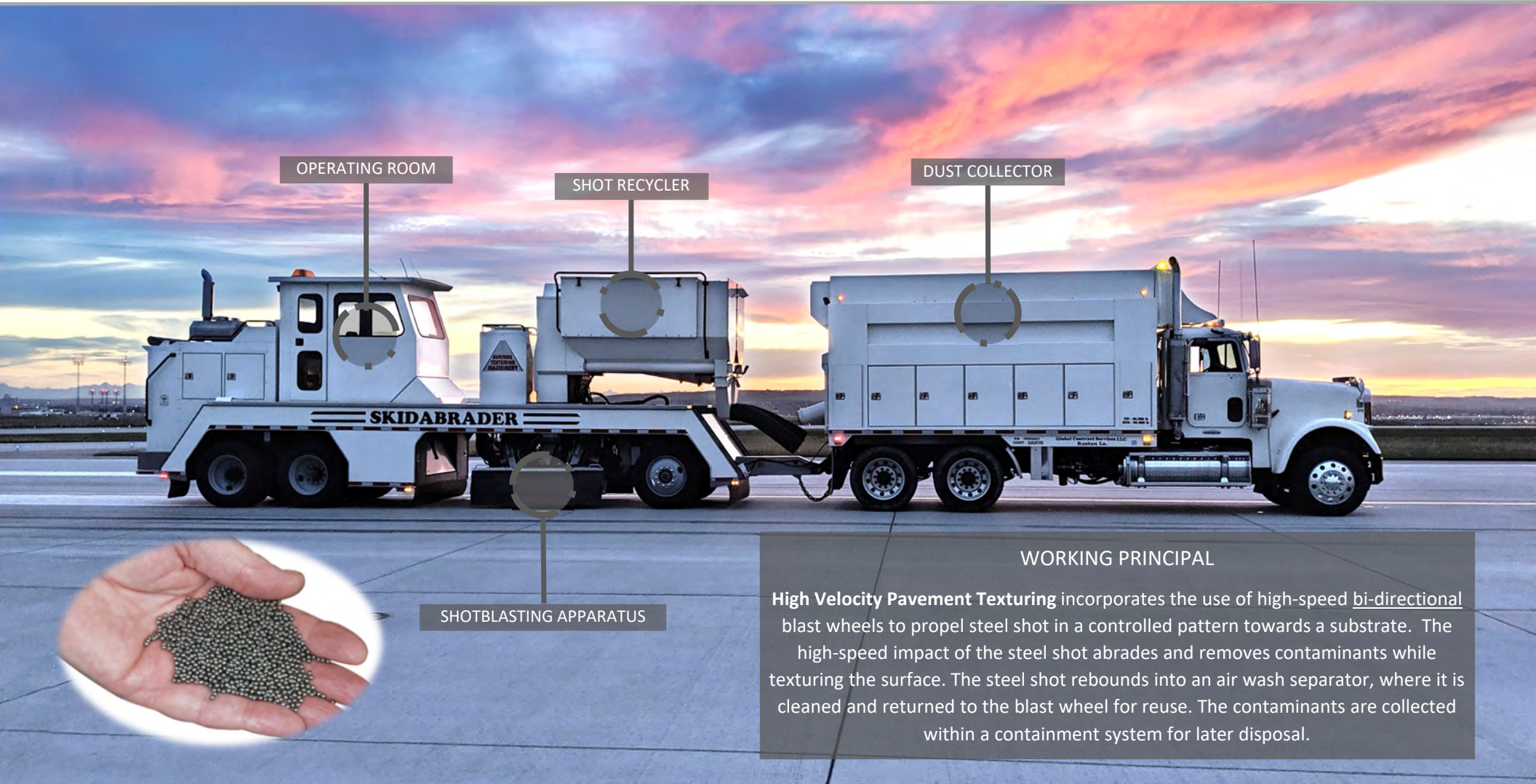




SKIDABRADER
PAVEMENT TEXTURING TECHNOLOGY



OPERATING ROOM

SHOT RECYCLER

DUST COLLECTOR

SHOTBLASTING APPARATUS

WORKING PRINCIPAL

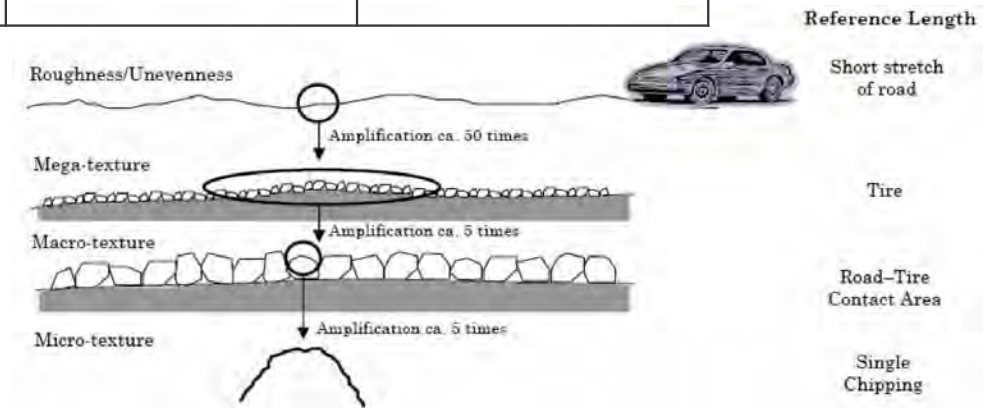
High Velocity Pavement Texturing incorporates the use of high-speed bi-directional blast wheels to propel steel shot in a controlled pattern towards a substrate. The high-speed impact of the steel shot abrades and removes contaminants while texturing the surface. The steel shot rebounds into an air wash separator, where it is cleaned and returned to the blast wheel for reuse. The contaminants are collected within a containment system for later disposal.





Factors Influencing Pavement Surface Friction

Pavement Surface Characteristics	Vehicle Operating Parameters	Tire Properties	Environment
<ul style="list-style-type: none"> • Micro-Texture • Macro-Texture • Mega-Texture • Roughness/Unevenness • Material Properties • Temperature 	<ul style="list-style-type: none"> • Slip Speed <ul style="list-style-type: