



**NEPPP Annual  
Meeting  
April 7-9, 2014  
Burlington, Vermont**



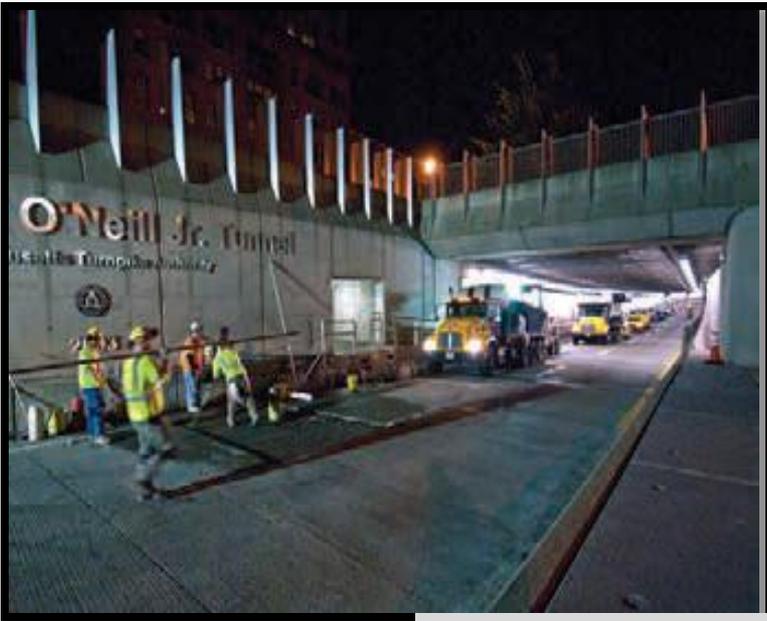
# **Sealcoating, Inc.**

*Innovative Pavement Preservation Solutions*

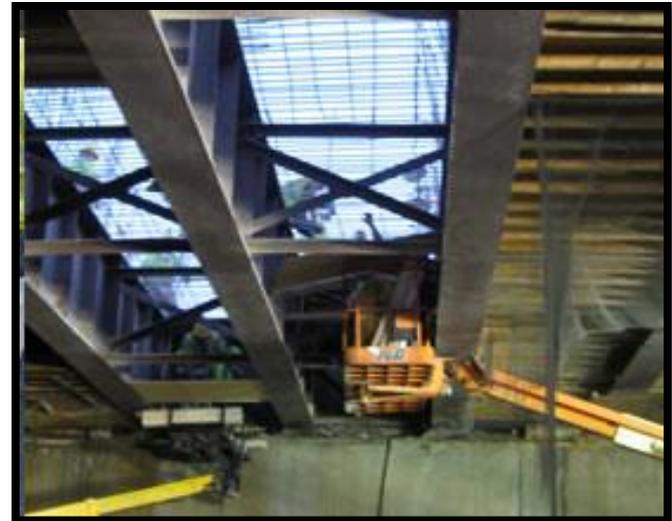




**825 Granite Street-Braintree, MA**

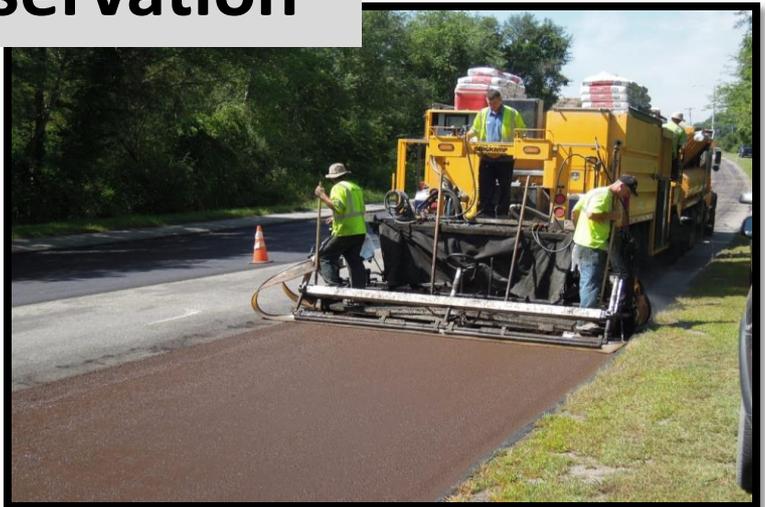
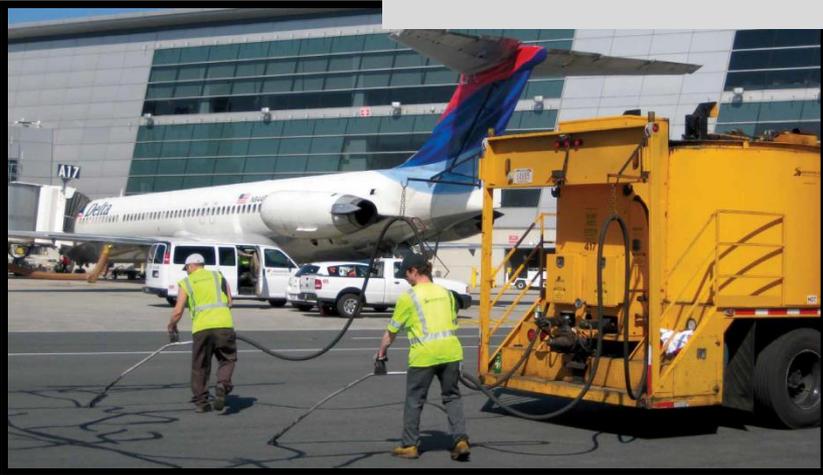


