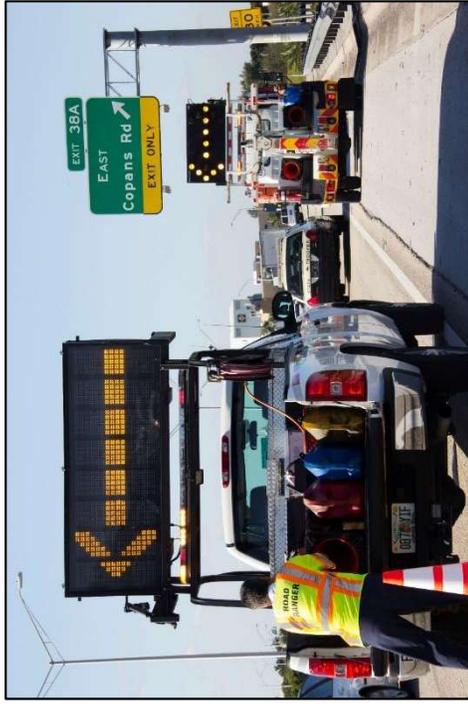


ONE
VEHICLE
PER
GREEN

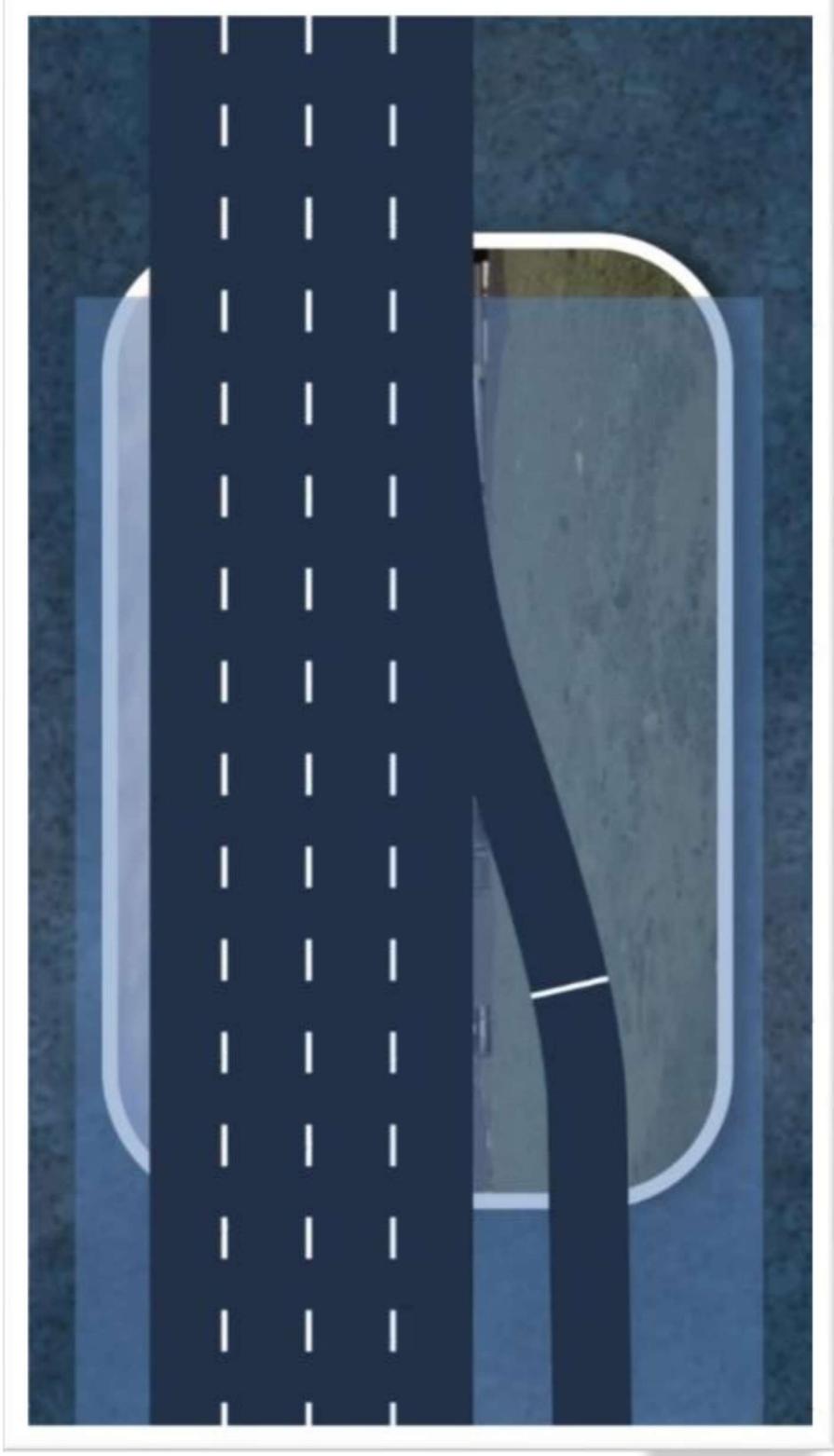
DISTRICT FOUR RAMP SIGNALING



Congestion Management Tools



Ramp Signaling: How it Works



Ramp Signals in U.S.



