

RANGE OF ALTERNATIVES - GREEN ALTERNATIVE

US 301 Project Development

DESCRIPTION OF THE GREEN ALTERNATIVE



4 LANES - LIMITED ACCESS - 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

- Mid-range construction cost (mid-range length, mid-range number of interchanges and lowest number of overpasses)
- Lowest impact on existing communities (within 600 feet) - 2 S / 3 N
- Higher potential to minimize effects on adjacent communities since alternative passes under most local roads
- Split diamond at existing US 301 and Boyds Corner Road reduces impacts (N)
- Lower impacts on traffic during construction
- Improves safety by separating local from through traffic
- Lower number of properties affected

Disadvantages

- Skewed (angled) crossing of Scott Run (environmental impacts) (S)
- Potential indirect impact on proposed new high school, west of Middletown, and Cedar Lane Elementary School (S)
- Potential indirect impact on St. George's Technical High School (N only)

Comparison of the Range of Alternatives - Engineering

ENGINEERING CONSIDERATIONS	NO BUILDS	YELLOW	ORANGE	PURPLE	BROWN	GREEN	RED	BLUE	OTHER
Number of Interchanges	0	1	2	3	4	5	6	7	8
Number of Overpasses	0	1	2	3	4	5	6	7	8
Number of Properties Affected	0	10	20	30	40	50	60	70	80
Number of Properties Impacted	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 1200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 1800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 2400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 3000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 3600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 4200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 4800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 5400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 6000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 6600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 7200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 7800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 8400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 9000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 9600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 10200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 10800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 11400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 12000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 12600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 13200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 13800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 14400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 15000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 15600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 16200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 16800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 17400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 18000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 18600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 19200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 19800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 20400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 21000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 21600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 22200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 22800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 23400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 24000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 24600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 25200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 25800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 26400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 27000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 27600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 28200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 28800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 29400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 30000 Feet)	0	10	20	30	40	50	60	70	80

CULTURAL & ENVIRONMENTAL RESOURCES

Advantages

- Mid-range Wetland impacts - 24.8 N / 23 S acres
- Mid-range Waters of the US impacts - 10,322 N / 9,902 S LF
- Lower Forestland impacts - 31 N / 36.5 S acres

Disadvantages

- Higher DNREC tidal wetland impacts - 1.5 N & S acres
- Higher Floodplain impacts - 2.5 N & S acres
- Highest Agricultural District impacts - 28 N & S 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	10	20	30	40	50	60	70	80
Number of Waters of the US Impacts (LF)	0	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000
Number of Forestland Impacts (Acres)	0	10	20	30	40	50	60	70	80
Number of Agricultural District Impacts (Acres)	0	10	20	30	40	50	60	70	80
Number of Cultural Resources Impacts	0	10	20	30	40	50	60	70	80
Number of Properties Impacted	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 1200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 1800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 2400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 3000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 3600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 4200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 4800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 5400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 6000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 6600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 7200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 7800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 8400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 9000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 9600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 10200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 10800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 11400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 12000 Feet)	0	10	20	30	40	50	60	70	80
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Number of Properties Impacted (Within 14400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 15000 Feet)	0	10	20	30	40	50	60	70	80
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Number of Properties Impacted (Within 16800 Feet)	0	10	20	30	40	50	60	70	80
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Number of Properties Impacted (Within 19200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 19800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 20400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 21000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 21600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 22200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 22800 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 23400 Feet)	0	10	20	30	40	50	60	70	80
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Number of Properties Impacted (Within 26400 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 27000 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 27600 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 28200 Feet)	0	10	20	30	40	50	60	70	80
Number of Properties Impacted (Within 28800 Feet)	0	10	20	30	40	50			