

ALTERNATIVE RETAINED FOR DETAILED EVALUATION - BROWN ALTERNATIVE

US 301 Project Development

DESCRIPTION OF THE BROWN ALTERNATIVE 4 LANES - LIMITED ACCESS - ON NEW LOCATION

The Brown Alternative would provide a four-lane, limited access tolled highway constructed on new location on a north/south alignment (Ridge Route) from the Delaware/Maryland state line to south of Summit Bridge. It would then continue on new location on an east alignment, south of the C&D Canal, and interchange with SR 1 between the Biddles Corner Toll Plaza and the SR 1 bridge over the C&D Canal. The North Option extends north to SR 15 / SR 896 and then curves east along existing SR 896 toward SR 1. The South Option extends just north of Churchtown Road and then curves northeast between Summit Bridge Farms and Dickerson Farm passing through the northern portion of Summit Airport, before curving east toward SR 1. Interchanges would be provided at Levels Road, SR 896 South of Summit Bridge and Jamison Corner Road with either Option.

BROWN Alternative at Airmont
(Looking east along Hyetts Corner Road)



Existing Condition

Rendering of BROWN Alternative
(Green South+Spur Alternative in background)



ENGINEERING / TRAFFIC / SAFETY / COMMUNITY

Advantages

- Lowest number of properties directly impacted
- Mid-range impacts on traffic during construction (SR 15 / SR 896)
- Improves safety by separating local from through traffic, including truck traffic
- Significant reduction in traffic on existing US 301, Boyds Corner Road, Cedar Lane Road, Choptank Road and SR 299
- Second highest traffic volume using new US 301
- Mid-range cost to construct
- Lowest residential noise impacts and indirect impacts to historic resources

Disadvantages

- Major Impacts on Summit Airport - (FAA designated reliever airport, 85 employees, 100 based aircraft, State Police helicopter operations) - FAA likely to oppose Brown Alternatives
 - Brown South - direct impact on existing airport runway and support buildings and on expansion plans - a fatal flaw
 - Brown North - impacts the clear zone and expansion plans (potential fatal flaw)
- Complex 3-level interchange at US 301 / SR 896 / SR 15, south of Summit Bridge - difficult to mitigate indirect effects (noise, visual, etc.) on Lea Eara Farms and Summit Bridge Farms communities
- Proximity to Airmont community
- Proximity to new Appoquinimink High School (under construction) west of Middletown and St. George's Vo-Tech High School

Note: Visual earth berms would be provided between new US 301 and the Southridge, Middletown Village, Chesapeake Meadow, Summit Bridge Farms (Brown South only) Lea Eara Farms (Brown North only) and Airmont communities

CULTURAL & NATURAL ENVIRONMENT

Advantages

- Low wetland impacts (Brown South)
- Low waters of the US impacts (Brown South)
- Lowest cultural resources indirectly affected

Disadvantages

- High high quality wetland impacts (Brown North)
- Highest impact to Species Habitat Areas (Brown North)
- High forestland impacts (Brown South)
- High impacts on Agricultural Preservation Easements

Comparison of the Retained Alternatives - Cultural Resources

NOVEMBER 2006 ALTERNATIVES CULTURAL MATRIX	YELLOW		PURPLE		BROWN		GREEN with SPUR	
	Boyd's Corner Road Option 4 Spur Option 2	Boyd's Corner Road Option 4 Armstrong Corner Road Option 2A Spur Option 3B	NORTH	SOUTH	Armstrong Corner Road Option 2A Spur Option 3B	Armstrong Corner Road Option 2A Spur Option 3B	NORTH	SOUTH
Number of Properties Impacted	4	8	10	8	8	8	8	8
Number of Properties Impacted by Wetland	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of High Quality	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Moderate Quality	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Low Quality	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Very Low Quality	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of No Quality	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Unknown Quality	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of High Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Moderate Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Low Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Very Low Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of No Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Unknown Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of High Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Moderate Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Low Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Very Low Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of No Quality (Total)	0	0	0	0	0	0	0	0
Number of Properties Impacted by Wetland of Unknown Quality (Total)	0	0	0	0	0	0	0	0

