

## 12' Asphalt Trail

Rural Trail Costs							
Pay Item	Description	Length (ft)	Width (ft)	Quantity	Units	Unit Cost	Total
110-1-1	Clearing and Grubbing	5280.0	22.0	0.3	AC	\$15,000.00	\$4,444.44
120-6	Embankment	5280.0	22.0	3520.0	CY	\$10.75	\$37,840.00
160-5	Type B Stabilization (12")	5280.0	16.0	9386.7	SY	\$5.00	\$46,933.33
285-704	Optional Base (6" Lime rock or 6" Crushed Concrete)	5280.0	13.5	7920.0	SY	\$12.00	\$95,040.00
334-1-15	Super Pave Asphaltic Concrete (Type A) (1 1/4")	5280.0	12.0	484.0	TN	\$80.00	\$38,720.00
570-2	Seed & Mulch	5280.0	10.0	5866.7	SY	\$0.25	\$1,466.67
575-1	Sodding	5280.0	4.0	2346.7	SY	\$3.30	\$7,744.00
400-1-15	Gravity Walls (2' exposed face) (Concrete Class I Misc)	200.0		40.0	CY	\$316.00	\$12,640.00
460-1-15	Gravity Walls (2' exposed face) (Struct Steel Misc)	200.0		800.0	LB	\$10.00	\$8,000.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	100.0		11.0	CY	\$316.00	\$3,476.00
515-1-2	Bicycle Railing	200.0		200.0	LF	\$70.00	\$14,000.00
	Two-Lane Major Crossings (>1500 AADT)			1.0	EA	\$45,000.00	\$45,000.00
	Two-Lane Minor Crossings (<1500 AADT)			5.0	EA	\$12,500.00	\$62,500.00
	Signalized Crossings			0.0	EA	\$100,000.00	\$0.00
	Subtotal						\$377,804.44
	Misc Drainage (5%)						\$18,890.22
	Misc Signing and Marking (2%)						\$7,556.09
	Misc Utilitites (2%)						\$7,556.09
	Construction Contingency (20%)						\$75,560.89
	Maintenance of Traffic (Major Crossing Only)			1.0	EA	\$5,000.00	\$5,000.00
	Mobilization (10%)						\$37,780.44
<b>Trail Total</b>							<b>\$530,148.18</b>

Urban Trail Costs							
Pay Item	Description	Length (ft)	Width (ft)	Quantity	Units	Unit Cost	Total
110-1-1	Clearing and Grubbing	5280.0	22.0	0.3	AC	\$15,000.00	\$4,444.44
120-6	Embankment	5280.0	22.0	3520.0	CY	\$10.75	\$37,840.00
160-5	Type B Stabilization (12")	5280.0	16.0	9386.7	SY	\$5.00	\$46,933.33
285-704	Optional Base (6" Lime rock or 6" Crushed Concrete)	5280.0	13.5	7920.0	SY	\$12.00	\$95,040.00
334-1-15	Super Pave Asphaltic Concrete (Type A) (1 1/4")	5280.0	12.0	484.0	TN	\$80.00	\$38,720.00
570-2	Seed & Mulch	5280.0	10.0	5866.7	SY	\$0.25	\$1,466.67
575-1	Sodding	5280.0	4.0	2346.7	SY	\$3.30	\$7,744.00
400-1-15	Gravity Walls (2' exposed face) (Concrete Class I Misc)	200.0		40.0	CY	\$316.00	\$12,640.00
460-1-15	Gravity Walls (2' exposed face) (Struct Steel Misc)	200.0		800.0	LB	\$10.00	\$8,000.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	100.0		11.0	CY	\$316.00	\$3,476.00
515-1-2	Bicycle Railing	200.0		200.0	LF	\$70.00	\$14,000.00
	Two-Lane Major Crossings (>1500 AADT)			3.0	EA	\$45,000.00	\$135,000.00
	Two-Lane Minor Crossings (<1500 AADT)			5.0	EA	\$12,500.00	\$62,500.00
	Signalized Crossings			1.0	EA	\$100,000.00	\$100,000.00
	Subtotal						\$567,804.44
	Misc Drainage (5%)						\$28,390.22
	Misc Signing and Marking (2%)						\$11,356.09
	Misc Utilitites (2%)						\$11,356.09
	Construction Contingency (20%)						\$113,560.89
	Maintenance of Traffic (Major Crossing Only)			1.0	EA	\$5,000.00	\$5,000.00
	Mobilization (10%)						\$56,780.44
<b>Trail Total</b>							<b>\$794,248.18</b>

