

NCHRP 20-44(26) Demo Project Ottawa County Road Commission (MI) Chip & Fog Seal

Project Overview

Ironwood Dr. is a rural county primary road with an ADT of 100 to 200 near Coopersville, MI. An approximately 1 mile section from 48th Avenue to 40th Avenue totaling 12,320 square yards was completed. Minor crack sealing was completed 5 days prior to the trial. Very little crack sealing was required in the lanes and most of the center line joint was crack sealed.



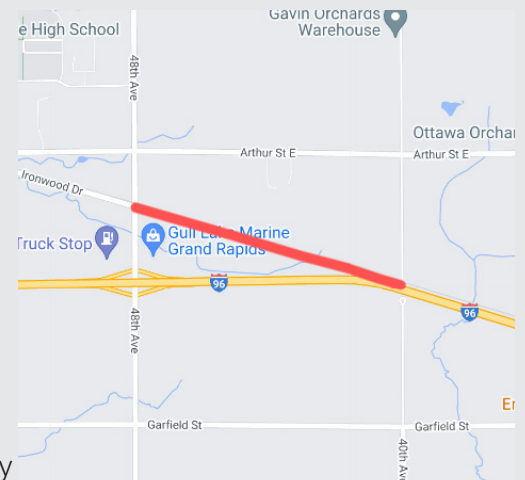
This section of roadway received a two course; 3" total; overlay in 2017. The agency has recently rated the section with a PASER rating of 7. Comparing it to data and pictures from RoadResource.org I rate the road as an A-/B or in number 85.

The West Bound lane was chosen as the Michigan Specification Section and was applied first. The East Bound Lane was chosen as the AASHTO ETF section and was applied second. The fog seal was applied in mid afternoon after brooming and released to traffic in less than 45 minutes.

Trial went very well and completed with a great application of chip and fog seal. Michigan specifications meet or exceed the AASHTO ETF Chip Seal Material Specifications and plenty of study material is available on the DOT and local agency level. Michigan's reputable contractors also meet or exceed best practices and the Construction Guidelines that the AASHTO ETF developed. Therefore; we could note that Michigan state and many local agencies are already using the specification.

Project Details At-a-Glance

Agency:	Ottawa County Road Commission
Route/Location:	Ironwood Dr. from 48th Ave to 40th Ave. in Coopersville, MI
Area/Length:	12,320 SY
Pre-Condition:	PASER rating of 7
Completion Date:	June 2020
Materials:	CRS-2M (emulsion) - Michigan Lane CRS-2L (emulsion) - AASHTO Lane 34 CS Blast Furnace Slag (aggregate)
Application Rates:	0.40 gal/SY (emulsion), 18 lb/SY (aggregate)
Weather:	62°F - 94°F, 38% - 73% humidity, mostly sunny





Pre-construction condition



Pre-construction condition



Chip completed on one half of the roadway



Rolling of chip sealed surface



Completed chip seal prior to fog seal



Completed surface following fog seal