

**TO:** CITY COUNCIL  
**FROM:** TONY COLLINS, DIRECTOR OF PARKS AND RECREATION  
**SUBJECT:** **BIG WALNUT TRAIL CONCEPT PLAN**  
**DATE:** SEPTEMBER 5, 2008  
**CC:** MAYOR, PARKS & RECREATION BOARD

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#### **RECOMMENDATION**

REGULAR MEETING OF PARKS & RECREATION BOARD HELD: September 3, 2008

Cantrell made a MOTION to adopt the Big Walnut Trail Concept Plan and recommend the Concept Plan to City Council for approval; seconded by Tremante. Voting yes: Naegele, Tremante, Cantrell, Franzmann, Messinger, and Miller. Motion carried.

Chair requested that Director forward this recommendation to City Council





# BIG WALNUT TRAIL CONCEPT PLAN

City of Gahanna  
July, 2008



CITY OF GAHANNA

DEPARTMENT OF PARKS & RECREATION



IN ASSOCIATION WITH  
PB Americas, Inc



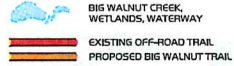
CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
PROJECT TOTALS  
JULY 2008



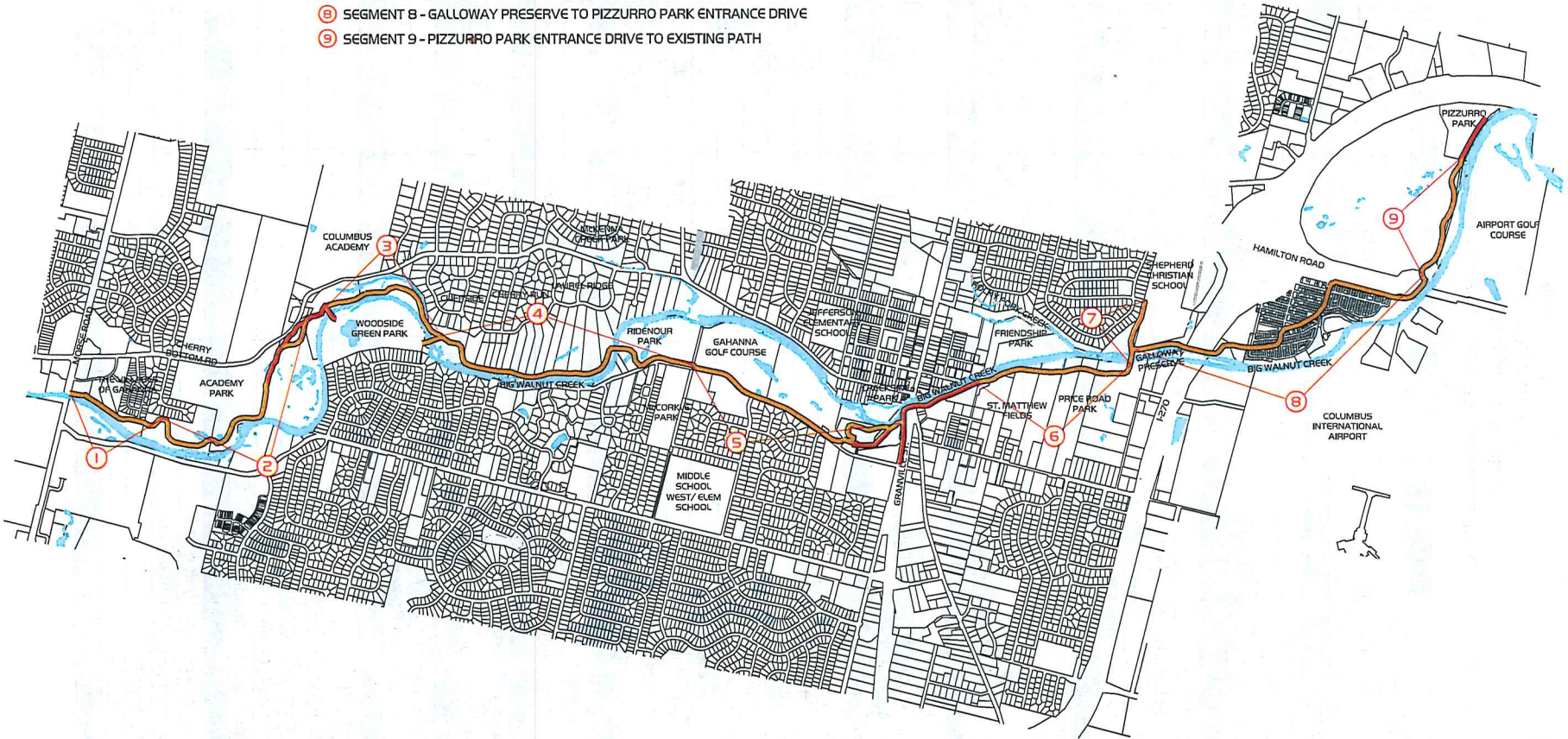
SEGMENT	DESCRIPTION	TOTAL COST
1	Morse Road to Meadowside Court	\$215,365.18
2	Meadowside Court to Academy Park Bridge	\$140,773.67
3	Academy Park Bridge to Nob Hill Civic Association	\$202,642.07
4	Nob Hill Civic Association to Ridenour Park	\$677,331.27
5	Ridenour Road to Granville Street	\$598,793.17
6	Existing Trail at Swim Club to Price Road	\$270,875.28
7	Galloway Preserve Bridge to Rocky Fork Drive	\$518,136.03
8	Galloway Preserve to Pizzurro Park Entrance Drive	\$394,003.09
9	Pizzurro Park Entrance Drive to the Existing Path	\$142,679.86
	GRAND TOTAL	\$3,160,599.60

