

Update – Spring review of Pavement Preservation Sections and Photos

E. Johnson 3/31/20

High Volume US 169:

Latest Pavia Headlight photos were taken Feb 28, 2020.

The spring distress review has not been started and is on hold. Tentative date of review will coincide with MnDOT's return from telecommute work status.

Low Volume CSAH8:

Complete set of photos was taken February 28, 2020 using Pavia Headlight.

Twenty test sections were reviewed for distress between March 3 and March 27, 2020. Photos of selected distresses were obtained with Pavia Headlight and another lower resolution camera.

Section, Date, and Comments

8001-8006 3/3/2020

- Shallow potholes.
- Moisture moving through surface treatments.
- Transverse cracking extends through pavement and embankment.

8007-8010 3/17/2020

- Remark cell limits on CSAH 8.
- Flushed appearance continues to develop in wheel paths of Double and Triple chip seals.

8011-8018, 8023, 8024 3/27/2020

1. Crack sealant failures observed on Cell 8011. Photos are below.
2. Increased fatigue and standing water in wheel track (especially rejuvenator fog section).
3. Moisture moving through surface treatments.
4. Longitudinal cracking extended.
5. Longitudinal cracks also observed in the embankment at 1 – 3 ft outside the edge of pavement (settling of winter heave?).
6. Increased severity of edge cracking in eastbound Thinlays. This road receives traffic from several farms and equipment frequently travels with one wheel on the shoulder. Breakup has caused loss of material in an area, and may be a future maintenance concern.

Ten sections have not been reviewed yet. Tentative date of review will coincide with MnDOT's return from telecommute work status.

- 8028, 8029 (UTBWC, 4.75mm Thinlay with RAP and Delta-S)
- 8019-8022, 8025-8027, 8030, 8031 (Control Sections)



Figure 1 CSAH 8 chip seal section with transverse crack through embankment 2/28/20.



Figure 2 Cell 8011. Crack seal adhesion failure 3/27/20.



Figure 3 Cell 8011. Crack seal adhesion failure closeup 3/27/20.



Figure 4 Cell 8011. Crack seal adhesion failure and loss 3/27/20.



Figure 5 Cell 8011. Crack seal adhesion failure and loss 3/27/20.



Figure 6 Cell 8011. Crack seal adhesion failure and loss closeup 3/27/20.



Figure 7 CSAH 8 Thinlay EB. Edge cracking 3/27/20.



Figure 8 CSAH 8 Thinlay EB. Edge cracking and breakup 3/27/20.



Figure 9 CSAH 8. Longitudinal cracking in wheel path and embankment at 3ft outside of edge 3/27/20.