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# *Appendix C*

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## Cost Estimate





**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**  
**APRIL 22, 2008**

SECTION	DESCRIPTION	TRAIL LENGTH	UNIT	TOTAL COST
<b>1</b>	<b>Lower Big Creek Greenway Trail</b>			
	<b>A. Valley Route</b>			
	1. Valley Trail along Harvard Avenue to Jennings Road	4,050	LF	\$1,137,370.81
	2. Valley Trail along West 14th Street from Jennings Road to Calgary Park	3,090	LF	\$1,153,855.67
	3. Calgary Park Connector Trail	1,300	LF	\$486,375.79
	4. Valley Trail from the Calgary Park Connector Trail to the Metroparks Zoo Parking Lot	3,340	LF	\$1,948,365.26
	5. Valley Trail from Overlook in Zoo/Brookside Reservation to the Existing Trail at John Nagy BLVD	2,340	LF	\$318,533.62
	6. Valley Trail Underpass at Ridge Road	700	LF	\$138,817.00
	Subtotal	14,820		\$5,183,318.15
	<b>B. Upland Route</b>			
	1. Pearl Road to Harmody Park/Treadway Creek Trail Connection	6,586	LF	\$1,686,955.25
	A. Connector Trail to Scenic Overlook	130	LF	\$50,128.44
	B. Connector Trail to Treadway Creek Trail (NEORS D Access)	150	LF	\$46,459.10
	Subtotal	6,866	LF	\$1,783,542.79
<b>2</b>	<b>Total Lower Big Creek Greenway Trail</b>	<b>21,686</b>	<b>LF</b>	<b>\$6,966,860.94</b>
	<b>Lower Big Creek Greenway Trail Ecological Restoration</b>			
	<b>A. Environmental Clean Up (Defer until more is known at each site)</b>	1	LS	BY OTHERS
	<b>B. Stream Restoration (Defer until watershed management strategy is developed)</b>	16,544	LF	BY OTHERS
	<b>C. Riparian Corridor Enhancement</b>			
	1. Cuyahoga River to Jennings Road	4.13	AC	\$483,871.56
	2. Jennings Road to Pearl Road	20.71	AC	\$1,302,582.98
	3. Pearl Road to Fulton Parkway	14.26	AC	\$934,296.05
	4. Fulton Parkway to Ridge Road	24.58	AC	\$724,616.60
	Subtotal	63.68	AC	\$3,445,367.20
	<b>D. Wetland Creation/Enhancement</b>			
	1. Cuyahoga River to Jennings Road	0.00	AC	\$0.00
	2. Jennings Road to Pearl Road	0.95	AC	\$74,325.01
	3. Pearl Road to Fulton Parkway	4.56	AC	\$353,634.72
	4. Fulton Parkway to Ridge Road	1.27	AC	\$96,041.89
	Subtotal	6.78	AC	\$524,001.62
	<b>Total Lower Big Creek Greenway Trail Ecological Restoration</b>			<b>\$3,969,368.81</b>
	<b>Grand Total Lower Big Creek Greenway Trail</b>			<b>\$10,936,229.75</b>
	<b>Note: This opinion of probable costs does not include property acquisition costs. Many options exist for property acquisitions and or property relocations for the proposed Trail and Greenway Redevelopment &amp; Restoration Plan.</b>			



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**VALLEY ROUTE - HARVARD AVENUE & WEST 14th TO JENNINGS FREEWAY**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	2.50	3	AC	\$4,500.00	\$11,250.00
	B. Construction Fencing	4,050	4,050	LF	\$2.00	\$8,100.00
	C. Miscellaneous Demolition	4,050	4,050	LS	\$1.00	\$4,050.00
	D. Saw Cut	2,694	2,694	LF	\$4.00	\$10,776.00
	E. Asphalt Road Repair	785	785	LF	\$33.00	\$25,905.00
	F. Concrete Curb Removal	2,330	2,330	LF	\$4.00	\$9,320.00
	G. Utility Relocations/Removal	1	1	LS	\$5,000.00	\$5,000.00
	H. Utility Adjustments	1	1	LS	\$5,000.00	\$5,000.00
	<b>Subtotal</b>					<b>\$79,401.00</b>
2	<b>Earthwork</b>					
	A. Excavation	2,021	2,021	CY	\$10.00	\$20,210.00
	B. Strip Topsoil & Stockpile	2,218	2,218	CY	\$20.00	\$44,360.00
	C. Replace Topsoil	789	789	CY	\$38.00	\$29,982.00
	<b>Subtotal</b>					<b>\$94,552.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	4,050	4,050	LF	\$3.00	\$12,150.00
	B. Erosion Control Measures	4,050	4,050	EA	\$1.00	\$4,050.00
	<b>Subtotal</b>					<b>\$16,200.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	5,141	5,141	SY	\$2.00	\$10,282.00
	B. Asphalt Trail	2,111	2,111	SY	\$33.00	\$69,663.00
	C. Geogrid Fabric	5,141	5,141	SY	\$5.00	\$25,705.00
	D. Concrete Walk	18,640	18,640	SF	\$5.00	\$93,200.00
	E. Crosswalk Brick Paving	1,200	1,200	SF	\$15.00	\$18,000.00
	F. Curb Ramps	9	9	EA	\$2,128.00	\$19,152.00



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**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	G. Concrete Curb	2,330	2,330	LF	\$20.00	\$46,600.00
	H. Concrete Banding (2' w)	300	300	LF	\$80.00	\$24,000.00
	I. Brick Banding	4,660	4,660	SF	\$15.00	\$69,900.00
	<b>Subtotal</b>					<b>\$376,502.00</b>
5	<b>Storm Sewers</b>					
	A. 12" Culvert Pipe	125	125	EA	\$25.00	\$3,125.00
	B. Concrete 1/2 Head Wall 12" Pipe	8	8	EA	\$500.00	\$4,000.00
	C. Natural Stone Headwall	8	8	EA	\$1,500.00	\$12,000.00
	D. Rock Channel Protection	30	30	CY	\$100.00	\$3,000.00
	<b>Subtotal</b>					<b>\$22,125.00</b>
6	<b>Amenities/Furnishings</b>					
	A. Kiosks	2	2	EA	\$5,000.00	\$10,000.00
	B. Trail Signage	4,050	4,050	LF	\$1.00	\$4,050.00
	C. Street Signage Replacement	1	1	LS	\$2,500.00	\$2,500.00
	D. Rail Road Crossing @Grade (Rubber infill)	50	50	LF	\$100.00	\$5,000.00
	E. Street Lighting	16	16	LF	\$2,500.00	\$40,000.00
	<b>Subtotal</b>					<b>\$61,550.00</b>
7	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	1,946	1,946	SY	\$2.00	\$3,892.00
	B. Top Soil Along Berms	789	789	CY	\$38.00	\$29,982.00
	C. Seeding Disturbed Areas	7,600	7,600	SY	\$1.50	\$11,400.00
	D. Street Trees	166	166	EA	\$500.00	\$83,000.00
	<b>Subtotal</b>					<b>\$128,274.00</b>
8	<b>Environmental</b>					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	