none"> ➢ Vehicle Speed ➢ Braking Action • Driving Maneuver <ul style="list-style-type: none"> ➢ Turning ➢ Overtaking 	<ul style="list-style-type: none"> • Foot Print • Tread Design • Tread Condition • Rubber Composition and Hardness • Inflation Pressure • Load • Temperature 	<ul style="list-style-type: none"> • Climate <ul style="list-style-type: none"> ➢ Wind ➢ Temperature ➢ Water (Rainfall, Condensation) ➢ Snow and Ice • Contaminants <ul style="list-style-type: none"> ➢ Anti-Skid Material ➢ Dirt, Mud, Debris



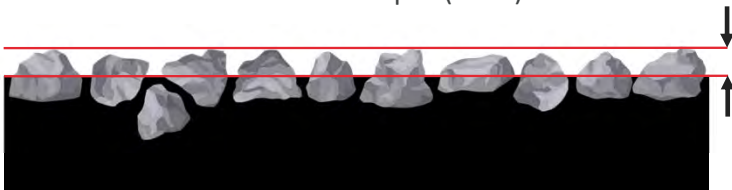
Factors Affecting Pavement Surface Texture

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Dvskdow	P d{p xp #Djjuhjdwh# G lp hqvlrqv		[
	Frdwh#Djjuhjdwh#W shv	[[
	Ibqh#Djjuhjdwh#W shv		[
	P l{#Judgdwlrq		[
	P l{#Dl#Frqwhqw		[
	P l{#Elqghu		[
Frqfuhwh	Frdwh#Djjuhjdwh#W sh	[+iru#(srvhg#djj#SFF,	[+iru#(srvhg#djj#SFF,
	Ibqh#Djjuhjdwh#W sh	[
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	Wh{wxuh#G lp hqvlrqv#lqg# Vsdflqj		[
	Wh{wxuh#R ulhqwdwlrq		[
	Wh{wxuh#Vnhz		[

