

# RANGE OF ALTERNATIVES - PURPLE ALTERNATIVE

## US 301 Project Development

### DESCRIPTION OF THE PURPLE ALTERNATIVE



**4 LANES - LIMITED ACCESS -  
ALONG EXISTING BOYDS CORNER ROAD & ON NEW LOCATION**

#### Project Team Recommendation

- RETAIN for Detailed Evaluation
- DROP from Further Consideration

- Moderate Engineering Issues
- Moderate Environmental Impacts
- Public and Resource Agency Support

### ENGINEERING - TRAFFIC & SAFETY CONSIDERATIONS

#### Advantages

- Lower construction cost (moderate length, lower number of overpasses and lower number of interchanges)
- Mid-range number of properties impacted
- Mid-range impact on existing communities (within 600 feet) – 4
- Improves safety by separating local from through traffic

#### Disadvantages

- Potential impact on proposed new high school, west of Middletown, and Cedar Lane Elementary School
- Not possible to lower roadway profile, due to overpasses of Boyds Corner Road (2) and Shallcross Lake Road, therefore, difficult to mitigate indirect impacts (noise, visual, etc.) on adjacent land uses

#### Comparison of the Range of Alternatives - Engineering

ENVIRONMENTAL CONSIDERATIONS	NO BUILDS	YELLOW	ORANGE	PURPLE	BROWN	GREEN	RED	BLUE	Other
Number of Properties Impacted	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 600 feet)	0	4	4	4	4	4	4	4	4
Number of Properties Impacted (within 1000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 1500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 2000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 2500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 3000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 3500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 4000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 4500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 5000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 5500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 6000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 6500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 7000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 7500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 8000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 8500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 9000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 9500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 10000 feet)	0	15	15	15	15	15	15	15	15

### CULTURAL & ENVIRONMENTAL RESOURCES

#### Advantages

- Lower Wetland impacts - 18.5 acres
- Mid-range Waters of the US impacts - 9,503 LF
- No DNREC Tidal Wetland impacts
- Lower Floodplain impacts - 0.3 acres
- Lower Forestland impacts - 33.2 acres

#### Disadvantages

- Higher Agricultural District impacts - 28 acres

**Note:** Detailed evaluation is continuing to identify cultural resources and assess potential effects

#### Comparison of the Range of Alternatives - Cultural & Natural Resources

CULTURAL CONSIDERATIONS	NO BUILDS	YELLOW	ORANGE	PURPLE	BROWN	GREEN	RED	BLUE	Other
Number of Wetland Impacts (Acres)	0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Number of Waters of the US Impacts (LF)	0	9,503	9,503	9,503	9,503	9,503	9,503	9,503	9,503
Number of DNREC Tidal Wetland Impacts (Acres)	0	0	0	0	0	0	0	0	0
Number of Floodplain Impacts (Acres)	0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Number of Forestland Impacts (Acres)	0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
Number of Agricultural District Impacts (Acres)	0	28	28	28	28	28	28	28	28

ENVIRONMENTAL CONSIDERATIONS	NO BUILDS	YELLOW	ORANGE	PURPLE	BROWN	GREEN	RED	BLUE	Other
Number of Wetland Impacts (Acres)	0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Number of Waters of the US Impacts (LF)	0	9,503	9,503	9,503	9,503	9,503	9,503	9,503	9,503
Number of DNREC Tidal Wetland Impacts (Acres)	0	0	0	0	0	0	0	0	0
Number of Floodplain Impacts (Acres)	0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Number of Forestland Impacts (Acres)	0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
Number of Agricultural District Impacts (Acres)	0	28	28	28	28	28	28	28	28
Number of Properties Impacted	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 600 feet)	0	4	4	4	4	4	4	4	4
Number of Properties Impacted (within 1000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 1500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 2000 feet)	0	15	15	15	15	15	15	15	15
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Number of Properties Impacted (within 6500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 7000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 7500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 8000 feet)	0	15	15	15	15	15	15	15	15
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Number of Properties Impacted (within 9000 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 9500 feet)	0	15	15	15	15	15	15	15	15
Number of Properties Impacted (within 10000 feet)	0	15	15	15	15	15	15	15	15

### PUBLIC COMMENTS ON PURPLE ALTERNATIVE

Public comments received by the comment period ending July 22, 2005 (156 Retain / 72 Drop)

#### Advantages

- Does not cut town of Middletown in half
- Less expensive, short, less maintenance cost
- Less environmental impacts
- Will not impact Summit Airport
- Less impact on existing houses - affects proposed development

#### Disadvantages

- Concern that alternative will divide the proposed Bayberry development in two, impact the Cedar Lane Elementary School and take the New Covenant Church
- Concern that flyover ramp tie to SR1 at Boyds Corner Road will create impact to Grande View Farms –(noise, visual, etc.) Difficult to mitigate impacts

ALTERNATIVE	SUPPORT	DO NOT SUPPORT	ADD
Yellow Alternative	79	125	-
Orange Alternative	57	114	-
Purple Alternative	156	72	-
Brown Alternative	50	161	-
Green Alternative	219	50	-
Red Alternative	31	75	-
Blue Alternative	-*	-*	42*
Other	-	-	17

\* Blue Alternative added as a result of Public Comments received at June 2005 Workshops

Public Comments [as of July 22, 2005] on the potential Range of Alternatives presented at Public Workshops - June 20 & 21, 2005