# Bridge Preservation





## Pavement Preservation



**Pavement Preservation=  
Lower Equivalent Annual Costs (EAC)**

$$EAC = \frac{\text{Unit Cost (\$/s.y.)}}{\text{Service Life (Years)}}$$

# Route #213-Methuen-2005



# Route #213-Methuen-2013

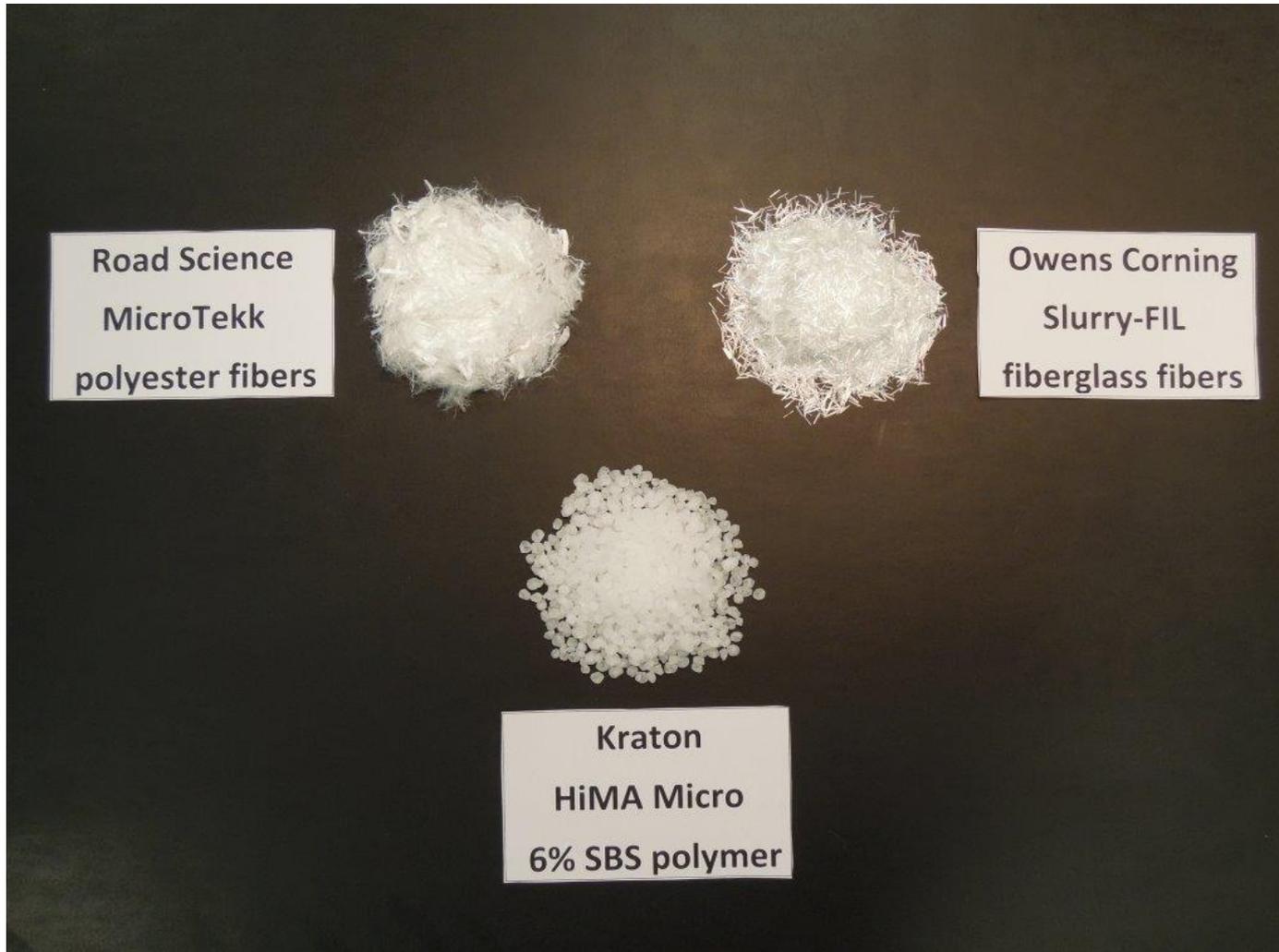


# Route #213-Methuen

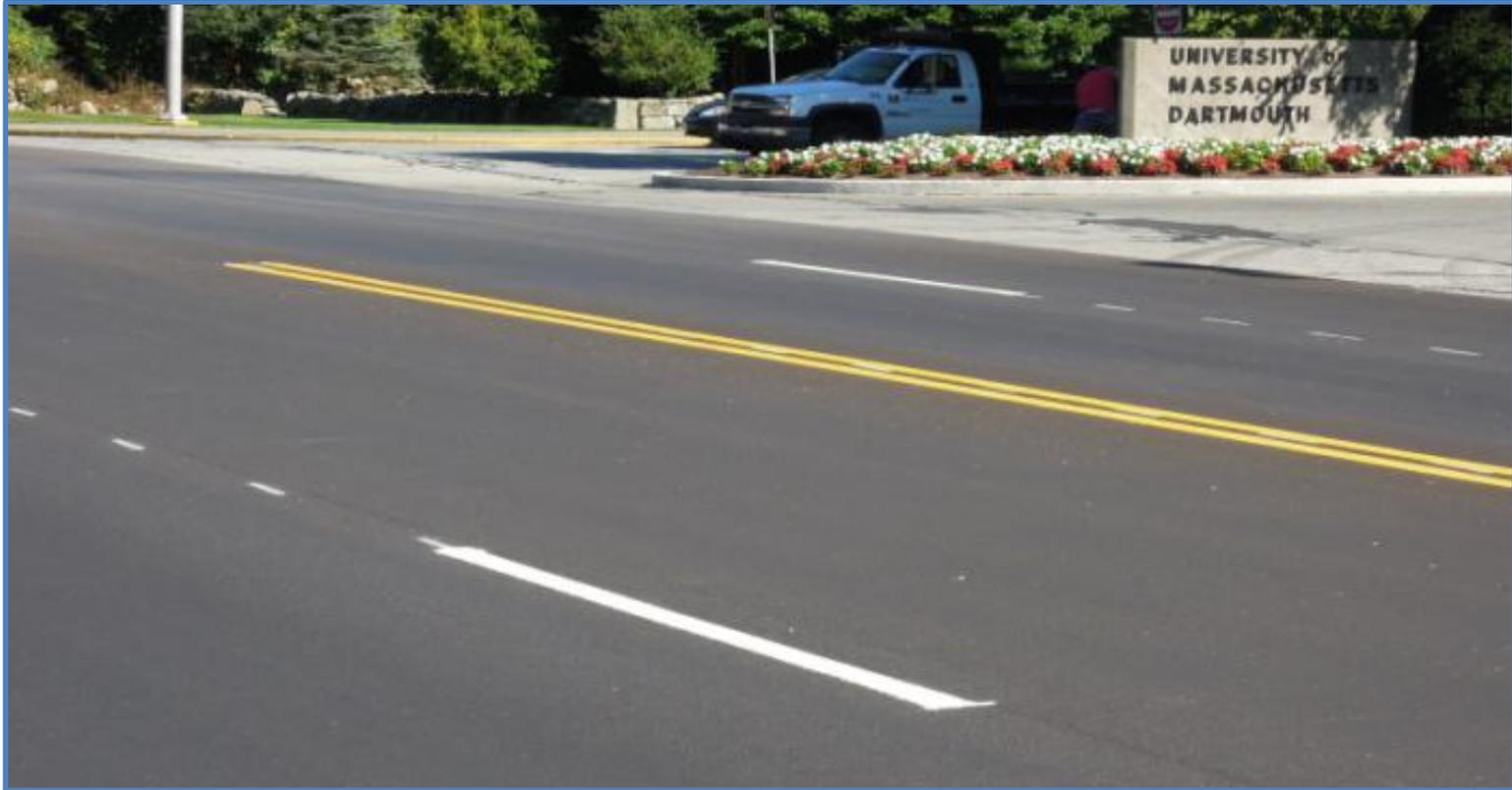
$$\text{EAC} = \frac{\$3.10 / \text{s.y.}}{6 \text{ Years}}$$

