

Town of Sharon, VT: OPTION 1A (\$100,000 in FY2019, increasing \$25,000/yr to 2023, then \$10,000/year until 2033)

Capital Highway Plan w/ Fay Brook Reconstruction & Howe Hill Road (Phase 3) Reconstruction

TOWN ROAD			Budget Year/ (Calendar Year)															
		Budget Year	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
		Calend Year	(2016)	(2017)	(2018)	(2019)	(2020)	(2021)	(2022)	(2023)	(2024)	(2025)	(2026)	(2027)	(2028)	(2029)	(2030)	(2031)
TOTAL PAVING FUND			93,850	75,000	100,000	125,000	150,000	175,000	200,000	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000
Class 2 State Road Grant					175,000								175,000				175,000	
Bond/Loan					1,000,000						900,000						2,000,000	
Balance for all Paving Projects (see below)			93,850	75,000	1,275,000	125,000	150,000	175,000	200,000	210,000	1,120,000	230,000	415,000	250,000	260,000	270,000	2,455,000	290,000
PROPOSED ANNUAL PAVEMENT MANAGEMENT																		
	Miles	Cost	Actual	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Beaver Meadows Road	0.54	\$25,000	93,850		25,000												38,486	
Broad Brook Road 1	0.02	\$1,000											1,316					
Quimby Mountain Road 1	0.22	\$38,115			38,115												58,676	
Quimby Mountain Road 2	0.09	\$15,593			15,593												24,005	
River Road 1	0.63	\$51,563			51,563												79,379	
River Road 2	1.76	\$236,000											310,560					
Rte 132 1 & 2	0.61	\$42,000			42,000													
Rte 132 3	0.44	\$62,784			62,784													
Rte 132 4 & 5	0.66	\$143,208			143,208													
Rte 132 6	0.57	\$61,344			61,344													
Rte 132 7	1.73	\$248,688			248,688													
PROP CAPITAL PROJECTS	Miles	Cost																
Broad Brook Road 2 (\$248,000 F	0.14	\$20,700	mill/shi/o			20,700											31,867	
Broad Brook Road 3 (\$180,000 F	0.1	\$15,450	mill/shi/o			15,450											23,785	
Fay Brook Road (\$762,000 R)	0.41	\$762,000	reconstruct								927,090							
Howe Hill Road 1 (1.41 M Rec)	0.91	\$162,000	mill/shi/o			163,800												
Howe Hill Road 2 & 3(\$1.415 M	0.9	\$162,000	mill/shi/o			162,000												
Howe Hill Road 4(\$1.545M REC)	0.91	\$162,000	mill/shi/o			163,800											2,378,457	
Loan Payment (\$1M @ 4% 5 yrs)						225,000	225,000	225,000	225,000	225,000		202,000	202,000	202,000	202,000	202,000		
Bond Payment (\$2,000,000 @ 4% 10 yrs)							(5 year loan; \$1,000,000 @ 4%)						(5 year loan; \$900,000 @ 4%)					247,000
TOTAL MILES	10.64																	(10 year bond; \$2M; 4%
TOTAL PROJECT COST			93,850	0	688,295	750,750	225,000	225,000	225,000	225,000	927,090	202,000	513,876	202,000	202,000	202,000	2,634,654	247,000
CAPITAL CARRYOVERS																		
Paving Budget - Capital Projects			0	75,000	586,705	-625,750	-75,000	-50,000	-25,000	-15,000	192,910	28,000	-98,876	48,000	58,000	68,000	-179,654	43,000
Capital Balance carryover from previous year			0	0	75,000	661,705	35,955	-39,045	-89,045	-114,045	-129,045	63,865	91,865	-7,010	40,990	98,990	166,990	-12,664
Capital Balance (to carry over)			0	75,000	661,705	35,955	(39,045)	(89,045)	(114,045)	(129,045)	63,865	91,865	(7,010)	40,990	98,990	166,990	(12,664)	30,336

Projected Paved Road Increase Factors:

1 1 1 1 1.04 1.08 1.12 1.17 1.22 1.27 1.32 1.37 1.42 1.48 1.54 1.60

NOTES:

- 1) Test pits should be completed on all Capital Projects to verify quality & depth of existing base.
- 2) Projected Costs have been increased by 4%/year beginning in the year 2020. The cost increase factors are listed at the bottom of the table shown above.
- 3) Table above reflects the Calendar Year (CY) of Construction Funds Available (Budget Year = CY +1)