## 12' Concrete Trails

Rural Trail Costs							
Pay Item	Description	Length (ft)	Width (ft)	Quantity	Units	Unit Cost	Total
110-1-1	Clearing and Grubbing	5280.0	16.0	0.2	AC	\$15,000.00	\$3,232.32
120-6	Embankment	5280.0	16.0	3520.0	CY	\$10.75	\$37,840.00
522-1	Sidewalk Conc. 4"	5280.0	12.0	7040.0	SY	\$31.00	\$218,240.00
570-2	Seed & Mulch	5280.0	10.0	5866.7	SY	\$0.25	\$1,466.67
575-1	Sodding	5280.0	4.0	2346.7	SY	\$3.30	\$7,744.00
400-1-15	Gravity Walls (2' exposed face) (Concrete Class I Misc)	200.0		40.0	CY	\$316.00	\$12,640.00
460-1-15	Gravity Walls (2 exposed face) (Struct Steel Misc)	200.0		800.0	LB	\$10.00	\$8,000.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	100.0		11.0	CY	\$316.00	\$3,476.00
515-1-2	Bicycle Railing	200.0		200.0	LF	\$70.00	\$14,000.00
	Two-Lane Major Crossings (>1500 AADT)			1.0	EA	\$30,000.00	\$30,000.00
	Two-Lane Minor Crossings (<1500 AADT)			5.0	EA	\$10,000.00	\$50,000.00
	Signalized Crossings (Included in cost of roadway construction.)			0.0	EA	\$100,000.00	\$0.00
	Subtotal						\$386,638.99
	Misc Drainage (5%)						\$19,331.95
	Misc Signing and Marking (2%)						\$7,732.78
	Misc Utilitites (2%)						\$7,732.78
	Construction Contingency (20%)						\$77,327.80
	Maintenance of Traffic (Major Crossing Only)			1.0	EA	\$5,000.00	\$5,000.00
	Mobilization (10%)						\$38,663.90
<b>Trail Total</b>							<b>\$542,428.20</b>

Urban Trail Costs							
Pay Item	Description	Length (ft)	Width (ft)	Quantity	Units	Unit Cost	Total
110-1-1	Clearing and Grubbing	5280.0	16.0	0.2	AC	\$15,000.00	\$3,232.32
120-6	Embankment	5280.0	16.0	3520.0	CY	\$10.75	\$37,840.00
522-1	Sidewalk Conc. 4"	5280.0	12.0	7040.0	SY	\$31.00	\$218,240.00
570-2	Seed & Mulch	5280.0	10.0	5866.7	SY	\$0.25	\$1,466.67
575-1	Sodding	5280.0	4.0	2346.7	SY	\$3.30	\$7,744.00
400-1-15	Gravity Walls (2' exposed face) (Concrete Class I Misc)	200.0		40.0	CY	\$316.00	\$12,640.00
460-1-15	Gravity Walls (2 exposed face) (Struct Steel Misc)	200.0		800.0	LB	\$10.00	\$8,000.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	100.0		11.0	CY	\$316.00	\$3,476.00
515-1-2	Bicycle Railing	200.0		200.0	LF	\$70.00	\$14,000.00
	Two-Lane Major Crossings (>1500 AADT) urban, major sidestreet			2.0	EA	\$45,000.00	\$90,000.00
	Two-Lane Minor Crossings (<1500 AADT) urban, minor sidestreet			5.0	EA	\$12,000.00	\$60,000.00
	Signalized Crossings			1.0	EA	\$100,000.00	\$100,000.00
	Subtotal						\$556,638.99
	Misc Drainage (5%)	5%					\$27,831.95
	Misc Signing and Marking (2%)	2%					\$11,132.78
	Misc Utilitites (2%)	2%					\$11,132.78
	Construction Contingency (20%)	20%					\$111,327.80
	Maintenance of Traffic (Major Crossing Only)			2.0	EA	\$5,000.00	\$10,000.00
	Mobilization (10%)						\$55,663.90
<b>Trail Total</b>							<b>\$783,728.20</b>

## Intersection Costs

Urban Mid-Block Crossing					
Pay Item	Description	Unit	Quantity	Unit Cost	Total
522-1	Sidewalk, Concrete, 4" Thick	SY	115.0	\$45.00	\$5,175.00
522-2	Sidewalk, Concrete, 6" Thick	SY	220.0	\$55.00	\$12,100.00
575-1	Sodding	SY	159.0	\$3.30	\$524.70
527-1	Detectable Warning on Walk Surface	EA	2.0	\$1,000.00	\$2,000.00
520-2-2	Concrete Curb Type B	LF	125.0	\$33.00	\$4,125.00
527-1	Concrete Curb Special	LF	44.0	\$55.00	\$2,420.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	CY	2.0	\$316.00	\$625.68
515-1-2	Bicycle Railing	LF	18.0	\$70.00	\$1,260.00
	Mobilization (10%)				<u>\$2,823.04</u>
<b>Trail Total</b>					<b>\$31,053.42</b>