The Opinion of Probable Project Costs for all sections of the Big Walnut Trail Concept Plan are based on available information and the Landscape Architects' experience and qualifications. This opinion represents the Landscape Architects' best judgment based on experience with the construction of similar projects. The Landscape Architect has no control over the cost of labor, materials, equipment or services furnished by others or over competitive bidding or market conditions and, therefore, does not guarantee that this project cost estimate will approximate the actual project costs.

**LEGEND:**



- ① SEGMENT 1 - MORSE ROAD TO MEADOWSIDE COURT
- ② SEGMENT 2 - MEADOWSIDE COURT TO ACADEMY PARK BRIDGE
- ③ SEGMENT 3 - ACADEMY PARK BRIDGE TO NOB HILL CIVIC ASSOCIATION
- ④ SEGMENT 4 - NOB HILL CIVIC ASSOCIATION TO RIDENOUR PARK
- ⑤ SEGMENT 5 - RIDENOUR ROAD TO GRANVILLE STREET
- ⑥ SEGMENT 6 - EXISTING TRAIL AT SWIM CLUB TO PRICE ROAD
- ⑦ SEGMENT 7 - GALLOWAY PRESERVE BRIDGE TO ROCKY FORK DRIVE
- ⑧ SEGMENT 8 - GALLOWAY PRESERVE TO PIZZURRO PARK ENTRANCE DRIVE
- ⑨ SEGMENT 9 - PIZZURRO PARK ENTRANCE DRIVE TO EXISTING PATH



# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO



GRAPHIC SCALE, 1"=800'-0"  
DATE: JULY, 2008  
JOB NO.: 07-60831-010

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CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #1 - TRAIL FROM MORSE ROAD TO MEADOWSIDE COURT (1,650 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	0.8	AC	\$4,500.00	\$3,375.00
	B. Construction Fence	660	LF	\$3.00	\$1,980.00
	<b>Subtotal</b>				<b>\$5,355.00</b>
2	Erosion Control				
	A. Silt Fence	1,650	LF	\$3.50	\$5,775.00
	B. Slope Protection Matting	1,850	SY	\$3.75	\$6,937.50
	<b>Subtotal</b>				<b>\$12,712.50</b>
3	Earthwork				
	A. Subgrade Excavation	458	CY	\$10.00	\$4,580.00
	B. Topsoil - Strip Stockpile	64	CY	\$5.00	\$320.00
	C. Topsoil - Replace	64	CY	\$5.00	\$320.00
	<b>Subtotal</b>				<b>\$5,220.00</b>
4	Storm Sewer				
	A. Trail Culverts (12")	60	LF	\$20.00	\$1,200.00
	B. Endwalls 12"	6	EA	\$500.00	\$3,000.00
	C. Rock Channel Protection	8	CY	\$100.00	\$800.00
	<b>Subtotal</b>				<b>\$5,000.00</b>
5	Pavement				
	A. Subgrade Compaction	1,833	SY	\$1.50	\$2,749.50
	B. Asphalt Trail- 10'	1,833	SY	\$28.00	\$51,324.00
	<b>Subtotal</b>				<b>\$54,073.50</b>
6	Site Furnishings				
	A. Site Directional/Trail Signage	2	EA	\$230.00	\$460.00
	B. Bollards	1	EA	\$250.00	\$250.00
	C. Removable Bollards	1	EA	\$450.00	\$450.00
	D. Trash Receptacles	1	EA	\$750.00	\$750.00
	E. Trailside Bench	1	EA	\$800.00	\$800.00
	F. Bike Rack	1	EA	\$960.00	\$960.00
	G. Fence/Railing at Trail	200	LF	\$45.00	\$9,000.00
	H. Interpretive Station	1	Allow	\$3,000.00	\$3,000.00
	<b>Subtotal</b>				<b>\$15,670.00</b>
7	Landscaping				
	A. Seed & Fine Grade	3,666	SY	\$1.00	\$3,666.00
	<b>Subtotal</b>				<b>\$3,666.00</b>
8	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
9	Construction Survey				
	A. Layout and Staking	1,650	LF	\$1.50	\$2,475.00
	<b>Subtotal</b>				<b>\$2,475.00</b>
	<b>TOTAL</b>				<b>\$182,127.00</b>
	Contingency (10%)				\$18,212.70
	General Conditions (4%)				\$8,013.59
	Bonds & Insurances (2%)				\$4,006.79
	Mobilization/Demobilization (1.5%)				\$3,005.10
	<b>GRAND TOTAL</b>				<b>\$215,365.18</b>
	1/2 Morse Road Underpass				
	A. Retaining Wall (Gabion)	307	SF	\$125.00	\$38,375.00
	B. Paving	120	LF	\$264.00	\$31,680.00
	C. Railing	120	LF	\$45.00	\$5,400.00
	<b>Subtotal</b>				<b>\$75,455.00</b>



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #2 - MEADOWSIDE COURT TO ACADEMY PARK BRIDGE (2,325 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	1.0	AC	\$4,500.00	\$4,500.00
	B. Construction Fence	1,150	LF	\$3.00	\$3,450.00
	<b>Subtotal</b>				<b>\$7,950.00</b>
2	Erosion Control				
	A. Silt Fence	2,325	LF	\$3.75	\$8,718.75
	<b>Subtotal</b>				<b>\$8,718.75</b>
3	Earthwork				
	A. Subgrade Excavation	645	CY	\$10.00	\$6,450.00
	B. Topsoil - Strip Stockpile	90	CY	\$5.00	\$450.00
	C. Topsoil - Replace	90	CY	\$5.00	\$450.00
	<b>Subtotal</b>				<b>\$7,350.00</b>
4	Pavement				
	A. Subgrade Compaction	2,583	SY	\$1.00	\$2,583.00
	B. Asphalt Trail- 10'	2,583	SY	\$21.00	\$54,243.00
	C. Geogrid	2,583	SY	\$4.75	\$12,269.25
	<b>Subtotal</b>				<b>\$69,095.25</b>
5	Site Furnishings				
	A. Kiosk (2-Sided)	1	EA	\$3,500.00	\$3,500.00
	B. Site Directional/Trail Signage	2	EA	\$230.00	\$460.00
	C. Bollards	2	EA	\$250.00	\$500.00
	D. Removable Bollards	1	EA	\$450.00	\$450.00
	E. Trash Receptacles	1	EA	\$750.00	\$750.00
	F. Trailside Bench	2	EA	\$800.00	\$1,600.00
	G. Bike Rack	2	EA	\$960.00	\$1,920.00
	H. Relocate baseball field light pole	1	EA	\$4,000.00	\$4,000.00
	I. Relocate baseball field fence	100	LF	\$16.00	\$1,600.00
	<b>Subtotal</b>				<b>\$14,780.00</b>
6	Landscaping				
	A. Seed & Fine Grade	5,166	SY	\$1.00	\$5,166.00
	<b>Subtotal</b>				<b>\$5,166.00</b>
7	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
8	Construction Survey				
	A. Layout and Staking	2,325	LF	\$1.50	\$3,487.50
	<b>Subtotal</b>				<b>\$3,487.50</b>
	<b>TOTAL</b>				<b>\$119,047.50</b>
	Contingency (10%)				\$11,904.75
	General Conditions (4%)				\$5,238.09
	Bonds & Insurances (2%)				\$2,619.05
	Mobilization/Demobilization (1.5%)				\$1,964.28
	<b>GRAND TOTAL</b>				<b>\$140,773.67</b>