Town of Sharon, VT: OPTION 1B (\$100,000 in FY2019, increasing \$25,000/yr to 2027, then \$10,000/year until 2032)

Capital Highway Plan with Fay Brook Reconstruction & Howe Hill (Phase 3) Reconstruction

TOWN ROAD			Budget Year/ (Calendar Year)															
		Budget Year	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
		Calend Year	(2016)	(2017)	(2018)	(2019)	(2020)	(2021)	(2022)	(2023)	(2024)	(2025)	(2026)	(2027)	(2028)	(2029)	(2030)	(2031)
TOTAL PAVING FUND			93,850	75,000	100,000	125,000	150,000	175,000	200,000	225,000	250,000	275,000	300,000	310,000	320,000	330,000	340,000	350,000
Class 2 State Road Grant					175,000								175,000				175,000	
Bond/Loan					1,000,000						800,000						2,000,000	
Balance for all Paving Projects (see below)			93,850	75,000	1,275,000	125,000	150,000	175,000	200,000	225,000	1,050,000	275,000	475,000	310,000	320,000	330,000	2,515,000	350,000
PROPOSED ANNUAL PAVEMENT MANAGEMENT																		
	Miles	Cost	Actual	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Beaver Meadows Road	0.54	\$25,000	93,850		25,000												38,486	
Broad Brook Road 1	0.02	\$1,000											1,316					
Quimby Mountain Road 1	0.22	\$38,115			38,115												58,676	
Quimby Mountain Road 2	0.09	\$15,593			15,593												24,005	
River Road 1	0.63	\$51,563			51,563												79,379	
River Road 2	1.76	\$236,000											310,560					
Rte 132 1 & 2	0.61	\$42,000			42,000												64,657	
Rte 132 3	0.44	\$62,784			62,784												96,653	
Rte 132 4 & 5	0.66	\$143,208			143,208												128,650	
Rte 132 6	0.57	\$61,344			61,344												125,915	
Rte 132 7	1.73	\$248,688			248,688												191,422	
PROP CAPITAL PROJECTS	Miles	Cost																
Broad Brook Road 2 (\$248,000 F	0.14	\$20,700	mill/shi/o			20,700												33,141
Broad Brook Road 3 (\$180,000 F	0.1	\$15,450	mill/shi/o			15,450												24,736
Fay Brook Road (\$762,000 R)	0.41	\$762,000	reconstruct								927,090							
Howe Hill Road 1 (1.41 M Rec)	0.91	\$162,000	mill/shi/o			163,800												
Howe Hill Road 2 & 3(\$1.415 M	0.9	\$162,000	mill/shi/o			162,000												
Howe Hill Road 4(\$1.545M REC)	0.91	\$162,000	mill/shi/o			163,800											2,378,457	
Loan Payment (\$1M @ 4% 5 yrs)						225,000	225,000	225,000	225,000	225,000		220,000	220,000	220,000	220,000			
Bond Payment (\$2,000,000 @ 4% 10 yrs)							(5 year loan; \$1,000,000 @ 4%)						(4 year loan; \$800,000 @ 4%)					247,000
TOTAL MILES	10.64																	(10 year bond; \$2M; 4%
TOTAL PROJECT COST			93,850	0	688,295	750,750	225,000	225,000	225,000	225,000	927,090	220,000	531,876	220,000	220,000	0	3,186,300	304,877
CAPITAL CARRYOVERS																		
Paving Budget - Capital Projects			0	75,000	586,705	-625,750	-75,000	-50,000	-25,000	0	122,910	55,000	-56,876	90,000	100,000	330,000	-671,300	45,123
Capital Balance carryover from previous year			0	0	75,000	661,705	35,955	-39,045	-89,045	-114,045	-114,045	8,865	63,865	6,990	96,990	196,990	526,990	-144,310
Capital Balance (to carry over)			0	75,000	661,705	35,955	(39,045)	(89,045)	(114,045)	(114,045)	8,865	63,865	6,990	96,990	196,990	526,990	(144,310)	(99,187)

Projected Paved Road Increase Factors: 1 1 1 1 1.04 1.08 1.12 1.17 1.22 1.27 1.32 1.37 1.42 1.48 1.54 1.60

NOTES:

