


# RETAINED ALTERNATIVES - COMPARISON OF ENVIRONMENTAL RESOURCES



February 22, 2006  
ALTERNATIVES IMPACT MATRIX

	YELLOW	PURPLE			BROWN		GREEN						IMPACT RANGE
	YELLOW	with spur: interchange option 1	with spur: interchange option 2	with spur: interchange option 3	North	South	North with spur: interchange option 1	North with spur: interchange option 2	North with spur: interchange option 3	South with spur: interchange option 1	South with spur: interchange option 2	South with spur: interchange option 3	
<b>Total Length of Alternative (miles)</b>	12.7	15.3	15.3	15.3	15.5	15.9	17.5	17.5	17.5	17.3	17.3	17.3	13 - 18
<b>Total Area of Limit of Construction (acres)</b>	1,066	868	955	850	921	907	881	935	863	865	919	847	847 - 1,066
<b>Potential Wetland/Waters of the US Impacts</b>													
<b>Total Area of Potential ACOE Wetlands<sup>1</sup> (acres)</b>	54.7	27.8	30.8	31.8	29.0	23.7	31.8	32.8	35.7	27.0	28.0	31.0	23.7 - 54.7
<b>High Quality</b>	10.2	8.4	10.6	9.0	14.0	12.5	10.5	12.0	11.1	11.3	12.6	11.8	8.4 - 14.0
Palustrian Forested	1.4	3.6	5.3	4.2	5.6	5.5	4.3	5.3	4.9	3.9	4.8	4.4	1.4 - 5.6
Palustrian Emergent	3.0	2.2	2.2	2.2	4.4	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2 - 4.4
Palustrian Shrub-Scrub	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
Palustrian Mixed	5.9	2.6	3.1	2.6	4.0	4.2	4.0	4.4	4.0	5.2	5.6	5.2	2.6 - 5.9
<b>Medium Quality</b>	29.0	9.2	11.3	13.7	6.8	9.9	16.7	17.3	21.1	10.2	10.9	14.7	6.8 - 29.0
Palustrian Forested	13.8	6.0	6.4	4.8	4.6	7.7	9.1	8.1	7.9	5.9	4.8	4.7	4.6 - 13.8
Palustrian Emergent	2.0	2.2	3.6	7.8	0.8	0.8	1.5	2.9	7.1	1.5	3.0	7.2	0.8 - 7.8
Palustrian Shrub-Scrub	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
Palustrian Mixed	13.1	1.1	1.3	1.1	1.5	1.5	6.1	6.3	6.1	2.8	3.0	2.8	1.1 - 13.1
<b>Low Quality</b>	14.5	4.5	3.6	3.5	8.2	1.3	4.2	3.2	3.2	5.4	4.5	4.5	1.3 - 14.5
Palustrian Forested	0	0.9	0	0	0.9	0.7	0.9	0	0	0.9	0	0	0.0 - 0.9
Palustrian Emergent	8.8	3.6	3.6	3.5	7.3	0.6	3.3	3.2	3.2	4.6	4.5	4.5	0.6 - 8.8
Palustrian Shrub-Scrub	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
Palustrian Mixed	5.2	0	0	0	0	0	0	0	0	0	0	0	0 - 5.2
<b>Other Wetlands</b>													
Type and/or quality undetermined to date	1.0	5.6	5.3	5.6	0	0	0.3	0.3	0.3	0.0	0.0	0.0	0 - 6
<b>Number of Wetlands Impacted</b>	45	46	55	55	38	32	44	50	42	44	50	42	32 - 55
<b>Number of Wetland Crossings</b>	2	6	7	6	9	6	7	8	7	8	9	8	2 - 9
<b>Number of Wetlands with Complete Fragmentation</b>	10	4	6	5	2	3	4	5	5	6	6	6	2 - 10
<b>Waters of the US (non-wetland)<sup>2</sup></b>	21,282	15,114	15,297	14,063	13,879	13,178	13,959	13,907	12,902	14,810	14,994	13,759	12,902 - 21,282
Streams (linear feet)	215	271	271	271	923	1,898	355	355	355	532	532	532	215 - 1,898
Ditches (linear feet)	21,067	14,843	15,027	13,793	12,955	11,280	13,605	13,552	12,547	14,278	14,462	13,228	11,280 - 21,067
Open Waters (ponds, SWM) (acres)	4.1	3.3	3.3	3.3	3.0	5.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0 - 6
<b>DNREC Sub-Aqueous Lands (linear feet)</b>	5,921	4,693	5,659	4,693	7,958	8,019	6,405	6,918	6,403	6,970	7,482	6,970	4,693 - 8,019
<b>Area of DNREC State of Delaware Tidal Wetlands<sup>3</sup> (acres)</b>	0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.6 - 1
<b>Recharge Areas (acres)</b>	629	536	582	520	484	476	458	506	441	477	525	460	441.3 - 629
<b>Tax Ditches (linear feet)</b>	81	624	608	51	0	192	624	608	51	624	608	51	0 - 624
<b>Tax Ditch Watershed area (acres)</b>	12	58	55	33	28	55	58	56	33	58	56	33	11.8 - 58
<b>Area of Hydric Soils (acres)</b>	156	125	141	133	117	112	132	145	139	125	138	132	112.4 - 156
<b>Potential Floodplain Impacts - FEMA</b>													
<b>Area of 100-Year Floodplain (acres)</b>	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7 - 2.5
<b>Potential Agricultural Impacts</b>													
