

Appendix G: Bicycle Facility Alternatives Cost Estimates



Shared Use Path Cost Estimate



Derr Road and Home Road - Shared Use Path

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	62222	\$ 1.28	\$ 79,401.78
Surface course	CU YD	3148	\$ 146.61	\$ 461,550.00
Tack Coat	GAL	4667	\$ 2.09	\$ 9,734.20
aggregate base	CU YD	10370	\$ 45.91	\$ 476,103.70
Subgrade Compaction	SQ YD	14222	\$ 1.33	\$ 18,915.56
curb type 6	FT	8000	\$ 9.72	\$ 77,776.00
Pavement Removed	SQ YD	10075	\$ 8.75	\$ 88,113.94
Curb Removed	FT	8000	\$ 4.88	\$ 39,040.00
Seeding and Mulching	LUMP	1	\$ 23,325.56	\$ 23,325.56
Erosion Control	FT	16000	\$ 13.44	\$ 215,040.00
Curbed Drainage	FT	16000	\$ 67.50	\$ 1,080,000.00
Pavement Striping	LUMP	0	\$ 20,000.00	\$ 20,000.00
Signing	FT	16000	\$ 5.00	\$ 80,000.00
MOT	FT	15000	\$ 33.60	\$ 504,000.00
Total Construction Cost				\$ 3,173,000.73
Engineering Cost				\$ 475,950.11
Contingency				\$ 634,600.15
Project Total Cost				\$ 4,283,550.99

Buffered Bike Lane Cost Estimate



Home Road West of Derr Road - Buffered Bike Lanes

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	29338	\$ 1.28	\$ 37,438.65
Surface course	CU YD	1019	\$ 146.61	\$ 149,350.45
Tack Coat	GAL	2200	\$ 2.09	\$ 4,589.76
Center Line	MI	2	\$ 536.30	\$ 819.69
Transverse Line	FT	5630	\$ 2.62	\$ 14,750.04
Stop Line	FT	280	\$ 3.26	\$ 912.32
Edge Line	MI	3	\$ 413.41	\$ 1,402.46
Crosswalk Line	FT	1300	\$ 2.17	\$ 2,815.67
Dotted/Dahsed Lane Line	MI	0.3	\$ 400.06	\$ 124.64
Channelizing Line	FT	870	\$ 0.57	\$ 497.90
Lane Arrow	EACH	50	\$ 51.06	\$ 2,552.85
Bike Lane Marking	EACH	28	\$ 128.00	\$ 3,584.00
Sharrow Marking	EACH	0	\$ 90.50	\$ -
MOT	FT	4772	\$ 8.00	\$ 38,176.00
Signing	FT	4772	\$ 10.08	\$ 48,101.76
			Total Construction Cost	\$ 305,116.19
			Engineering Cost	\$ 45,767.43
			Contingency	\$ 61,023.24
			Project Total Cost	\$ 411,906.85

Home Road East of Derr Road - Buffered Bike Lanes

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	33658	\$ 1.28	\$ 42,951.40
Surface course	CU YD	1169	\$ 146.61	\$ 171,341.95
Tack Coat	GAL	2524	\$ 2.09	\$ 5,265.59
Center Line	MI	2	\$ 536.30	\$ 1,122.38
Transverse Line	FT	3355	\$ 2.62	\$ 8,789.76
Stop Line	FT	124	\$ 3.26	\$ 404.03
Edge Line	MI	4	\$ 413.41	\$ 1,802.40
Crosswalk Line	FT	362	\$ 2.17	\$ 784.06
Dotted/Dahsed Lane Line	MI	0.1	\$ 400.06	\$ 40.54
Channelizing Line	FT	505	\$ 0.57	\$ 289.01
Lane Arrow	EACH	35	\$ 51.06	\$ 1,786.99
Bike Lane Marking	EACH	28	\$ 128.00	\$ 3,584.00
Sharrow Marking	EACH	3	\$ 90.50	\$ 271.50
MOT	FT	5902	\$ 8.00	\$ 47,216.00
Signing	FT	5902	\$ 10.08	\$ 59,492.16
Total Construction Cost				\$ 345,141.77
Engineering Cost				\$ 51,771.27
Contingency				\$ 69,028.35
Project Total Cost				\$ 465,941.39