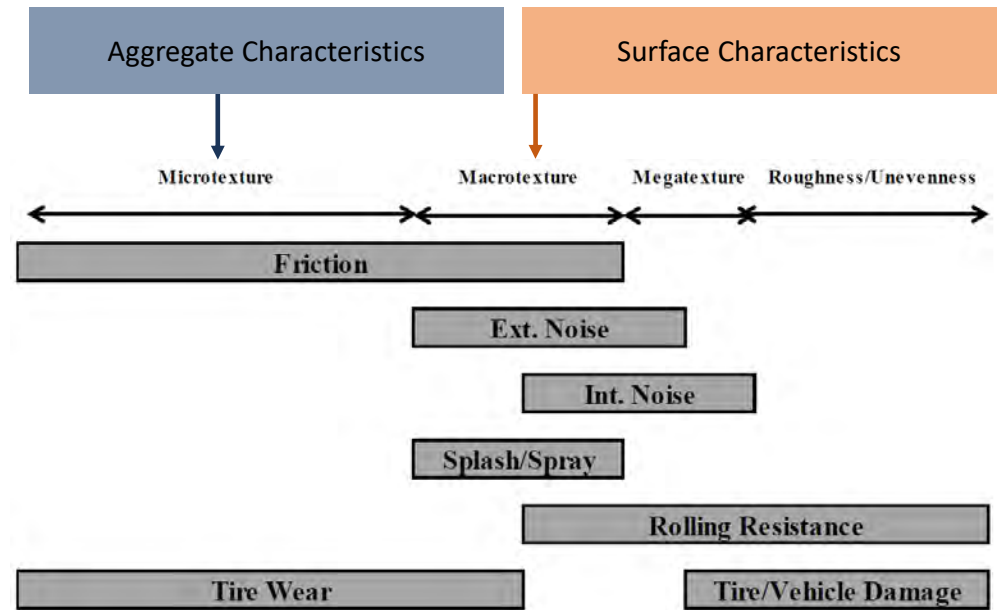
MACROTEXTURE

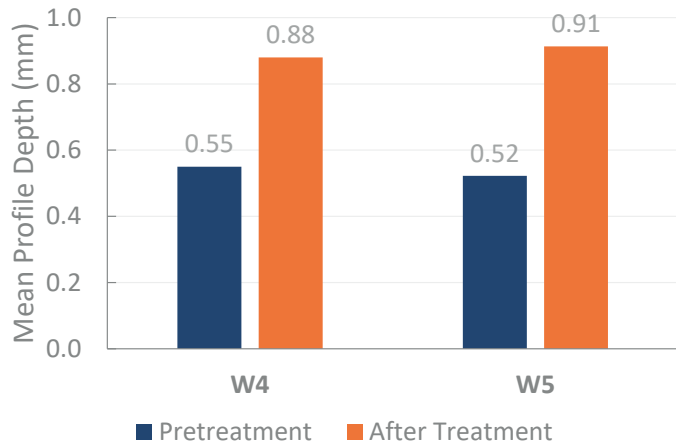
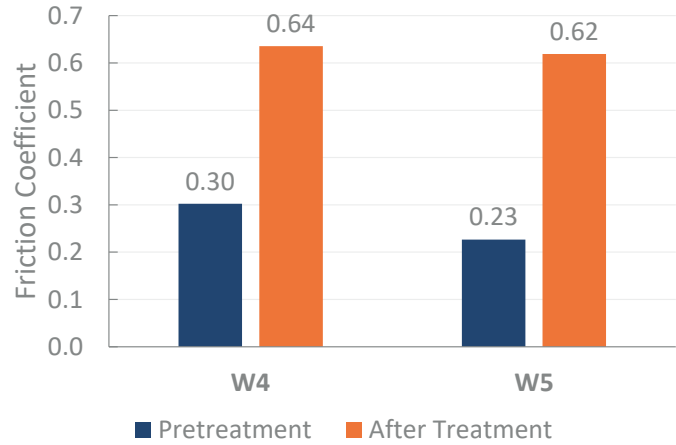


Mean Profile Depth (MPD)

