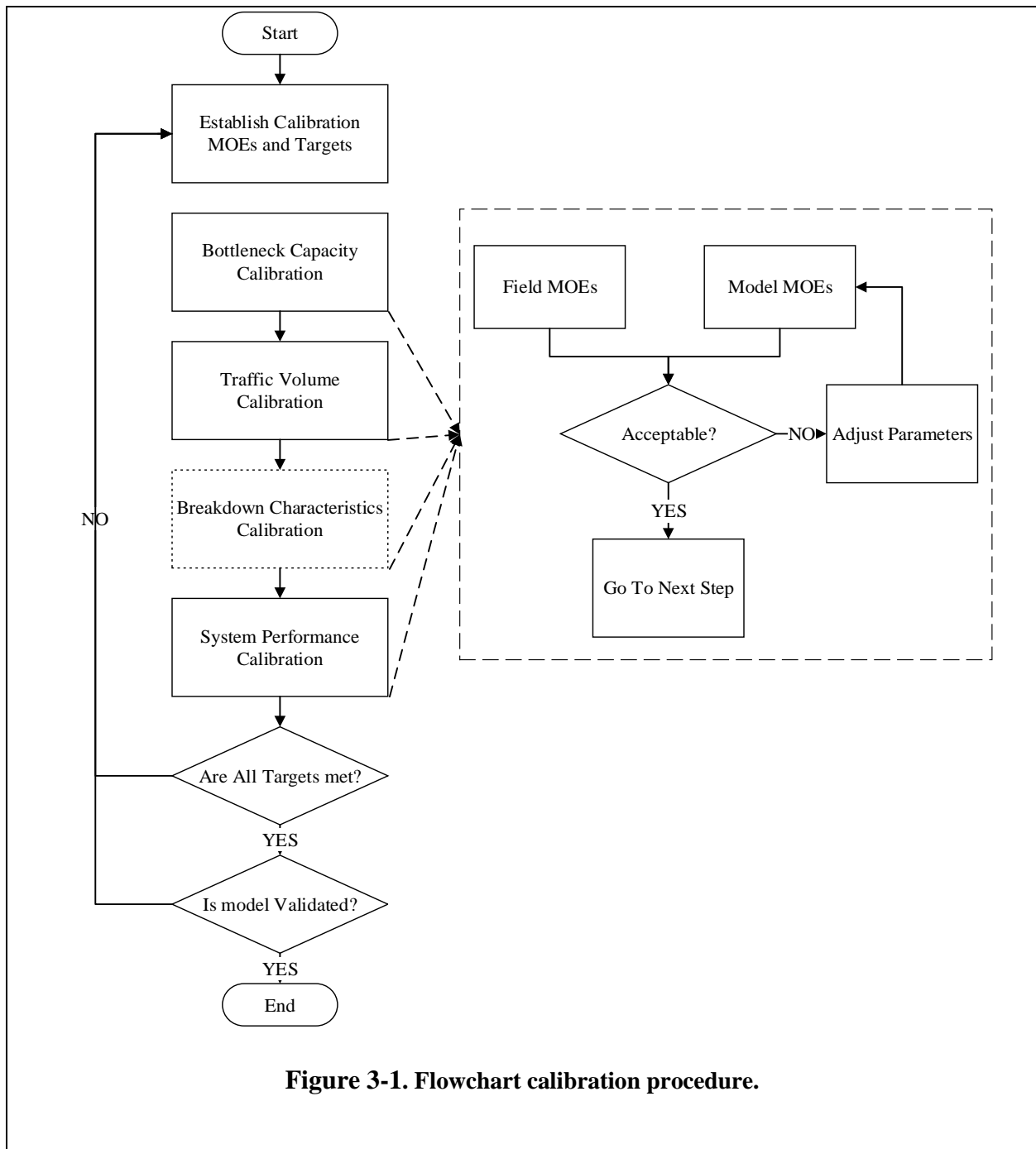
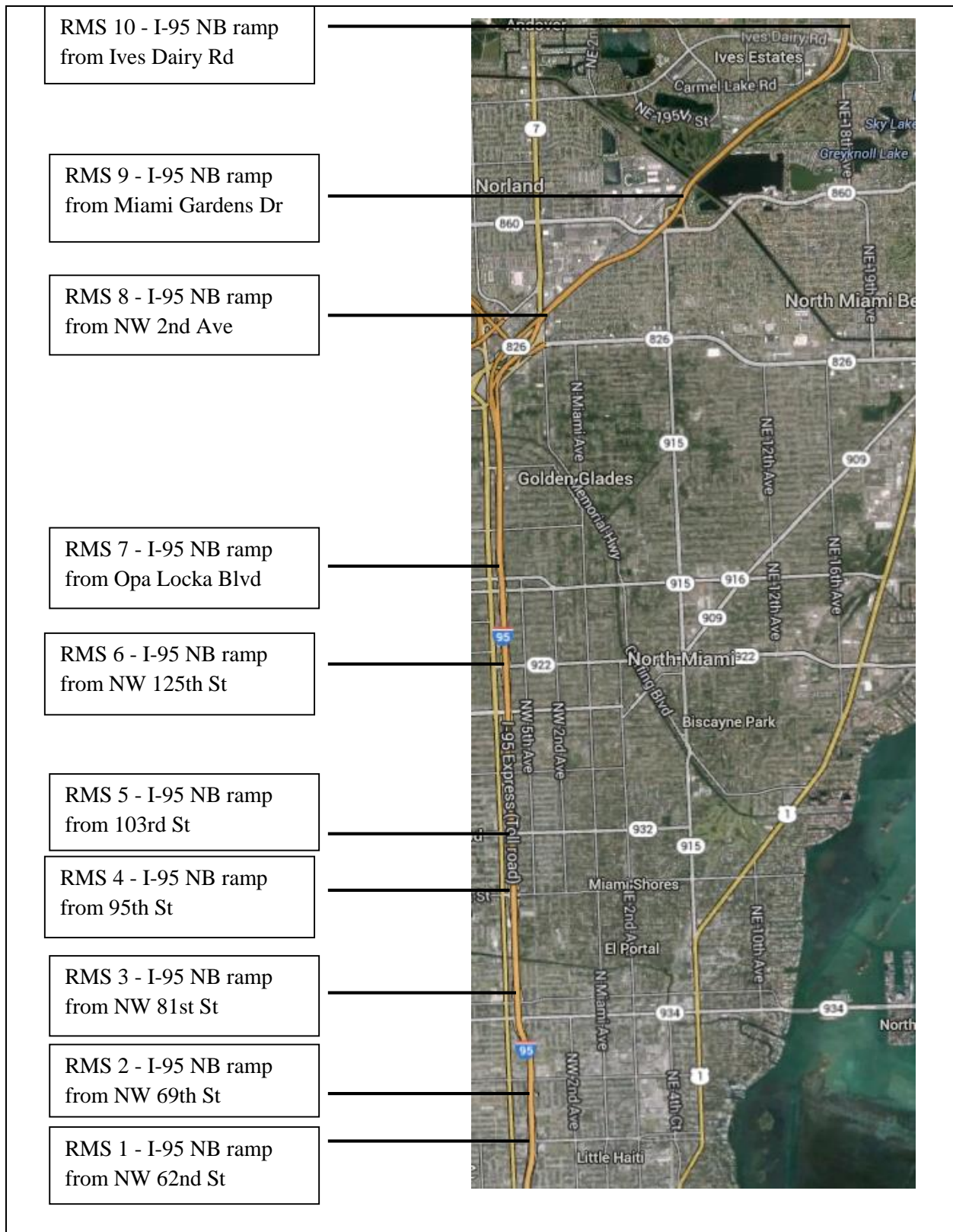


