

## TRAFFIC ANALYSIS

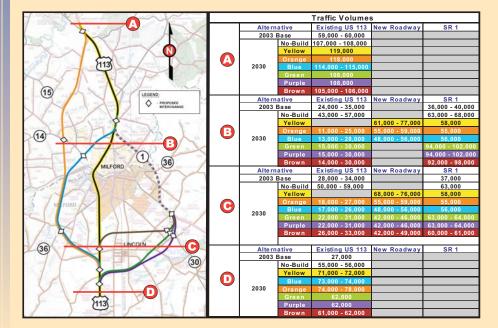
#### **US 113 North / South Study** 113

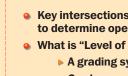
### **Traffic Forecasting**

Future traffic volumes have been projected by the US 113 Project Team using Delaware's **Regional Travel Model** 

- It covers the entire State of Delaware and Maryland's Eastern Shore, two-thirds of the Delmarva Peninsula
- During 2006, DelDOT completely updated this model:
  - Incorporated the latest approved Population & Employment Projections (from WILMAPCO)
  - Updated external volumes (MD, PA, NJ)
  - Calibrated to the most recent traffic counts from 2005
  - Incorporated the latest Mode Choice Model Data (DTC)
  - Incorporated a new toll model (for I-95 & SR 1)
- Traffic volumes were projected for an average summer Saturday in 2030





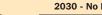


# **Analysis**

- Key intersections were analyzed using the peak travel hour of an average Summer Saturday to determine operational performance, shown as "Level of Service" (LOS)
- What is "Level of Service"?
  - A grading system for evaluating traffic operations.
  - Grades range from A (best) to F (worst).
  - Influenced by traffic volumes, truck percentages, roadway characteristics, signal characteristics, etc.
- Currently, there are 10 signalized intersections on US 113 in the Milford Project area,
- all of which operate acceptably
- By 2030, with no improvements (No Build), only three will still operate acceptably.
- With improvements to US 113 (any of the colored alternatives) <u>all</u> of the signals will operate acceptably

2003 - Base

2030 - Yellow





2030 - Brown

Legend

# of Signals or

Existing US 113

# of Signals

operating at

LOS A - D

# of Signals

operating at LOS E - F

Acceptable Operation Unacceptable Operation Signal Removed

2030 - Orange, Blue, Green & Purple



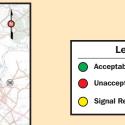


- and ended in Georgetown or points south.
- - "Local" Traffic:

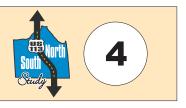


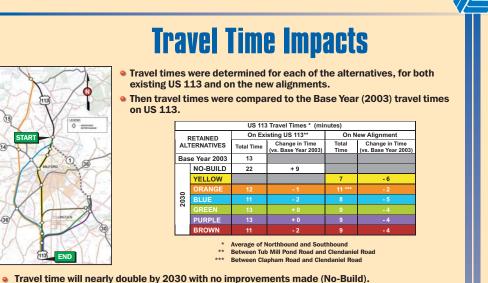
Alternative

2003 Base



#### February 2007





All Build scenarios will improve or maintain existing travel time along US 113 and decrease travel time for travelers bypassing Milford.

### **Traffic Characteristics**

A travel survey conducted on a Summer Saturday in 2003 found that approximately 70% of the traffic on US 113 near the SR 1 junction in Milford began and ended their trips north of Frederica, Delaware

• This survey indicates that the majority of traffic on US 113 in Milford is "through" traffic.

The regional model was used to determine the amount of "local" and "through" traffic that would remain on US 113 through Milford for each alternative

trips that either Begin or End in Milford

"Through" Traffic: Trips that neither begin or end in Milford, remaining on the US 113 corridor

All of the Alternatives, except Yellow, have significant impact on the traffic composition of US 113 through Milford, greatly reducing the amount of through traffic on existing roadways.

Alternatives		Local Traffic	Through Traffic
2003 - Baseline		30 %	70%
2030	No-Build	22 %	78 %
	Yellow	15 %	85 %
	Orange	97 %	3 %
	Blue	99 %	1 %
	Green	97 %	3 %
	Purple	97 %	3 %
	Brown	85 %	15 %