



### OPINION OF COST BREAKDOWN

The Opinion of Cost has been broken down into 6 segments, which reflect each town the proposed trail runs through including the various villages and hamlets held within that specific town. By breaking the opinion of cost down in this way it allows each town the ability to receive their own opinion of cost for the segment of trail that passes through their own town boundary. Refined trail routings, amenity decisions, and unknown existing conditions may have a significant impact on the costs referenced in the following pages. These preliminary opinions of cost are intended to be visited as a planning guide to determine segment by segment priority and feasibility. Note that the costs presented within do not include any fees associated with right-of-way acquisitions or easements, as these costs are based on the fair-market value of the subject property at the time of purchase and vary widely from parcel to parcel.

The opinions of cost that follow are all inclusive and assume a contractor installation. They include items such as design services, construction inspection, contractor prevailing wages, and a general contingency. Costs can be reduced through a value engineering process or through installation by local focus, such as DPW (department of public works) crews.

#### MAP OF TOWNS IN SULLIVAN COUNTY

The following is a map illustrating the town boundaries in Sullivan County and the proposed route of the trail.



## TOWN OF THOMPSON

#### SEGMENT 1 OF 6

The following is the opinion of cost for the segment of trail that passes through the Town of Thompson and includes the Village of Monticello.

Ite	m	Quantity	Unit		Unit Cost		Item Total
	THOMPSON	•					
1.	Trail construction						
	New stone dust trail - 12' wide, complex section (Includes Equestrian Use)	19,946	LF	\$	130.00	\$	2,592,980.00
	Item 1 Total:					\$	2,592,980.00
2.	Bridges						
	Item 2 Total:					\$	-
3.	Drainage Item 3 Total:					Ś	
	item 3 Total:					Þ	-
4.	Fencing, Furnishings and Signage						
	Slope protection fencing - 48" wood 3 rail	285	LF	\$	24.26	\$	6,914.10
	Item 4 Total:					\$	6,914.10
5.	Roadway Crossings						
	Marked and Signed Crossing	3	EA	\$	2,500.00	\$	7,500.00
	Marked Crossing with Yield Lines	1	EA	\$	2,600.00	\$	2,600.00
	Item 5 Total:					\$	10,100.00
6.	On-Road Segments						
٠.	Marked Shared Roadway	7,495	LF	\$	2.00	\$	14,990.00
	Item 6 Total:	.,		-		\$	14,990.00
_	- "						
/.	Trailheads Pedestrian Trailhead Sign		EA	ć	500-\$3,200		
	Kiosk	-	EA		900-\$5,200		
	Solar Charging Station	-	EA	\$5 \$	5,000		
	Area Map	-	EA		500-\$2,700		
	•	-					
	Wooden Bench	-	EA EA		300-1,800		
	Bike Racks (3)	-		\$	1,200		
	Bike Repair Station	-	EA	\$	1,650		
	Canopy Trees-2" Caliper	-	EA	\$	1,200		
	Understory Trees-1" Caliper	-	EA	\$	600		
	Herbaceous Plants	-	EA	\$	30		
	Pavers	-	SF	\$	18		
	Gravel Parking	-	SF	\$	10		
	Directional Sign	-	EA	\$6	500-\$3,150		
	Mile Marker	-	EA	\$1	100-\$1,200		
	Item 7 Total:					\$	-
To	tal - Items 1-7					\$	2,624,984.10
8.	Misc. construction costs Minor items				10%	¢	262,500.00
	Work zone traffic control				3%		78,800.00
					5% 5%		
	Field change order Mobilization				5% 4%		131,300.00 105,000.00
	Item 8 Total:				4/0	\$	577,600.00
	Rem 6 Total.					y	377,000.00
Co	nstruction Total					Ś	3,203,000.00
	alation on Construction (5% per year for two years)				10%	-	321,000.00
	gineering and survey				18%		577,000.00
Ge	neral contingency				25%	\$	801,000.00
Pro	oject Total					\$	4,902,000.00
Thi	rd Party Engineering Inspection				7%	\$	225,000.00
Up	dated Project Total					\$	5,127,000.00
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# TOWN OF FORESTBURGH

### SEGMENT 2 OF 6

The following is the opinion of cost for the segment of trail that passes through the Town of Forestburgh.

