\$1,005,075.00</u>

Pavement Maintenance Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Chip Seal, Type 1C	14373.33 sqyd/mi	14400	\$1.75	\$25,200.00
Emulsified Asphalt	14.37333 ton/mi	14.4	\$650.00	\$9,360.00
Incidentals			25%	\$8,640.00
Total cost per mile (chip seal):				<u>\$43,200.00</u>
3" Pavement	2352.142 ton/mile	2400	\$90.00	\$216,000.00
Incidentals			30%	\$64,800.00
Subtotal cost per mile:				\$280,800.00
Construction Engineering			15%	\$42,120.00
Preliminary Engineering			15%	\$42,120.00
Contingency			20%	\$56,160.00
Total cost per mile (resurfacing):				<u>\$421,200.00</u>

Gravel Maintenance Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
6" Agg Surfacing	4931.129 ton/mile	5000	\$20.00	\$100,000.00
Roadway Reconditioning	5280 ft/mile	5280	\$1.00	\$5,280.00
Incidentals			30%	\$31,584.00
		Subtotal cost per mile:		\$136,864.00
Construction Engineering			15%	\$20,529.60
Preliminary Engineering			15%	\$20,529.60
Contingency			20%	\$27,372.80
		Total cost per mile (resurfacing):		<u>\$205,296.00</u>