

Centreville Transportation Planning Study

October 25, 2004

Status Report on Kennett Pike Improvements

- History of Improvements
- Recent Feedback
- Project Goals
- DelDOT Studies to Date
- Packaging of Potential Solutions
- Next Steps

Tonight's Goals

- Update / Inform Public on Current Status
- Review Studies Completed to Date
- Discuss Potential Packages of Solutions
- Layout Schedule for Further Work

Kennett Pike Transportation Project History

- Sidewalk / Drainage Improvements
1937-1994
- Gateway Medians - Spring, 2003
- Temporary Bulb-outs - Fall, 2003
- In-Road Pedestrian Signs - Summer, 2004

August 2004 Interviews

- Eight Separate Groups – 35 Participants
- Cross Section of Stakeholders
- Feedback received / Consensus Building
Temporary Improvements
Potential Permanent Improvements

August 2004 Interviews

- **What We Heard**
 - Traffic Speeds too high through the Village
 - Temporary Bulb-outs are not in keeping with Village aesthetic
 - Temporary Bulb-outs create sight distance problems
 - Side Street Access onto Kennett Pike is difficult
 - Traffic Signals are needed and are desirable
 - Traffic Signals are neither needed nor desirable

August 2004 Interviews

- **Consensus Items**
 - Temp Bulb-outs need to be taken to the next step. They are inconsistent with Village aesthetic, block visibility, and are perceived to be unsafe
 - Need to improve side street access onto Kennett Pike
 - Traffic speeding through the Village
 - Village Character must be maintained
 - Community is anticipating permanent improvements

September 2004 Kennett Pike Association Meeting

- Facilitated group discussion to identify issues, concerns and objectives
- KPA and residents of Greater Centreville area
- Voice ideas and concerns to reach consensus on objectives for permanent traffic calming solutions

September 2004 Kennett Pike Association Meeting – What we heard

- Issues and concerns:
 - access
 - process
 - traffic calming
 - community devel.
 - safety
 - aesthetics
 - traffic management (signals)
 - alternative routes
- Pros and Cons of traffic signals vs. no traffic signals
- Prioritization of issues, concerns and possible solutions

Kennett Pike Association Meeting Consensus Items

- Consensus on traffic signals versus no traffic signals was not reached
- DE and PA must focus on expansion of transit facilities
- Access from side streets onto Kennett Pike needs to be improved
- Traffic volumes are high and volume is expected to increase
- Community is anticipating permanent improvements

Project Goals

- Slow Down Traffic in the Village
- Improve Pedestrian Safety
- Improve Access from Side Streets
- Coordinate Enhancements with Centreville Village Plan