Comparison of the Retained Alternatives - Engineering

NOVEMBER 2006 ALTERNATIVES IMPACT MATRIX	YELLOW	PURPLE + SPUR	BROWN NORTH	BROWN SOUTH	GREEN + SPUR NORTH	GREEN + SPUR SOUTH
Preliminary Cost (\$ millions)	\$986-\$758	\$816-\$680	\$550-\$408	\$459-\$551	\$534-\$390	\$528-\$382
ENGINEERING CONSIDERATIONS						
Total length of alternative (miles)	16.4	16.9	17.5	15.9	17.5	17.7
Total Area of Level of Construction (acres)	971.9	974.3	977.4	977.4	977.4	977.4
Number of Properties Impacted	377	154	100	100	152	152
Interchanges						
Number	4	5	5	5	6	6
1 Location(s)	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15
Type	SB Diamond	Diamond	Diamond	Diamond	Diamond	Diamond
2 Location(s)	North of Middletown	North of Middletown	SR896 at the base of Summit Bridge	SR896 at the base of Summit Bridge	North of Middletown	North of Middletown
Type	SB Ramp	Diamond	Partial Cloverleaf	Partial Cloverleaf	Diamond	Diamond
3 Location(s)	SR1 at Boyd's Corner Road	SR1 at Boyd's Corner Road	SR896 south of Summit Aviation	SR896 south of Summit Aviation	Jamison Corner Road	Jamison Corner Road
Type	Dispersal	Partial Cloverleaf	Partial Cloverleaf	Partial Cloverleaf	Diamond	Diamond
4 Location(s)	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road	Jamison Corner Road	Jamison Corner Road	SR1 North of Tol Plaza	SR1 North of Tol Plaza
Type	Partial Cloverleaf	Dispersal	Diamond	Diamond	Dispersal	Dispersal
5 Location(s)		Bathel Church Road	SR1 North of Tol Plaza	SR1 North of Tol Plaza	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road
Type		Partial Cloverleaf	Diamond	Diamond	Dispersal	Dispersal
6 Location(s)					Bathel Church Road	Bathel Church Road
Type					Partial Cloverleaf	Partial Cloverleaf
7 Location(s)						
Type						
Overpasses						
Number	11	11	8	8	9	9
1 Location(s)	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
2 Location(s)	Middlebrook Business & Technology Park	Bathel Hill Road				
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
3 Location(s)	Bathel Hill Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill Road	Bohemia Mill Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
4 Location(s)	Broad Street	US 301 Local	Old School House Road	Old School House Road	US 301 Local	US 301 Local
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
5 Location(s)	Churchtown Road	North-Southern Railroad	Churchtown Road	Churchtown Road	North-Southern Railroad	North-Southern Railroad
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
6 Location(s)	Existing US 301	SR 896	North-Southern Railroad	North-Southern Railroad	SR896	SR896
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
7 Location(s)	North-Southern Railroad	SR 896	Hyetts Corner Road	Hyetts Corner Road	Health Center Road	Health Center Road
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
8 Location(s)	Jamison Corner Road	Jamison Corner Road	Hyetts Corner Road	Hyetts Corner Road	Old Schoolhouse Road	Old Schoolhouse Road
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
9 Location(s)	Jamison Corner Road	Shalonska Lake Road	Shalonska Lake Road	Shalonska Lake Road	Churchtown Road	Churchtown Road
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
10 Location(s)	SR896	Churchtown Road				
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
11 Location(s)	Shalonska Lake Road	Churchtown Road				
Type	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane

Note 2: The Brown alternative includes costs for property acquisition at Summit Airport; however, it does not include any costs for improvements to the airport that may be required due to property acquisition. June 22, 2006

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