

LOW VOLUME ROAD PROJECT REVIEW

Highway Name and Location	SH 40E, Milepost 346.3 to 351.1
Treatment Used	1.5" Overlay

2013



2014



2015



LOW VOLUME ROAD PROJECT REVIEW

2016



2017



2018



Condition before treatment

See Below:

BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_idx	Cond
346	351	1974	82	100	78	79	96	0	0	FATG	POOR

LOW VOLUME ROAD PROJECT REVIEW

Condition after treatment Yr 1	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
346	351	2013	100	100	100	100	100	0	15	FATG	HIGH

Condition after treatment Yr 2	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
346	351	2013	84	100	100	92	99	0	8	IRI	MODERATE

Condition after treatment Yr 3	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
346	351	2013	92	100	100	87	99	0	8	TRAN	MODERATE

Condition after treatment Yr 4	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
346	351	2013	91	100	100	84	100	-1	9	TRAN	MODERATE

Condition after treatment Yr 5	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
346.3	351.1	2013	92	100	100	85	98	-1	9	TRAN	MODERATE

Condition after treatment Yr 6	See Below:
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BMP	Emp	Year	Iri	Rut	Fatg	Tran	Long	Crbk	DL	DL_Idx	Cond
346.3	351.1	2013	91	100	100	84	98	-1	9	TRAN	MODERATE

Change in DL condition documented:	Average DL increase of ~15 years.
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Treatment	Quantity	Unit	Treatment Area (SY)	Unit Cost	Cost	Calculated Cost (SY)
Rem of Asphalt Mat (Planing)	18,494	SY	18,494	\$4.75	\$87,846.50	\$4.75
HMA (Gr SX) (75)(PG 64-28) (1.5")	11,908	Ton	114,340	\$109.00	\$1,297,972.00	\$11.35
Emulsified Asphalt (Slow Setting)	6,212	Gal	114,340	\$2.60	\$16,151.20	\$0.14

Takeaways	<p>Transverse cracking (likely reflective) is starting to occur in stretches, but overall pavement still looks good. There are concerns going forward regarding thin overlay treatments and the inability to resist reflective cracking for more than 2 years. Timely subsequent crack sealing will be very important. After 4 years, cracks are beginning to reflect through. Even though DL is reported as 9 years, a sharp drop is expected over the next couple years.</p>
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