DeIDOT Traffic Studies to Date

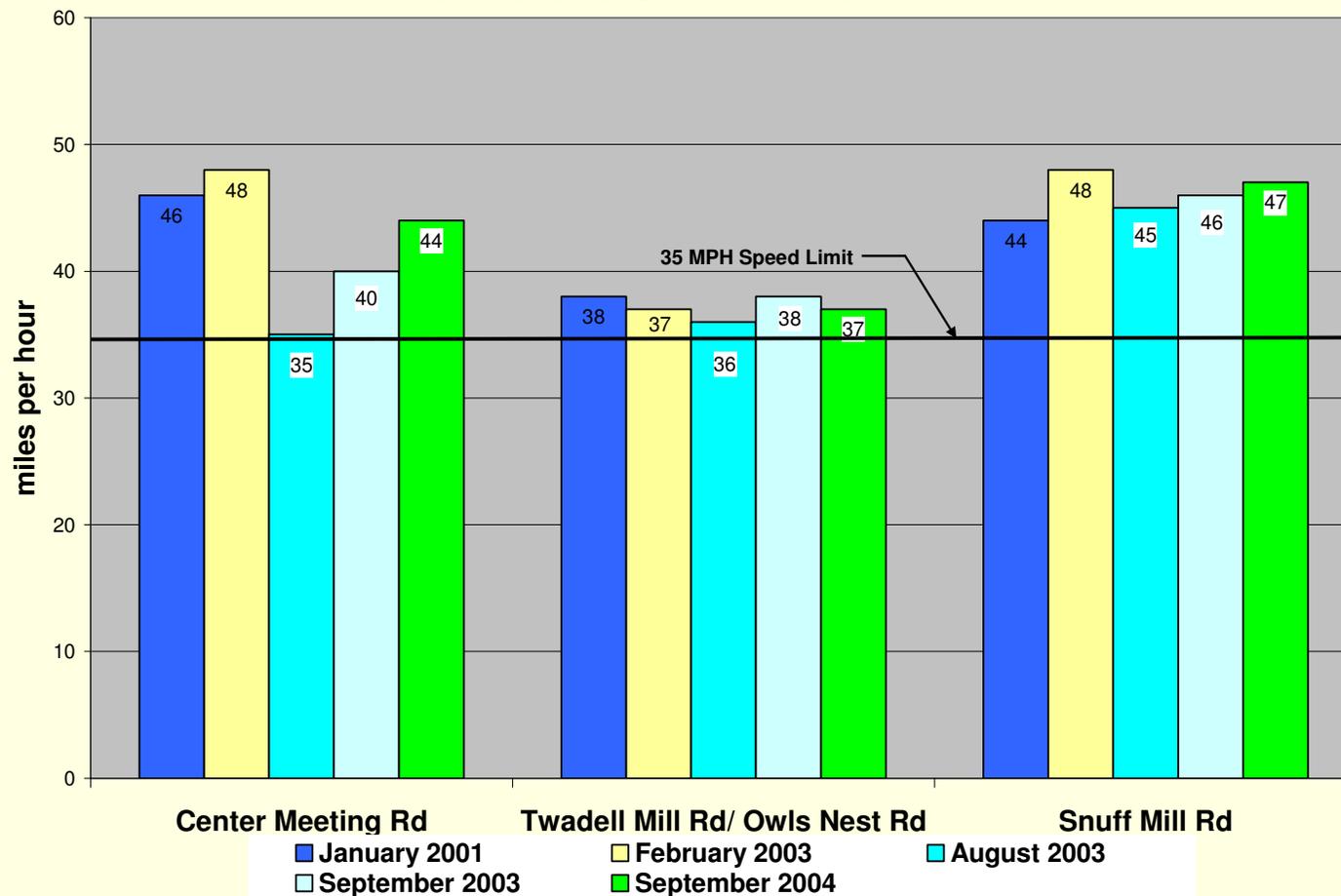
- Safety Study - 2001
- Speed Studies – 2001 to 2004
- Signal Location Studies – Nov 2002
- Signing Inventory Study 2003
- Peak Hour Delay Studies – 2004
- Signal Warrant Studies – Need for signals investigated in 2001, but much has changed since then, including the methodology for signal warrant studies. Signals revisited in 2004.

Speed Studies

- Owl's Nest Rd / Twaddell Mill Rd
Intersection speeds have been slightly above posted 35 mph
- Gateways initially reduced speeds
- Speeds have returned to pre-gateway levels