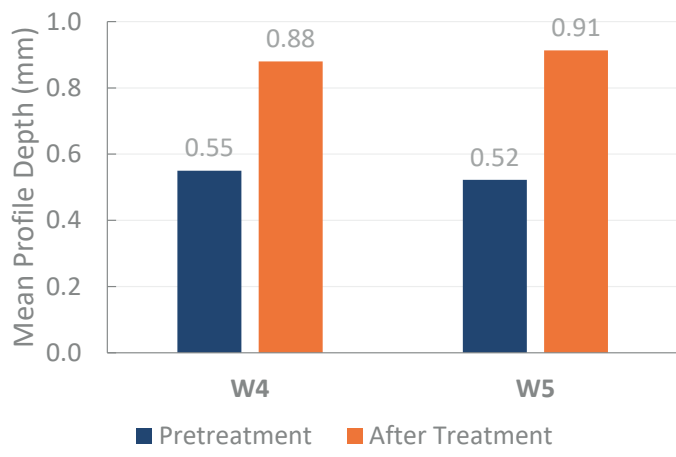
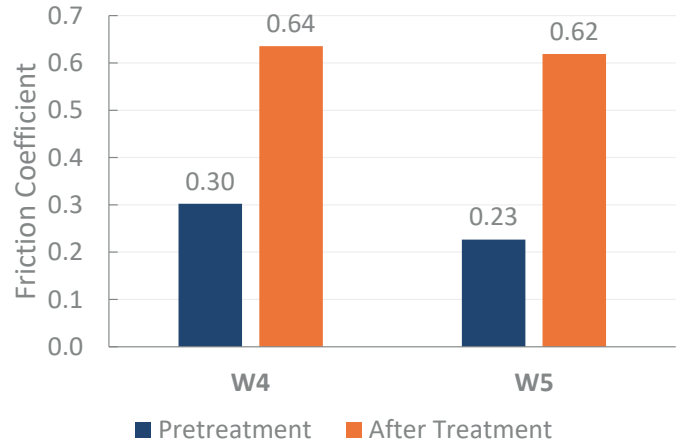


KEY PAVEMENT CHARACTERISTICS



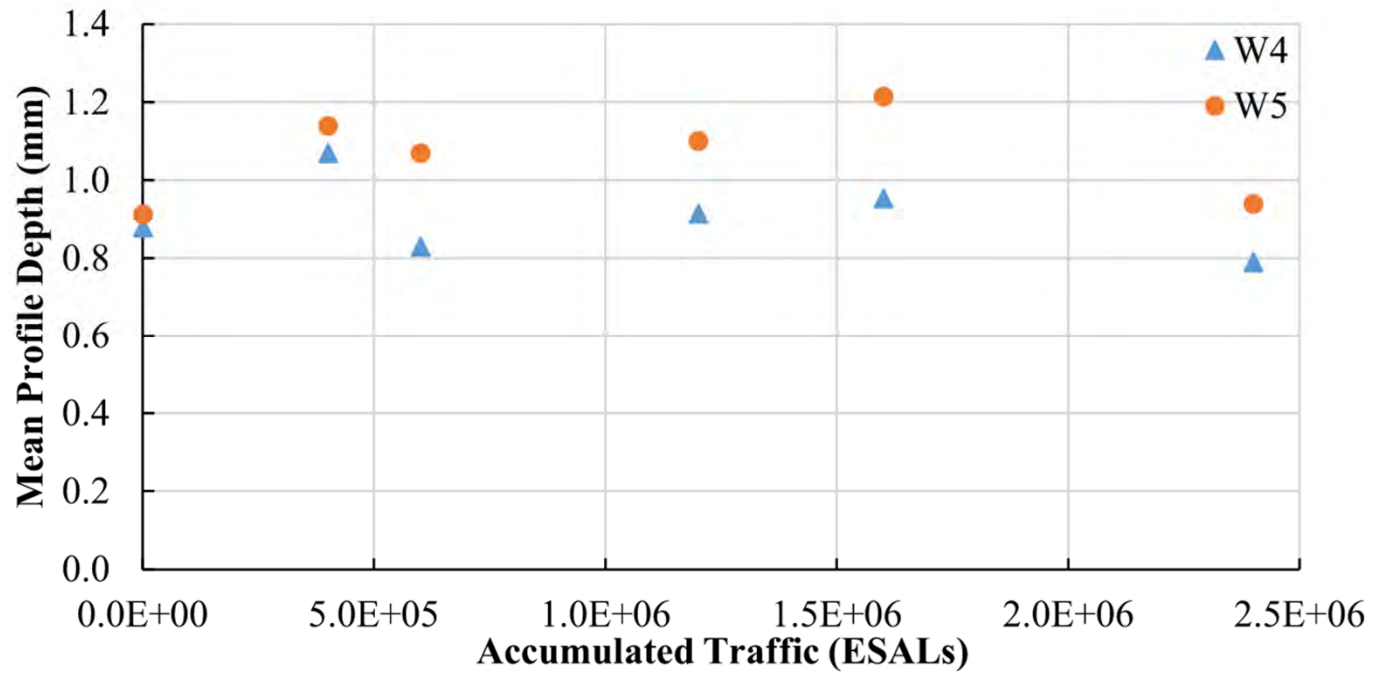


Q–fijn–C a–E j a). n i #nfis–fi–fl–ua) #Snju i E j–t–3–f–v–af–v–v–E sTf–M t B Efn
9 v u } M E j h a i j } t t f n t a n f l v i } f l k u a } B v .+ f n d . a f n Q + 1 – ~ ~ E



