National Pavement Preservation Study (Northern Test Sections)

Minnesota DOT Road Research Project (MnROAD)

National Center for Asphalt Technology (NCAT)

US-169 NB Lane

CSAH-8 EB and WB Lanes

5 miles South of Milaca - Just East of Pease - Mille Lacs County

1/10 mille Test Sections

N

City of Milaca ---> (4 miles North)

MP 188

City of Pease

MP 187

MP 186

MP 185.3

28	Control	
27	Thinlay Overlay (ABR over Chip Seal (FA 2.5))	
26	Thinlay Overlay (ABR)	
25	Thinlay Overlay (HiMA)	
24	Ultra Thin Bonded Wearing Coarse	
23	Thinlay Overlay (Virgin)	
22	Thinlay Overlay (ABR with Delta S)	starts 1/2 mile from US-169
CSAH - 8 (WB)		
CSAH - 8 (EB)		
21	Control	
20	Control - Low IRI	
19	Conventional Fog Seal	
18	Control	
17	Rejuvenating Fog Seal	
16	Control	
15	Control	
14	Control	
13	Scrub Seal (FA 2.5)	
12	Microsurfacing (Type II) over Scrub Seal (FA 2.5)	
11	Microsurfacing (Type II) over Fibermat Chip Seal (FA 2.5)	
10	Fibermat Chip Seal (FA 2.5)	
9	Double Microsurfacing (Type II over Type II)	
8	Microsurfacing (Type II with fibers))	
7	Microsurfacing (Type II) over Crack Seal/Longitudinal Mastic	
6	Microsurfacing (Type-II) over Single Chip Seal (FA 2.5) Triple	
5	Chip Seal (FA 2 over FA 2.5 over CA-50/70)	
4	Double Chip Seal (FA 2 over FA 2.5)	
3	Single Chip Seal (FA 2.5)	
2	Single Chip Seal (FA2.5) over Crack Seal/Longitudinal Mastic	
1	Crack Seal / Longitudinal Mastic	
0	Control - High IRI	

Passing

Driving

US-169 Northbound

31	Open	
30	Crack Seal / Transverse Mastic	
29	Single Chip Seal (FA2.5) over Crack Seal / Transverse Mastic	
28	Single Chip Seal (FA 2.5)	
27	Microsurfacing (Type-III) over Single Chip Seal (FA 2.5)	
26	Double Chip Seal (FA 2 over FA 2.5)	
25	Triple Chip Seal (FA 2 over FA 2.5 over CA-70)	
24	Fibermat Chip Seal (FA 2.5)	
23	Microsurfacing (Type III) over Fibermat Chip Seal (FA 2.5)	
22	Microsurfacing (Type III) over Scrub Seal (FA 2.5)	
21	Scrub Seal (FA2.5)	
20	Microsurfacing (Type II) over crack seal and Transverse Mastic	
19	Microsurfacing (Type II)	
18	Double Microsurfacing (Type II over Type II)	
17	Conventional Fog Seal with black diamond dust	
16	Rejuvenating Fog Seal with black diamond dust	
15	Thinlay Overlay (ABR over fibermat (FA 2.5))	
14	Thinlay Overlay (ABR over Scrub Seal (FA 2.5))	
13	Thinlay Overlay (ABR over Chip Seal (FA 2.5))	
12	Control	
11	Control	
10	Control	
9	Thinlay Overlay (4.75 mm with RAP and RAS)	
8	Thinlay Overlay (4.75 mm)	
7	Control	
6	Thinlay Overlay (4.75 mm with RAP and RAS) Delta S	
5	Ultra Thin Bonded Wearing Coarse	
4	Control	
3	Control	
2	Control	
1	Control	

CSAH-8

Layers: 7" HMA; 6" Granular Base; Sand and Gravel Subgrade

Traffic: 700 ADT 2-way

Last Constructed - 2005

Treatments - August 2016

Not to Scale

Each Section 528 feet long

Section Numbering
169000
169001
so on

8001
8002
so on

US-169

Layers: 6.5" HMA; 17" Granular Base; Sand Gravel Subgrade

Traffic: 16,000 ADT 2-way

2009 2" Mill and 4" Overlay

Treatments - August 2016

ABR - Asphalt Binder Replacement

Updated 4/22/2019

R:\MnROAD\Data-Collection\Cell Maps\Cell Map Pavement Preservation (August 2016).xlsx