

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

		Alignment Scheme							
Impact		No	Preferred						
Parameter		Build	Alternative	A	C	E-1	F		
Meets Project Need/Objectives									
1. Route U.S. 1 LOS (Project Need)		No	Yes	Yes	Yes	Yes	Yes		
2. Maintain Traffic Distribution		Yes	Yes	Yes	Yes	Yes	Yes		
3. Meet Planning Initiatives		No	Yes	No	No	Yes	No	including Eden Institute, Sunoco	
4. Avoid/Minimize Human Impacts		Yes	Yes	No	No	No	No	Station and residences.	
5. Avoid/Minimize Environmental Impacts		Yes	Yes	No	Yes	No	No		
								38 Acres	
Natural Environment									
Land Use and Zoning Impacts		None.	Front yard impacts to Sarnoff and University properties at	Impacts to businesses and residences at Penns Neck Circle;	Bisects University property; Impacts to main Sarnoff entrance;	Impacts to businesses at Harrison St.; linear ROW takes	Front yard impacts to Sarnoff and University properties at		
			Route 1; linear ROW takes from Sarnoff and University properties;	linear ROW takes from Sarnoff property; impact to Baptist Church.	linear ROW takes on Sarnoff and University properties. Front yard impacts to Sarnoff and University.	on Sarnoff and University lands; Sunoco Station take.	Route 1; Bisects University property. Substantial PSE&G take		
			Property takes on Logan Drive including Eden Institute, Sunoco		Proximity to Penns Neck community.		(\$15M + cost); linear ROW takes on Sarnoff and University properties.		
			Station and residences.						
ROW Acquisition Area (Permanent)		None.	50.44 acres	44 acres	52.14 acres	50 acres	70 acres		
Prime Farmland Soils Impacts (Acres)		None.	26.42	17	25.91	15.4	30.9		

	100 Year Floodplain Impacts (LF)									
	Little Bear Brook	None.	1,200	2350	1,180	2,000	2,000			
	Millstone River	None.	700	1300	500	1,900	1,100			
	Floodway Impacts (LF)	None.	150	1,000	150	1,000	1,000			
	Wetlands Impacts (Acres)	None.	1.1	4.38	1.84	4.53	3.81			
	Visually Sensitive Site Impacts	None.	Impacts to private viewshed on	Impacts to private viewshed	Impacts to Sarnoff Center main	Impacts to private viewshed on	Impacts to private viewshed on			
			Sarnoff property; new public	on Sarnoff property; new	entrance; Impacts to public	Sarnoff property; new public	Sarnoff property; new public			
			views on Sarnoff and University	public views on Sarnoff	and private viewsheds on	views on Sarnoff and University	views on Sarnoff and University			
			properties.	property; retaining wall impacts	University property.	properties.	properties.			
				to Washington Rd residents.						
	Section 4(f) Parkland Impacts	None.	Minor D&R property acquisition near	None.	Minor D&R property acquisition near	Minor D&R property acquisition near	Minor D&R property acquisition near			
			Washington Rd and Harrison St.		Harrison St.	Washington Rd and Harrison St;	Washington Rd and Harrison St.			
						proximity of Rel. Rt. 571 to Park.				
	Adverse Effects to Historical/Archaeological									
	Sites/4(f) (Site Numbers keyed to Fig 4-9)	None.	1, 8, 9, 10, 15, 16, 19, 20	7, 8, 9, 10, 16, 17, 19, 20	1, 16, 19, 20	1, 8, 9, 10, 16, 17, 20	1, 8, 9, 10, 16, 19, 20			

	Sensitive Air/Noise Receptors									
	Min. Distance (Linear Feet)	40	50	40	130	30	N/A			
	Location	Residences at Route 1,	Residences on Logan Drive.	Residences at Route 1,	Residences (Penns Neck Community)	Residences on Harrison				
		Washington Rd, Harrison St.		Washington Rd, Harrison St.	on Fisher Place Near Route 1.	Street.				
	D&R Canal Park Proximity - Min. Dist. (Ft)	N/A	450	N/A	1,150	150	N/A			
	Known/Potential Hazardous									
	Waste Sites	Leaking USTs at Exxon and	Alignment traverses dump site	Alignment traverses dump	Alignment traverses on/near dump	Alignment traverses dump site	Alignment traverses dump site			
		Sunoco Stations. Dump on	on Sarnoff property near	site on Sarnoff property near	site on Sarnoff property near	site on Sarnoff property	on Sarnoff property near			
		Sarnoff property.	Little Bear Brook. Leaking USTs	Little Bear Brook.	Little Bear Brook. Leaking USTs	near Little Bear Brook.	Little Bear Brook.			
			at Exxon and Sunoco Stations.		at Exxon Station.					
	Traffic and Engineering									
	Considerations	Traffic signals and intersection	1 grade-separated interchange;	2 grade-separated crossings (un-	1 grade-separated crossing	1 grade-separated crossing	1 grade-separated crossing			
		configurations to remain; existing	overpass between Sunoco and	desirable), one at exist Washington	just north of Washington Road.	at Harrison St. Utilizes exist.	midway between Washington			
		LOS to further degrade for longer duration	Eden; maintains traffic distribution.	Rd (thru and right turns only) &	Relocated 571 is parallel and adjacent	Harrison St. ROW.	Rd. and Harrison St; uses Harrison			
		with traffic growth; no abatement of	3 traffic signals on Rel. Rt 571.	Relocated 571 at Harrison St.	to Penns Neck community (undesirable);	Maintains traffic distribution.	St to access 571 WB from Rt 1 SB			
		existing traffic congestion; no	Harrison St. cul de sac.	(thru & turning movements).	maintains traffic distribution; 4 traffic signals on	4 traffic signals on Rel. Rt 571.	(undesirable); maintains traffic			
		improvement of pedestrian and		Maintains traffic distribution.	Rel. Rt 571; interchange does not provide all		distribution; 3 traffic signals on Re. Rt 571;			

		bicycle routes; continued		3 traffic signals on Rel. Rt 571; limits	turns, requires some turning movements		cul de sac on Logan Drive.		
		deterioration of Millstone bridge.		residential/business access at Rt 1/Wash Rd.	at Harrison St.				