<b>Agricultural Districts - Ten-Year (number)</b>	1	1	1	1	1	1	1	1	1	1	1	1	1.0 - 1.0
Area (acres)	14.1	29.2	29.5	29.2	29.2	29.2	29.2	29.5	29.2	29.2	29.5	29.2	14.1 - 29.5
<b>Number of Agricultural Districts within 3 miles of Alternative</b>	9	7	7	7	6	6	6	6	6	6	6	6	6 - 9
<b>Agricultural Preservation Easements - Permanent (number)</b>	0	1	1	1	1	1	1	1	1	1	1	1	0 - 1
Area (acres)	0	6.1	6.1	6.1	9.4	11.7	6.1	6.1	6.1	6.1	6.1	6.1	0 - 11.7
<b>Number of Agricultural Easements within 3 miles of Alternative</b>	3	3	3	3	2	2	2	2	2	2	2	2	2 - 3
<b>Agricultural Suitability (Land Evaluation Site Assessment Model)<sup>4</sup></b>													
Total LESA Model (score)	195	205	206	205	199	203	213	213	213	205	207	205	195 - 213
LESA Model without existing and planned development (score)	222	224	224	224	202	209	224	226	224	217	220	218	202 - 226
<b>Prime Farmland Soil Area (acres)</b>	194	419	442	405	428	438	469	491	455	431	452	416	194 - 491
Ratio of prime farmland to total prime farmland in New Castle County (percent) (74,454 acres total)	0.26	0.56	0.59	0.54	0.58	0.59	0.63	0.66	0.61	0.58	0.61	0.56	0.3 - 0.7
<b>Potential Hazardous Waste Impacts</b>													
<b>Number of EPA Sites</b>	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
<b>Number of Sites identified as potential sources of contamination</b>	8	8	8	8	7	7	5	5	5	5	5	5	5 - 8
<b>Number of NPDES Locations</b>	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
<b>Potential Natural Resource Impacts</b>													
<b>Natural Areas Inventory (acres)</b>	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0 - 0
<b>State Resource Areas<sup>5</sup></b>	2.7	2.7	2.7	2.7	0	0	0	0	0	0	0	0	0 - 3
Protected (acres)	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
Proposed (acres)	2.7	2.7	2.7	2.7	0	0	0	0	0	0	0	0	0 - 3
<b>Forestland: 2002 Land Use</b>	39.5	46.8	43.6	41.6	42.1	55.4	52.4	48.6	47.2	45.1	41.4	40.0	39.5 - 55.4
Deciduous (acres)	23.1	46.1	42.2	40.9	40.4	51.1	51.7	47.3	46.5	44.5	40.0	39.3	23.1 - 51.7
Evergreen (acres)	10.2	0.0	0.7	0.0	1.0	3.7	0	0.7	0.0	0.0	0.7	0.0	0 - 10.2
Mixed (acres)	6.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7 - 6
<b>State Forest Lands</b>	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
State-Owned State Forest Properties (acres)	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
Conservation Easement Properties (acres)	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
<b>Potential Rare, Threatened and Endangered Species Areas<sup>6</sup></b>	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	0 - 0
<b>Habitat Areas (Wildlife &amp; Plant) (acres)<sup>7</sup></b>	46.3	52.5	50.9	48.9	67.5	57.0	54.3	51.9	50.6	47.6	45.0	43.9	43.9 - 67.5
<b>Potential Planning Resources</b>													
<b>Strategies for State Policy and Spending (acres)</b>													
Level 1	53	0	0	0	0	0	0	0	0	0	0	0	0 - 53
Level 2	407	205	202	205	202	209	234	234	234	218	218	218	202 - 407
Level 3	314	422	456	420	513	480	406	437	404	406	437	404	314 - 513
Level 4	83	203	215	187	159	185	203	218	187	203	218	187	83 - 218
<b>Potential Section 4(f) Properties</b>													
<b>Number of Publicly-Owned Parks and Recreation Areas<sup>8</sup></b>	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
<b>Acres of Publicly-Owned Parks and Recreation Areas</b>													
Federally Owned	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
State Owned	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
County Owned	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
Municipal Owned	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
<b>Number of Publicly-Owned Wildlife and Waterfowl Refuges</b>	0	0	0	0	0	0	0	0	0	0	0	0	0 - 0
<b>Number of Historic Properties<sup>9</sup></b>	4	0	0	0	0	0	0	0	0	0	0	0	0 - 4