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**VALLEY ROUTE - HARVARD AVENUE & WEST 14th TO JENNINGS FREEWAY**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	C. Forest Restoration/Enhancement	2.75	2.75	acres	\$25,000.00	\$68,750.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0.00	0.00	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$68,750.00</b>
9	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	4,050	4,050	LF	\$2.50	\$10,125.00
	B. Traffic Control & Maintenance	4,050	4,050	LS	\$2.00	\$8,100.00
	<b>Subtotal</b>					<b>\$18,225.00</b>
	<b>TOTAL</b>					<b>\$865,579.00</b>
	Contingency (20%)					\$173,115.80
	General Conditions (5%)					\$51,934.74
	Bonds & Insurances (3%)					\$31,160.84
	Mobilization/Demobilization (1.5%)					\$15,580.42
	<b>GRAND TOTAL</b>					<b>\$1,137,370.81</b>



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**VALLEY ROUTE - WEST 14TH STREET TO CALGARY PARK TRAIL**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	3.55	4	AC	\$4,500.00	\$15,975.00
	B. Construction Fencing	3,090	3,090	LF	\$2.00	\$6,180.00
	C. Miscellaneous Demolition	5,190	5,190	LS	\$1.00	\$5,190.00
	D. Fence Demolition	1,416	1,416	LF	\$3.57	\$5,055.12
	<b>Subtotal</b>					<b>\$32,400.12</b>
2	<b>Earthwork</b>					
	A. Excavation	1,195	1,195	CY	\$10.00	\$11,950.00
	B. Strip Topsoil & Stockpile	2,861	2,861	CY	\$20.00	\$57,220.00
	C. Replace Topsoil	686	686	CY	\$38.00	\$26,068.00
	D. Resoil Brownfields (8.12 Acres)	6,239	6,239	CY	\$45.00	\$280,755.00
	<b>Subtotal</b>					<b>\$375,993.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	3,090	3,090	LF	\$3.00	\$9,270.00
	B. Swale Matting Protection	2,060	2,060	SY	\$10.00	\$20,600.00
	C. Slope Matting Protection	3,433	3,433	SY	\$6.00	\$20,598.00
	D. Erosion Control Measures	3,090	3,090	EA	\$1.00	\$3,090.00
	<b>Subtotal</b>					<b>\$53,558.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	3,433	3,433	SY	\$2.00	\$6,866.00
	B. Asphalt Trail	3,433	3,433	SY	\$33.00	\$113,289.00
	C. Geogrid Fabric	3,433	3,433	SY	\$5.00	\$17,165.00
	D. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	<b>Subtotal</b>					<b>\$141,576.00</b>
5	<b>Storm Sewers</b>					
	A. 12" Culvert Pipe	8	8	EA	\$25.00	\$200.00



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**VALLEY ROUTE - WEST 14TH STREET TO CALGARY PARK TRAIL**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	B. Concrete 1/2 Head Wall 12" Pipe	16	16	LS	\$500.00	\$8,000.00
	C. Natural Stone Headwall	16	16	EA	\$1,500.00	\$24,000.00
	D. Rock Channel Protection	60	60	EA	\$100.00	\$6,000.00
	<b>Subtotal</b>					<b>\$38,200.00</b>
<b>6</b>	<b>Amenities/Furnishings</b>					
	A. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	B. Fencing Along Riparian Corridor	1,416	1,416	LF	\$27.00	\$38,232.00
	C. Trail Signage	3,090	3,090	LF	\$1.00	\$3,090.00
	D. Timber Rail	165	165	LF	\$45.00	\$7,425.00
	<b>Subtotal</b>					<b>\$53,747.00</b>
<b>7</b>	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	1,373	1,373	SY	\$2.00	\$2,746.00
	B. Top Soil Along Berms	687	687	CY	\$38.00	\$26,106.00
	C. Seeding Disturbed Areas	13,733	13,733	SY	\$1.50	\$20,599.50
	<b>Subtotal</b>					<b>\$49,451.50</b>
<b>8</b>	<b>Environmental</b>					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Forest Restoration/Enhancement	3.44	3.44	acres	\$25,000.00	\$86,000.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0.95	0.95	acres	\$35,046.25	\$33,293.94
	<b>Subtotal</b>					<b>\$119,293.94</b>
<b>9</b>	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	3,090	3,090	LF	\$2.50	\$7,725.00
	B. Traffic Control & Maintenance	3,090	3,090	LS	\$2.00	\$6,180.00
	<b>Subtotal</b>					<b>\$13,905.00</b>



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 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**VALLEY ROUTE - WEST 14TH STREET TO CALGARY PARK TRAIL  
 APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	<b>TOTAL</b>					<b>\$878,124.56</b>
	Contingency (20%)					\$175,624.91
	General Conditions (5%)					\$52,687.47
	Bonds & Insurances (3%)					\$31,612.48
	Mobilization/Demobilization (1.5%)					\$15,806.24
	<b>GRAND TOTAL</b>					<b>\$1,153,855.67</b>





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**CALGARY PARK TRAIL CONNECTION**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	Calgary	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	1.49	1.49	AC	\$4,500.00	\$6,705.00
	B. Construction Fencing	1,300	1,300	LF	\$2.00	\$2,600.00
	<b>Subtotal</b>					<b>\$9,305.00</b>
2	<b>Earthwork</b>					
	A. Excavation	5,028	5,028	CY	\$10.00	\$50,280.00
	B. Strip Topsoil & Stockpile	1,204	1,204	CY	\$20.00	\$24,080.00
	C. Replace Topsoil	867	867	CY	\$38.00	\$32,946.00
	<b>Subtotal</b>					<b>\$107,306.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	1,300	1,300	LF	\$3.00	\$3,900.00
	B. Swale Matting Protection	1,733	1,733	SY	\$10.00	\$17,330.00
	C. Slope Matting Protection	1,445	1,445	SY	\$6.00	\$8,670.00
	D. Erosion Control Measures	1,300	1,300	EA	\$1.00	\$1,300.00
	<b>Subtotal</b>					<b>\$31,200.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	1,445	1,445	SY	\$2.00	\$2,890.00
	B. Asphalt Trail (10' wide)	1,445	1,445	SY	\$33.00	\$47,685.00
	C. Geogrid Fabric	1,445	1,445	SY	\$5.00	\$7,225.00
	<b>Subtotal</b>					<b>\$57,800.00</b>
5	<b>Storm Sewers</b>					
	A. 12" Culvert Pipe	6	6	EA	\$25.00	\$150.00
	B. Concrete 1/2 Head Wall 12" Pipe	12	12	LS	\$500.00	\$6,000.00
	C. Natural Stone Headwall	12	12	EA	\$1,500.00	\$18,000.00
	D. Rock Channel Protection	45	45	EA	\$100.00	\$4,500.00
	<b>Subtotal</b>					<b>\$28,650.00</b>