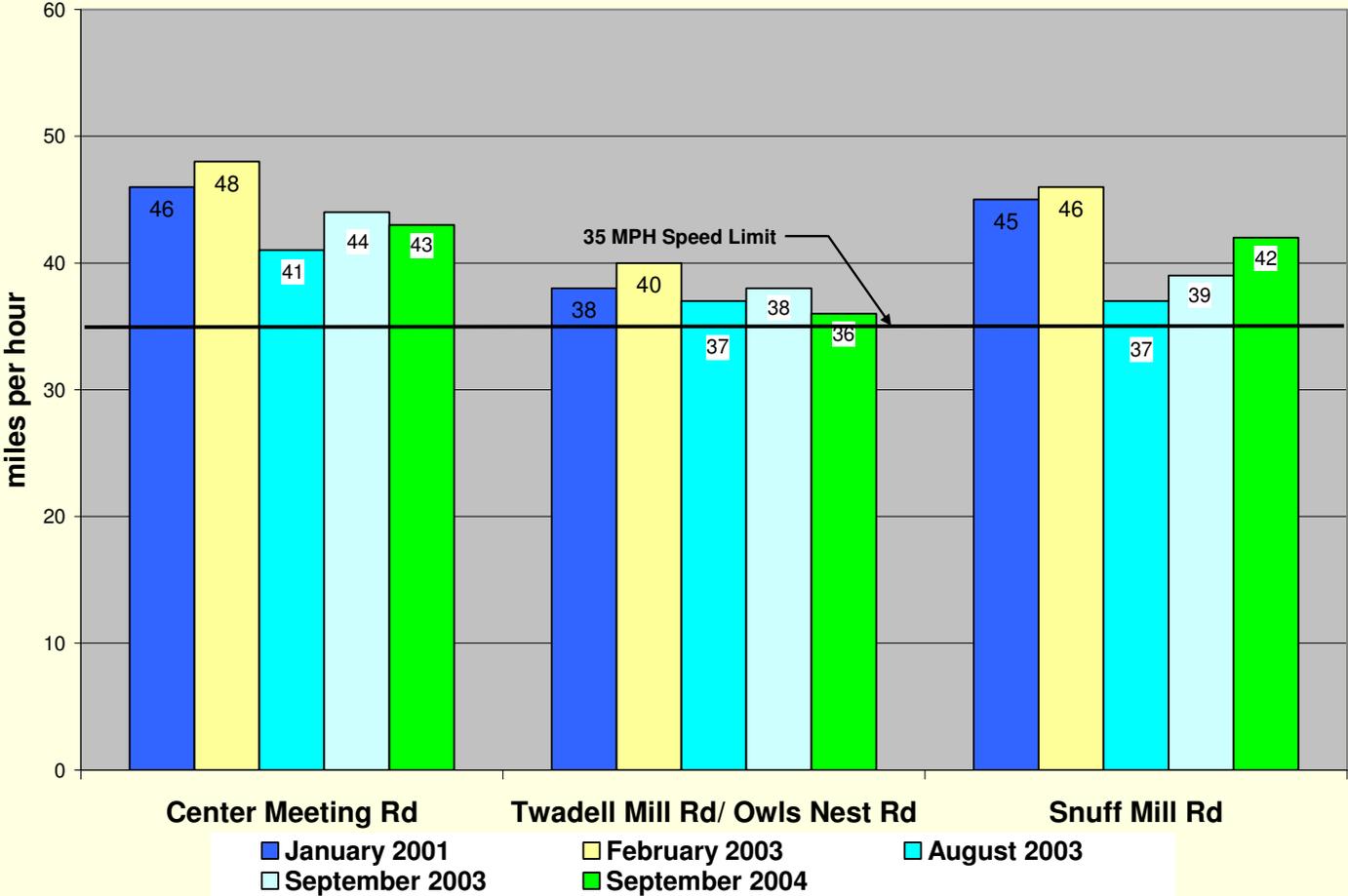
Speed Studies

Figure 1 - 85th Percentile Speeds
Northbound SR 52/Kennett Pike



Speed Studies

Figure 2 - 85th Percentile Speeds
Southbound SR 52/Kennett Pike



Peak Hour Delay Studies

- **September 2004 Study – Owls Nest Road/
Twaddell Mill Road Intersection**
 - Average Delay Eastbound on Owls Nest Rd was 40 seconds (8 Vehicles longest queue)
 - Average Delay Westbound on Twaddell Mill Rd was 24 seconds (2 Vehicles longest queue)

Signal Location Studies

- Nov 2002 Study Examined Signals at Snuff Mill and Center Meeting Road
- Looked at Speed Reduction, Gaps for Pedestrian Crossing, and Through Traffic Delays
- Conclusions:
 - Installing signals will not provide ample gaps for pedestrian crossings in the heart of the Village
 - Signals will not significantly reduce speeds on Kennett Pike
 - Signals will cause through delays on Kennett Pike to Increase by an average of 20 seconds
 - Signal at Center Meeting will address high delays on the westbound approach to the intersection but will create delays and queues on Route 52.

Signal Warrant Studies

- Methodology for signal warrants changed after 2001
- 2004 Study at Owl's Nest Rd and Twaddell Mill Road indicated intersection did not meet signal warrants
- 2004 Study at Snuff Mill and Center Meeting indicated signals could be supported

Scenic and Historic Byway Designation

- Phase I Completed - Application Approved as Designated Byway Spring, 2002
- Phase II Ongoing - Overall Corridor Plan being developed
- Plan will help define future land use and transportation improvements for the corridor

Packaging of Concepts

- Diversity of Goals requires packaging of many elements
- Analysis of package as a whole is required before a recommendation is made and an Option chosen
- Process is dynamic

Concept Packages

- **Identify Elements**
 - Bulb-Outs
 - Intersection Improvements
 - Roundabouts
 - Traffic Signals
 - In-road Pedestrian Signs
 - Signage
 - Left Turn Lanes
 - Narrowing of Lanes
 - Consistent Typical Section

Concept Packages *(cont.)*

- **Analyze Concept Packages**

- Speed Reduction
- Safety
- Delays
- Access
- Impact on Parking
- Impact on Congestion
- Impact on Pedestrians
- Impact on Bikes