Source: U.S. DOT

Ramp Signaling Benefits



- Reduce crashes



- Reduce congestion



- Reduce travel time

- Helps maintain more smooth traffic flow



- Decrease fuel consumption

- Reduce vehicle emission



- Increase vehicle throughput



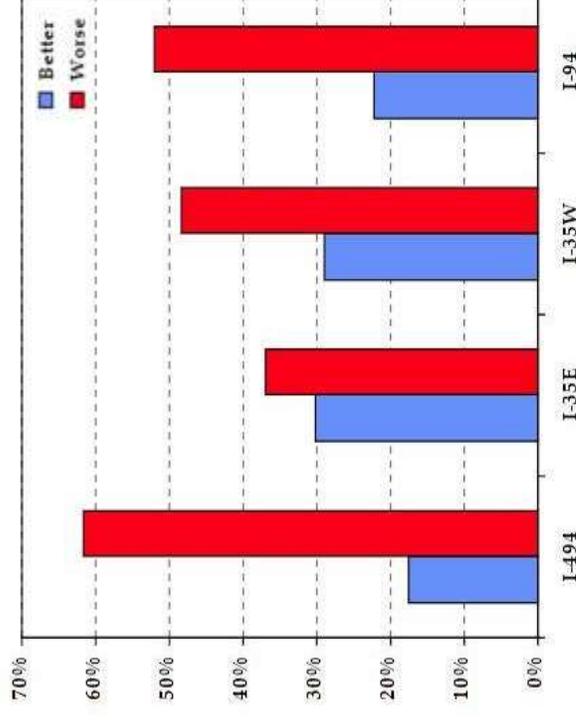
Minneapolis – St. Paul Metro Area

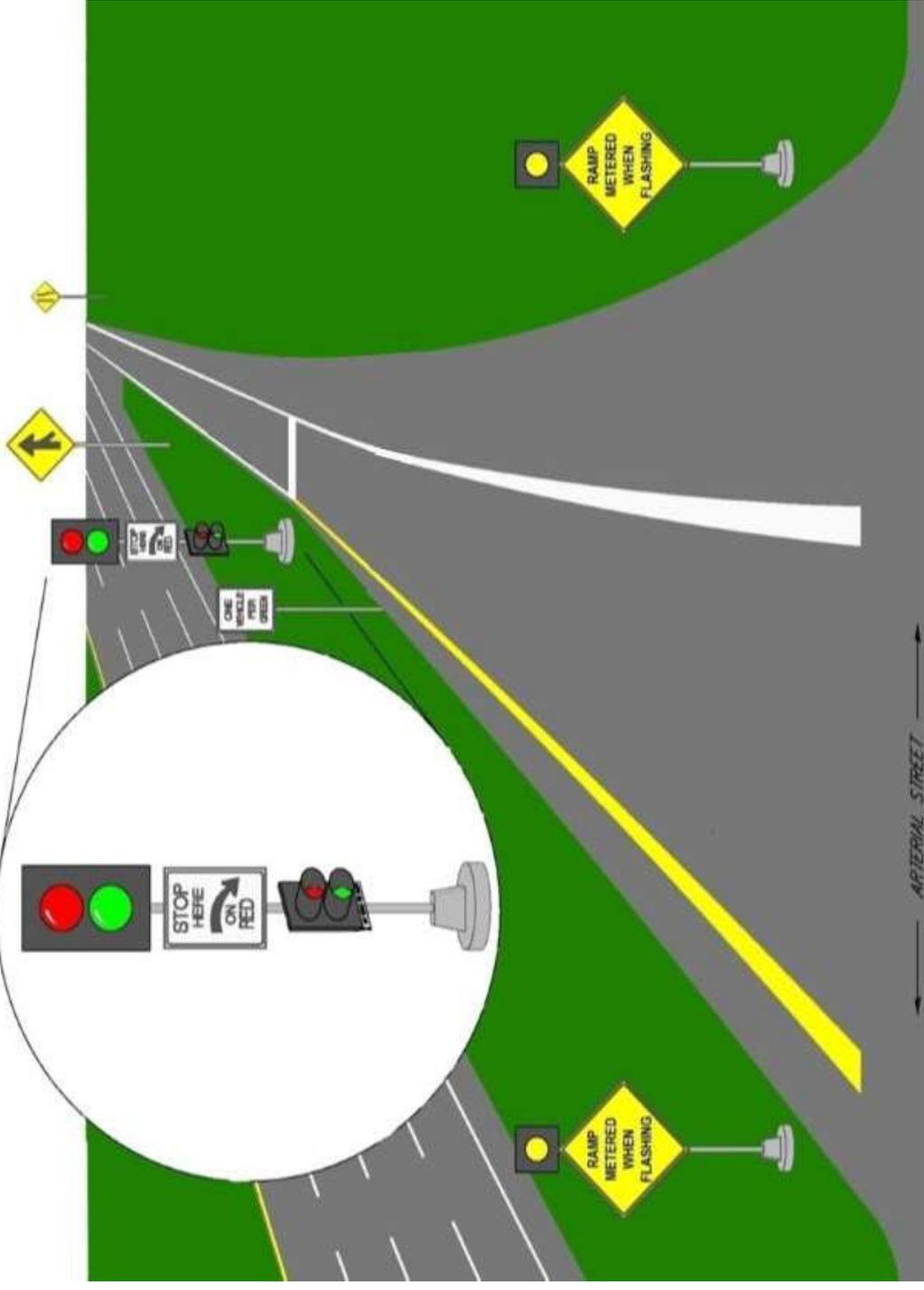
Ramp Signal Study

- Ramp signals shut down temporarily in response to dissatisfaction.
- During 5 week experiment:
 - Throughput on freeway declined 14%
 - Crashes increased 26%