Derr Road - Buffered Bike Lanes

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	31676	\$ 1.28	\$ 40,421.46
Surface course	CU YD	1100	\$ 146.61	\$ 161,249.51
Tack Coat	GAL	2376	\$ 2.09	\$ 4,955.44
Center Line	MI	2	\$ 536.30	\$ 855.24
Transverse Line	FT	2242	\$ 2.62	\$ 5,873.82
Stop Line	FT	176	\$ 3.26	\$ 573.46
Edge Line	MI	4	\$ 413.41	\$ 1,486.63
Crosswalk Line	FT	1629	\$ 2.17	\$ 3,528.25
Dotted/Dahsed Lane Line	MI	0.4	\$ 400.06	\$ 151.54
Channelizing Line	FT	803	\$ 0.57	\$ 459.56
Lane Arrow	EACH	50	\$ 51.06	\$ 2,552.85
Bike Lane Marking	EACH	40	\$ 128.00	\$ 5,120.00
Sharrow Marking	EACH	0	\$ 90.50	\$ -
MOT	FT	5220	\$ 8.00	\$ 41,760.00
Signing	FT	5220	\$ 10.08	\$ 52,617.60
			Total Construction Cost	\$ 321,605.34
			Engineering Cost	\$ 48,240.80
			Contingency	\$ 64,321.07
			Project Total Cost	\$ 434,167.21

Total Project - Buffered Bike Lanes

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	94514	\$ 1.28	\$ 120,608.94
Surface course	CU YD	3282	\$ 146.61	\$ 481,133.82
Tack Coat	GAL	7089	\$ 2.09	\$ 14,785.96
Center Line	MI	5	\$ 536.30	\$ 2,805.74
Transverse Line	FT	11378	\$ 2.62	\$ 29,809.22
Stop Line	FT	635	\$ 3.26	\$ 2,069.02
Edge Line	MI	11	\$ 413.41	\$ 4,650.15
Crosswalk Line	FT	2785	\$ 2.17	\$ 6,032.03
Dotted/Dahsed Lane Line	MI	1	\$ 400.06	\$ 305.27
Channelizing Line	FT	2241	\$ 0.57	\$ 1,282.52
Lane Arrow	EACH	130	\$ 51.06	\$ 6,637.40
Bike Lane Marking	EACH	93	\$ 128.00	\$ 11,904.00
Sharrow Marking	EACH	3	\$ 90.50	\$ 271.50
MOT	FT	16000	\$ 8.00	\$ 128,000.00
Signing	FT	16000	\$ 10.08	\$ 161,280.00
			Total Construction Cost	\$ 971,575.57
			Engineering Cost	\$ 145,736.33
			Contingency	\$ 194,315.11
			Project Total Cost	\$ 1,311,627.01

Two-Way Cycle Track Cost Estimate



Derr Road - Two-Way Cycle Track

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	31676	\$ 1.28	\$ 40,421.46
Surface course	CU YD	1100	\$ 146.61	\$ 161,249.51
Tack Coat	GAL	2376	\$ 2.09	\$ 4,955.44
Center Line	MI	2	\$ 536.30	\$ 850.87
Transverse Line	FT	4170	\$ 2.62	\$ 10,924.98
Stop Line	FT	153	\$ 3.26	\$ 498.52
Edge Line	MI	2	\$ 413.41	\$ 742.10
Crosswalk Line	FT	1625	\$ 2.17	\$ 3,519.59
Dotted/Dahsed Lane Line	MI	1	\$ 400.06	\$ 477.34
Channelizing Line	FT	800	\$ 0.57	\$ 457.84
Lane Arrow	EACH	55	\$ 51.06	\$ 2,808.13
Bike Lane Marking	EACH	38	\$ 128.00	\$ 4,864.00
Ballards	EACH	290	\$ 51.64	\$ 14,976.53
MOT	FT	5220	\$ 8.00	\$ 41,760.00
Signing	FT	5220	\$ 10.08	\$ 52,617.60
Total Construction Cost				\$ 341,123.91
Engineering Cost				\$ 51,168.59
Contingency				\$ 68,224.78
Project Total Cost				\$ 460,517.28

