



## LIFE CYCLE COST ANALYSIS

based on 100,000 SY

<b>Current Plan Rehabilitation</b>				<b>Recommended Plan</b>		
YEAR	<u>Overlay</u>	<u>Patch</u>	<u>Surface Seal Coat</u>	<u>High Performance Treatments</u>	<u>Patch</u>	<u>Overlay</u>
2012	\$ 12,000	\$ 10,000	\$ 122,000	\$ 122,000	\$ 7,000	\$ 12,000
2013						
2014						
2015		\$ 15,000	\$ 122,000			
2016						
2017				\$ 122,000	\$ 10,000	
2018		\$ 15,000	\$ 122,000			
2019						
2020						
2021	\$ 248,000					
2022	\$ 248,000			\$ 122,000	\$ 5,000	
2023	\$ 248,000					
2024	\$ 248,000					
2025						
2026						
2027						
2028			\$ 122,000	\$ 122,000	\$ 5,000	
2029						
2030						
2031		\$ 10,000	\$ 122,000			
2032						
2033						
2034		\$ 10,000	\$ 122,000	\$ 122,000	\$ 5,000	
2035						
2036						
2037		\$ 10,000	\$ 122,000			

**TOTALS**

**\$1,928,000**  
**(\$77,120 annually)**  
**over 25 years**

**\$654,000**  
**(\$26,160 annually)**  
**over 25 years**

## ASSUMPTIONS:

1. Going with the **Proposed Plan** will save you \$ 1,274,000 over a 25 year period.
2. The Current Plan assumes pricing as follows: 1) Asphalt 1.5" overlay at \$10/sy, and 2) the cost for Rejuvenator/Sealer or conventional two-coat sealer at \$ 1.23/sy.
3. A condition survey confirms resurfacing/overlay needs to start in 9 years based on the rate of deterioration. ¼ of area to be overlaid each year starting in year 2020.
4. Using the **Current Plan**, conventional sealers are potential thermal barriers for future pavement overlays and could cause premature delamination.
5. Using the **Proposed Plan**, high performance treatment would reduce the need for patch work up to 90%.
6. All dollar amounts on the Life Cycle Cost Analysis are based on current costs, however, paving costs have risen 100% over the last 4 years compared to 15% for Rejuvenator. There is no reason to believe these trends will not continue.
7. Pavement marking work is not included in this forecast.