

**TABLE 3-1 (Sheet 3 of 3)
ROUTE U.S. 1 PENNS NECK AREA IMPROVEMENTS
ALTERNATIVE IMPROVEMENT SCHEMES - SUMMARY MATRIX**

		Alignment Scheme		
Impact				
Parameter		Depress Route U.S. 1	Route U.S. 1 Frontage Rd	Alexander Road Connection
Meets Project Need/Objectives				
	1. Route U.S. 1 LOS (Project Need)	No	Yes	No
	2. Maintain Traffic Distribution	Yes	Yes	No
	3. Meet Planning Initiatives	No	No	No
	4. Avoid/Minimize Human Impacts	No	No	No
	5. Avoid/Minimize Environmental Impacts	Yes	Yes	No
Natural Environment				
Land Use and Zoning Impacts		Loss of highway access for	Front yard impacts to Sarnoff;	Major residential/business takes;
		service stations, businesses,	bisects University land, affecting	relocations required.
		residences on Route 1. Min.	development plans; linear ROW	
		ROW takes from Sarnoff	takes on Sarnoff and University	
		and University.	properties.	
	ROW Acquisition Area (Permanent)	Minimal	44 Acres	Not calculated.
	Prime Farmland Soils Impacts (Acres)	Minimal	23	Minimal
100 Year Floodplain Impacts				

	(LF)			
	Little Bear Brook	Minimal	1,200	1,100 to 2,800 depending on location.
	Millstone River	Minimal	700	N/A
	Floodway Impacts (LF)	Minimal	150	150
	Wetlands Impacts (Acres)	Minimal	1.02	Not calculated.
	Visually Sensitive Site Impacts	Impacts to views across Rt 1	Impacts to private viewshed on	Minimal
		from mandatory fencing/walls;	Sarnoff property; new public	
		maintains private viewsheds on	views on Sarnoff and University	
		Sarnoff and University	properties.	
		properties.		
	Section 4(f) Parkland Impacts	None.	Minor D&R property acquisition near	None.
			Harrison St.	
	Adverse Effects to Historical/Archaeological			
	Sites (Site Numbers keyed to Fig 4-9)	7, 16, 19, 20 (8, 9, 10 assuming bypass)	8, 9, 10, 15, 16, 19, 20	1, 16, 18, 20
	Sensitive Air/Noise Receptors			
	Min. Distance (Linear Feet)	Adjacent	50	Adjacent

	Location	Wash. Rd residences; Rt 1	Residences on Logan Drive.	Residences south of Washington Rd.
		residences and Baptist Church.		
	D&R Canal Park Proximity - Min. Dist. (Ft)	N/A	2,000	(see Traffic and Engineering Considerations)
	Known/Potential Hazardous	Exxon Service Station.	Exxon Service Station.	Exxon, 2 businesses on Alexander Rd.
	Waste Sites			
	Traffic and Engineering			
	Considerations	Turning movements prohibited	1 grade-separated interchange;	Shifts Washington Road traffic
		at Route 1; no elimination of	overpass between Sunoco and	distribution to Alexander Rd;
		Harrison St. signal. Would	Eden; maintains traffic distribution.	Improvements required to Alexander
		require new interchange and	4 traffic signals on Relocated Rt. 571.	Rd, Rt 1 interchange, and D&R
		bypass road to accommodate	Harrison St. cul de sac.	crossing. Signals at Fisher Place and
		access to/from Rt 1.		Harrison Street would remain.