

TRAFFIC ANALYSES FOR RANGE OF ALTERNATIVES



NO BUILD ALTERNATIVE

Congestion Relief Rating: VERY POOR

- Failing conditions (LOS F) on US 301 and Boyds Corner Road
- Congestion (LOS F) on SR 299 through Middletown
- High traffic volumes on local roads, such as Cedar Lane Road (LOS E) - New Summit Bridge required to prevent LOS F
- Does not separate truck traffic & local traffic

What is Level of Service (LOS)?

- A grading system for evaluating traffic operations
- Grades range from LOS A (best) to LOS F (worst)
- Influenced by traffic volumes, truck percentages,



ON NEW LOCATION

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South Opt.

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ELLOW ALTERNATIVE

Congestion Relief Rating: FAIR

- Reduces volumes on US 301 (although still LOS F) and Boyds Corner Road (LOS E)
- Volumes on SR 299 nearly 50% lower than No Build Alternative - Provides a bypass projected to operate at LOS B
- Reduces traffic volumes on local roads, such as Cedar Lane Road - Increases traffic on SR 1 C&D Canal Bridge (LOS E), but bridge can be re-striped to add capacity



BANGE AITEBNATI

Congestion Relief Rating: GOOD

- Reduces volumes on US 301 (although still LOS F) and Boyds Corner Road (LOS E) - Moderate reduction in volumes on Summit Bridge (LOS E)
- Volumes on SR 299 are 50% lower than No Build Alternative
- Provides a bypass projected to operate at LOS B
- Significantly Reduces traffic volumes on local roads, such as Cedar Lane Road
- Increases traffic on SR 1 C&D Canal Bridge (LOS F), but bridge can be re-striped to add capacity



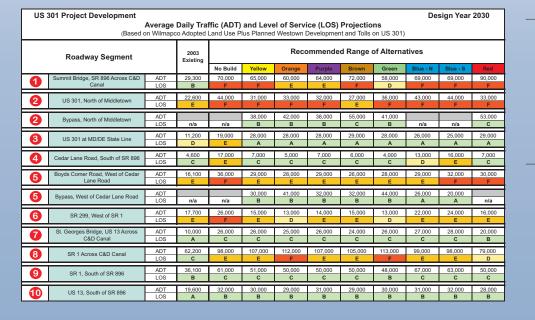
4 LANES - CONTROLLED ACCESS -

NEW LOCATION & ALONG EXISTING ROADWAYS

PURPLE ALTERNATIVE

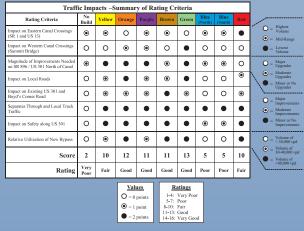
Congestion Relief Rating: GOOD

- Reduces volumes on US 301 (although still LOS F) and Boyds Corner Road (LOS E)
- Volumes on SR 299 nearly 50% lower than No Build Alternative
- Moderate reduction in volumes on Summit Bridge (LOS E)
- Provides a bypass projected to operate at LOS B
- Reduces traffic volumes on local roads, such as Cedar Lane Road - Increases traffic on SR 1 C&D Canal Bridge (LOS F), but bridge can be re-striped to add capacity





4 LANES - CONTROLLED ACCESS -NEW LOCATION







4 LANES – CONTROLLED ACCESS – NEW LOCATION & ALONG EXISTING ROADWAY

September 2005







ROWN ALTERNATIVE

Congestion Relief Rating: GOOD

- Reduces volumes on US 301 and Boyds Corner Road (largest reduction of all alternatives - both LOS E)
- Volumes on SR 299 are 50% lower than No Build Alternative
- Provides a bypass projected to operate at LOS C
- Reduces traffic volumes on local roads, such as Cedar Lane - Increases traffic on SR 1 C&D Canal Bridge (LOS E), but bridge can be re-striped to add capacity
- Increases traffic on Summit Bridge (LOS F)
- New Summit Bridge required to prevent LOS F

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Congestion Relief Rating: GOOD

- Reduces volumes on US 301 (although still LOS F) and Boyds Corner Road (LOS E)
- Volumes on SR 299 are 50% lower than No Build Alternative
- Provides a bypass projected to operate at LOS B
- Reduces traffic volumes on local roads, such as Cedar Lane Road - Increases traffic on SR 1 C&D Canal Bridge (LOS F), but bridge can be re-striped to add capacity
- Provides largest decrease in traffic on Summit Bridge (LOS D)

Congestion Relief Rating: POOR

- Does not significantly reduce traffic volumes on:
- US 301 (LOS F)
- Boyds Corner Road (LOS F for South Option)
- SR 299 (LOS E)
- local roads
- Bypass is underutilized compared to other alternatives (No local access)

RED ALTERNATIVE

Congestion Relief Rating: FAIR

- Reduces volumes on US 301 and Boyds Corner Road (although both are still LOS F)
- Does not significantly reduce traffic volumes on Boyds Corner Road (LOS F)
- Reduces No Build volumes on SR 299 by nearly 50%
- Increases traffic significantly on Summit Bridge (LOS F)
- Requires new Summit Bridge
- Requires substantial roadway improvements on SR 896 north of the C&D Canal, including:
 - Converting all intersections to interchanges
 - Major improvements to the I-95/SR 896 interchange