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**CALGARY PARK TRAIL CONNECTION**  
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ITEM	DESCRIPTION	Calgary	TOTAL	UNIT	UNIT COST	TOTAL COST
6	<b>Amenities/Furnishings</b>					
	A. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	B. Bollards	2	2	EA	\$300.00	\$600.00
	C. Removable Bollards	1	1	EA	\$450.00	\$450.00
	D. Trail Signage	1,300	1,300	LF	\$1.00	\$1,300.00
	E. Timber Rail	1,950	1,950	LF	\$45.00	\$87,750.00
	<b>Subtotal</b>					<b>\$95,100.00</b>
7	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	578	578	SY	\$2.00	\$1,156.00
	B. Top Soil Along Berms	289	289	CY	\$38.00	\$10,982.00
	C. Seeding Disturbed Areas	5,200	5,200	SY	\$1.50	\$7,800.00
	<b>Subtotal</b>					<b>\$19,938.00</b>
8	<b>Environmental</b>					
	A. Environmental Clean up	0	0	LS	BY OTHERS	
	B. Stream Restoration/Enhancements	0	0	LS	BY OTHERS	
	C. Forest Restoration/Enhancement	0.60	0.60	acres	\$25,000.00	\$15,000.00
	D. Riparian Restoration/Enhancement	0	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0	0.00	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$15,000.00</b>
9	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	1,300	1,300	LF	\$2.50	\$3,250.00
	B. Traffic Control & Maintenance	1,300	1,300	LS	\$2.00	\$2,600.00
	<b>Subtotal</b>					<b>\$5,850.00</b>
	<b>TOTAL</b>					<b>\$370,149.00</b>
	Contingency (20%)					\$74,029.80
	General Conditions (5%)					\$22,208.94



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**CALGARY PARK TRAIL CONNECTION  
 APRIL 22, 2008**

ITEM	DESCRIPTION	Calgary	TOTAL	UNIT	UNIT COST	TOTAL COST
	Bonds & Insurances (3%)					\$13,325.36
	Mobilization/Demobilization (1.5%)					\$6,662.68
	<b>GRAND TOTAL</b>					<b>\$486,375.79</b>



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**VALLEY ROUTE - CALGARY PARK TO CLEVELAND METROPARKS ZOO TRAIL**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	3.83	4	AC	\$4,500.00	\$17,235.00
	B. Construction Fencing	3,340	3,340	LF	\$2.00	\$6,680.00
	C. Miscellaneous Demolition	5,610	5,610	LS	\$1.00	\$5,610.00
	D. Fence Demolition	1,531	1,531	LF	\$3.57	\$5,465.67
	<b>Subtotal</b>					<b>\$34,990.67</b>
2	<b>Earthwork</b>					
	A. Excavation	1,292	1,292	CY	\$10.00	\$12,920.00
	B. Strip Topsoil & Stockpile	3,093	3,093	CY	\$20.00	\$61,860.00
	C. Replace Topsoil	742	742	CY	\$38.00	\$28,196.00
	D. Borrow Material for Bridge Fill	5,456	5,456	CY	\$10.00	\$54,560.00
	E. Resoil Brownfields (8.12 Acres)	6,803	6,803	CY	\$45.00	\$306,135.00
	<b>Subtotal</b>					<b>\$463,671.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	3,340	3,340	LF	\$3.00	\$10,020.00
	B. Swale Matting Protection	2,227	2,227	SY	\$10.00	\$22,270.00
	C. Slope Matting Protection	3,711	3,711	SY	\$6.00	\$22,266.00
	D. Erosion Control Measures	3,340	3,340	EA	\$1.00	\$3,340.00
	<b>Subtotal</b>					<b>\$57,896.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	3,711	3,711	SY	\$2.00	\$7,422.00
	B. Asphalt Trail	3,711	3,711	SY	\$33.00	\$122,463.00
	C. Geogrid Fabric	3,711	3,711	SY	\$5.00	\$18,555.00
	D. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	<b>Subtotal</b>					<b>\$152,696.00</b>
5	<b>Storm Sewers</b>					



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**VALLEY ROUTE - CALGARY PARK TO CLEVELAND METROPARKS ZOO TRAIL**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
	A. 12" Culvert Pipe	8	8	EA	\$25.00	\$200.00
	B. Concrete 1/2 Head Wall 12" Pipe	16	16	LS	\$500.00	\$8,000.00
	C. Natural Stone Headwall	16	16	EA	\$1,500.00	\$24,000.00
	D. Rock Channel Protection	60	60	EA	\$100.00	\$6,000.00
	<b>Subtotal</b>					<b>\$38,200.00</b>
<b>6</b>	<b>Amenities/Furnishings</b>					
	A. Pedestrian Bridge	285	285	LF	\$1,600.00	\$456,000.00
	B. Bridge Abutments Large	2	2	EA	\$25,000.00	\$50,000.00
	C. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	D. Fencing Along Riparian Corridor	1,531	1,531	LF	\$27.00	\$41,337.00
	E. Trail Signage	3,340	3,340	LF	\$1.00	\$3,340.00
	F. Timber Rail	165	165	LF	\$45.00	\$7,425.00
	G. Fencing/Railing at Underpass	239	239	LF	\$45.00	\$10,755.00
	<b>Subtotal</b>					<b>\$573,857.00</b>
<b>7</b>	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	1,485	1,485	SY	\$2.00	\$2,970.00
	B. Top Soil Along Berms	742	742	CY	\$38.00	\$28,196.00
	C. Seeding Disturbed Areas	14,845	14,845	SY	\$1.50	\$22,267.50
	<b>Subtotal</b>					<b>\$53,433.50</b>
<b>8</b>	<b>Environmental</b>					
	A. Environmental Clean up	0	0	BY OTHERS		
	B. Stream Restoration/Enhancements	0	0	BY OTHERS		
	C. Forest Restoration/Enhancement	3.72	3.72	acres	\$25,000.00	\$93,000.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement	0.00	0.00	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$93,000.00</b>