- 1) Test pits should be completed on all Capital Projects to verify quality & depth of existing base.
- 2) Projected Costs have been increased by 4%/year beginning in the year 2020. The cost increase factors are listed at the bottom of the table shown above.
- 3) Table above reflects the Calendar Year (CY) of Construction Funds Available (Budget Year = CY +1)

Town of Sharon, VT: OPTION 2 (\$100,000 in FY2019, increasing \$25,000/yr until 2023, then \$10,000/yr until 2028)

Capital Highway Plan with Howe Hill Reconstruction

TOWN ROAD			Budget Year/ (Calendar Year)															
		Budget Year	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
		Calend Year	(2016)	(2017)	(2018)	(2019)	(2020)	(2021)	(2022)	(2023)	(2024)	(2025)	(2026)	(2027)	(2028)	(2029)	(2030)	(2031)
TOTAL PAVING FUND			93,850	75,000	100,000	125,000	150,000	175,000	200,000	210,000	220,000	230,000	240,000	250,000	250,000	250,000	250,000	250,000
Class 2 State Road Grant					175,000					175,000					175000			
Bond/Loan					800,000					1,410,000								
Balance for all Paving Projects (see below)			93,850	75,000	1,075,000	125,000	150,000	175,000	200,000	1,795,000	220,000	230,000	240,000	250,000	425,000	250,000	250,000	250,000
PROPOSED ANNUAL PAVEMENT MANAGEMENT																		
	Miles	Cost	Actual	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Beaver Meadows Road	0.54	\$31,000	93,850							36,266								
Broad Brook Road 1	0.02	\$1,000													1,423			
Quimby Mountain Road 1	0.22	\$38,115			38,115													
Quimby Mountain Road 2	0.09	\$15,593			15,593													
River Road 1	0.63	\$51,563			51,563													
River Road 2	1.76	\$236,000													335,902			
Rte 132 1 & 2	0.61	\$42,000			42,000													67,243
Rte 132 3	0.44	\$62,784			62,784													100,519
Rte 132 4 & 5	0.66	\$143,208			143,208													128,650
Rte 132 6	0.57	\$61,344			61,344													130,952
Rte 132 7	1.73	\$248,688			248,688													199,079
PROP CAPITAL PROJECTS	Miles	Cost																
Broad Brook Road 2 (\$248,000 R)	0.14	\$20,700	mill/shi/o			20,700												
Broad Brook Road 3 (\$180,000 R)	0.1	\$15,450	mill/shi/o			15,450												
Fay Brook Road (\$762,000 R)	0.41	\$67,650	mill/shi/o										115,599					
Howe Hill Road 1 (1.41 M Rec)	0.91	\$162,000	mill/shi/o			163,800												
Howe Hill Road 2 & 3(\$1.41 M R)	0.9	\$162,000	mill/shi/o			162,000												
Howe Hill Road 4(\$1.41M REC)	0.91	\$162,000	mill/shi/o						67,492	1,579,309								
Loan Payment (\$800,000 @ 4% 4 yrs)						180,000	180,000	180,000	180,000	180,000								
Bond Payment (\$1,410,000 @ 4% 8 yrs)											174,000	174,000	174000	174,000	174000	174000	174,000	174,000
TOTAL MILES	10.64																	
TOTAL PROJECT COST			93,850	0	663,295	541,950	180,000	180,000	247,492	1,795,575	174,000	174,000	289,599	174,000	511,325	174,000	174,000	800,443
CAPITAL CARRYOVERS																		
Paveing Budget - Capital Projects			0	75,000	411,705	-416,950	-30,000	-5,000	-47,492	-575	46,000	56,000	-49,599	76,000	-86,325	76,000	76,000	-550,443
Capital Balance carryover from previous year			0	0	75,000	486,705	69,755	39,755	34,755	-12,737	-13,312	32,688	88,688	39,090	115,090	28,765	104,765	180,765
Capital Balance (to carry over)			0	75,000	486,705	69,755	39,755	34,755	(12,737)	(13,312)	32,688	88,688	39,090	115,090	28,765	104,765	180,765	(369,678)

Projected Paved Road Increase Factors:

1

1

1

1

1.04

1.08

1.12

1.17

1.22

1.27

1.32

1.37

1.42

1.48

1.54

1.60

- NOTES:
- 1) Test pits should be completed on all Capital Projects to verify quality & depth of existing base.

2) Projected Budgets have been increased by 5%/year beginning in the year 2020. The cost increase factors are listed at the bottom of the table shown above.