Item		Quantity	Unit		Unit Cost		Item Total
	FORESTBURGH						
1.	Trail Construction						
	New stone dust trail - 12' wide, complex section (Includes Equestrian Use)	40,176	LF	\$	130.00	\$	5,222,880.00
	Rough grading sites, 8,100-10,000 S.F., skid steer & labor	1	EA	\$	1,792.13	\$	1,792.13
	Minor demolition, railroad ties and track, remove, excludes hauling	2,344	LF	\$	16.00	\$	37,509.33
	Item 1 Total:					\$	5,262,181.46
2.	Bridges						
	Boardwalk	2,088	SF	\$	75.00	\$	156,600.00
	1st Bush Kill Crossing (Includes necessary construction, installation, and mobilization costs)	1	EA	\$	62,600	\$	62,600.00
	2nd Bush Kill Crossing (Includes necessary construction, installation, and mobilization costs)	1	EA	\$	62,600	\$	62,600.00
	Item 2 Total:					\$	281,800.00
3.	Drainage						
	Item 3 Total:					\$	-
4.	Fencing, Furnishings and Signage						
	Slope protection fencing - 48" wood 3 rail	390	LF	\$	24.26	\$	9,461.40
	Item 4 Total:			-		\$	9,461.40
						•	5,152.15
	Roadway Crossings	_			2 500 0-	,	7 =00 5
	Marked and Signed Crossing  Item 5 Total:	3	EA	\$	2,500.00	\$ <b>\$</b>	7,500.00 <b>7,500.00</b>
	item 5 Total.					ş	7,500.00
6.	On-Road Segments						
	Item 6 Total:					\$	-
7.	Trailheads						
	Pedestrian Trailhead Sign	-	EA	\$5	00-\$3,200		
	Kiosk	-	EA		00-\$6,000		
	Solar Charging Station	-	EA	\$	5,000		
	Area Map	-	EA	\$5	00-\$2,700		
	Wooden Bench	-	EA	\$8	00-1,800		
	Bike Racks (3)	-	EA	\$	1,200		
	Bike Repair Station	-	EA	\$	1,650		
	Canopy Trees-2" Caliper	-	EA	\$	1,200		
	Understory Trees-1" Caliper	-	EA	\$	600		
	Herbaceous Plants	-	EA	\$	30		
	Pavers	-	SF	\$	18		
	Gravel Parking	-	SF	\$	10		
	Directional Sign	-	EA		00-\$3,150		
	Mile Marker	-	EA	\$1	00-\$1,200		
	Item 7 Total:					\$	-
Tota	il - Items 1-7					\$	5,560,942.86
8.	Nice construction costs						
٥.	Misc. construction costs Minor items				10%	ė	556,100.00
	Work zone traffic control				3%		166,900.00
	Field change order				5%		278,100.00
	Mobilization				4%		222,500.00
	Item 8 Total:					\$	1,223,600.00
Cons	struction Total					\$	6,785,000.00
	Latin and Construction (TOV)				4601	_	670 000 00
	lation on Construction (5% per year for two years)				10% 18%		679,000.00
	neering and survey eral contingency				18% 25%		1,222,000.00 1,697,000.00
					2570		_,,
Proj	ect Total					\$	10,383,000.00
Thire	d Party Engineering Inspection				7%	\$	475,000.00
bqU	ated Project Total					\$	10,858,000.00
- pu						Y	_0,000,000.00



# TOWN OF MAMAKATING

#### SEGMENT 3 OF 6

The following is the opinion of cost for the segment of trail that passes through the Town of Mamakating.

