Summary of Impacts of All Build Alternatives

RESOURCE	ALTERNATIVES 3A/B ¹	ALTERNATIVES 4A/B ¹	ALTERNATIVES 5A/B ¹	ALTERNATIVE 5C1	ALTERNATIVES 6A/B ²	ALTERNATIVES 7A/B ²	NOTES:
Natural Environment		DEIS Alternatives			AA/EA A	lternatives	
Total Limit of Disturbance (Edge of Pavement to new ROW)		1			1,476 acres	1,476 acres	
Highway Component					1,192 acres	1,192 acres	
Transitway Component					284 acres ⁴	284 acres ⁴	
Prime Farmland Soils Total	284.6 acres	284.6 acres	290.2 acres	207.7 acres	742.6 acres	742.6 acres	
Highway component	195.8 acres	195.8 acres	202.4 acres	207.7 acres	642 acres	642 acres	
Transitway component	88.8 acres	88.8 acres	88.8 acres	n/a	100.6 acres ⁴	100.6 acres ⁴	
Soils of Statewide Importance Total	367 acres ³	367 acres ³	391.9 acres ³	339.6 acres ³	488.7 acres	488.7 acres	
Highway component	Jor deles	Jon deles	331.3 deles	333.0 deres	460 acres	460 acres	
Transitway component					28.7 acres ⁴	28.7 acres ⁴	1. Impacts of Alternatives 3A/B, 4A/B, 5A/B and
Number of farmlands	30	30	30	27	38 parcels	38 parcels	5C are from the 2002 DEIS.
Active Farmland required	133 acres	133 acres	143 acres	106 acres	191 acres	191 acres	2. Alternatives 6A/B and 7A/B have an identical
							highway footprint.
Floodplains — Total	23 acres	23 acres	24 acres	21 acres	28.4 acres	28.4 acres	3. Total includes all soils in Frederick County (in-
Highway component	20 acres	20 acres	21 acres	21 acres	25.6 acres	25.6 acres	cluding prime farmland and soils of statewide
Transitway component	3 acres	3 acres	3 acres	n/a	2.8 acres ⁴	2.8 acres ⁴	importance) plus soils of statewide importance
Forest – Total	183 acres	183 acres	199 acres	180 acres	295.8 acres ⁴	295.8 acres ⁴	in Montgomery County (as calculated in the
Highway component	156 acres	156 acres	172 acres	180 acres	268.6 acres	268.6 acres	2002 DEIS).
Transitway component	27 acres	27 acres	27 acres	n/a	27.2 acres	27.2 acres	4. Does not include potential impacts of transit
Rare, Threatened and Endangered Species					Potential⁵	Potential⁵	O&M facilities, as only one may be chosen.
Waters of the US – Total Streams ⁷	14,185 linear feet streams ^{6,7}	14,185 linear feet streams ^{6,7}	16,331 linear feet streams ^{6,7}	13,407 linear feet streams ^{6,7}	24,204 linear feet streams ^{4,6,7}	24,204 linear feet streams ^{4,6,7}	5. Potential direct and indirect impacts to two fish
Waters of the US – Total Wetlands	10.7 acres wetlands	10.7 acres wetlands	11.6 acres wetlands	10.7 acres wetlands	15.6 acres wetlands	15.6 acres wetlands	species: pearl dace and comely shiner.
Highway Component							6. Does not include ephemeral streams
Streams	11,245 linear feet	11,245 linear feet	13,391 linear feet	13,407 linear feet	20,198 linear feet	20,198 linear feet	7. Since 2002, the USACE has broadened the
Ephemeral channels ⁷	_	_	_	_	10,812 linear feet ⁷	10,812 linear feet ⁷	definition of waters of the US to include
Wetlands	9.1 acres	9.1 acres	10.0 acres	10.7 acres	13 acres	13 acres	ephemeral channels. Ephemeral channels were
Transitway Component							not quantified in the 2002 DEIS.
