

NCHRP 20-44(26) Demo Project Rankin County Microsurfacing

Project Overview

This Rankin County, MS project involved the application of a micro surfacing treatment for 30 miles on various streets in Rankin County, Mississippi. The pavements were all 2 lanes in each direction with a range in ADT of 100-500 vehicles per day. These were all residential streets. The previous surface was a hot mix asphalt road and was in fair condition. There was some minor cracking on these roads that were not addressed before the placement of the micro surfacing.

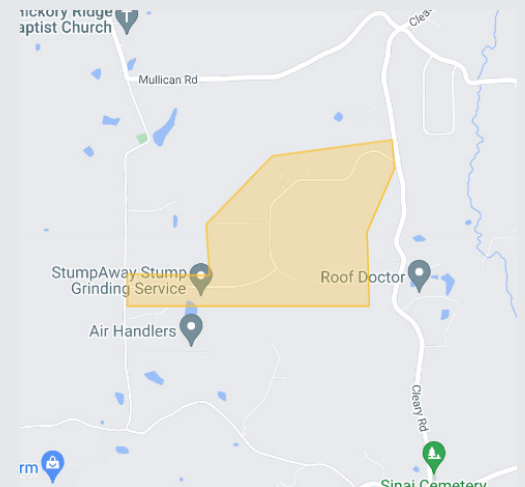


The specification for the micro surfacing project was developed by modifying the existing Rankin County micro surfacing specification and inserting some of the elements of the AASHTO micro surfacing specification. Some of the AASHTO elements that were included were: updated material requirements, updated mix design tests, a preconstruction meeting, and a quality control section. The general contractor was T.L. Wallace Construction out of Columbia, MS.

The project scope included surface preparation, calibration of the materials, and the placement of Type II micro surfacing.

Project Details At-a-Glance

Agency:	Rankin County, MS
Route/Location:	Various Residential Roads/Florence, MS
Area/Length:	Deer Valley Subdivision in Florence, MS
Pre-Condition:	Fair Condition with some minor cracking
Completion Date:	August 2020
Materials:	CSS-1EP (emulsion) ISSA Type II (aggregate) Portland Cement (mineral filler)
Application Rates:	22 LB/SY
Weather:	87°F, 69% humidity, partly cloudy





Pre-construction condition



Pre-construction condition



Application of the first half of the roadway



Cured view of the first half of the roadway



Application of the second half of the roadway



Completed roadway