Project Title – Investigation of ATDM Strategies to Reduce the Probability of Breakdown
University – University of Florida
Principal Investigator – Mohammed Hadi, Ph.D., Florida International University
PI Contact information – 305-348-0092, <a href="mailto:hadim@fiu.edu">hadim@fiu.edu</a>
Funding Source(s) and Amounts Provided (by each agency or organization)
Total Project Cost – \$381,584
Agency ID or Contract Number – 2012-042S
Start and End Dates – 7/1/12 to 8/10/15
Brief Description of Research Project – The goal of this project is to explore and assess methods to improve the operations at critical bottlenecks utilizing optimal combinations of ramp metering and Variable Speed Limits algorithms considering their impact on the probability of breakdown. The project will also develop methods for selecting optimal settings of the parameters of these algorithms to maximize traffic operational improvements. The research will consider the effects of the utilization of combinations of mobile and infrastructure devices to support these strategies.
Describe Implementation of Research Outcomes (or why not implemented)
Place Any Photos Here



**Figure 3-1. Flowchart calibration procedure.**



**Figure 4-2. Location of ramp meters throughout the study site.**

Impact/Benefits of Implementation (actual, not anticipated)

Final Report on STRIDE Website: [http://stride.ce.ufl.edu/uploads/docs/ATDM\\_FinalReport\\_Hadi.pdf](http://stride.ce.ufl.edu/uploads/docs/ATDM_FinalReport_Hadi.pdf)

Final Report on TRB/TRID: <https://trid.trb.org/view/2015/M/1372411>