

Road Condition Report FY 2020
McNeil Rd
Williamson County, Texas

McNeil Rd is a four-lane arterial roadway in southern Williamson County providing east-west connectivity to Austin and Round Rock. Overall, the roadway runs between US 183 in Travis County and IH 35 in the City of Round Rock. The Williamson County maintains McNeil Rd from the Travis/Williamson County Line to the Round Rock City Limits, just north of SH 45. In 2018 the average traffic volume was 15,740 vehicles per day, with 5% of those vehicles being classified as heavy trucks.

McNeil Rd was reconstructed from the original two-lane road to a four-lane arterial roadway between 2004 and 2007, with Williamson County Road Bond funds. The pavement consists of a 2" surface course of hot-mixed asphaltic concrete (HMAC) on 4" of HMAC and 11" of crushed limestone base layers.

FY 20 Pavement Assessment and Condition

The distresses present are mainly observed in the wheel paths. The wheel path distresses are shallow rutting, raveling of filler fines and asphalt and isolated areas of alligator cracking. The roadway exhibits minor longitudinal cracking along the paving joints throughout the entire length. There are three areas with small groupings of patched potholes, these areas will need a more in-depth repair of the underlying base structures. If left untreated or uncorrected, these distresses will lead to further deterioration of the pavement

FY 20 Pavement Resurfacing Considerations

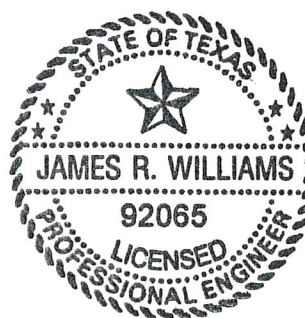
All resurfacing plans for McNeil Rd should include crack sealing, repairs to the distresses identified above and a seal coat. Review of the pavement design for McNeil Rd identifies a need for a 2" HMAC overlay after 12 to 15 years of opening to traffic. The 2" HMAC overlay adds structural capacity to the roadway and restores the serviceability to achieve the twenty year designed service life. Resurfacing McNeil Rd with a 2" HMAC overlay will provide the structural component specified in the pavement design and the preservation component necessary to bring the roadway back to a good condition.

FY 20 Pavement Preservation Recommendation

Prepare roadway by sealing large longitudinal cracks with crack sealer, removing and replacing surface HMAC in areas of alligator cracking, 8" full depth HMAC repairs of areas with potholes. Resurface McNeil Rd with an under seal and a 2" HMAC overlay.



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