# RETAINED ALTERNATIVES - COMPARISON OF CULTURAL RESOURCES

 February 22, 2006 ALTERNATIVES IMPACT MATRIX		YELLOW	PURPLE with spur		PURPLE with spur interchange option 2		PURPLE with spur interchange option 3		BROWN North Option		BROWN South Option		GREEN North with spur interchange option		GREEN North with spur interchange option 2		GREEN North with spur interchange option 3		GREEN South with spur interchange option 1		GREEN South with spur interchange option 2		GREEN South with spur interchange option 3		
<b>Potential Impacts on Cultural Resources</b>																									
<b>Historic Properties<sup>1</sup></b>																									
Count of Properties to be evaluated for Direct Effects <sup>2</sup>		4	0		0		0		0		0		0		0		0		0		0		0		
Count of Properties to be evaluated for Visual and Audible Effects <sup>3</sup>		13	12		13		13		9		9		10		11		11		11		12		12		
Count of Properties to be evaluated for this Alternative <sup>5</sup>		15	12		13		13		9		9		10		11		11		11		12		12		
Total Area of Limit of Disturbance (acres)		1,066	868		955		850		921		907		881		935		863		865		919		847		
<b>Predictive Model: Pre-Historic Sensitivity in the Limit of Disturbance</b>																									
High Sensitivity Area [acres   % of total area]		15	1.7%	17	2.0%	18	2.1%	17	2.1%	20	2.2%	21	2.3%	19	2.3%	19	2.1%	19	2.3%	21	2.5%	21	2.3%	21	2.5%
Moderate Sensitivity Area [acres   % of total area]		92	10.5%	162	19.1%	166	18.7%	163	19.6%	261	28.6%	254	28.0%	210	24.5%	214	23.6%	211	25.1%	238	28.2%	242	27.2%	239	28.9%
Low Sensitivity Area [acres   % of total area]		544	62.3%	551	65.1%	577	65.0%	532	64.2%	527	57.8%	504	55.6%	543	63.1%	575	63.5%	524	62.2%	498	59.1%	529	59.4%	479	58.1%
Nil Sensitivity Area [acres   % of total area]		222	25.4%	116	13.7%	128	14.4%	117	14.1%	103	11.3%	127	14.0%	87	10.1%	98	10.8%	87	10.3%	87	10.3%	98	11.0%	87	10.5%
<b>Predictive Model: Historic Sensitivity in the Limit of Disturbance</b>																									
High Sensitivity Area [acres   % of total area]		41	4.7%	7	0.9%	9	1.0%	8	1.0%	5	0.5%	5	0.5%	5	0.6%	7	0.8%	7	0.8%	7	0.8%	8	0.9%	8	0.9%
Moderate Sensitivity Area [acres   % of total area]		328	37.6%	199	23.5%	228	25.7%	200	24.1%	216	23.6%	212	23.4%	196	22.8%	226	24.9%	198	23.5%	196	23.3%	226	25.4%	198	23.9%
Low Sensitivity Area [acres   % of total area]		504	57.7%	641	75.6%	652	73.3%	620	74.9%	691	75.8%	688	76.1%	658	76.5%	673	74.3%	637	75.7%	640	76.0%	655	73.6%	620	75.2%
<b>Area of Potential Effects</b>																									
Number of Historic Properties <sup>3</sup>		15	12		13		13		9		9		10		11		11		11		12		12		

<b>Potential Section 4(f) Properties</b>		4		0		0		0		0		0		0		0		0		0		0	
Number of Historic Properties <sup>4</sup>		4		0		0		0		0		0		0		0		0		0		0	
Date of Alternative Design Update		01/12/06		01/12/06		01/12/06		01/12/06		11/18/05		11/18/05		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06	
Date of Impacts Update		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06		01/12/06	