Iter	m	Quantity	Unit		Unit Cost		Item Total
	MAMAKATING						
1.	Trail construction						
	New HMA trail - 12' wide, complex section	134	LF	\$	140.00	\$	18,760.00
	New stone dust trail - 12' wide, complex section	31,806	LF	\$	130.00	\$	4,134,780.00
	Rough grading sites, 5,100-8,000 S.F., skid steer & labor	1	EA	\$	3,316.94	\$	3,316.94
	Item 1 Total:					\$	4,156,856.94
2.	Bridges						
	Item 2 Total:					\$	-
3.	Drainage						
	Culvert, Piping, Aggregate, Excavation and Backfill  Item 3 Total:	4	EA LS	\$	10,446	\$ <b>\$</b>	41,785.15 <b>41,785.15</b>
4.	Fencing, Furnishings and Signage						
	Slope protection fencing - 48" wood 3 rail	3,036	LF	\$	24.26	\$	73,653.36
	Item 4 Total:	·				\$	73,653.36
5.	Roadway Crossings						
	Marked and Signed Crossing	2	EA	\$	2,500.00	Ś	5,000.00
	Paving for Crossing	30	LF	\$	60.00	\$	1,800.00
	Item 5 Total:			-		\$	6,800.00
6.	On-Road Segments						
	Item 6 Total:					\$	-
7.	Trailheads						
	Pedestrian Trailhead Sign	-	EA	\$5	00-\$3,200		
	Kiosk	-	EA		00-\$6,000		
	Solar Charging Station	-	EA	\$	5,000		
	Area Map	_	EA		00-\$2,700		
	Wooden Bench	-	EA		00-1,800		
	Bike Racks (3)		EA	\$	1,200		
	Bike Repair Station		EA	\$	1,650		
	Canopy Trees-2" Caliper		EA	\$	1,200		
	Understory Trees-1" Caliper		EA	\$	600		
		-					
	Herbaceous Plants	-	EA	\$	30		
	Pavers	-	SF	\$	18		
	Gravel Parking	-	SF	\$	10		
	Directional Sign	-	EA		00-\$3,150		
	Mile Marker Item 7 Total:	-	EA	\$1	.00-\$1,200	\$	-
T - 4	N. B. W. A. Z.					^	4 270 005 45
101	tal - Items 1-7					\$	4,279,095.45
8.	Misc. construction costs				10%	ć	439 000 00
	Minor items						428,000.00
	Work zone traffic control				3%		128,400.00
	Field change order				5%		214,000.00
	Mobilization Item 8 Total:				4%	\$ <b>\$</b>	171,200.00 <b>941,600.00</b>
_							
Cor	nstruction Total					\$	5,221,000.00
Esc	calation on Construction (5% per year for two years)				10%	\$	523,000.00
	gineering and survey				18%		940,000.00
	neral contingency				25%		1,306,000.00
Pro	oject Total					\$	7,990,000.00
Thi	rd Party Engineering Inspection				7%	\$	366,000.00
Up	dated Project Total					\$	8,356,000.00



## TOWN OF FALLSBURG

### SEGMENT 4 OF 6

The following is the opinion of cost for the segment of trail that passes through the Town of Fallsburg and includes the Village of Woodridge.

Item		Quantity	Unit		Unit Cost		Item Total
	FALLSBURG						
	Trail construction						
	New stone dust trail - 12' wide, complex section	33,109	LF	\$		\$	4,304,170.00
	Rough grading sites, 1,100-3,000 S.F., skid steer & labor	1	EA	\$		\$	1,421.54
	Repair Existing Stone Dust Trail  Item 1 Total:	9,287	LF	\$	60.00	\$ <b>\$</b>	557,220.00 <b>4,862,811.54</b>
						•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2.	Bridges/Tunnel						
	Bridge 1 - Tomsco Falls (Includes necessary construction, installation, shallow footings and mobilization costs)	1	LS	\$		\$	288,400.00
	Bridge 1a - Tomsco Falls (Includes necessary construction, installation, shallow footings and mobilization costs)	1	LS	\$		\$	212,600.00
	Bridge 2 - Sandburg Creek Crossing (Includes construction, installation, footing and mobilization costs)	1	LS	\$		\$	137,600.00
	Bridge 3 - Neversink (Includes necessary construction, installation, and mobilization costs)	1	LS	\$		\$	750,000.00
	Tunnel Bypass  Item 2 Total:	1	LS	\$	365,000	\$ <b>\$</b>	365,000.00 <b>1,753,600.00</b>
						*	1,755,000.00
	Drainage	-	54.16		10.115		52 224 42
	Culvert, Piping, Aggregate, Excavation and Backfill  Item 3 Total:	5	EA LS	\$	10,446	\$ <b>\$</b>	52,231.43 <b>52,231.43</b>
						*	32,232113
	Fencing, Furnishings and Signage			_		_	
	Slope protection fencing - 48" wood 3 rail	8,840	LF	\$	24.26		214,458.40
	Slope protection fencing - 4' Heavy Duty  Item 4 Total:	1,250	LF	\$	50.00	\$ <b>\$</b>	62,500.00 <b>276,958.40</b>
	item 4 Total.					Þ	270,550.40
	Roadway Crossings						
	Marked and Signed Crossing	11	EA	\$		\$	27,500.00
	Minor Crossing Item 5 Total:	2	EA	\$	400.00	\$ <b>\$</b>	800.00 <b>28,300.00</b>
	Total.					7	20,300.00
	On-Road Segments			_		_	
	Shoulder Bikeway Marked Shared Roadway	1,181 11,220	LF LF	\$ \$		\$ \$	8,267.00 22,440.00
	Item 6 Total:	11,220	LF	ş	2.00	\$	30,707.00
	Trailheads		F.A.	ćr	00-\$3,200		
	Pedestrian Trailhead Sign Kiosk	-	EA EA		00-\$3,200		
		-	EA	\$9 \$	5,000		
	Solar Charging Station Area Map	-	EA		00-\$2,700		
	Wooden Bench		EA		00-32,700		
	Bike Racks (3)	-	EA	\$	1,200		
	Bike Repair Station		EA	\$	1,650		
	Canopy Trees-2" Caliper		EA	\$	1,200		
	Understory Trees-1" Caliper		EA	\$	600		
	Herbaceous Plants	-	EA	\$	30		
	Pavers	-	SF	\$	18		
		-	SF	\$	10		
	Gravel Parking Directional Sign	-	EA		00-\$3,150		
	Mile Marker		EA		00-\$3,130		
	Item 7 Total:				00 VI,200	\$	-
Tota	I - Items 1-7					\$	7,004,608.37
							,,
	Misc. construction costs Minor items				10%	ė	700,500.00
	Work zone traffic control				3%		210,200.00
	Field change order				5%		350,300.00
	Mobilization				4%		280,200.00
	Item 8 Total:				1,0	\$	1,541,200.00
Cons	truction Total					\$	8,546,000.00
	laking an Carakusking (FO) and an Arabus (FO)			_	100/	,	055 000 00
	lation on Construction (5% per year for two years)				10%		855,000.00
	neering and survey eral contingency				18% 25%		1,539,000.00 2,137,000.00
Proje	ect Total					\$	13,077,000.00
Third	Party Engineering Inspection				7%	\$	599,000.00
Heri	ated Project Total					ć	13 676 000 00
opda	ateu Project Total					\$	13,676,000.00