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #3 - ACADEMY PARK BRIDGE TO NOB HILL CIVIC ASSOC. (2,475 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	1.0	AC	\$4,500.00	\$4,500.00
	B. Construction Fence	100	LF	\$3.00	\$300.00
	<b>Subtotal</b>				<b>\$4,800.00</b>
2	Erosion Control				
	A. Silt Fence	2,475	LF	\$3.50	\$8,662.50
	B. Slope Protection Matting	100	SY	\$3.75	\$375.00
	<b>Subtotal</b>				<b>\$9,037.50</b>
3	Earthwork				
	A. Subgrade Excavation	763	CY	\$10.00	\$7,630.00
	B. Topsoil - Strip Stockpile	106	CY	\$5.00	\$530.00
	C. Topsoil - Replace	106	CY	\$5.00	\$530.00
	<b>Subtotal</b>				<b>\$8,690.00</b>
4	Tributary Crossing				
	A. Boardwalk Railings and Deck	720	SF	\$52.00	\$37,440.00
	B. Helical Foundation	60	LF	\$47.00	\$2,820.00
	C. Rock Channel Protection	12	CY	\$100.00	\$1,200.00
	<b>Subtotal</b>				<b>\$41,460.00</b>
5	Pavement				
	A. Subgrade Compaction	2,750	SY	\$1.50	\$4,125.00
	B. Asphalt Trail- 10'	2,750	SY	\$28.00	\$77,000.00
	C. Geogrid	2,750	SY	\$4.75	\$13,062.50
	<b>Subtotal</b>				<b>\$94,187.50</b>
6	Site Furnishings				
	A. Site Directional/Trail Signage	1	EA	\$230.00	\$230.00
	B. Bollards	1	EA	\$250.00	\$250.00
	C. Interpretive Station	1	Allow	\$1,000.00	\$1,000.00
	<b>Subtotal</b>				<b>\$1,480.00</b>
7	Landscaping				
	A. Seed & Fine Grade	5,500	SY	\$1.00	\$5,500.00
	<b>Subtotal</b>				<b>\$5,500.00</b>
8	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
9	Construction Survey				
	A. Layout and Staking	2,475	LF	\$1.50	\$3,712.50
	<b>Subtotal</b>				<b>\$3,712.50</b>
	<b>TOTAL</b>				<b>\$171,367.50</b>
	Contingency (10%)				\$17,136.75
	General Conditions (4%)				\$7,540.17
	Bonds & Insurances (2%)				\$3,770.09
	Mobilization/Demobilization (1.5%)				\$2,827.56
	<b>GRAND TOTAL</b>				<b>\$202,642.07</b>
	Bridge (12' wide)				
	A. Prefabricated Bridge	110	LF	\$1,500.00	\$165,000.00
	B. Abutments	2	EA	\$7,500.00	\$15,000.00
	C. Decking	110	LF	\$160.00	\$17,600.00
	<b>Subtotal</b>				<b>\$197,600.00</b>
	Connector Path to Nob Hill Drive	450	LF	\$90.00	\$40,500.00