- Note 1: Historic Properties are resources Listed on or Determined Eligible for the National Register of Historic Places based on Consultant Recommendations dated 11/23/2005.
- Note 2: Properties to be evaluated for Direct Effects include any property within the limit of disturbance for the Alternative, and also include situations where demolition of all or some of the contributing components to the resource is proposed.
- Note 3: Properties to be evaluated for Visual and Audible Effects are located within 600 feet of the centerline of the Alternative.
- Note 4: Number of Properties to be evaluated for this Alternative reflects the unique number of historic properties with potential direct, visual or audible effects. Because some properties will be evaluated for more than one effect type, this number IS NOT the total of the three lines above it.
- Note 5: Number of properties Listed on or Determined Eligible for the National Register of Historic Places (Consultant Recommendation) that may be directly, visually, or audible affected by the Alternative (within 600 feet of the centerline). This number IS THE SAME as the Number of Properties to be Evaluated for this Alternative (see above).
- Note 6: Number of resources Listed on or Determined Eligible for the National Register of Historic Places (Consultant Recommendation) that may be directly affected by the Alternative (within the limit of disturbance). Assumes that Archeological Sites are generally exempted from Section 4(f) protection. This number IS THE SAME as the Number of Properties to be evaluated for Direct Effects (see above).

## Comparison of Environmental Resources Notes:

- Work in Progress. Impacts DO NOT include portions of the alternatives in Maryland.
- Note 1: Total Potential ACOE Wetlands equals total of high, medium, low and other quality wetlands. Wetlands are based on field delineations, updated 02-10-2006. ACOE and DNREC Tidal Wetlands should not be added together. Wetlands are based on field delineations using Global Positioning System (GPS) and partially verified by ACOE. Field delineations extend length of alternative, including Maryland. Some impacts may include a small percentage of 2002 Land Use data (instead of field delineations) where the alternative has been revised to extend beyond the fieldwork area. The number of wetlands impacted is the number of unique wetland features within the limit of disturbance (LOD) for the alternative. The number of crossings is the number of unique wetland features spanned by structures included in the alternative. Delaware's Tidal Wetlands were identified using DNREC's delineation maps.
- Note 2: Includes GPS'd, field delineated streams, ditches, ponds and SWMs. Does not include stream segments within wetlands. Some ditches are also included in the Tax Ditch impacts.
- Note 3: The Land Evaluation Site Assessment (LESA) Model is a State and Federally approved land analysis system; this 300 point-based rating system identifies farm parcels that are most suitable for long-term agricultural practices. The Land Evaluation (LE) factor is determined by using a land use dependent soil productivity index, the Site Assessment (SA) factor is derived from non-soil factors many of which are non-agricultural. A higher LESA score indicates high agricultural suitability for a particular parcel. The LESA score for each parcel impacted by each alternative was calculated, that LESA score was multiplied by amount of land within the parcel impacted by each alternative to obtain the acre-weighted total score for the specific segment of land impacted. The same math was applied to each parcel affected; the acre-weighted total score for each segment of a parcel affected was then added and divided by the number of acres impacted by each alternative. The result was the acre-weighted score for each corresponding alternative.
- Note 4: State Resource Areas include State Parks and Forests. Properties listed include protected and proposed designations.
- Note 5: Anticipated impacts to Rare, Threatened and Endangered Species based on coordination to date with DNREC. Detailed evaluation and coordination with DNREC and US Fish and Wildlife Service is continuing. The data represented in the Potential Rare, Threatened and Endangered (RTE) Species Areas row are not exhaustive. These data represent known occurrences of RTE Species, not potential habitat for RTE Species. Many habitats that may be impacted by the US 301 project have never been surveyed for RTE's and; that these yet to be surveyed areas may well harbor RTE's that would not be represented in the ratings given to them in the matrix. The habitats represented encompass both upland and wetland terrestrial habitats.
- Note 6: From DNREC's Outdoor Recreation Inventory and New Castle County Parks files.
- Note 7: Same as total of Historic Properties. Assumes that Archeological Sites are generally exempted from Section 4(f) protection.