Home Road West of Derr Road - Two-Way Cycle Track

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	29338	\$ 1.28	\$ 37,438.65
Surface course	CU YD	1019	\$ 146.61	\$ 149,350.45
Tack Coat	GAL	2200	\$ 2.09	\$ 4,589.76
Center Line	MI	2	\$ 536.30	\$ 804.45
Transverse Line	FT	5803	\$ 2.62	\$ 15,203.28
Stop Line	FT	275	\$ 3.26	\$ 896.03
Edge Line	MI	2	\$ 413.41	\$ 720.57
Crosswalk Line	FT	1300	\$ 2.17	\$ 2,815.67
Dotted/Dahsed Lane Line	MI	1	\$ 400.06	\$ 411.96
Channelizing Line	FT	871	\$ 0.57	\$ 498.47
Lane Arrow	EACH	53	\$ 51.06	\$ 2,706.02
Bike Lane Marking	EACH	27	\$ 128.00	\$ 3,456.00
Ballards	EACH	265	\$ 51.64	\$ 13,691.19
MOT	FT	4772	\$ 8.00	\$ 38,176.00
Signing	FT	4772	\$ 10.08	\$ 48,101.76
Total Construction Cost				\$ 318,860.26
Engineering Cost				\$ 47,829.04
Contingency				\$ 63,772.05
Project Total Cost				\$ 430,461.35

Home Road East of Derr Road - Two-Way Cycle Track

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	33658	\$ 1.28	\$ 42,951.40
Surface course	CU YD	1169	\$ 146.61	\$ 171,341.95
Tack Coat	GAL	2524	\$ 2.09	\$ 5,265.59
Center Line	MI	2	\$ 536.30	\$ 1,119.63
Transverse Line	FT	5090	\$ 2.62	\$ 13,335.29
Stop Line	FT	132	\$ 3.26	\$ 430.10
Edge Line	MI	2	\$ 413.41	\$ 961.02
Crosswalk Line	FT	355	\$ 2.17	\$ 768.89
Dotted/Dahsed Lane Line	MI	1	\$ 400.06	\$ 475.45
Channelizing Line	FT	446	\$ 0.57	\$ 255.25
Lane Arrow	EACH	40	\$ 51.06	\$ 2,042.28
Bike Lane Marking	EACH	24	\$ 128.00	\$ 3,072.00
Ballards	EACH	328	\$ 51.64	\$ 16,933.23
MOT	FT	5902	\$ 8.00	\$ 47,216.00
Signing	FT	5902	\$ 10.08	\$ 59,492.16
Total Construction Cost				\$ 365,660.24
Engineering Cost				\$ 54,849.04
Contingency				\$ 73,132.05
Project Total Cost				\$ 493,641.33

Home Road West of Derr Road - Two-Way Cycle Track

	Unit	Quantity	Unit Price	Item Cost
1.25" Pavement Planing	SQ YD	29338	\$ 1.28	\$ 37,438.65
Surface course	CU YD	1019	\$ 146.61	\$ 149,350.45
Tack Coat	GAL	2200	\$ 2.09	\$ 4,589.76
Center Line	MI	2	\$ 536.30	\$ 804.45
Transverse Line	FT	5803	\$ 2.62	\$ 15,203.28
Stop Line	FT	275	\$ 3.26	\$ 896.03
Edge Line	MI	2	\$ 413.41	\$ 720.57
Crosswalk Line	FT	1300	\$ 2.17	\$ 2,815.67
Dotted/Dahsed Lane Line	MI	1	\$ 400.06	\$ 411.96
Channelizing Line	FT	871	\$ 0.57	\$ 498.47
Lane Arrow	EACH	53	\$ 51.06	\$ 2,706.02
Bike Lane Marking	EACH	27	\$ 128.00	\$ 3,456.00
Ballards	EACH	265	\$ 51.64	\$ 13,691.19
MOT	FT	4772	\$ 8.00	\$ 38,176.00
Signing	FT	4772	\$ 10.08	\$ 48,101.76
Total Construction Cost				\$ 318,860.26
Engineering Cost				\$ 47,829.04
Contingency				\$ 63,772.05
Project Total Cost				\$ 430,461.35

Pedestrian Facilities Upgrade Cost Estimate



Pedestrian Facility Upgrades

	Unit	Quantity	Unit Price	Item Cost
Curb Ramps	LUMP	66	\$ 616.18	\$ 40,667.65
Pedestrian Signal Head	LUMP	48	\$ 479.00	\$ 22,992.00
Pedestrian Push Button	LUMP	48	\$ 228.00	\$ 10,944.00
Pedestrian Pedestal Pole	LUMP	30	\$ 700.00	\$ 21,000.00
Total Construction Cost				\$ 95,603.65
Engineering Cost				\$ 14,340.55
Contingency				\$ 19,120.73
Project Total Cost				\$ 129,064.93