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**VALLEY ROUTE - CALGARY PARK TO CLEVELAND METROPARKS ZOO TRAIL  
 APRIL 22, 2008**

ITEM	DESCRIPTION	VALLEY	TOTAL	UNIT	UNIT COST	TOTAL COST
9	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	3,340	3,340	LF	\$2.50	\$8,350.00
	B. Traffic Control & Maintenance	3,340	3,340	LS	\$2.00	\$6,680.00
	<b>Subtotal</b>					<b>\$15,030.00</b>
	<b>TOTAL</b>					<b>\$1,482,774.17</b>
	Contingency (20%)					\$296,554.83
	General Conditions (5%)					\$88,966.45
	Bonds & Insurances (3%)					\$53,379.87
	Mobilization/Demobilization (1.5%)					\$26,689.94
	<b>GRAND TOTAL</b>					<b>\$1,948,365.26</b>



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**BROOKSIDE RESERVATION & ZOO CONNECTOR TRAIL  
 APRIL 22, 2008**

ITEM	DESCRIPTION	ZOO	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	0.50	1	AC	\$4,500.00	\$2,250.00
	B. Construction Fencing	2,430	2,430	LF	\$2.00	\$4,860.00
	C. Miscellaneous Demolition	14,760	14,760	LS	\$1.00	\$14,760.00
	<b>Subtotal</b>					<b>\$21,870.00</b>
2	<b>Earthwork</b>					
	A. Excavation	321	321	CY	\$10.00	\$3,210.00
	B. Strip Topsoil & Stockpile	300	300	CY	\$20.00	\$6,000.00
	C. Replace Topsoil	156	156	CY	\$38.00	\$5,928.00
	<b>Subtotal</b>					<b>\$15,138.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	2,340	2,340	LF	\$3.00	\$7,020.00
	B. Swale Matting Protection	467	467	SY	\$10.00	\$4,670.00
	C. Slope Matting Protection	393	393	SY	\$6.00	\$2,358.00
	D. Erosion Control Measures	2,340	2,340	EA	\$1.00	\$2,340.00
	<b>Subtotal</b>					<b>\$16,388.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	2,417	2,417	SY	\$2.00	\$4,834.00
	B. Asphalt Trail	390	390	SY	\$33.00	\$12,870.00
	C. Geogrid Fabric	390	390	SY	\$5.00	\$1,950.00
	D. Widen Concrete Walk	1,476	1,476	LF	\$36.00	\$53,136.00
	E. Crosswalk Marking	60	60	LF	\$2.50	\$150.00
	F. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	G. Sidewalk (10' wide)	164	164	LF	\$50.00	\$8,200.00
	<b>Subtotal</b>					<b>\$85,396.00</b>
5	<b>Storm Sewers</b>					



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**BROOKSIDE RESERVATION & ZOO CONNECTOR TRAIL**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	ZOO	TOTAL	UNIT	UNIT COST	TOTAL COST
	A. 12" Culvert Pipe	3	3	EA	\$25.00	\$75.00
	B. Concrete 1/2 Head Wall 12" Pipe	6	6	LS	\$500.00	\$3,000.00
	C. Natural Stone Headwall	6	6	EA	\$1,500.00	\$9,000.00
	D. Rock Channel Protection	22	22	EA	\$100.00	\$2,200.00
	<b>Subtotal</b>					<b>\$14,275.00</b>
<b>6</b>	<b>Amenities/Furnishings</b>					
	A. Kiosks	2	2	EA	\$5,000.00	\$10,000.00
	B. Trail Signage	2,340	2,340	LF	\$1.00	\$2,340.00
	C. Timber Rail	130	130	LF	\$45.00	\$5,850.00
	<b>Subtotal</b>					<b>\$18,190.00</b>
<b>7</b>	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	1,213	1,213	SY	\$2.00	\$2,426.00
	B. Seeding Disturbed Areas	9,129	9,129	SY	\$1.50	\$13,693.50
	<b>Subtotal</b>					<b>\$16,119.50</b>
<b>8</b>	<b>Environmental</b>					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Riparian Restoration/Enhancement	0	0	acres	\$25,000.00	\$0.00
	D. Wetland Enhancement	1	1	acres	\$35,046.25	\$44,508.74
	<b>Subtotal</b>					<b>\$44,508.74</b>
<b>9</b>	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	2,340	2,340	LF	\$2.50	\$5,850.00
	B. Traffic Control & Maintenance	2,340	2,340	LS	\$2.00	\$4,680.00
	<b>Subtotal</b>					<b>\$10,530.00</b>
	<b>TOTAL</b>					<b>\$242,415.24</b>
	Contingency (20%)					\$48,483.05





**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**BROOKSIDE RESERVATION & ZOO CONNECTOR TRAIL  
 APRIL 22, 2008**

ITEM	DESCRIPTION	ZOO	TOTAL	UNIT	UNIT COST	TOTAL COST
	General Conditions (5%)					\$14,544.91
	Bonds & Insurances (3%)					\$8,726.95
	Mobilization/Demobilization (1.5%)					\$4,363.47
	<b>GRAND TOTAL</b>					<b>\$318,533.62</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIDGE ROAD UNDERPASS TRAIL**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	Ridge Road	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	0.62	1	AC	\$4,500.00	\$2,790.00
	B. Construction Fencing	700	700	LF	\$2.00	\$1,400.00
	C. Fence Demolition	780	780	LF	\$3.57	\$2,784.60
	<b>Subtotal</b>					<b>\$6,974.60</b>
2	<b>Earthwork</b>					
	A. Excavation	313	313	CY	\$10.00	\$3,130.00
	B. Strip Topsoil & Stockpile	500	500	CY	\$20.00	\$10,000.00
	C. Replace Topsoil	360	360	CY	\$38.00	\$13,680.00
	<b>Subtotal</b>					<b>\$26,810.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	700	700	LF	\$3.00	\$2,100.00
	B. Swale Matting Protection	313	313	SY	\$10.00	\$3,130.00
	C. Slope Matting Protection	389	389	SY	\$6.00	\$2,334.00
	D. Erosion Control Measures	700	700	EA	\$1.00	\$700.00
	<b>Subtotal</b>					<b>\$8,264.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	600	600	SY	\$2.00	\$1,200.00
	B. Asphalt Trail	600	600	SY	\$33.00	\$19,800.00
	C. Geogrid Fabric	600	600	SY	\$5.00	\$3,000.00
	D. Widen Concrete Walk	100	100	LF	\$36.00	\$3,600.00
	E. Crosswalk Marking	60	60	LF	\$2.50	\$150.00
	F. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	<b>Subtotal</b>					<b>\$32,006.00</b>
5	<b>Storm Sewers</b>					
	A. 12" Culvert Pipe	4	4	EA	\$25.00	\$100.00



