Canton Mountain Wind Project

Stormwater Treatment Calculations:
Watersheds draining to the Androscoggin River, Webb River and Sevenmile Stream Watershed
Chapter 500, Stormwater Management, Section 4.B.(3).(c) describes a linear project.
Required stormwater treatment of impervious area = 75%

BMP ID Legend
BF = Forested buffer adjacent to road/small impervious area
BM = Meadow buffer adjacent to road/small impervious area
*BF-BM = Treatmet occurs through both types of buffers
LSF = Forested level lip spreader buffer
LSM = Meadow level lip spreader buffer
DTF = Forested Ditch Turnout
DTM = Meadow Ditch Turnout
SF = Soil filter

Road ID	Station Location				BMP ID	Soil HSG	Buffer Slope (ft./ft.)	Buffer Length (ft.)	Impervious Area (acres)	Impervious Area Treated (acres)
Access Road	82+06	to	95+68	-	-	-	-	-	0.375	0.000
Access Road	95+68	to	97+90	R	BF-BM 1	C	0.130	35-80	0.061	0.061
Access Road	97+90	to	99+95	R	-	-	-	-	0.056	0.000
Access Road	99+95	to	100+65	R	BF-BM 3	C	0.150	35-80	0.019	0.019
Access Road	100+65	to	101+65	R	BF-BM 4	C/D	0.183	35-80	0.028	0.028
Access Road	101+65	to	102+35	-	-	-	-	-	0.019	0.000
Access Road	102+35	to	105+15	R	BF-BM 5	C/D	0.148	35-80	0.077	0.077
Access Road	105+15	to	105+60	-	-	-	-	-	0.012	0.000
Access Road	105+60	to	108+20	R	BF-BM 6	C/D	0.201	35-80	0.072	0.000
Access Road	108+20	to	109+10	R	-	-	-	-	0.025	0.000
Access Road	109+10	to	110+35	R	-	-	-	-	0.034	0.000
Access Road	110+35	to	111+58	R	-	-	-	-	0.034	0.000
Access Road	111+58	to	113+35	R	-	-	-	-	0.049	0.000
Access Road	113+35	to	114+80	R	BF-BM 11	C/D	0.195	35-80	0.040	0.040
Access Road	114+80	to	115+30	R	BF-BM 12	C/D	0.165	35-30	0.014	0.014
Access Road	115+30	to	117+65	-	-	-	-	-	0.062	0.000
Access Road	117+65	to	118+80	L	BF-BM 13	C/D	0.070	35-20	0.036	0.036
Crane Road 1	00+00	to	00+80	R	-	-	-	-	0.039	0.000
Crane Road 1	00+80	to	02+40	R	-	-	-	-	0.044	0.000
Crane Road 1	02+40	to	05+20	R	-	-	-	-	0.077	0.000
Crane Road 1	05+20	to	08+20	R	-	-	-	-	0.083	0.000
Crane Road 1	08+20	to	10+15	-	-	-	-	-	0.054	0.000
Crane Road 1	10+15	to	11+75	R	BF-BM 17	C/D	0.120	35-100	0.044	0.044
Crane Road 1	11+75	to	12+65	R	BF-BM 18	C/D	0.109	35-70	0.025	0.025
Crane Road 1	12+65	to	13+20	R	BF-BM 19	C	0.182	35-70	0.015	0.015
Crane Road 1	13+20	to	14+40	R	BF-BM 20	C	0.164	35-80	0.033	0.033
Crane Road 1	14+40	to	16+00	R	BF-BM 21	C	0.128	35-110	0.044	0.044
Crane Road 1	16+00	to	18+60	R	BF-BM 22	C/D	0.095	35-70	0.072	0.072
Crane Road 1	18+60	to	22+05	R	BF-BM 23	C/D	0.100	35-30	0.095	0.095
Crane Road 1	22+05	to	23+84	R	BF-BM 24	C/D	0.116	35-30	0.049	0.049
Crane Road 2	00+00	to	00+95	-	-	-	-	-	0.026	0.000
Crane Road 2	00+95	to	03+10	L	BF-BM 25	C/D	0.095	35-25	0.059	0.059
Crane Road 2	03+10	to	03+80	-	-	-	-	-	0.019	0.000
Crane Road 2	03+80	to	04+20	R	BF-BM 26A	C/D	0.115	35-100	0.011	0.011
Crane Road 2	04+20	to	07+80	R	BF 26B	C/D	0.090	35	0.099	0.099
Crane Road 2	07+80	to	09+80	R	BF 27	C/D	0.079	35	0.055	0.055
Crane Road 2	09+80	to	11+15	R	BF-BM 28	C/D	0.123	35-22	0.037	0.037
Crane Road 2	11+15	to	11+95	L	BF-BM 29	C/D	0.136	35-22	0.022	0.022
Crane Road 2	11+95	to	15+30	L	BF-BM 30	C/D	0.154	35-45	0.092	0.092
Crane Road 2	15+30	to	18+50	L	BF-BM 31	C/D	0.169	35-45	0.088	0.088
Crane Road 2	18+50	to	22+20	L	BF-BM 32	C/D	0.163	35-40	0.102	0.102
Crane Road 2	22+20	to	25+50	L	BF-BM 33	C/D	0.200	35-35	0.091	0.091
Crane Road 2	25+50	to	29+00	-	-	-	-	-	0.096	0.000
Crane Road 2	29+00	to	31+25	L	BF-BM 43	C/D	0.173	150-30	0.062	0.062
Crane Road 2	31+25	to	34+60	-	-	-	-	-	0.092	0.000
Crane Road 2	34+60	to	36+30	L	BF-BM 34	C/D	0.085	35-22	0.047	0.047
Crane Road 2	36+30	to	37+30	L	BF-BM 35	C/D	0.085	35-150	0.028	0.028
Crane Road 2	37+30	to	39+25	L	BF-BM 44	C/D	0.051	150-60	0.054	0.054
Crane Road 2	39+25	to	41+15	L	BF-BM 36	C/D	0.054	35-150	0.052	0.052
Crane Road 2	41+15	to	43+35	R	BF-BM 37A	C/D	0.110	35-30	0.061	0.061
Crane Road 2	43+35	to	47+35	R	BF-BM 37B	C/D	0.120	35-40	0.110	0.110
Crane Road 2	47+35	to	47+85	R	BF-BM 38	C/D	0.160	35-40	0.014	0.014