# TOWN OF LIBERTY

#### SEGMENT 5 OF 6

The following is the opinion of cost for the segment of trail that passes through the Town of Liberty.

tem	Quantity	Unit		Unit Cost		Item Tot
LIBERTY						
1. Trail construction						
New asphalt trail - 12' wide, complex section	8,976	LF	\$	140.00	\$	1,256,640.0
New stone dust trail - 12' wide, complex section	37,441	LF	\$	130.00	\$	4,867,330.0
Rough grading sites, 5,100-8,000 S.F., skid steer & labor	1	EA	\$	3,316.94	\$	3,316.9
Rough grading sites, 8,100-10,000 S.F., skid steer & labor	2	EA	\$	4,451.83	\$	8,903.
Repair Existing Stone Dust Trail	7,124	LF	\$	60.00	\$	427,440.0
Item 1 Total:					\$	6,563,630.6
2. Bridges						
Item 2 Total:					\$	-
. Drainage						
Item 3 Total:					\$	-
. Fencing, Furnishings and Signage						
Slope protection fencing - 48" wood 3 rail	809	LF	\$	24.26	\$	19,626.
Item 4 Total:					\$	19,626.
. Roadway Crossings						
Marked and Signed Crossing	9	EA	\$	2,500.00	\$	22,500.
Minor Crossing	1	EA	\$	400.00	\$	400.
Item 5 Total:					\$	22,900.
. On-Road Segments						
Shoulder Bikeway	4,184	LF	\$	7.00	\$	29,288.
Marked Shared Roadway	10,922	LF	\$	2.00	\$	21,844.
Marked Shared Roadway with Traffic Calming	214	LF	\$	14.00	\$	2,996.
Sidepath	250	LF	\$	50.00	\$	12,500.
Item 6 Total:	230		· ·	30.00	\$	66,628.
. Trailheads						
		F.A.	ćr	00 62 200		
Pedestrian Trailhead Sign	-	EA		00-\$3,200		
Kiosk	-	EA		00-\$6,000		
Solar Charging Station	-	EA	\$	5,000		
Area Map	-	EA	\$5	00-\$2,700		
Wooden Bench	-	EA	\$8	00-1,800		
Bike Racks (3)	-	EA	\$	1,200		
Bike Repair Station	-	EA	\$	1,650		
Canopy Trees-2" Caliper	-	EA	\$	1,200		
Understory Trees-1" Caliper	-	EA	\$	600		
Herbaceous Plants		EA	\$	30		
			\$			
Pavers	-	SF		18		
Gravel Parking	-	SF	\$	10		
Directional Sign	-	EA		00-\$3,150		
Mile Marker Item 7 Total:	-	EA	\$1	00-\$1,200	\$	
otal - Items 1-7					\$	6,672,784.
. Misc. construction costs						
Minor items				10%		667,300.
Work zone traffic control				3%	\$	200,200.
Field change order				5%	\$	333,700.
Mobilization				4%	\$	267,000.
					\$	1,468,200.
Item 8 Total:						
					¢	8 1/1 000
					\$	8,141,000.
Construction Total Scalation on Construction (5% per year for two years)				10%	\$	815,000.
Construction Total  scalation on Construction (5% per year for two years) Ingineering and survey				18%	\$	815,000. 1,466,000.
onstruction Total scalation on Construction (5% per year for two years) ngineering and survey ieneral contingency					\$ \$	815,000. 1,466,000. 2,036,000.
Construction Total Scalation on Construction (5% per year for two years)				18%	\$	8,141,000. 815,000. 1,466,000. 2,036,000.
onstruction Total scalation on Construction (5% per year for two years) ngineering and survey eneral contingency				18%	\$ \$ \$	815,000 1,466,000 2,036,000