- **Presentation**

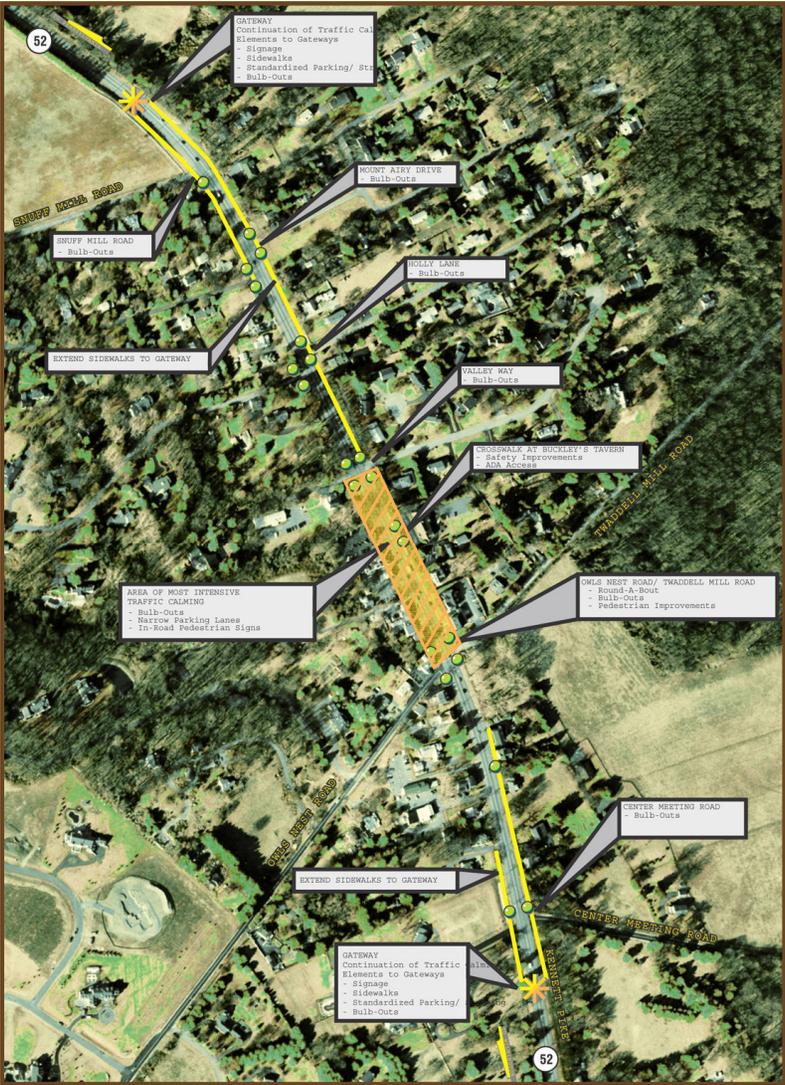
- Final Recommended Concepts
- Pros & Cons

Concept Packages

Concept 1

- **Extend Treatments to Gateways**
 - Sidewalks
 - Standardized Parking
 - Bulb-outs
 - Additional Crosswalks
- **Refine Bulb-out Locations**
- **Highest Level of Traffic Calming in Village Center**
- **Roundabout at Owl's Nest / Twaddell Mill Road**

