

RAMP METERING • FAIRFIELD, JUNE 7TH, 2017



OHIO DEPARTMENT OF
TRANSPORTATION

RAMP METERING

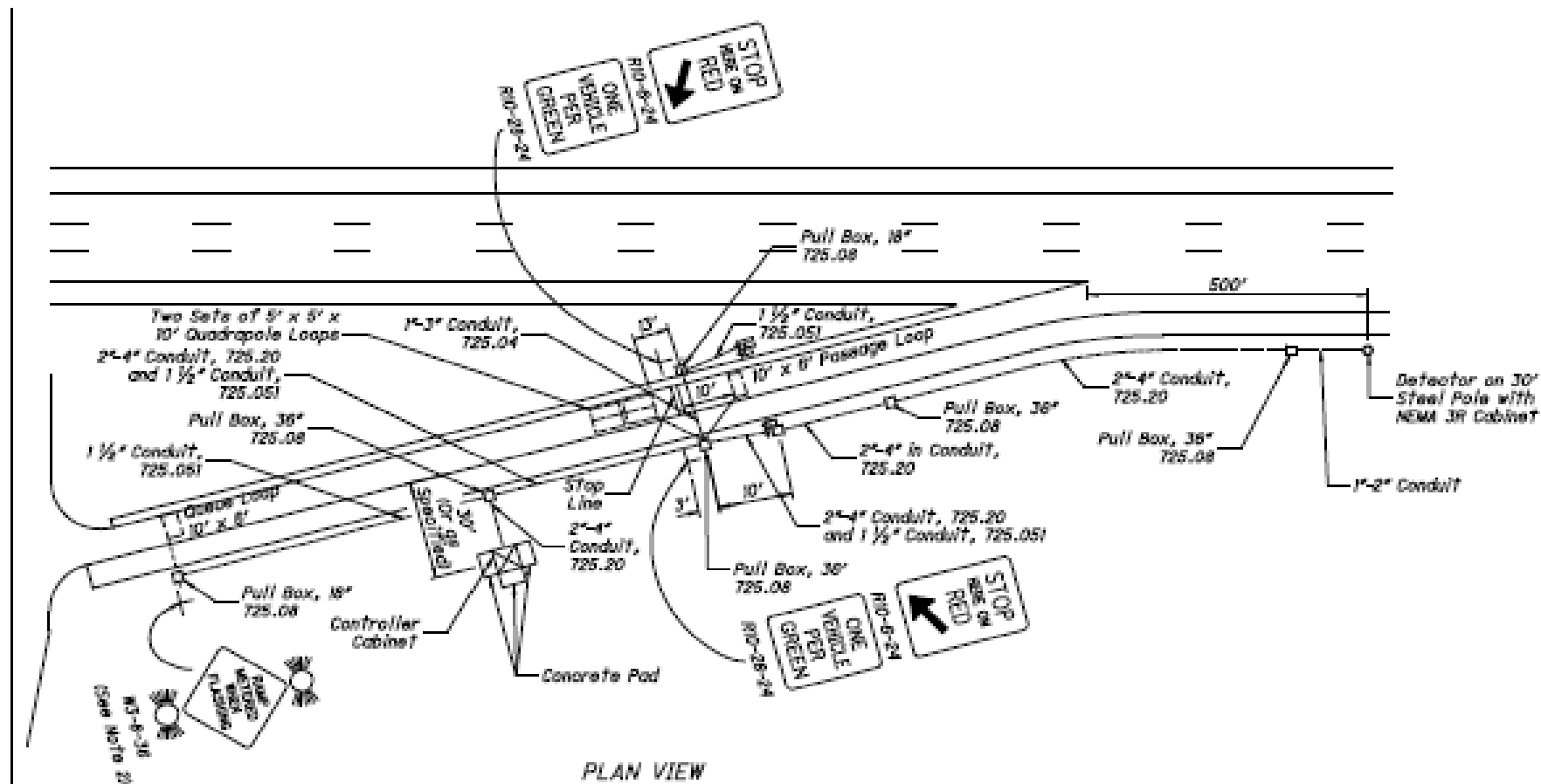
Jamie Fink

RAMP METERING

- Design
- Operation

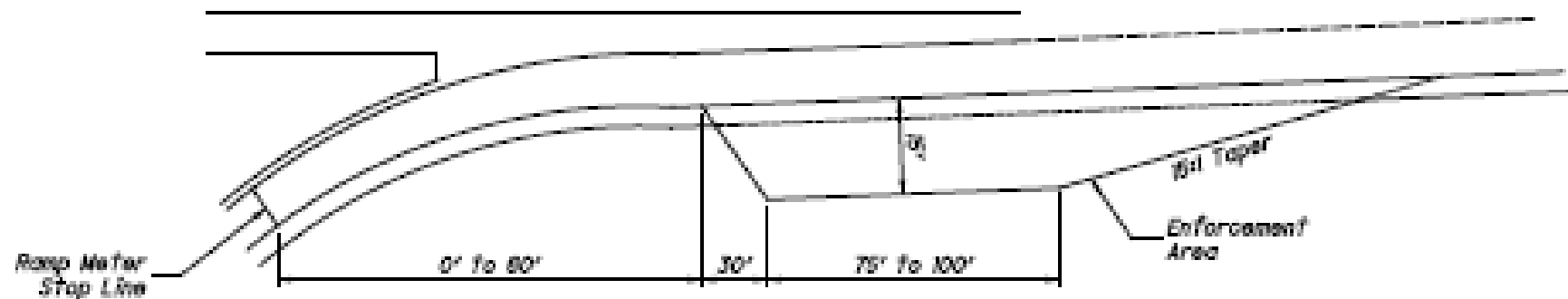
RAMP METERING: DESIGN

○ ODOT Plan Insert Sheet



RAMP METERING: DESIGN

- ODOT Plan Insert Sheet



RAMP METER ENFORCEMENT AREA

*Location of Enforcement Area Shall be
Approved by the Engineer.*

RAMP METERING: DESIGN



RAMP METERING: DESIGN I-270/SB HAMILTON RD



RAMP METERING: DESIGN

Radar Detector



RAMP METERING: OPERATION



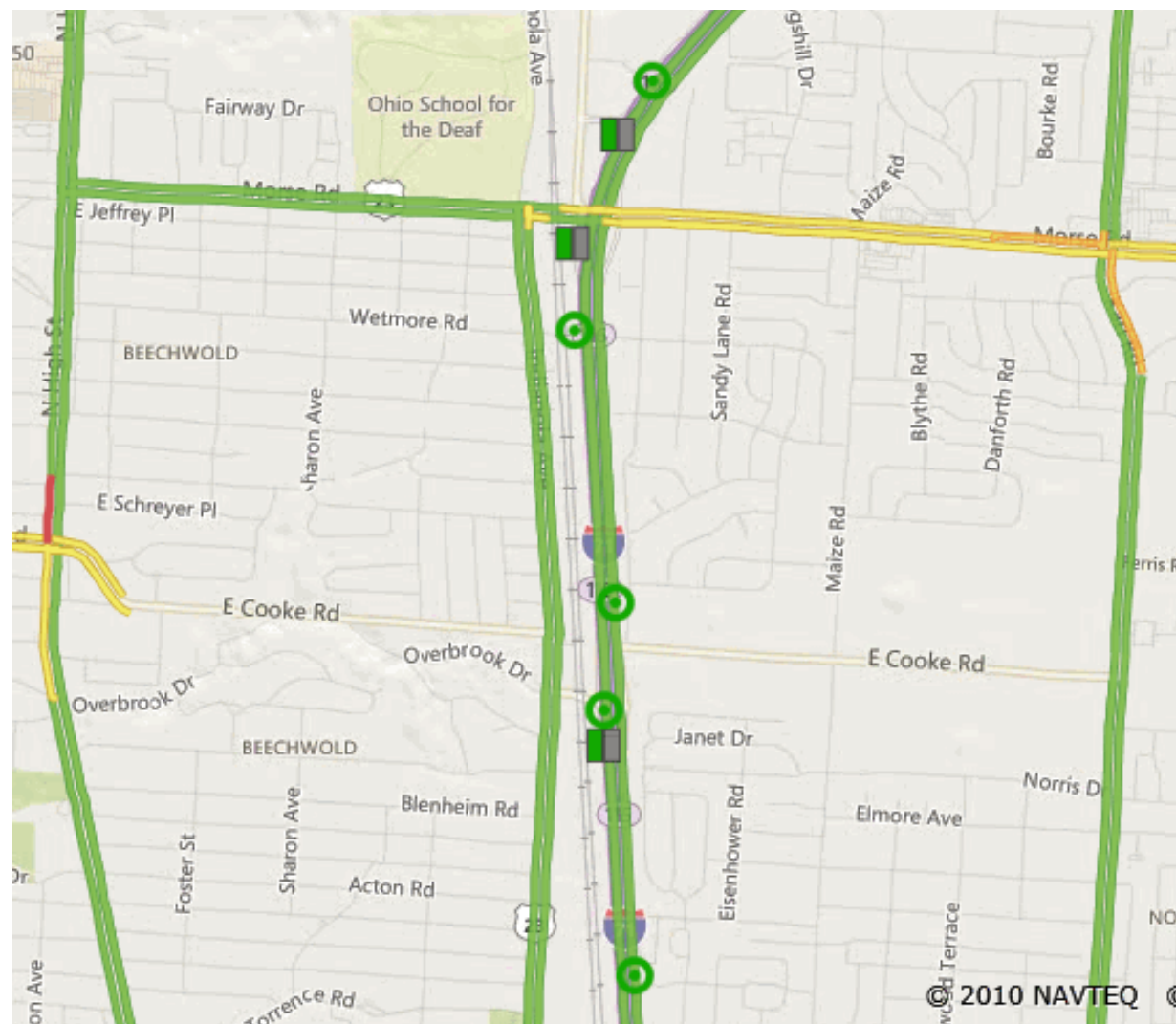
RAMP METERING: OPERATION

- Local Traffic Responsive Operation:
 - 15%-19%
 - Once the metering operation begins, the rate is determined by the level of congestion(occupancy) on the freeway.
 - Monitors the detector every 20 seconds

RAMP METERING: OPERATION

- **Corridor Traffic Responsive Operation:**
 - Utilizes data from multiple downstream detectors(up to 3 interchanges, 1-2 miles).
 - Data is put into an algorithm that automatically starts metering operation and assigns a metering rate.
 - The detectors have different weights based on the distance from the ramp being metered. This is done to prevent congestion from increasing upstream from the congested area.

RAMP METERING: OPERATION



QUESTIONS