# TOWN OF ROCKLAND

### SEGMENT 6 OF 6

The following is the opinion of cost for the segment of trail that passes through the Town of Rockland.

Ite	m	Quantity	Unit		Unit Cost		Item Total
	ROCKLAND						
1.	Trail construction						
	New stone dust trail - 12' wide, complex section	10,906	LF	\$	130.00	\$	1,417,780.00
	Rough grading sites, 1,100-3,000 S.F., skid steer & labor	1	EA	\$	1,421.54	\$	1,421.54
	Rough grading sites, 3,100-5,000 S.F., skid steer & labor	1	EA	\$	2,162.69	\$	2,162.69
	Rough grading sites, 5,100-8,000 S.F., skid steer & labor	1	EA	\$	3,316.94	\$	3,316.94
	Item 1 Total:					\$	1,424,681.17
2.	Bridges					_	
	Item 2 Total:					\$	-
3.	Drainage						
٥.	Culvert, Piping, Aggregate, Excavation and Backfill	5	EA LS	\$	10,446	\$	52,231.43
	Item 3 Total:			-	,	\$	52,231.43
4.	Fencing, Furnishings and Signage						
	Slope protection fencing - 48" wood 3 rail	1,310	LF	\$	24.26	\$	31,780.60
	Item 4 Total:					\$	31,780.60
5.	Ponduray Crossings						
э.	Roadway Crossings Item 5 Total:					\$	
	item 5 total.					Ţ	-
6.	On-Road Segments						
	Shoulder Bikeway	8,455	LF	\$	7.00	\$	59,185.00
	Marked Shared Roadway	3,322	LF	\$	2.00	\$	6,644.00
	Item 6 Total:					\$	65,829.00
7.	Trailheads						
	Two Lookouts over Little Beaver Kill	2	EA	\$	45,000	\$	90,000.00
	Pedestrian Trailhead Sign	-	EA		00-\$3,200		
	Kiosk	-	EA	\$9	00-\$6,000		
	Solar Charging Station	-	EA	\$	5,000		
	Area Map	-	EA	\$5	00-\$2,700		
	Wooden Bench	-	EA	\$8	00-1,800		
	Bike Racks (3)	-	EA	\$	1,200		
	Bike Repair Station	-	EA	\$	1,650		
	Canopy Trees-2" Caliper	-	EA	\$	1,200		
	Understory Trees-1" Caliper	-	EA	\$	600		
	Herbaceous Plants	-	EA	\$	30		
	Pavers	-	SF	\$	18		
	Gravel Parking	-	SF	\$	10		
	Directional Sign	-	EA	\$6	00-\$3,150		
	Mile Marker	-	EA	\$1	00-\$1,200		
	Item 7 Total:					\$	90,000.00
Tot	tal - Items 1-7					\$	1,664,522.20
8.	Misc. construction costs						
	Minor items				10%		166,500.00
	Work zone traffic control				3%		50,000.00
	Field change order				5%	\$	83,300.00
	Mobilization				4%	\$	66,600.00
	Item 8 Total:					\$	366,400.00
_							
Co	nstruction Total					\$	2,031,000.00
Eco	relation on Construction (EV per year for two years)				10%	ė	204,000.00
	ralation on Construction (5% per year for two years)				10%		
	gineering and survey neral contingency				18% 25%		366,000.00 508,000.00
Je	neral contangency				23%	ر	300,000.00
Pro	oject Total					\$	3,109,000.00
Th:	rd Party Engineering Inspection				7%	ć	143 000 00
- 1111	rd Party Engineering Inspection				1%	۶	143,000.00
Up	dated Project Total				_	\$	3,252,000.00

