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Effect of Pavement Condition on Multilane Highway Free Flow Speed

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Abstract: Multilane highways are highways with two or more lanes in each direction that are either undivided or divided by medians or two-way left turn lanes. Free flow speed (FFS) was adjusted to a non-ideal road condition in the Highway Capacity Manual (HCM) from the early 1990s.¹ The HCM methodology for multilane highway level of service (LOS) analysis depends mainly on the FFS estimation.