Reduced Traffic Control Requirements for Utility Operations

LuAnn Theiss, P.E.
Texas Transportation Institute Research Supervisor

Presented at the National Traffic Management and Work Zone Safety Conference

March 11, 2009
Merging Taper Treatments

540’ taper

100’ taper

160’ taper

25’

25’

40’
Measures of Effectiveness

Not to scale
Experimental Plan

- Factors
  - Speed limit (40 & 45 mph)
  - Number of lanes remaining open (1 & 2)

- Six sites for each factor combination (24 total)

- All 3 treatments at each site

- Randomized treatment order
Percent of Traffic Remaining in Closed Lane

Distance Upstream of First Cone (ft)

- 540' Treatment (6 sites)
- 160' Treatment (6 sites)
- 100' Treatment (6 sites)

Preliminary Data
Next Steps

- Complete data reduction and analysis of daytime data
- Collect additional data, including nighttime setups
- Anticipate project completion in fall of 2009
Questions?

LuAnn Theiss, P.E.
Texas Transportation Institute
Phone: (979) 845-9949
Email: l-theiss@tamu.edu

Jim Mills, P.E.
Florida Department of Transportation
Phone: (850) 414-4318
Email: Jim.Mills@dot.state.fl.us