$$\text{EAC} = \$0.52 / \text{S.Y.} / \text{Year}$$

# “Next Generation” Microsurfacing Options



# Old Westport Road-Dartmouth, MA



## “Next Generation” Microsurfacing Demonstration Project







UNIVERSITY OF  
MASSACHUSETTS  
DARTMOUTH

ONE WAY





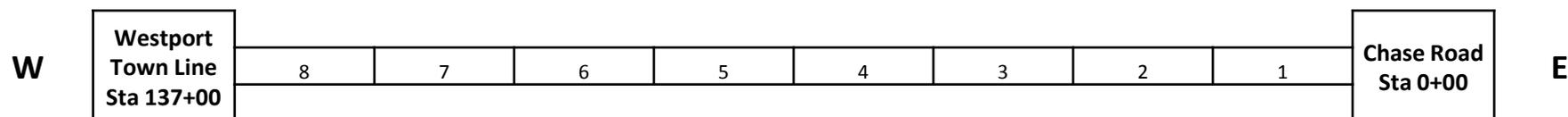




# Dartmouth MA -- Old Westport Road

## "Next Generation Micro-surfacing" Demonstration Project

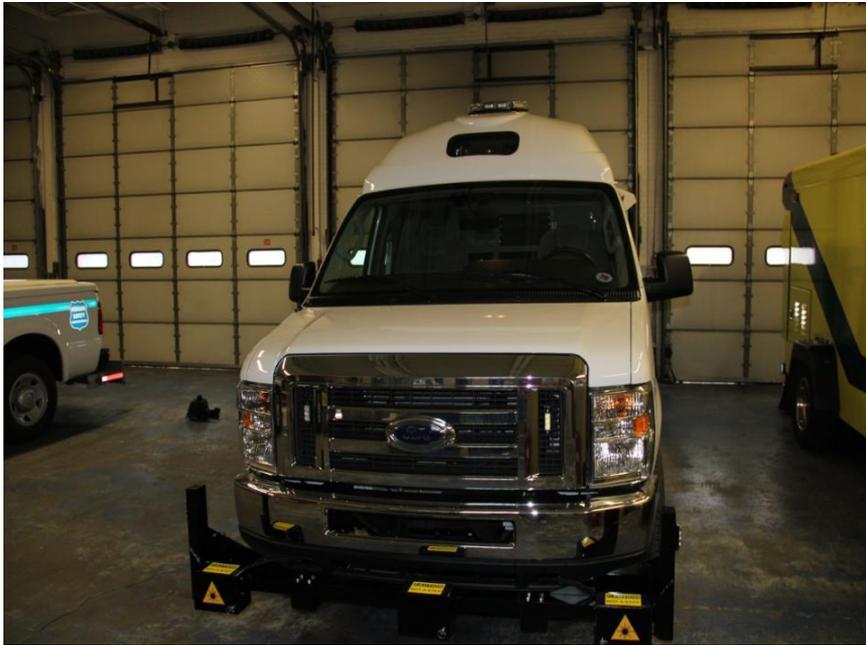
### Test Section Schematic Diagram



Test

<u>Section(s)</u>	<u>Microsurfacing System &amp; Description</u>	<u>From</u>	<u>To</u>	<u>Nearest Reference</u>	<u>Area (s.y.)</u>
1	MicroTekk polyester fiber-reinforced by Road Science	0+00	17+66	31' east of Althea Ave. intersection	6,140
2	Conventional micro-surfacing	17+66	31+37	24' west of Stonegate Way inters.	4,577
3	Fiber-Fil fiberglass fiber-reinforced by Owens-Corning	31+37	43+69	184' east of UMass entrance drive	5,892
4 & 5	Highly Modified Asphalt (HiMA) with Kraton SBS polymers	43+69	83+88	98' west of Blossom Rd. intersection	17,080
6	Fiber-Fil fiberglass fiber-reinforced by Owens-Corning	83+88	98+86	155' west of Lucy Little Rd. inters.	5,957
7	Conventional micro-surfacing	98+86	123+12	47' east of Oxford Dr. intersection	8,761
8	MicroTekk polyester fiber-reinforced by Road Science	123+12	137+00	town line at Beeden Road	5,083
<b>Total Area =</b>					<b>53,490</b>