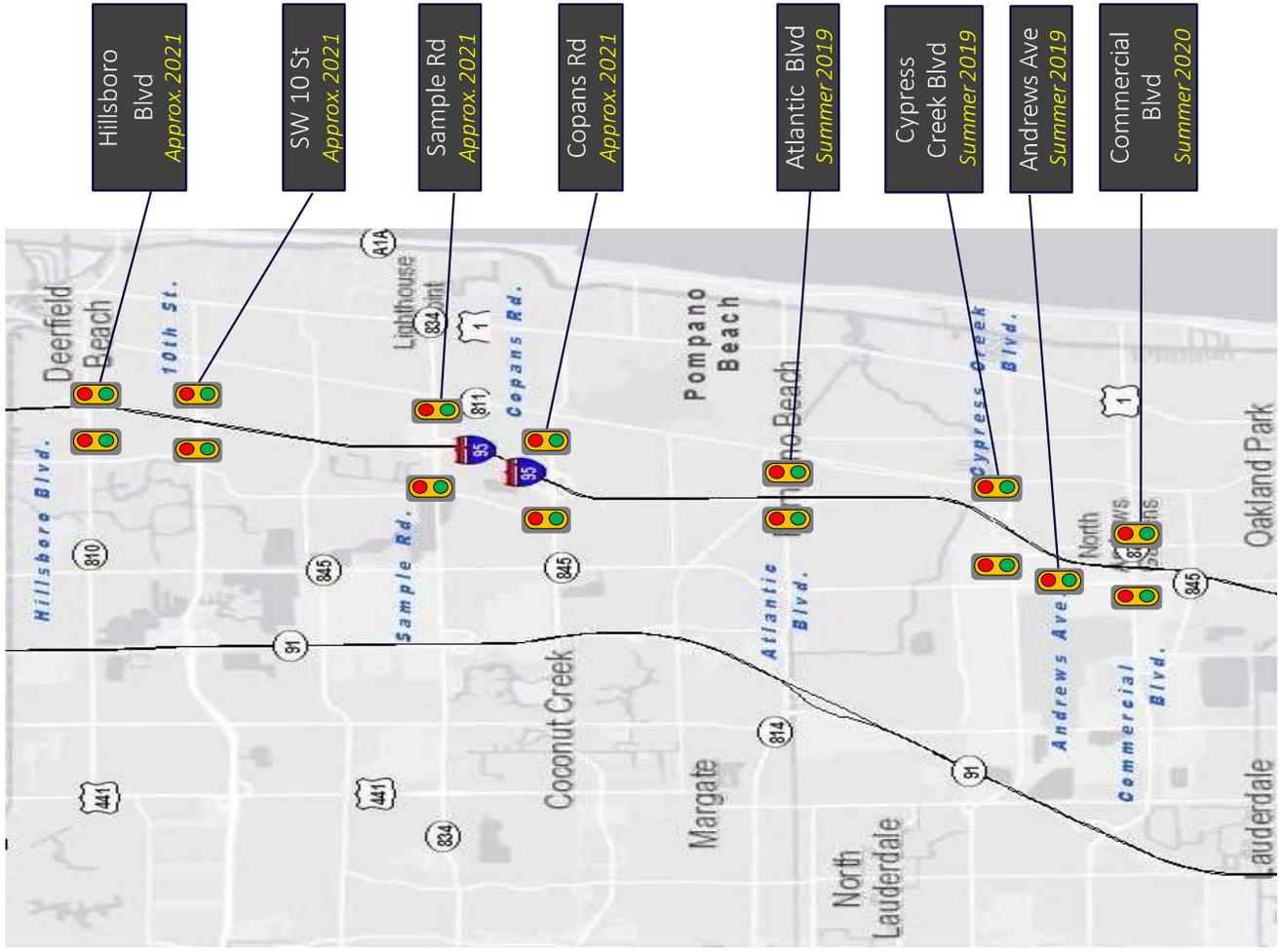