T01	Turbine Pad Access				BF-BM 39	C/D	0.103	150-22	0.032	0.032
T01	Crane Pad				BF-BM 39	C/D	0.103	150-22	0.092	0.092
T01	Turbine Gravel Ring				BF 39	C/D	0.175	150	0.016	0.016
T01	Turbine Foundation				BF 39	C/D	0.175	150	0.010	0.010
T02	Turbine Pad Access				BF-BM 40	C/D	0.070	150-65	0.059	0.059
T02	Crane Pad				BF-BM 40	C/D	0.070	150-65	0.092	0.092
T02	Turbine Gravel Ring				BF-BM 40	C/D	0.070	150-65	0.016	0.016
T02	Turbine Foundation				BF-BM 40	C/D	0.070	150-65	0.010	0.010
T03	Turbine Pad Access				BF-BM 41	C/D	0.148	150-80	0.069	0.069
T03	Crane Pad				BF-BM 41	C/D	0.148	150-80	0.092	0.092
T03	Turbine Gravel Ring				BF-BM 41	C/D	0.148	150-80	0.016	0.016
T03	Turbine Foundation				BF-BM 41	C/D	0.148	150-80	0.010	0.010
T04	Turbine Pad Access				BF-BM 42	C/D	0.145	150-55	0.013	0.013
T04	Crane Pad				BF-BM 42	C/D	0.145	150-55	0.092	0.092
T04	Turbine Gravel Ring				BF-BM 42	C/D	0.145	150-55	0.016	0.016
T04	Turbine Foundation				BF-BM 42	C/D	0.145	150-55	0.010	0.010
T05	Turbine Pad Access				BF-BM 43	C/D	0.168	150-50	0.013	0.013
T05	Crane Pad				BF-BM 43	C/D	0.168	150-50	0.092	0.092
T05	Turbine Gravel Ring				BF-BM 43	C/D	0.168	150-50	0.016	0.016
T05	Turbine Foundation				BF-BM 43	C/D	0.168	150-50	0.010	0.010
T06	Turbine Pad Access				BF-BM 44	C/D	0.051	150-60	0.008	0.008
T06	Crane Pad				BF-BM 44	C/D	0.051	150-60	0.092	0.092
T06	Turbine Gravel Ring				BF 44	C/D	0.083	150	0.016	0.016
T06	Turbine Foundation				BF 44	C/D	0.083	150	0.010	0.010
T07	Turbine Pad Access				BF-BM 45	C/D	0.123	150-35	0.041	0.041
T07	Crane Pad				BF-BM 45	C/D	0.123	150-35	0.092	0.092
T07	Turbine Gravel Ring				BF-BM 45	C/D	0.123	150-35	0.016	0.016
T07	Turbine Foundation				BF-BM 45	C/D	0.123	150-35	0.010	0.010
T08	Turbine Pad Access				BF-BM 46	C/D	0.155	150-100	0.044	0.044
T08	Crane Pad				BF-BM 46	C/D	0.155	150-100	0.092	0.092
T08	Turbine Gravel Ring				BF-BM 46	C/D	0.155	150-55	0.016	0.016
T08	Turbine Foundation				BF-BM 46	C/D	0.155	150-55	0.010	0.010
O&M Building Pad Access	00+00	to	02+00	L	-	-	-	-	0.066	0.000
O&M Building Pad Access	02+00	to	03+61	L	BF-BM 47	C/D	0.156	50-40	0.044	0.044
O&M Building	O&M Building Pad				SF	C/D	-	-	0.260	0.260
								Totals:	**4.598**	**3.262**

* When water quality treatment happens through a BM-BF buffer. The runoff flows through the revegetaded portion of the proposed roads. The length of the flow path varies depending on the slope of the road, this lenght determines the size of the buffer through the revegetated area. After the runoff has gone through the first stage of treatment it then goes through a 35' forested buffer. The slope on the BF varies according to the existing topology. The slope for the BM-BF buffer is determined based on the average slope of the flow path through the revegetated area and the forested buffer.

Impervious Area Eliminated:

Impervious Area	Total Area (acres)
Existing Jeep Roads	0.400
Total:	**0.400**

Revised Totals:	**4.198**	**3.262**
Percentage Impervious Area Treated:		**77.71%**
Percentage Required:		**75.00%**