3) Table above reflects the Calendar Year (CY) of Construction Funds Available (Budget Year = CY +1)

Town of Sharon, VT: OPTION 3 (\$100,000 in FY2019, increasing \$25,000/yr to 2023, then \$10,000/year until 2033)

Capital Highway Plan with Broad Brook/Fay Brook Reconstruction

TOWN ROAD			Budget Year/ (Calendar Year)															
		Budget Year	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
		Calend Year	(2016)	(2017)	(2018)	(2019)	(2020)	(2021)	(2022)	(2023)	(2024)	(2025)	(2026)	(2027)	(2028)	(2029)	(2030)	(2031)
TOTAL PAVING FUND			93,850	75,000	100,000	125,000	150,000	175,000	200,000	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000
Class 2 State Road Grant					175,000					175,000					175,000			
Bond/Loan					1,000,000						300,000					1,000,000		
Balance for all Paving Projects (see below)			93,850	75,000	1,275,000	125,000	150,000	175,000	200,000	385,000	520,000	230,000	240,000	250,000	435,000	1,270,000	280,000	290,000
PROPOSED ANNUAL PAVEMENT MANAGEMENT																		
	Miles	Cost	Actual	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Beaver Meadows Road	0.54	\$25,000	93,850		25,000													40,026
Broad Brook Road 1	0.02	\$1,000													1,423			
Quimby Mountain Road 1	0.22	\$38,115			38,115													61,023
Quimby Mountain Road 2	0.09	\$15,593			15,593													24,965
River Road 1	0.63	\$51,563			51,563										73,390			
River Road 2	1.76	\$236,000													335,902			
Rte 132 1 & 2	0.61	\$42,000			42,000												64,657	
Rte 132 3	0.44	\$62,784			62,784												96,653	
Rte 132 4 & 5	0.66	\$143,208			143,208												128,650	
Rte 132 6	0.57	\$61,344			61,344												125,915	
Rte 132 7	1.73	\$248,688			248,688												191,422	
PROP CAPITAL PROJECTS	Miles	Cost																
Broad Brook Road 2 (\$248,000 F)	0.14	\$248,000	reconstruct								301,730							
Broad Brook Road 3 (\$180,000 F)	0.1	\$180,000	reconstruct								218,998							
Fay Brook Rd (\$762,000 R)	0.41	\$67,650	mill/shi/o			67,650										1,127,946		
Howe Hill Rd 1 (1.41 M Rec)	0.91	\$162,000	mill/shi/o			163,800												
Howe Hill Rd 2 & 3(\$1.415 M R)	0.9	\$162,000	mill/shi/o			162,000												
Howe Hill Rd 4(\$1.545M REC)	0.91	\$162,000	mill/shi/o			163,800												
Loan Payment (\$1M @ 4% 5 yrs)						225,000	225,000	225,000	225,000	225,000		108,000	108,000	108,000				
Bond Payment (\$1,000,000 @ 4% 10 yrs)													(3 year loan; \$300,000 @ 4%)				275,000	275,000
TOTAL MILES	10.64																	(4 year loan; \$1m; 4%)
TOTAL PROJECT COST			93,850	0	688,295	782,250	225,000	225,000	225,000	225,000	520,727	108,000	108,000	108,000	410,715	1,127,946	882,297	401,014
CAPITAL CARRYOVERS																		
Paving Budget - Capital Projects			0	75,000	586,705	-657,250	-75,000	-50,000	-25,000	160,000	-727	122,000	132,000	142,000	24,285	142,054	-602,297	-111,014
Capital Balance carryover from previous year			0	0	75,000	661,705	4,455	-70,545	-120,545	-145,545	14,455	13,728	135,728	267,728	409,728	434,012	576,066	-26,231
Capital Balance (to carry over)			0	75,000	661,705	4,455	(70,545)	(120,545)	(145,545)	14,455	13,728	135,728	267,728	409,728	434,012	576,066	(26,231)	(137,245)

Projected Paved Road Increase Factors:

1 1 1 1 1.04 1.08 1.12 1.17 1.22 1.27 1.32 1.37 1.42 1.48 1.54 1.60

NOTES:

- 1) Test pits should be completed on all Capital Projects to verify quality & depth of existing base.
- 2) Projected Costs have been increased by 4%/year beginning in the year 2020. The cost increase factors are listed at the bottom of the table shown above.
- 3) Table above reflects the Calendar Year (CY) of Construction Funds Available (Budget Year = CY +1)