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIDGE ROAD UNDERPASS TRAIL  
 APRIL 22, 2008**

ITEM	DESCRIPTION	Ridge Road	TOTAL	UNIT	UNIT COST	TOTAL COST
	B. Concrete 1/2 Head Wall 12" Pipe	8	8	LS	\$500.00	\$4,000.00
	C. Natural Stone Headwall	8	8	EA	\$1,500.00	\$12,000.00
	D. Rock Channel Protection	30	30	EA	\$100.00	\$3,000.00
	<b>Subtotal</b>					<b>\$19,100.00</b>
<b>6</b>	<b>Amenities/Furnishings</b>					
	A. Trail Signage	700	700	LF	\$1.00	\$700.00
	<b>Subtotal</b>					<b>\$700.00</b>
<b>7</b>	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	240	240	SY	\$2.00	\$480.00
	B. Top Soil Along Berms	120	120	CY	\$38.00	\$4,560.00
	C. Seeding Disturbed Areas	2,400	2,400	SY	\$1.50	\$3,600.00
	<b>Subtotal</b>					<b>\$8,640.00</b>
<b>8</b>	<b>Environmental</b>					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Riparian Restoration/Enhancement	0	0	acres	\$25,000.00	\$0.00
	D. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$0.00</b>
<b>9</b>	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	700	700	LF	\$2.50	\$1,750.00
	B. Traffic Control & Maintenance	700	700	LS	\$2.00	\$1,400.00
	<b>Subtotal</b>					<b>\$3,150.00</b>
	<b>TOTAL</b>					<b>\$105,644.60</b>
	Contingency (20%)					\$21,128.92
	General Conditions (5%)					\$6,338.68
	Bonds & Insurances (3%)					\$3,803.21



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIDGE ROAD UNDERPASS TRAIL  
 APRIL 22, 2008**

ITEM	DESCRIPTION	Ridge Road	TOTAL	UNIT	UNIT COST	TOTAL COST
	Mobilization/Demobilization (1.5%)					\$1,901.60
	<b>GRAND TOTAL</b>					<b>\$138,817.00</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**UPLAND ROUTE (SHEET 1)**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	UPLAND	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	3.09	3	AC	\$4,500.00	\$13,905.00
	B. Construction Fencing	6,586	6,586	LF	\$2.00	\$13,172.00
	<b>Subtotal</b>					<b>\$27,077.00</b>
2	<b>Earthwork</b>					
	A. Excavation	1,041	1,041	CY	\$10.00	\$10,410.00
	B. Strip Topsoil & Stockpile	2,493	2,493	CY	\$20.00	\$49,860.00
	C. Replace Topsoil	1,895	1,895	CY	\$38.00	\$72,010.00
	D. Resoil Brownfields	7,700	7,700	CY	\$45.00	\$346,500.00
	<b>Subtotal</b>					<b>\$478,780.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	6,586	6,586	LF	\$3.00	\$19,758.00
	B. Swale Matting Protection	4,391	4,391	SY	\$10.00	\$43,910.00
	C. Slope Matting Protection	3,659	3,659	SY	\$6.00	\$21,954.00
	D. Erosion Control Measures	6,586	6,586	EA	\$1.00	\$6,586.00
	<b>Subtotal</b>					<b>\$92,208.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	2,991	2,991	SY	\$2.00	\$5,982.00
	B. Asphalt Trail	2,991	2,991	SY	\$33.00	\$98,703.00
	C. Geogrid Fabric	2,991	2,991	SY	\$5.00	\$14,955.00
	D. Widen Concrete Walk	530	530	LF	\$36.00	\$19,080.00
	E. Crosswalk Marking	60	60	LF	\$2.50	\$150.00
	F. Curb Ramps	2	2	EA	\$2,128.00	\$4,256.00
	G. Sidewalk (10' wide)	10	10	LF	\$50.00	\$500.00
	<b>Subtotal</b>					<b>\$143,626.00</b>
5	<b>Storm Sewers</b>					



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**UPLAND ROUTE (SHEET 1)**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	UPLAND	TOTAL	UNIT	UNIT COST	TOTAL COST
	A. 12" Culvert Pipe	6	6	EA	\$25.00	\$150.00
	B. Concrete 1/2 Head Wall 12" Pipe	12	12	LS	\$500.00	\$6,000.00
	C. Natural Stone Headwall	12	12	EA	\$1,500.00	\$18,000.00
	D. Rock Channel Protection	45	45	EA	\$100.00	\$4,500.00
	<b>Subtotal</b>					<b>\$28,650.00</b>
<b>6</b>	<b>Amenities/Furnishings</b>					
	A. Pedestrian Bridge	135	135	LF	\$1,600.00	\$216,000.00
	B. Bridge Abutments Large	2	2	EA	\$25,000.00	\$50,000.00
	C. Trail Signage	6,586	6,586	LF	\$1.00	\$6,586.00
	<b>Subtotal</b>					<b>\$272,586.00</b>
<b>7</b>	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	1,196	1,196	SY	\$2.00	\$2,392.00
	B. Top Soil Along Berms	598	598	CY	\$38.00	\$22,724.00
	C. Seeding Disturbed Areas	10,768	10,768	SY	\$1.50	\$16,152.00
	<b>Subtotal</b>					<b>\$41,268.00</b>
<b>8</b>	<b>Environmental</b>					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Forest Restoration/Enhancement	3.40	3.40	acres	\$25,000.00	\$85,000.00
	D. Riparian Restoration/Enhancement	3.40	3.40	acres	\$25,000.00	\$85,000.00
	E. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$170,000.00</b>
<b>9</b>	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	6,586	6,586	LF	\$2.50	\$16,465.00
	B. Traffic Control & Maintenance	6,586	6,586	LS	\$2.00	\$13,172.00
	<b>Subtotal</b>					<b>\$29,637.00</b>