Q–fijn–C a–E } a } . n i n f i s f i f l k u a } t S n j u i e j e t –h w n a f i v y % e s T f l m t B e f n 9 v t u } M E } f h a i } n % t t f n t a n f l v i % f l k u a } t B v . + f n o . a f n Q + 1 – ~ ~ ' E

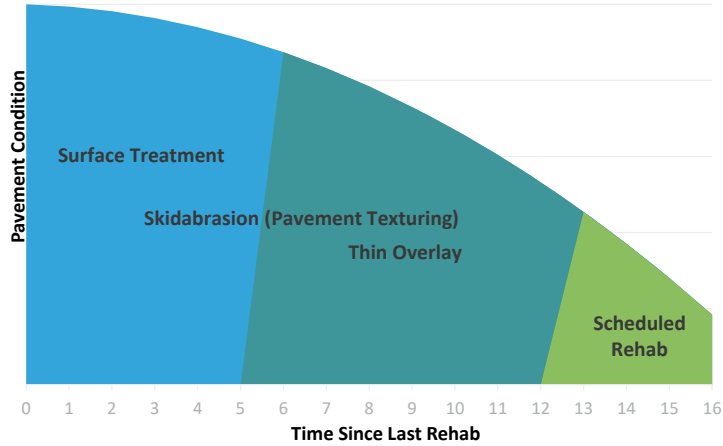
Influence of Traffic Polishing on Macrotexture of **Textured** Pavement Sections



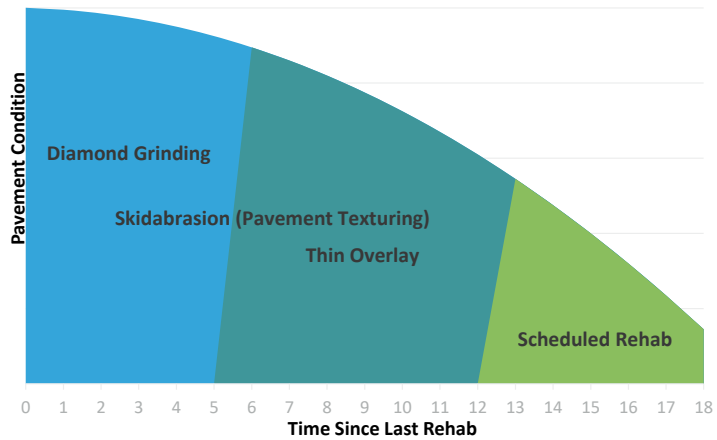
██████████ - Surface Abrasion Treatment - Friction Data

Lane	Latitude		DFT @ 20kms/hr		DFT @ 40kms/hr		DFT @ 60kms/hr		CTM Mean Profile Depth (mm)		Outflow Meter Outflow Time (Sec)		Remark
	Latitude	Longitude	Before Abrasion	After Abrasion	Before Abrasion	After Abrasion	Before Abrasion	After Abrasion	Before Abrasion	After Abrasion	Before Abrasion	After Abrasion	
L1-1	██████████	██████████	0.50	0.72	0.46	0.66	0.43	0.65	0.97	1.38	10.76	5.35	Fast Lane (L1) Near ██████████
L1-2	██████████	██████████	0.47	0.71	0.43	0.66	0.42	0.64	0.97	1.57	9.58	5.59	Fast Lane (L1) Near ██████████
L3-1	██████████	██████████	0.48	0.69	0.41	0.65	0.37	0.61	0.52	1.01	12.81	6.4	Lane 3 (L3) Near ██████████
L4-1	██████████	██████████	0.45	0.6	0.43	0.57	0.39	0.55	0.67	0.86	12.68	6.92	Lane 4 (L4) Near ██████████
	L1-1	% Increase	0.44		0.434783		0.511628		0.42268		-0.50279		
	L1-2	% Increase	0.510638		0.534884		0.52381		0.618557		-0.41649		
	L3-1	% Increase	0.4375		0.585366		0.648649		0.942308		-0.50039		
	L4-1	% Increase	0.333333		0.325581		0.410256		0.283582		-0.45426		
		Average	0.43		0.47		0.52		0.57		-0.47		

