

Appendix M: Route Cost Analysis

ESTIMATED ROUTE CONSTRUCTION COSTS

			COST PER UNIT WITH CONTINGENCY				CONSTRUCTION MANAGEMENT/CONSTRUCTION	INFLATION	FULLY BURDENED	FULLY BURDENED
									TOTAL UNIT COST PER LINEAR FOOT AT YEAR OF CONSTRUCTION	TOTAL UNIT COST PER MILE AT YEAR OF CONSTRUCTION
TRAIL TYPE		UNIT	COST PER UNIT	40%	20%	15%	20%			
CLASS I										
8' Native Pit-Run Fines	minimum width	LF	\$102.19	\$143.07	\$20.44	\$15.33	\$20.44		\$199.28	\$1,052,177.87
8' Gravel	minimum width	LF	\$103.11	\$144.35	\$20.62	\$15.47	\$20.62		\$201.06	\$1,061,604.43
8' Asphalt	minimum width	LF	\$116.59	\$163.23	\$23.32	\$17.49	\$23.32		\$227.36	\$1,200,440.26
8' Concrete	minimum width	LF	\$126.68	\$177.35	\$25.34	\$19.00	\$25.34		\$247.03	\$1,304,315.46
8' Wood Decking	minimum width	LF	\$400.00	\$560.00	\$80.00	\$60.00	\$80.00		\$780.00	\$4,118,400.00
10' Asphalt	ADA minimum	LF	\$145.74	\$204.04	\$29.15	\$21.86	\$29.15		\$284.20	\$1,500,550.33
10' Concrete	ADA minimum	LF	\$158.35	\$221.69	\$31.67	\$23.75	\$31.67		\$308.79	\$1,630,394.33
10' Wood Decking	ADA minimum	LF	\$500.00	\$700.00	\$100.00	\$75.00	\$100.00		\$975.00	\$5,148,000.00
12' Asphalt		LF	\$174.89	\$244.85	\$34.98	\$26.23	\$34.98		\$341.03	\$1,800,660.40
12' Concrete		LF	\$190.02	\$266.03	\$38.00	\$28.50	\$38.00		\$370.54	\$1,956,473.20
12' Wood Decking		LF	\$600.00	\$840.00	\$120.00	\$90.00	\$120.00		\$1,170.00	\$6,177,600.00
Parallel Treads (8' Asphalt w/ 4' Native Soil)		LF	\$121.59	\$170.23	\$24.32	\$18.24	\$24.32		\$237.11	\$1,251,920.26
CLASS II										
6' Native Pit-Run Fines	ADA minimum	LF	\$76.64	\$107.30	\$15.33	\$11.50	\$15.33		\$149.46	\$789,133.40
6' Gravel	ADA minimum	LF	\$77.33	\$108.26	\$15.47	\$11.60	\$15.47		\$150.80	\$796,203.32
6' Wood Decking	ADA minimum	LF	\$300.00	\$420.00	\$60.00	\$45.00	\$60.00		\$585.00	\$3,088,800.00
8' Native Pit-Run Fines		LF	\$102.19	\$143.07	\$20.44	\$15.33	\$20.44		\$199.28	\$1,052,177.87
8' Gravel		LF	\$103.11	\$144.35	\$20.62	\$15.47	\$20.62		\$201.06	\$1,061,604.43
8' Wood Decking		LF	\$400.00	\$560.00	\$80.00	\$60.00	\$80.00		\$780.00	\$4,118,400.00
6' Native Soil	not allowed in all areas	LF	\$7.50	\$10.50	\$1.50	\$1.13	\$1.50		\$14.63	\$77,220.00
32" Reduced Tread	30 LF max	LF								
CLASS III										
18" Native Soils		LF	\$1.88	\$2.63	\$0.38	\$0.28	\$0.38		\$3.66	\$19,305.00
24" Native Soils		LF	\$2.50	\$3.50	\$0.50	\$0.38	\$0.50		\$4.88	\$25,740.00
30" Native Soils		LF	\$3.13	\$4.38	\$0.63	\$0.47	\$0.63		\$6.09	\$32,175.00
36" Native Soils	ADA minimum	LF	\$3.75	\$5.25	\$0.75	\$0.56	\$0.75		\$7.31	\$38,610.00
PEDESTRIAN TRAIL										
48" Native Soils	built to Class III standards	LF	\$5.00	\$7.00	\$1.00	\$0.75	\$1.00		\$9.75	\$51,480.00
BIKEWAY										
4' Asphalt	roadway widening	LF	\$58.30	\$81.62	\$11.66	\$8.74	\$11.66		\$113.68	\$600,220.13
4' Asphalt	existing roadway reconfiguration	LF								
5' Asphalt	roadway widening	LF	\$72.87	\$102.02	\$14.57	\$10.93	\$14.57		\$142.10	\$750,275.17
5' Asphalt	existing roadway reconfiguration	LF								
6' Asphalt	roadway widening	LF	\$87.44	\$122.42	\$17.49	\$13.12	\$17.49		\$170.52	\$900,330.20
Adding Bikelane to Existing Roadway	existing roadway reconfiguration	LF	\$0.88	\$1.23	\$0.18	\$0.13	\$0.18		\$1.72	\$9,060.48
EQUESTRIAN TRAIL										
4' Mowed Path*		LF	\$0.01	N/A	N/A	N/A	N/A			
4' Native Soils		LF	\$5.00	\$7.00	\$1.00	\$0.75	\$1.00		\$9.75	\$51,480.00
SNOWMOBILE										
4' Groomed Trail**		Mile	\$6.37	N/A	N/A	N/A	N/A		\$6.37	\$33,633.60
OHV/OHM TRAIL										
4' Native Soils		LF	\$5.00	\$7.00	\$1.00	\$0.75	\$1.00		\$9.75	\$51,480.00
4' Pit-Run Fines		LF	\$51.10	\$71.54	\$10.22	\$7.66	\$10.22		\$99.64	\$526,088.93
4' Gravel		LF	\$51.55	\$72.18	\$10.31	\$7.73	\$10.31		\$100.53	\$530,802.21
4' Wood Decking		LF	\$200.00	\$280.00	\$40.00	\$30.00	\$40.00		\$390.00	\$2,059,200.00
CROSS-COUNTRY SKI TRAIL										
4' Groomed Trail**		Mile	\$6.37	N/A	N/A	N/A	N/A		\$6.37	\$33,633.60

Appendix M: Route Cost Analysis

*Mowing costs are for one pass only. Includes labor, equipment depreciation and fuel costs. Based on \$100/Acre commercial cost.

**Snow mobile grooming is based on numbers from BSF. Figure includes labor, equipment depreciation, and fuel costs. Figure is valid for one pass of the groomer, the number of passes a trail will require varies significantly based on snow conditions and weather patterns.

Based on RS MEANS GUIDE (Adjusted for Montana)

<http://www.reedconstructiondata.com/mkt/rsm1/IGOG-2013?gclid=CKDD-lL66ICFRkBiQod-IVYuw>