Rural Mid-Block Crossing					
Pay Item	Description	Unit	Quantity	Unit Cost	Total
522-1	Sidewalk, Concrete, 4" Thick	SY	0.0	\$45.00	\$0.00
522-2	Sidewalk, Concrete, 6" Thick	SY	230.0	\$55.00	\$12,650.00
575-1	Sodding	SY	70.0	\$3.30	\$231.00
527-1	Detectable Warning on Walk Surface	EA	2.0	\$1,000.00	\$2,000.00
520-2-2	Concrete Curb Type B	LF	80.0	\$33.00	\$2,640.00
527-1	Concrete Curb Special	LF	0.0	\$55.00	\$0.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	CY	2.0	\$316.00	\$625.68
515-1-2	Bicycle Railing	LF	18.0	\$70.00	\$1,260.00
	Mobilization (10%)				<u>\$1,940.67</u>
<b>Trail Total</b>					<b>\$21,347.35</b>

Side Street and Minor Crossings					
Pay Item	Description	Unit	Quantity	Unit Cost	Total
522-1	Sidewalk, Concrete, 4" Thick	SY	0.0	\$45.00	\$0.00
522-2	Sidewalk, Concrete, 6" Thick	SY	40.0	\$55.00	\$2,200.00
575-1	Sodding	SY	0.0	\$3.30	\$0.00
527-1	Detectable Warning on Walk Surface	EA	2.0	\$1,000.00	\$2,000.00
520-2-2	Concrete Curb Type B	LF	0.0	\$33.00	\$0.00
527-1	Concrete Curb Special	LF	36.0	\$55.00	\$1,980.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	CY	2.0	\$316.00	\$625.68
515-1-2	Bicycle Railing	LF	18.0	\$70.00	\$1,260.00
	Mobilization (10%)				<u>\$806.57</u>
<b>Trail Total</b>					<b>\$8,872.25</b>

## Signing and Striping Intersection Costs

Case I Mid Block Crossing					
Pay Item	Description	Unit	Quantity	Unit Cost	Total
700-20-11	Single Post, Ground Mount < 12 SF	AS	12.0	\$285.00	\$3,420.00
711-11-123	12" Solid Stripe (White)(Thermoplastic)	LF	48.0	\$5.00	\$240.00
710-11-125	24" Solid Stripe (White)(Paint)	LF	12.0	\$5.00	\$60.00
710-11-224	18" Solid Stripe (Yellow)(Paint)	LF	20.0	\$5.00	\$100.00
710-11-211	6" Solid Stripe (Yellow)(Paint)	LF	257.0	\$2.50	\$642.50
711-11-221	6" Solid Stripe (Yellow)(Thermoplastic)	LF	2000.0	\$2.00	\$4,000.00
711-11-160	Standard White Message (Thermoplastic)	EA	4.0	\$150.00	\$600.00
	Mobilization (10%)				<a href="#">\$906.25</a>
<b>Trail Total</b>					<b>\$9,968.75</b>

Case II Side Street Crossing					
Pay Item	Description	Unit	Quantity	Unit Cost	Total
700-20-11	Single Post, Ground Mount < 12 SF	AS	11.0	\$285.00	\$3,135.00
711-11-123	12" Solid Stripe (White)(Thermoplastic)	LF	36.0	\$5.00	\$180.00
710-11-125	24" Solid Stripe (White)(Paint)	LF	12.0	\$5.00	\$60.00
710-11-224	18" Solid Stripe (Yellow)(Paint)	LF	0.0	\$5.00	\$0.00
710-11-211	6" Solid Stripe (Yellow)(Paint)	LF	200.0	\$2.50	\$500.00
711-11-221	6" Solid Stripe (Yellow)(Thermoplastic)	LF	0.0	\$2.00	\$0.00
711-11-160	Standard White Message (Thermoplastic)	EA	0.0	\$150.00	\$0.00
	Mobilization (10%)				<a href="#">\$387.50</a>
<b>Trail Total</b>					<b>\$4,262.50</b>

Case III Side Street Crossing					
Pay Item	Description	Unit	Quantity	Unit Cost	Total
700-20-11	Single Post, Ground Mount < 12 SF	AS	6.0	\$285.00	\$1,710.00
711-11-123	12" Solid Stripe (White)(Thermoplastic)	LF	36.0	\$5.00	\$180.00
710-11-125	24" Solid Stripe (White)(Paint)	LF	12.0	\$5.00	\$60.00
710-11-224	18" Solid Stripe (Yellow)(Paint)	LF	0.0	\$5.00	\$0.00
710-11-211	6" Solid Stripe (Yellow)(Paint)	LF	200.0	\$2.50	\$500.00
711-11-221	6" Solid Stripe (Yellow)(Thermoplastic)	LF	0.0	\$2.00	\$0.00
711-11-160	Standard White Message (Thermoplastic)	EA	0.0	\$150.00	\$0.00
	Mobilization (10%)				<a href="#">\$245.00</a>
<b>Trail Total</b>					<b>\$2,695.00</b>