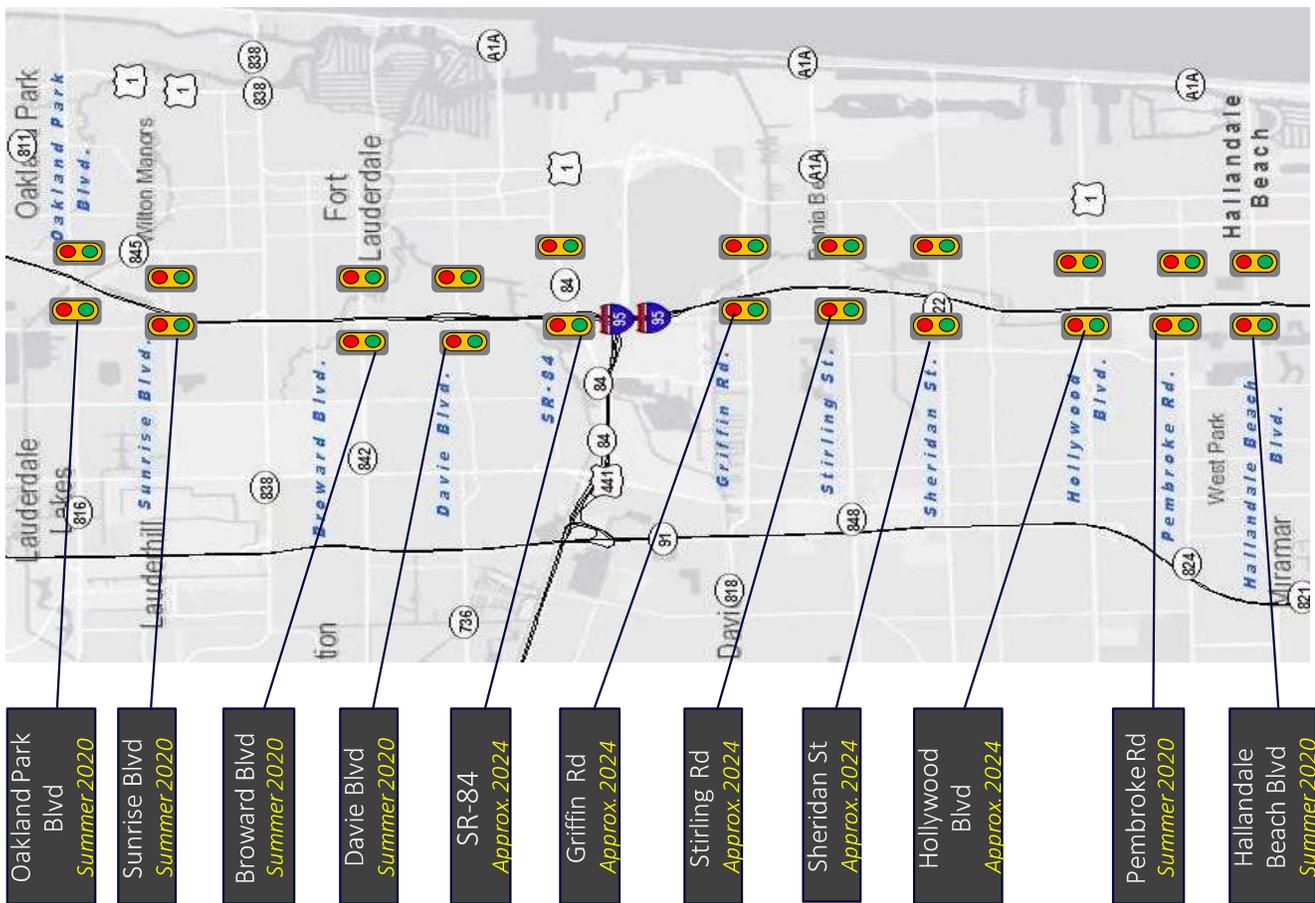