Suggested Rehab Methods for Flexible & Composite Pavements



Suggested Rehab Methods for Rigid Pavements




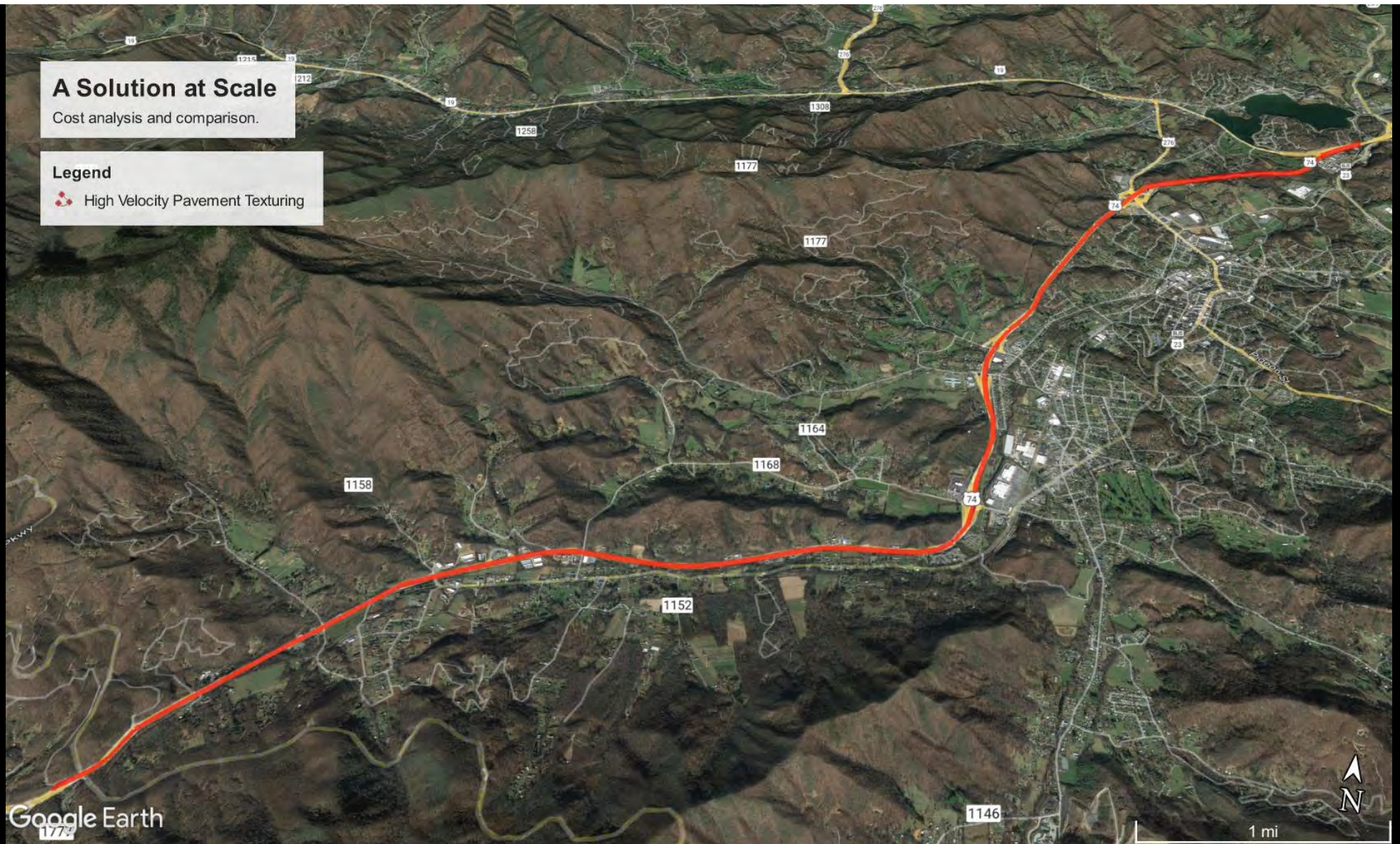
	Pavement Texturing	Diamond Grind
Price Per Square Yard	\$2.50-\$3.50	\$5.00-7.00
Daily Production Per Machine	20,000 SY	3,000 SY
Asphalt	X	X
Concrete	X	X
Structurally Sound Pavement	X	X
No Excessive Pavement Distress	X	X
Microtexture	X	
Macrotexture	X	
IRI		X
Static Closure	X	X
Mobile Closure	X	
Emergency Response	X	
Affects Lane Markers		X

A Solution at Scale

Cost analysis and comparison.