Concept-1 Package

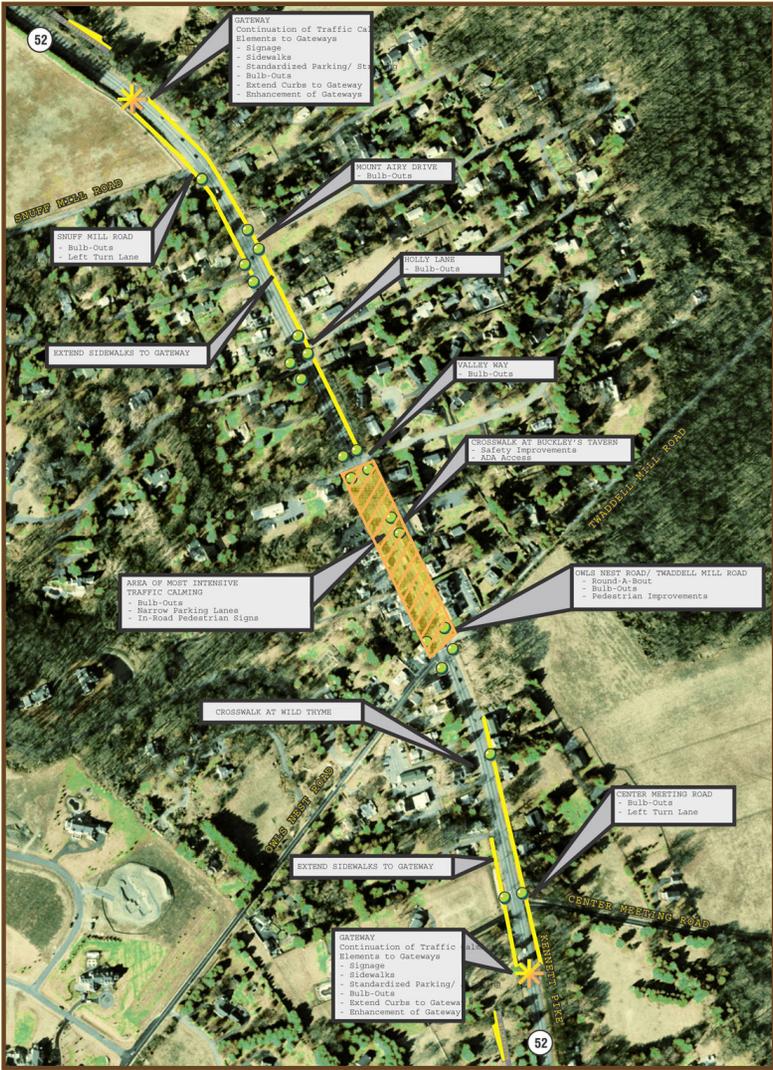


Concept Packages

Concept 2

- Same Elements as Concept 1
- Curbs extended to Gateways
- Enhancement of Gateways
- Intersection Improvements at Center Meeting Road
- Turn lane at Snuff Mill Road

Concept-2 Package

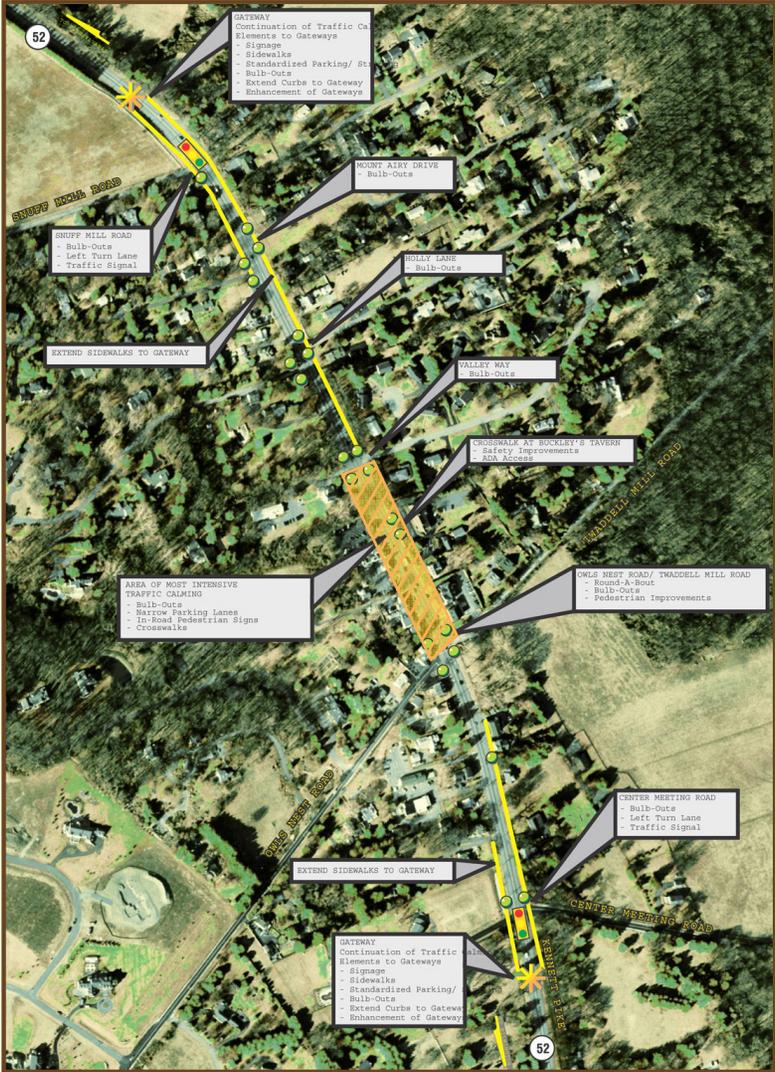


Concept Packages

Concept 3

- Same Elements as Concept 2
- Traffic Signal at Center Meeting Road
- Traffic Signal at Snuff Mill Road

Concept-3 Package



Next Steps

- **Develop and Analyze Concept Packages**
- **Present Packages to Public**
- **Final Concept Selection**
- **Completion by March 2005**
- **Project Pipeline**
 - **Prioritization**
 - **Funding**