**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**



**UPLAND ROUTE (SHEET 1)**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	UPLAND	TOTAL	UNIT	UNIT COST	TOTAL COST
	<b>TOTAL</b>					<b>\$1,283,832.00</b>
	Contingency (20%)					\$256,766.40
	General Conditions (5%)					\$77,029.92
	Bonds & Insurances (3%)					\$46,217.95
	Mobilization/Demobilization (1.5%)					\$23,108.98
	<b>GRAND TOTAL</b>					<b>\$1,686,955.25</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**OVERLOOK**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	OVERLOOK	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	0.10	0	AC	\$4,500.00	\$450.00
	B. Construction Fencing	130	130	LF	\$2.00	\$260.00
	<b>Subtotal</b>					<b>\$710.00</b>
2	<b>Earthwork</b>					
	A. Excavation	101	101	CY	\$10.00	\$1,010.00
	B. Strip Topsoil & Stockpile	72	72	CY	\$20.00	\$1,440.00
	C. Replace Topsoil	29	29	CY	\$38.00	\$1,102.00
	<b>Subtotal</b>					<b>\$3,552.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	130	130	LF	\$3.00	\$390.00
	B. Swale Matting Protection	87	87	SY	\$10.00	\$870.00
	C. Slope Matting Protection	75	75	SY	\$6.00	\$450.00
	D. Erosion Control Measures	130	130	EA	\$1.00	\$130.00
	<b>Subtotal</b>					<b>\$1,840.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	144	144	SY	\$2.00	\$288.00
	B. Asphalt Trail	144	144	SY	\$33.00	\$4,752.00
	C. Geogrid Fabric	144	144	SY	\$5.00	\$720.00
	<b>Subtotal</b>					<b>\$5,760.00</b>
5	<b>Storm Sewers</b>					
	A. 12" Culvert Pipe	1	1	EA	\$25.00	\$25.00
	B. Concrete 1/2 Head Wall 12" Pipe	2	2	LS	\$500.00	\$1,000.00
	C. Natural Stone Headwall	2	2	EA	\$1,500.00	\$3,000.00
	D. Rock Channel Protection	7	7	EA	\$100.00	\$700.00
	<b>Subtotal</b>					<b>\$4,725.00</b>





**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**OVERLOOK  
 APRIL 22, 2008**

ITEM	DESCRIPTION	OVERLOOK	TOTAL	UNIT	UNIT COST	TOTAL COST
6	<b>Amenities/Furnishings</b>					
	A. Kiosks	1	1	EA	\$5,000.00	\$5,000.00
	B. Trail Signage	130	130	LF	\$1.00	\$130.00
	C. Timber Rail	130	130	EA	\$45.00	\$5,850.00
	D. Overlook Structure	1	1	SF	\$5,000.00	\$5,000.00
	E. Bench	2	2	EA	\$1,500.00	\$3,000.00
	<b>Subtotal</b>					<b>\$18,980.00</b>
7	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	231	231	SY	\$2.00	\$462.00
	B. Top Soil Along Berms	29	29	CY	\$38.00	\$1,102.00
	C. Seeding Disturbed Areas	289	289	SY	\$1.50	\$433.50
	<b>Subtotal</b>					<b>\$1,997.50</b>
8	<b>Environmental</b>					
	A. Environmental Clean up	0	0		BY OTHERS	
	B. Stream Restoration/Enhancements	0	0		BY OTHERS	
	C. Forest Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	D. Riparian Restoration/Enhancement	0.00	0.00	acres	\$25,000.00	\$0.00
	E. Wetland Enhancement		0	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$0.00</b>
9	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	130	130	LF	\$2.50	\$325.00
	B. Traffic Control & Maintenance	130	130	LS	\$2.00	\$260.00
	<b>Subtotal</b>					<b>\$585.00</b>
	<b>TOTAL</b>					<b>\$38,149.50</b>
	Contingency (20%)					\$7,629.90
	General Conditions (5%)					\$2,288.97



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

OVERLOOK						
APRIL 22, 2008						
ITEM	DESCRIPTION	OVERLOOK	TOTAL	UNIT	UNIT COST	TOTAL COST
	Bonds & Insurances (3%)					\$1,373.38
	Mobilization/Demobilization (1.5%)					\$686.69
	<b>GRAND TOTAL</b>					<b>\$50,128.44</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**TREADWAY CREEK CONNECTOR TRAIL (NEORSD ACCESS)**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TREADWAY	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>					
	A. Clearing and Grubbing	0.20	0.20	AC	\$4,500.00	\$900.00
	B. Construction Fencing	150	150	LF	\$2.00	\$300.00
	<b>Subtotal</b>					<b>\$1,200.00</b>
2	<b>Earthwork</b>					
	A. Excavation	232	232	CY	\$10.00	\$2,320.00
	B. Strip Topsoil & Stockpile	166	166	CY	\$20.00	\$3,320.00
	C. Replace Topsoil	66	66	CY	\$38.00	\$2,508.00
	<b>Subtotal</b>					<b>\$8,148.00</b>
3	<b>Erosion Control</b>					
	A. Silt Fence	150	150	LF	\$3.00	\$450.00
	B. Swale Matting Protection	100	100	SY	\$10.00	\$1,000.00
	C. Slope Matting Protection	85	85	SY	\$6.00	\$510.00
	D. Erosion Control Measures	150	150	EA	\$1.00	\$150.00
	<b>Subtotal</b>					<b>\$2,110.00</b>
4	<b>Pavement</b>					
	A. Subgrade Preparation	250	250	SY	\$2.00	\$500.00
	B. Asphalt Trail	250	250	SY	\$33.00	\$8,250.00
	C. Geogrid Fabric	250	250	SY	\$5.00	\$1,250.00
	D. Sidewalk (10' wide)	20	20	LF	\$50.00	\$1,000.00
	<b>Subtotal</b>					<b>\$11,000.00</b>
5	<b>Storm Sewers</b>					
	A. 12" Culvert Pipe	1	1	EA	\$25.00	\$25.00
	B. Concrete 1/2 Head Wall 12" Pipe	2	2	LS	\$500.00	\$1,000.00