Legend



 High Velocity Pavement Texturing

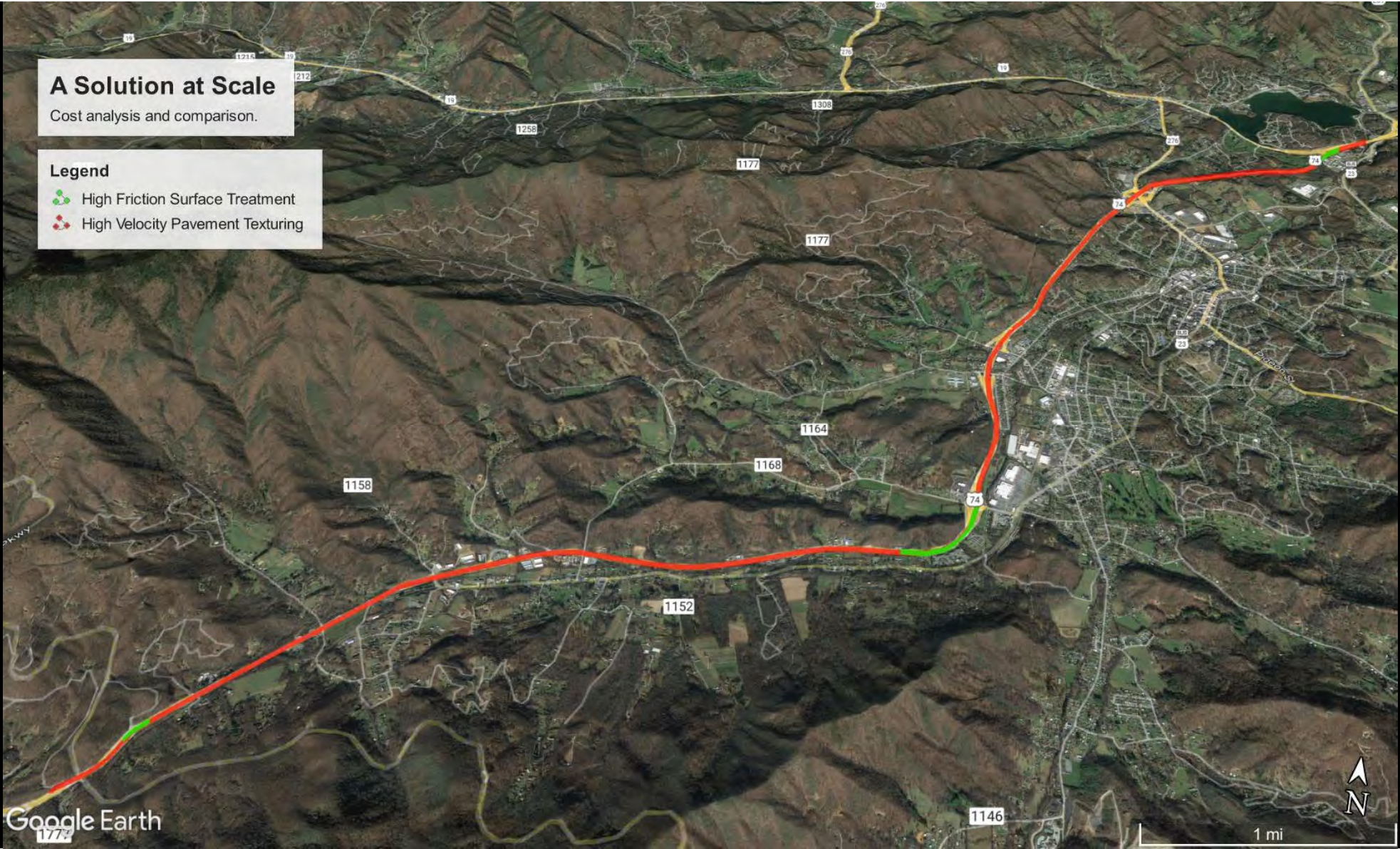


A Solution at Scale

Cost analysis and comparison.

Legend

-  High Friction Surface Treatment
-  High Velocity Pavement Texturing





CONCRETE OR ASPHALT SURFACES



RAMP BRIDGE DECK



SHOULDER TEXTURING & THERMO REMOVAL





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