# RETAINED ALTERNATIVES - COMPARISON OF ENGINEERING FEATURES

 February 22, 2006 ALTERNATIVES IMPACT MATRIX		YELLOW	PURPLE with spur interchange option 1	PURPLE with spur interchange option 2	PURPLE with spur interchange option 3	BROWN North	BROWN South	GREEN North with spur interchange option 1	GREEN North with spur interchange option 2	GREEN North with spur interchange option 3	GREEN South with spur interchange option 1	GREEN South with spur: interchange option 2
<b>General Considerations</b>												
<b>Preliminary Cost (\$ millions)<sup>1</sup></b>		\$603	\$500			\$543	\$579	\$552			\$567	
<b>ENGINEERING CONSIDERATIONS</b>												
<b>Total length of alternative (miles)</b>		12.7	15.3	15.3	15.3	15.5	15.9	17.5	17.5	17.5	17.3	17.3
<b>Total Area of Limit of Construction (acres)</b>		1,066	868	955	850	921	907	881	935	863	865	919
<b>Number of Properties Impacted</b>		323	127			110	111	126			124	
<b>Interchange(s)</b>												
Number		3	4	4	4	5	5	5	5	5	5	5
1 Location(s)		Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15	Levels Road/SR15
Type		Split Diamond	Diamond	Diamond	Diamond	Diamond	Diamond	Diamond	Diamond	Diamond	Diamond	Diamond
2 Location(s)		North of Middletown	North of Middletown	North of Middletown	North of Middletown	SR896 at the base of Summit Bridge	North of Middletown	North of Middletown	North of Middletown	North of Middletown	North of Middletown	North of Middletown
Type		Slip Ramps	Diamond	Diamond	Diamond	Partial Cloverleaf	Half Diamond	Diamond	Diamond	Diamond	Diamond	Diamond
3 Location(s)		SR1 at Boyds Corner Road	SR1 at Boyds Corner Road	SR1 at Boyds Corner Road	SR1 at Boyds Corner Road	SR896 north of Summit Aviation	SR896 north of Summit Aviation	Jamison Corner Road	Jamison Corner Road	Jamison Corner Road	Jamisons Comer Road	Jamisons Comer Road
Type		Directional	Directional	Directional	Directional	Partial Cloverleaf	Partial Cloverleaf	Diamond	Diamond	Diamond	Diamond	Diamond
4 Location(s)			SR15/SR896/Choptank Road	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road	Jamison Corner Road	Jamison Corner Road	SR1 North of Toll Plaza	SR1 North of Toll Plaza	SR1 North of Toll Plaza	SR1 North of Toll Plaza	SR1 North of Toll Plaza
Type			Diamond	Diamond	Diamond	Diamond	Diamond	Directional	Directional	Directional	Directional	Directional
5 Location(s)						SR1 North of Toll Plaza	SR1 North of Toll Plaza	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road	SR15/SR896/Choptank Road
Type						Directional	Directional	Diamond	Diamond	Diamond	Diamond	Diamond
6 Location(s)												
Type												
7 Location(s)												
Type												
<b>Overpass(es)</b>												
Number		11	11	11	11	8	8	9	9	9	9	9
1 Location(s)		Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane	Strawberry Lane
2 Location(s)		Middletown Business & Technology Park	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road	Bunker Hill Road
3 Location(s)		Bunker Hill Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill Road	Bohemia Mill Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road	Bohemia Mill/Armstrong Corner Road
4 Location(s)		Broad Street	US 301 Local	US 301 Local	US 301 Local	Old School House Road	Old School House Road	US 301 Local	US 301 Local	US 301 Local	US 301 Local	US 301 Local
5 Location(s)		Marl Pit Road	Norfolk-Southern Railroad	Norfolk-Southern Railroad	Norfolk-Southern Railroad	Churchtown Road	Churchtown Road	Norfolk-Southern Railroad	Norfolk-Southern Railroad	Norfolk-Southern Railroad	Norfolk-Southern Railroad	Norfolk-Southern Railroad
6 Location(s)		Existing US 301	SR 896	SR 896	SR 896	Norfolk-Southern Railroad	Norfolk-Southern Railroad	SR 896	SR 896	SR 896	SR 896	SR 896
7 Location(s)		Norfolk-Southern Railroad	Jamison Corner Road	Jamison Corner Road	Jamison Corner Road	Ratledge Road	Ratledge Road	Hyetts Corner Road	Hyetts Corner Road	Hyetts Corner Road	Hyetts Corner Road	Hyetts Corner Road
8 Location(s)		SR896	SR 896	SR 896	SR 896	Hyetts Corner Road	Hyetts Corner Road	Old Schoolhouse Road	Old Schoolhouse Road	Old Schoolhouse Road	Old Schoolhouse Road	Old Schoolhouse Road
9 Location(s)		Jamison Corner Road	Shallcross Lake Road	Shallcross Lake Road	Shallcross Lake Road			Churchtown Road	Churchtown Road	Churchtown Road	Churchtown Road	Churchtown Road
10 Location(s)		SR896	Old Schoolhouse Road	Old Schoolhouse Road	Old Schoolhouse Road							
11 Location(s)		Shallcross Lake Road	Churchtown Road	Churchtown Road	Churchtown Road							

Note 1: Cost Estimate includes Right of Way Costs