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**TREADWAY CREEK CONNECTOR TRAIL (NEORS D ACCESS)**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TREADWAY	TOTAL	UNIT	UNIT COST	TOTAL COST
	C. Natural Stone Headwall	2	2	EA	\$1,500.00	\$3,000.00
	D. Rock Channel Protection	7	7	EA	\$100.00	\$700.00
	<b>Subtotal</b>					<b>\$4,725.00</b>
<b>6</b>	<b>Amenities/Furnishings</b>					
	A. Bollards	2	2	EA	\$300.00	\$600.00
	B. Removable Bollards	1	1	EA	\$450.00	\$450.00
	C. Trail Signage	150	150	LF	\$1.00	\$150.00
	D. Timber Gate	1	1	EA	\$4,500.00	\$4,500.00
	<b>Subtotal</b>					<b>\$5,700.00</b>
<b>7</b>	<b>Landscape</b>					
	A. Trailside Seeding and Fine Grading	400	400	SY	\$2.00	\$800.00
	B. Seeding Disturbed Areas	666	666	SY	\$1.50	\$999.00
	<b>Subtotal</b>					<b>\$1,799.00</b>
<b>8</b>	<b>Environmental</b>					
	A. Environmental Clean up	0	0	LS	BY OTHERS	
	B. Stream Restoration/Enhancements	0	0	LS	BY OTHERS	
	C. Riparian Restoration/Enhancement	0	0	acres	\$25,000.00	\$0.00
	D. Wetland Enhancement	0	0	acres	\$35,046.25	\$0.00
	<b>Subtotal</b>					<b>\$0.00</b>
<b>9</b>	<b>Construction Survey &amp; Layout</b>					
	A. Survey & Layout	150	150	LF	\$2.50	\$375.00
	B. Traffic Control & Maintenance	150	150	LS	\$2.00	\$300.00
	<b>Subtotal</b>					<b>\$675.00</b>
	<b>TOTAL</b>					<b>\$35,357.00</b>



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**TREADWAY CREEK CONNECTOR TRAIL (NEORS D ACCESS)  
 APRIL 22, 2008**

ITEM	DESCRIPTION	TREADWAY	TOTAL	UNIT	UNIT COST	TOTAL COST
	Contingency (20%)					\$7,071.40
	General Conditions (5%)					\$2,121.42
	Bonds & Insurances (3%)					\$1,272.85
	Mobilization/Demobilization (1.5%)					\$636.43
	<b>GRAND TOTAL</b>					<b>\$46,459.10</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIPARIAN CORRIDOR ENHANCEMENTS CUYAHOGA RIVER TO JENNINGS ROAD**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	4.13	AC	\$1,500.00	\$6,195.00
	B. Miscellaneous Demolition	1	LS	\$500.00	\$500.00
	C. Fence Fabric Demolition	6,156	LF	\$2.85	\$17,544.60
	D. Fence Post & Footer Removal	616	EA	\$17.85	\$10,995.60
	<b>Subtotal</b>				<b>\$35,235.20</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	6,156	SY	\$1.00	\$6,156.00
	B. Silt Fence	6,156	LF	\$3.00	\$18,468.00
	<b>Subtotal</b>				<b>\$24,624.00</b>
3	<b>Amenities/Furnishings</b>				
	A. Gates/Access Control	6	EA	\$500.00	\$3,000.00
	B. Fencing	6,156	LF	\$27.00	\$166,212.00
	<b>Subtotal</b>				<b>\$169,212.00</b>
4	<b>Environmental</b>				
	A. Riparian Restoration/Enhancement	4.13	ACRES	\$25,000.00	\$103,250.00
	B. Seeding Disturbed Areas	19,844	SY	\$1.50	\$29,766.00
	<b>Subtotal</b>				<b>\$133,016.00</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	6156	LF	\$1.00	\$6,156.00
	<b>Subtotal</b>				<b>\$6,156.00</b>
	<b>TOTAL</b>				<b>\$368,243.20</b>
	Contingency (20%)				\$73,648.64
	General Conditions (5%)				\$22,094.59
	Bonds & Insurances (3%)				\$13,256.76
	Mobilization/Demobilization (1.5%)				\$6,628.38
	<b>GRAND TOTAL</b>				<b>\$483,871.56</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIPARIAN CORRIDOR ENHANCEMENTS JENNINGS ROAD TO PEARL ROAD**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	20.71	AC	\$1,500.00	\$31,065.00
	B. Miscellaneous Demolition	1	LS	\$2,500.00	\$2,500.00
	C. Fence Fabric Demolition	5259	LF	\$2.85	\$14,988.15
	D. Fence Post & Footer Removal	526	EA	\$17.85	\$9,389.10
	<b>Subtotal</b>				<b>\$57,942.25</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	100236	SY	\$1.00	\$100,236.00
	B. Silt Fence	5259	LF	\$3.00	\$15,777.00
	<b>Subtotal</b>				<b>\$116,013.00</b>
3	<b>Amenities/Furnishings</b>				
	A. Gates/Access Control	4	EA	\$500.00	\$2,000.00
	B. Fencing	5259	LF	\$27.00	\$141,993.00
	<b>Subtotal</b>				<b>\$143,993.00</b>
4	<b>Environmental</b>				
	A. Riparian Restoration/Enhancement	20.71	ACRES	\$25,000.00	\$517,750.00
	B. Seeding Disturbed Areas	100,236	SY	\$1.50	\$150,354.00
	<b>Subtotal</b>				<b>\$668,104.00</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	5259	LF	\$1.00	\$5,259.00
	<b>Subtotal</b>				<b>\$5,259.00</b>
	<b>TOTAL</b>				<b>\$991,311.25</b>
	Contingency (20%)				\$198,262.25
	General Conditions (5%)				\$59,478.68
	Bonds & Insurances (3%)				\$35,687.21
	Mobilization/Demobilization (1.5%)				\$17,843.60
	<b>GRAND TOTAL</b>				<b>\$1,302,582.98</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIPARIAN CORRIDOR ENHANCEMENTS PEARL ROAD TO FULTON PARKWAY**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	14.26	AC	\$1,500.00	\$21,390.00
	B. Miscellaneous Demolition	1	LS	\$3,000.00	\$3,000.00
	C. Fence Fabric Demolition	5636	LF	\$2.85	\$16,062.60
	D. Fence Post & Footer Removal	564	EA	\$17.85	\$10,067.40
	<b>Subtotal</b>				<b>\$50,520.00</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	5636	SY	\$1.00	\$5,636.00
	B. Silt Fence	5636	LF	\$3.00	\$16,908.00
	<b>Subtotal</b>				<b>\$22,544.00</b>
3	<b>Amenities/Furnishings</b>				
	A. Gates/Access Control	6	EA	\$500.00	\$3,000.00
	B. Fencing	5636	LF	\$27.00	\$152,172.00
	<b>Subtotal</b>				<b>\$155,172.00</b>
4	<b>Environmental</b>				
	A. Riparian Restoration/Enhancement	14.26	ACRES	\$25,000.00	\$356,500.00
	B. Seeding Disturbed Areas	80,440	SY	\$1.50	\$120,660.00
	<b>Subtotal</b>				<b>\$477,160.00</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	5636	LF	\$1.00	\$5,636.00
	<b>Subtotal</b>				<b>\$5,636.00</b>
	<b>TOTAL</b>				<b>\$711,032.00</b>
	Contingency (20%)				\$142,206.40
	General Conditions (5%)				\$42,661.92
	Bonds & Insurances (3%)				\$25,597.15
	Mobilization/Demobilization (1.5%)				\$12,798.58
	<b>GRAND TOTAL</b>				<b>\$934,296.05</b>