Traveler Survey of Traffic Conditions Without Ramp Signals

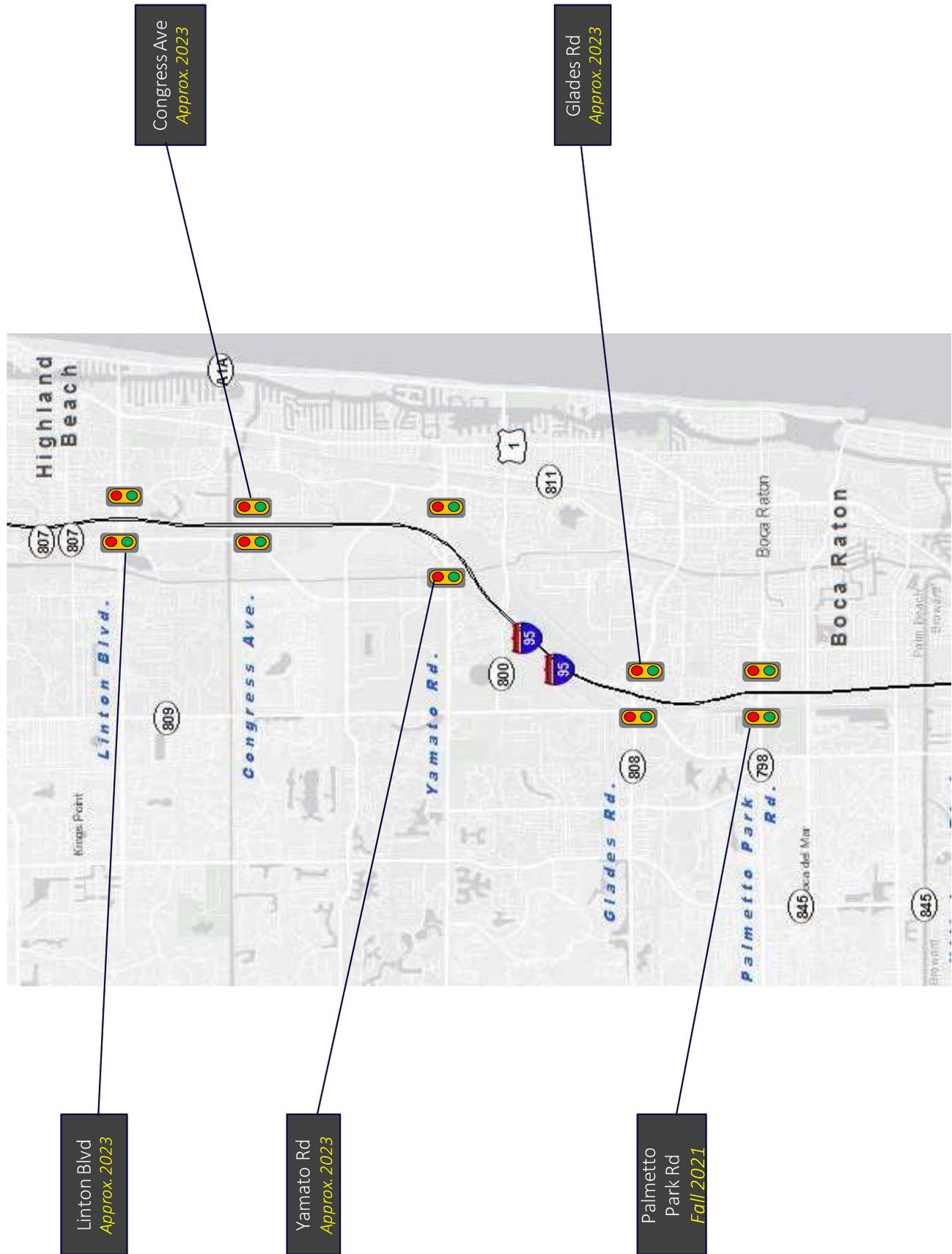




I-95 Ramp Signals Broward County



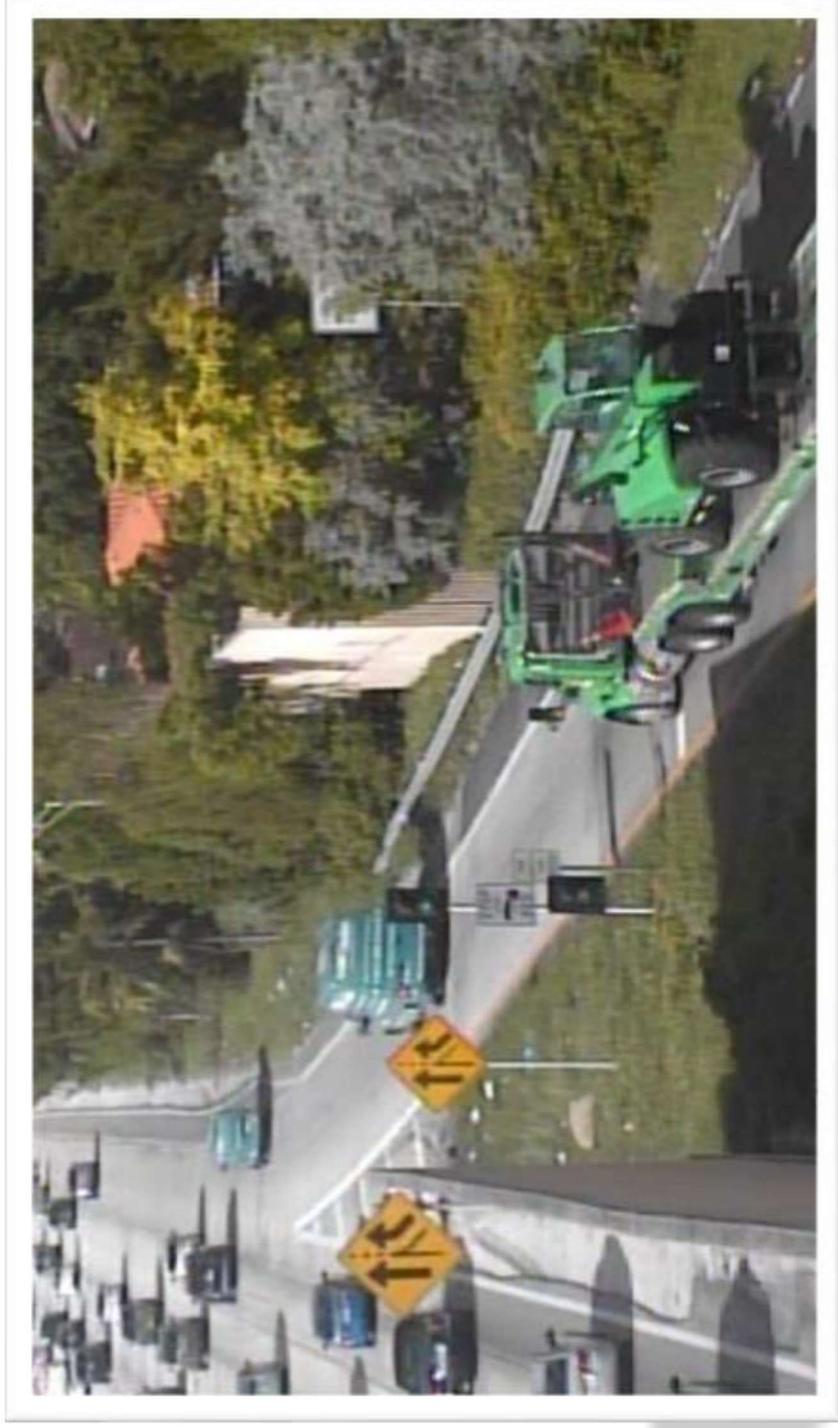
I-95 Ramp Signals Palm Beach County



Regional Transportation Management Center



Ramp Signals in Miami On-Ramp From Ives Dairy Road



Ramp Signaling Demonstration