Streams	2,940 linear feet	2,940 linear feet	2,940 linear feet	n/a	4,006 linear feet	4,006 linear feet	8. The Atomic Energy Commission Building
Ephemeral channels ⁷	_	_	_	-	1,646 linear feet	1,646 linear feet	was not evaluated for eligibility in the 2002
Wetlands	1.6 acres	1.6 acres	1.6 acres	n/a	2.6 acres	2.6 acres	DEIS and is not included in these numbers. It
Cultural Resources							is presumed that the DEIS alternatives 3A/B,
Historic Properties	7 properties ⁸	7 properties ⁸	7 properties ⁸	5 properties ⁸	7 properties/43.28 acres ⁹	7 properties/43.28 acres ⁹	4A/B and 5A/B would have similar impacts as
Highway component (number/acres)	7 properties	/ properties	7 properties	5 properties	5/31.17 acres	5/31.17 acres	Alternatives 6A/B and 7A/B. Alternative 5C
Transitway component (number/acres)					3/12.11 acres	3/12.11 acres	would only have highway impacts.
Socioeconomic Resources					3/12.11 dcle3	3/12.11 dcle3	9. Two resources, Seneca Creek State Park and
	11	11	12 parks/44 acres	12 mayla /40 maya	12	12	the Atomic Energy Commission Building, are
Public Parks – Total	11 parks/37 acres	11 parks/37 acres	12 parks/44 acres	13 parks/48 acres	13 parks/42.72 acres ¹⁰	13 parks/42.72 acres ¹⁰	impacted by both highway and transitway. One
Highway component (number/acres)					13/37.56 acres	13/37.56 acres	additional property is only affected by noise.
Transitway component (number/acres)	<u> </u>				1/5.16 acres	1/5.16 acres	10. One park is impacted by both the highway and
Right-of-Way — Total ¹¹	562 acres	562 acres	592 acres	446 acres	748 acres	748 acres	transit components.
Highway component	392 acres	392 acres	422 acres	446 acres	578 acres	578 acres	11. Highway component for Alternatives 6A/B and
Transitway component (not including O&M facility)	170 acres	170 acres	170 acres	n/a	170 acres	170 acres	7A/B includes one park and ride lot. Highway
Residential Displacements ¹² – Total	64-127	64-127	64-128	127-385	256-260	256-260	component for the 2002 DEIS alternatives
Highway component					251	251	includes three park and ride lots.
Transitway component					5-9	5-9	12. Updates to displacements are ongoing.
Business Displacements ¹² — Total	4-11	4-11	4-12	2-11	13-43	13-43	
Highway component					10-11	10-11	For O&M facility impacts, see Table S-3.
Transitway component (not including O&M facility)					3-32	3-32	
Air Quality - Number of receptors with CO violations	0	0	0	0	0	0	
Noise – Highway Total monitored/modeled locations	55 locations	55 locations	55 locations	55 locations	55 locations	55 locations	
Locations exceeding abatement criteria	26 residential impacts	26 residential impacts	26 residential impacts	35 residential impacts	27 residential impacts	26 residential impacts	
Transitway	10 non-residential impacts	10 non-residential impacts	9 non-residential impacts	9 non-residential impacts	13 non-residential impacts	13 non-residential impacts	
Total monitored/modeled locations	15 locations	15 locations	15 locations	5 non residential impacts	5 locations	25 locations	
Locations exceeding abatement criteria	13 residential impacts with	13 residential impacts with horn	13 residential impacts with horn		4 residential impacts (LRT)	4 residential impacts (LRT)	
Locations exceeding abatement criteria	horn noise (LRT)	noise (LRT)	noise (LRT)		- residential impacts (LIVI)	+ residential impacts (Livi)	
	7 residential impacts without	7 residential impacts without	7 residential impacts without				
	horn noise (LRT)	horn noise (LRT)	horn noise (LRT)				
Librardous Materials - Number of offseted assessmins				4 (high)	6 (4 bighway 2 transiture)	6 (4 highway 2 transiture)	
Hazardous Materials – Number of affected properties	6 (4 highway, 2 transitway)	6 (4 highway, 2 transitway)	6 (4 highway, 2 transitway)	4 (highway)	6 (4 highway, 2 transitway)	6 (4 highway, 2 transitway)	