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16. Abstract MIOH UTC TS4p2 2008-Final This research study was designed to evaluate the performance of the SCATS system at traffic signals on a selected segment of road in Oakland County, Michigan by determining the statistical significance of the effectiveness of the SCATS system in terms of traffic flow, delay, queue length, and other selected characteristics as compared to a pre-timed signal system. The primary purpose of the SCATS system is to maximize the throughput of a roadway by controlling queue formation. The SCATS system has the ability to change the signal phasing, timing strategies, and the signal coordination within a network to alleviate congestion by automatically adjusting the signal parameters according to the real time traffic demand. This study was undertaken to quantify the long-term effectiveness of the SCATS system on traffic congestion.			
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