# MassDOT Data Collection Van



# Old Westport Road (Dartmouth, MA) --- "Next Generation Microsurfacing" Demonstration Project

Test segments from Chase Road intersection 2.6 miles west to Westport town line

## WESTBOUND data collected by MassDOT August 1, 2013

f_key	From	To	LIRI	RIRI	AVEIRI	L_RUT	R_RUT	AVGRUT	INDEX_PSI	PSI	PSR	DI	LONG_DI	CSEAL_DI	LONGSEV	LONGEXT	CSEALSEV	CSEALEXT	LANE	MAXIRI	MAXRUT	SPEED
2002938	0	0.1	296.75	198.87	247.81	0.11	0.12	0.12	2.209655	4.059	2.209655	4.28748	4.059	4.5	0.56	0.56	0	0	1	296.75	0.12	22.5
2002939	0.1	0.2	116	110.99	113.495	0.08	0.08	0.08	2.6	2.6	3.726153	4.1205	3.7125	2.6	1	1	1.76	1.76	1	116	0.08	31.8
2002940	0.2	0.3	134.11	129.06	131.585	0.11	0.12	0.11	2.6	2.6	3.322272	4.1205	3.7125	2.6	1	1	2	2	1	134.11	0.12	32.6
2002941	0.3	0.4	133.1	173.67	153.385	0.08	0.13	0.11	2.6	2.6	3.01847	4.1205	3.7125	2.6	1	1	2	2	1	173.67	0.13	35.2
2002942	0.4	0.5	128.84	120.07	124.455	0.09	0.12	0.1	2.6	2.6	3.43022	4.1205	3.7125	2.6	1	1	2	2	1	128.84	0.12	36.9
2002943	0.5	0.6	156.34	123.19	139.765	0.13	0.18	0.15	2.6	2.6	3.203724	4.238145	3.956625	2.6	0.69	0.69	2	2	1	156.34	0.18	35.2
2002944	0.6	0.7	125.9	145.94	135.92	0.1	0.17	0.14	2.6	2.6	3.25875	4.5	4.5	2.6	0	0	2	2	1	145.94	0.17	36.9
2002945	0.7	0.8	140.75	179.6	160.175	0.1	0.14	0.12	2.6	2.6	2.931518	4.5	4.5	2.6	0	0	2	2	2	179.6	0.14	38.6
2002946	0.8	0.9	163.45	171.78	167.615	0.32	0.29	0.31	2.6	2.6	2.84015	4.5	4.5	2.6	0	0	2	2	2	171.78	0.32	36.9
2002947	0.9	1	151.58	173.95	162.765	0.24	0.17	0.2	2.6	2.6	2.899256	4.44687	4.376625	2.6	0.19	0.09	2	2	2	173.95	0.24	33.5
2002948	1	1.1	126.83	113.93	120.38	0.12	0.11	0.12	2.6	2.6	3.49387	4.5	4.5	2.6	0	0	1.53	1.53	1	126.83	0.12	36.9
2002949	1.1	1.2	108.99	101.91	105.45	0.08	0.12	0.1	4.015395	4.5	4.015395	4.5	4.5	4.5	0	0	0.78	0.78	1	108.99	0.12	37.7
2002950	1.2	1.3	104.08	131.01	117.545	0.11	0.16	0.13	3.583951	4.5	3.583951	4.5	4.5	4.5	0	0	0.83	0.83	1	131.01	0.16	37.7
2002951	1.3	1.4	76.24	92.47	84.355	0.2	0.29	0.25	2.6	2.6	4.69947	4.5	4.5	2.6	0	0	1.98	1.98	1	92.47	0.29	36