**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**RIPARIAN CORRIDOR ENHANCEMENTS FULTON PARKWAY TO RIDGE ROAD**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	24.58	AC	\$1,500.00	\$36,870.00
	B. Miscellaneous Demolition	1	LS	\$500.00	\$500.00
	C. Fence Fabric Demolition	10778	LF	\$2.85	\$30,717.30
	D. Fence Post & Footer Removal	1,078	EA	\$17.85	\$19,242.30
	<b>Subtotal</b>				<b>\$87,329.60</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	10778	SY	\$1.00	\$10,778.00
	B. Silt Fence	5389	LF	\$3.00	\$16,167.00
	<b>Subtotal</b>				<b>\$26,945.00</b>
3	<b>Amenities/Furnishings</b>				
	A. Gates/Access Control	10	EA	\$500.00	\$5,000.00
	B. Fencing	10778	LF	\$27.00	\$291,006.00
	<b>Subtotal</b>				<b>\$296,006.00</b>
4	<b>Environmental</b>				
	A. Riparian Restoration & Enhancement	8.11	ACRES	\$5,000.00	\$40,550.00
	B. Riparian Enhancement	16.47	ACRES	\$5,000.00	\$82,350.00
	C. Seeding Disturbed Areas	5,000	SY	\$1.50	\$7,500.00
	<b>Subtotal</b>				<b>\$130,400.00</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	10778	LF	\$1.00	\$10,778.00
	<b>Subtotal</b>				<b>\$10,778.00</b>
	<b>TOTAL</b>				<b>\$551,458.60</b>
	Contingency (20%)				\$110,291.72
	General Conditions (5%)				\$33,087.52
	Bonds & Insurances (3%)				\$19,852.51
	Mobilization/Demobilization (1.5%)				\$9,926.25
	<b>GRAND TOTAL</b>				<b>\$724,616.60</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**WETLAND CREATION & ENHANCEMENT PEARL ROAD TO FULTON PARKWAY**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	0.95	AC	\$4,500.00	\$4,275.00
	B. Miscellaneous Demolition	1	LS	\$1,000.00	\$1,000.00
	<b>Subtotal</b>				<b>\$5,275.00</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	4598	SY	\$1.00	\$4,598.00
	B. Silt Fence	500	LF	\$3.00	\$1,500.00
	<b>Subtotal</b>				<b>\$6,098.00</b>
4	<b>Environmental</b>				
	A. Wetland Restoration/Enhancement	0.95	ACRES	\$35,046.25	\$33,293.94
	B. Seeding Disturbed Areas	4,598	SY	\$1.50	\$6,897.00
	<b>Subtotal</b>				<b>\$40,190.94</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	<b>Subtotal</b>				<b>\$5,000.00</b>
	<b>TOTAL</b>				<b>\$56,563.94</b>
	Contingency (20%)				\$11,312.79
	General Conditions (5%)				\$3,393.84
	Bonds & Insurances (3%)				\$2,036.30
	Mobilization/Demobilization (1.5%)				\$1,018.15
	<b>GRAND TOTAL</b>				<b>\$74,325.01</b>



**LOWER BIG CREEK GREENWAY  
 OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND  
 AND CLEVELAND METROPARKS  
 TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**WETLAND CREATION & ENHANCEMENT PEARL ROAD TO FULTON PARKWAY  
 APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	4.56	AC	\$4,500.00	\$20,520.00
	B. Miscellaneous Demolition	1	LS	\$5,000.00	\$5,000.00
	<b>Subtotal</b>				<b>\$25,520.00</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	22087	SY	\$1.00	\$22,087.00
	B. Silt Fence	2500	LF	\$3.00	\$7,500.00
	<b>Subtotal</b>				<b>\$29,587.00</b>
4	<b>Environmental</b>				
	A. Wetland Restoration/Enhancement	4.56	ACRES	\$35,046.25	\$159,810.90
	B. Seeding Disturbed Areas	22,807	SY	\$1.50	\$34,210.50
	<b>Subtotal</b>				<b>\$194,021.40</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$20,000.00	\$20,000.00
	<b>Subtotal</b>				<b>\$20,000.00</b>
	<b>TOTAL</b>				<b>\$269,128.40</b>
	Contingency (20%)				\$53,825.68
	General Conditions (5%)				\$16,147.70
	Bonds & Insurances (3%)				\$9,688.62
	Mobilization/Demobilization (1.5%)				\$4,844.31
	<b>GRAND TOTAL</b>				<b>\$353,634.72</b>



**LOWER BIG CREEK GREENWAY**  
**OLD BROOKLYN CDC, OHIO CANAL CORRIDOR, CITY OF CLEVELAND**  
**AND CLEVELAND METROPARKS**  
**TRAIL AND GREENWAY CONCEPT PLAN OPINION OF PROBABLE COSTS**

**WETLAND CREATION & ENHANCEMENT FULTON PARKWAY TO RIDGE ROAD**  
**APRIL 22, 2008**

ITEM	DESCRIPTION	TOTAL	UNIT	UNIT COST	TOTAL COST
1	<b>Site Preparation/Demolition</b>				
	A. Clearing and Grubbing	1.27	AC	\$4,500.00	\$5,715.00
	B. Miscellaneous Demolition	1	LS	\$1,000.00	\$1,000.00
	<b>Subtotal</b>				<b>\$6,715.00</b>
2	<b>Earthwork/Erosion Control</b>				
	A. Excavation/Subgrade Prep	6147	SY	\$1.00	\$6,147.00
	B. Silt Fence	500	LF	\$3.00	\$1,500.00
	<b>Subtotal</b>				<b>\$7,647.00</b>
4	<b>Environmental</b>				
	A. Wetland Restoration/Enhancement	1.27	ACRES	\$35,046.25	\$44,508.74
	B. Seeding Disturbed Areas	6,147	SY	\$1.50	\$9,220.50
	<b>Subtotal</b>				<b>\$53,729.24</b>
5	<b>Construction Survey &amp; Layout</b>				
	A. Survey & Layout	1	LS	\$5,000.00	\$5,000.00
	<b>Subtotal</b>				<b>\$5,000.00</b>
	<b>TOTAL</b>				<b>\$73,091.24</b>
	Contingency (20%)				\$14,618.25
	General Conditions (5%)				\$4,385.47
	Bonds & Insurances (3%)				\$2,631.28
	Mobilization/Demobilization (1.5%)				\$1,315.64
	<b>GRAND TOTAL</b>				<b>\$96,041.89</b>