

Summary of Preliminary Impacts and Feasibility of the Range of Reasonable Alternatives Retained for Continued Screening July 2001

Purpose and Needs

Physical and Biological Environment

Alternative	Satisfy Purpose (yes/no)		Satisfy Needs (yes/no)		NWI & Hydric Soils (acres)	NWI/Hydric Soils (acres)	# of Wetlands (each/acre)	Water Crossings (No./ Fish)	Undeveloped Wildlife Habitat	Notable Wildlife Habitat (acres)	Aquifers: Surface Area Impacted (acres)	High Yield Aquifers (acres)	Floodplains (acres)	Community Wells Directly Impacted (each)	Active Farmland (acres)	Prime Farmland Soils (acres)	Farmland Soils of Statewide Importance (acres)
	no	yes	no	yes													
No-build	no	no															
1	yes	yes			30.3	0.0	3	5/0	43.1	0.0	165.0	0.0	1.5	0	14.4	54.7	0
2B	yes	yes			27.8	3.2	5	6/2	92.5	0.0	120.0	0.0	10.5	0	17.1	23.3	0
3AI	yes	yes			43.0	0.7	3	5/2	141.3	2.9	156.3	0.0	10.3	0	5.9	10.5	0
3AIK	yes	yes			50.3	0.7	3	7/2	180.2	2.9	200.1	0.0	10.3	0	7.5	20.7	0
3EI	yes	yes			39.5	1.3	8	5/0	172.3	3.2	182.1	0.0	7.4	0	2.4	10.4	0
3EIK	yes	yes			46.8	1.3	8	7/0	211.3	3.2	225.9	0.0	7.4	0	4.1	20.5	0
4B	yes	yes			45.0	3.8	7	4/0	297.4	2.4	326.7	0.0	0.8	0	9.2	24.8	0
New 1	yes	yes			28.7	0.0	3	5/0	40.3	0.0	156.3	0.0	1.4	0	13.8	51.4	0
2D	yes	yes			65.7	2.6	8	11/2	197.4	0.0	234.5	0.0	13.1	0	24.6	35.6	0
3E-2C	yes	yes			22.4	1.3	11	9/0	150.3	0.1	166.5	0.0	6.4	0	3.2	124.7	0
3E-2C-2E	yes	yes			30.8	1.3	11	12/0	208.6	0.1	233.3	0.0	6.4	0	4.8	133.4	0



Land Use

Cultural Resources

Engineering Feasibility

Alternative	Commercial Land (acres)	Residential Land (acres)	Agricultural (acres)	Undeveloped Land (acres)	Other Land (acres)	Total Land (acres)	Residential Displacements	Commercial Displacements	Env. Risk Sites	Archaeological Areas (each)	Recorded Archaeological Sites (each)	Historic Properties (each)	Satisfy Design Criteria (yes/no)	Length of Roadway (miles)	Bridge (No./Length in feet)	Cut (millions of cubic yards)	Fill (millions of cubic yards)	Net Earthwork (millions of cubic yards)	Deepest Cut (feet)	Deepest Fill (feet)	Roadway Crossings	Average Grade	Average Curvature
No-build													no										
1	7.4	45.5	14.4	43.1	54.6	165.0	19	0 ¹	0				no	10.2	5/1,313	0.69	0.37	0.32	16	25	16	1.81	0.86
2B	0.0	4.9	17.1	92.5	5.5	120.0	2	0	0				yes	5.8	7/4,354	0.89	0.91	-0.03	37	29	4	1.13	0.58
3AI	0.0	4.6	5.9	141.3	4.6	156.3	4	0	0				yes	7.0	8/4,645	1.40	1.74	-0.35	62	39	4	1.52	0.27
3AIK	0.0	6.4	7.5	180.2	6.0	200.1	5	0	0				yes	9.2	9/4,814	1.77	2.13	-0.35	62	39	5	1.54	0.44
3EI	1.5	0.7	2.4	172.3	5.0	182.1	1	0	0				yes	8.2	9/3,779	1.52	1.81	-0.29	66	37	3	1.52	0.44
3EIK	1.5	2.5	4.1	211.3	6.4	225.9	2	0	0				yes	10.4	10/3,948	1.90	2.19	-0.29	66	37	4	1.54	0.55
4B	0.0	12.6	9.2	297.4	7.4	326.7	5	0	0				yes	10.96	11/3,486	7.67	7.43	0.24	114	120	9	1.71	0.54
New 1	6.1	42.1	13.8	40.3	54.0	156.3	3	0 ¹	0				no	10.2	5/1,313	0.66	0.35	0.31	16	25	16	1.81	0.86
2D	0.0	6.1	24.6	197.4	6.3	234.5	2	0	0				yes	10.2	14/6,192	3.11	3.14	-0.02	67	56	10	1.12	0.68
3E-2C	1.5	5.6	3.2	150.3	6.0	166.5	4	0	0				yes	7.8	8/3,607	1.18	1.24	-0.07	44	34	4	1.22	0.62
3E-2C-2E	1.5	11.7	4.8	208.6	6.7	233.3	6	0	0				yes	10.7	12/4,440	2.15	2.21	-0.06	45	39	8	1.2	0.61

Notes:

¹ Includes an impact to the frontage of the Holbrook Middle School