

MANAGEMENT OF TRAFFIC WITH REAL TIME MONITORING

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Presentation Outline

- Setting the Base Line
- Determining Travel Time Thresholds
- Development of Specification
- Contracting
- Future of WZ Performance Measures

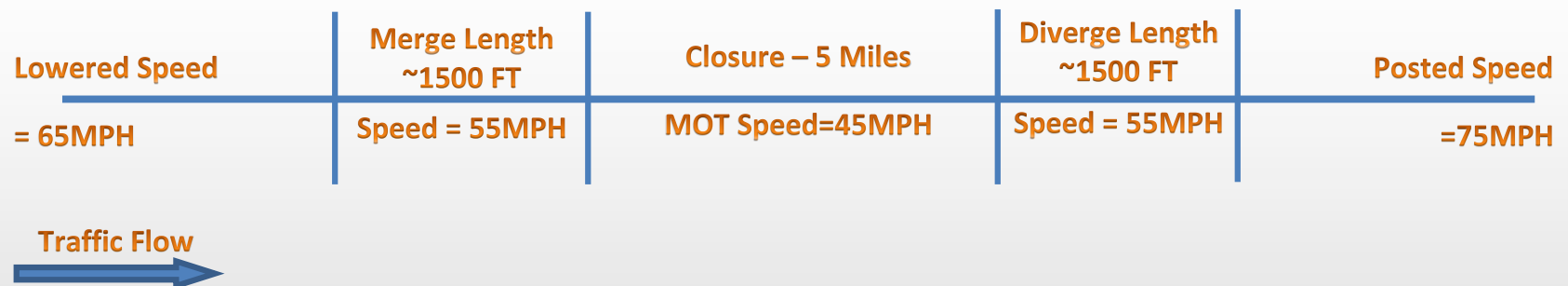
Setting the Base Line

- Minimum 1 week of Bluetooth data collection
- Collect “Traditional” traffic data
- Model
- Calibrate model with Bluetooth



Work Zone Scenarios

- Development of WZ scenarios
 - » Develop possible WZ set ups
 - » Model anticipated WZ set ups
 - » Collect model travel times



Thresholds

- Determine “acceptable” level of delay
- Develop thresholds from model runs
- Adjust to practical times
- Warning and Tiers

Movement	Existing Avg. (min)	Warning (min)	First Tier (min)	Second Tier (min)
I-80 Eastbound	9.7	11.3	12.8	14.6
I-80 Westbound	9.9	11.3	12.8	14.6

Development of Specification

- Based off standard DB format
- Additional required personnel for contractor
- Removed prescriptive language added performance language
- Performance measure incentives/disincentives

Non-Compliance with Delay Parameters	
First Tier Violation per movement	\$1,000
Second Tier Violation per movement	\$2,500

Specification Details

- Safe & Efficient passage of traffic through WZ
- Maintain vehicle mobility of facility and access at interchange locations
- Correct all traffic control deficiencies immediately
- Provide advance information to public regarding expected travel impacts

Specification Details (cont.)

- Contractor is responsible for maintaining required travel times
- Traffic control plans must address peak and off-peak periods
- Traffic restrictions shall not increase corridor travel times beyond the identified thresholds
- Department will install and maintain the monitoring system

Contracting

- Night work exemption?
- Realistic availability of lane closures
- Exemptions for major work items
- Emergency incidents
 - » Documentation
- Items not under contractor control



Future of WZ Performance Measures

- Department's continued support for implementation
- Coordination with local AGC
 - » Partnering is key
- Help all stakeholders understand benefits

Questions

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