## Tremain Street Greenway

Trail Costs							
Pay Item	Description	Length (ft)	Width (ft)	Quantity	Units	Unit Cost	Total
327-70-1	Mill Existing Asphalt Pvt	5100.0	14.0	7933.3	SY	\$1.54	\$12,217.33
110-4	Pavement Removal	5100.0	4.0	2266.7	SY	\$24.00	\$54,400.00
520-1-7	Curb and Gutter (Type B)	5100.0		15300.0	LF	\$25.00	\$382,500.00
526-1-2	Pavers, Architectural	5100.0	10.0	5666.7	SY	\$106.00	\$600,666.67
334-1-15	Sawcutting	0.0	12.0	0.0	TN	\$80.00	\$0.00
570-2	Seed & Mulch	5100.0	5.0	2833.3	SY	\$0.25	\$708.33
575-1	Sodding	5100.0	2.0	1133.3	SY	\$3.30	\$3,740.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	100.0		11.0	CY	\$316.00	\$3,476.00
515-1-2	Bicycle Railing	100.0		100.0	LF	\$70.00	\$7,000.00
	Subtotal						\$1,064,708.33
	Misc Drainage (10%)	10%					\$106,470.83
	Misc Signing and Marking (5%)	5%					\$53,235.42
	Misc Utilitites (5%)	5%					\$53,235.42
	Landscaping (10%)	10%					\$106,470.83
	Construction Contingency (20%)	20%					\$212,941.67
	Maintenance of Traffic (Major Crossing Only)			2.0	EA	\$5,000.00	\$10,000.00
	Mobilization (10%)	10%					\$106,470.83
<b>Total</b>							<b>\$1,713,533.33</b>

2008 Construction Dollars

If existing pavement is used in lieu of architectural pavers then the cost may be reduced by approximately \$800,000

Enhanced landscaping will require an additional \$350,000

## Lincoln Avenue Trail

Trail Costs							
Pay Item	Description	Length (ft)	Width (ft)	Quantity	Units	Unit Cost	Total
110-1-1	Clearing and Grubbing	5483.0	20.0	0.3	AC	\$15,000.00	\$4,195.75
120-6	Embankment	5483.0	25.0	3655.3	CY	\$10.75	\$39,294.83
160-5	Type B Stabilization (12")	5483.0	16.0	9747.6	SY	\$5.00	\$48,737.78
285-704	Optional Base (6" Lime rock or 6" Crushed Concrete)	5483.0	12.5	7615.3	SY	\$12.00	\$91,383.33
334-1-15	Super Pave Asphaltic Concrete (Type C) (1 1/4")	5483.0	12.0	502.6	TN	\$80.00	\$40,208.67
570-2	Seed & Mulch	5483.0	10.0	6092.2	SY	\$0.25	\$1,523.06
575-1	Sodding	5483.0	4.0	2436.9	SY	\$3.30	\$8,041.73
400-1-15	Gravity Walls (2' exposed face) (Concrete Class I Misc)	200.0		40.0	CY	\$316.00	\$12,640.00
460-1-15	Gravity Walls (2' exposed face) (Struct Steel Misc)	200.0		800.0	LB	\$10.00	\$8,000.00
400-1-15	Bicycle Railing Footer (Concrete Class I Misc)	100.0		11.0	CY	\$316.00	\$3,476.00
515-1-2	Bicycle Railing	300.0		300.0	LF	\$70.00	\$21,000.00
	Two-Lane Major Crossings (>1500 AADT)(Sidestreet)			3.0	EA	\$15,000.00	\$45,000.00
	Two-Lane Minor Crossings (<1500 AADT)(Sidestreet)			6.0	EA	\$13,000.00	\$78,000.00
	Signalized Crossings (None)			0.0	EA	\$100,000.00	\$0.00
	Subtotal						\$401,501.15
	Misc Drainage (5%)						\$20,075.06
	Misc Signing and Marking (2%)						\$8,030.02
	Misc Utilitites (2%)						\$8,030.02
	Construction Contingency (20%)						\$80,300.23
	Maintenance of Traffic (Major Crossing Only)			3.0	EA	\$5,000.00	\$15,000.00
	Mobilization (10%)						\$40,150.11
<b>Trail Total</b>							<b>\$573,086.59</b>

2008 Construction Dollars

Enhanced landscaping and architectural features will require an estimated \$350,000

<b>Construction Engineering and Inspection (15%)</b>	<b>\$85,962.99</b>
<b>Total Construction Costs</b>	<b>\$659,049.58</b>