2002952	1.4	1.5	107.3	114.37	110.835	0.15	0.16	0.16	2.8	2.8	3.821175	4.5	4.5	2.8	0	0	1.1	1.1	1	114.37	0.16	36.9
2002953	1.5	1.6	104.15	107.61	105.88	0.06	0.06	0.06	3.999872	4.5	3.999872	4.5	4.5	4.5	0	0	0	0	1	107.61	0.06	39.4
2002954	1.6	1.7	84.36	93.54	88.95	0.08	0.07	0.07	4.5	4.5	4.573387	4.5	4.5	4.5	0	0	0	0	1	93.54	0.08	36.9
2002955	1.7	1.8	116.23	118.91	117.57	0.07	0.07	0.07	3.583085	4.5	3.583085	4.5	4.5	4.5	0	0	0	0	1	118.91	0.07	36.9
2002956	1.8	1.9	156.58	188.9	172.74	0.2	0.18	0.19	2.780372	3.956625	2.780372	4.238145	3.956625	4.5	0.69	0.69	0.28	0.28	1	188.9	0.2	36.9
2002957	1.9	2	158.67	189.91	174.29	0.16	0.18	0.17	2.6	2.6	2.763139	4.5	4.5	2.6	0	0	1.88	1.88	1	189.91	0.18	36
2002958	2	2.1	95.64	116.86	106.25	0.13	0.15	0.14	2.6	2.6	3.986511	4.5	4.5	2.6	0	0	2	2	1	116.86	0.15	37.7
2002959	2.1	2.2	218.96	170.01	194.485	0.23	0.21	0.22	2.5	2.5	2.550176	4.5	4.5	2.5	0	0	2.58	2.58	1	218.96	0.23	38.6
2002960	2.2	2.3	177.89	174.44	176.165	0.16	0.12	0.14	2.6	2.6	2.742469	4.5	4.5	2.6	0	0	1.63	1.63	1	177.89	0.16	36.9
2002961	2.3	2.4	112.16	150.18	131.17	0.15	0.11	0.13	2.8	2.8	3.328436	4.5	4.5	2.8	0	0	1	1	1	150.18	0.15	35.2
2002962	2.4	2.5	178.11	191.74	184.925	0.14	0.12	0.13	2.648383	2.8	2.648383	4.5	4.5	2.8	0	0	1.06	1.06	1	191.74	0.14	36
2002963	2.5	2.6	298.43	244.56	271.495	0.25	0.19	0.22	2.137325	2.6	2.137325	4.5	4.5	2.6	0	0	2	2	1	298.43	0.25	36.9
2002964	2.6	2.668	195.34	263.12	229.23	0.3	0.25	0.28	2.271139	2.6	2.271139	4.5	4.5	2.6	0	0	2	2	1	263.12	0.3	37.7

SUMMARY: The majority of the roadway is Crack Sealed with some areas exhibiting Light Severity and Light Extent Longitudinal Cracking. The INDEX\_PSI is the overall indicator of Roadway Condition. The average condition of the roadway is in "FAIR" to "GOOD" condition.

INDEX\_PSI Based on a 0-5 scale with "Excellent" ranging from 5.0-3.5, "Good" ranging from 3.5-2.8, "Fair" ranging from 2.8-2.3, and "Poor" ranging from 2.3-0.0





















# Thank You!

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