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #4 - NOB HILL CIVIC ASSOCIATION TO RIDENOUR PARK (4,439 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	2.1	AC	\$4,500.00	\$9,450.00
	B. Construction Fence	800	LF	\$3.00	\$2,400.00
	<b>Subtotal</b>				<b>\$11,850.00</b>
2	Erosion Control				
	A. Silt Fence	4,425	LF	\$3.50	\$15,487.50
	<b>Subtotal</b>				<b>\$15,487.50</b>
3	Earthwork				
	A. Subgrade Excavation	1,118	CY	\$10.00	\$11,180.00
	B. Topsoil - Strip Stockpile	156	CY	\$5.00	\$780.00
	C. Topsoil - Replace	156	CY	\$5.00	\$780.00
	<b>Subtotal</b>				<b>\$12,740.00</b>
4	Ditch Crossings (2)				
	A. Wood Bridge (2)	600	SF	\$35.00	\$21,000.00
	B. Rock Channel Protection	4	CY	\$100.00	\$400.00
	<b>Subtotal</b>				<b>\$21,400.00</b>
5	Pavement				
	A. Subgrade Compaction	4,775	SY	\$1.50	\$7,162.50
	B. Asphalt Trail- 10'	4,775	SY	\$28.00	\$133,700.00
	C. Geogrid	4,775	SY	\$4.75	\$22,681.25
	<b>Subtotal</b>				<b>\$163,543.75</b>
6	Bridge (12' wide)				
	A. Prefabricated Bridge	140	LF	\$1,500.00	\$210,000.00
	B. Abutments	2	EA	\$7,500.00	\$15,000.00
	C. Decking	140	LF	\$160.00	\$22,400.00
	<b>Subtotal</b>				<b>\$247,400.00</b>
7	Site Furnishings				
	A. Kiosk (2-Sided)	1	EA	\$3,500.00	\$3,500.00
	B. Site Directional/Trail Signage	3	EA	\$230.00	\$690.00
	C. Bollards	1	EA	\$250.00	\$250.00
	D. Removable Bollards	1	EA	\$450.00	\$450.00
	E. Trash Receptacles	1	EA	\$750.00	\$750.00
	F. Trailside Bench	1	EA	\$800.00	\$800.00
	G. Bike Rack	1	EA	\$960.00	\$960.00
	H. Interpretive Station	1	Allow	\$1,000.00	\$1,000.00
	I. Split Rail Fence (visitor controls)	2,725	LF	\$20.00	\$54,500.00
	J. Boardwalk Decking and Rails	3,500	SF	\$52.00	\$182,000.00
	K. Boardwalk Helical Piles	250	LF	\$47.00	\$11,750.00
	<b>Subtotal</b>				<b>\$244,900.00</b>
8	Landscaping				
	A. Seed & Fine Grade	9,860	SY	\$1.00	\$9,860.00
	<b>Subtotal</b>				<b>\$9,860.00</b>
9	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
10	Construction Survey				
	A. Layout and Staking	4,439	LF	\$1.50	\$6,658.50
	<b>Subtotal</b>				<b>\$6,658.50</b>



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #4 - NOB HILL CIVIC ASSOCIATION TO RIDENOUR PARK (4,439 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
	<b>TOTAL</b>				<b>\$572,796.00</b>
	Contingency (10%)				\$57,279.60
	General Conditions (4%)				\$25,203.02
	Bonds & Insurances (2%)				\$12,601.51
	Mobilization/Demobilization (1.5%)				\$9,451.13
	<b>GRAND TOTAL</b>				<b>\$677,331.27</b>

	Bridge to Old Ridenour Road (12' wide)				
	A. Prefabricated Bridge	195	LF	\$1,500.00	\$292,500.00
	B. Abutments	2	LF	\$7,500.00	\$15,000.00
	C. Decking	195	LF	\$160.00	\$31,200.00
	<b>Subtotal*</b>				<b>\$338,700.00</b>

	Bridge to F.O.P. Site (12' wide)				
	A. Prefabricated Bridge	195	LF	\$1,500.00	\$292,500.00
	B. Abutments	2	LF	\$7,500.00	\$15,000.00
	C. Decking	195	LF	\$160.00	\$31,200.00
	<b>Subtotal*</b>				<b>\$338,700.00</b>

\*Does not include associated trail cost

CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #5 - RIDENOUR ROAD TO GRANVILLE STREET (4,250 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	0.5	AC	\$4,500.00	\$2,250.00
	B. Construction Fence	4,250	LF	\$3.00	\$12,750.00
	<b>Subtotal</b>				<b>\$15,000.00</b>
2	Erosion Control				
	A. Silt Fence	4,250	LF	\$3.50	\$14,875.00
	B. Slope Protection Matting	1,200	SY	\$3.75	\$4,500.00
	<b>Subtotal</b>				<b>\$19,375.00</b>
3	Earthwork				
	A. Subgrade Excavation	1,180	CY	\$10.00	\$11,800.00
	B. Topsoil - Strip Stockpile	177	CY	\$5.00	\$885.00
	C. Topsoil - Replace	177	CY	\$5.00	\$885.00
	<b>Subtotal</b>				<b>\$13,570.00</b>
4	Storm Sewer				
	A. Trail Culverts (12")	20	LF	\$20.00	\$400.00
	B. Endwalls 12"	2	EA	\$500.00	\$1,000.00
	<b>Subtotal</b>				<b>\$1,400.00</b>
5	Pavement				
	A. Subgrade Compaction	4,722	SY	\$1.50	\$7,083.00
	B. Asphalt Trail- 10'	4,722	SY	\$28.00	\$132,216.00
	C. Curb	800	LF	\$20.00	\$16,000.00
	D. Timber Guardrail	800	LF	\$63.00	\$50,400.00
	E. Fence/ Railing	630	LF	\$45.00	\$28,350.00
	F. Retaining Wall (Gabion)	2,520	SF	\$50.00	\$126,000.00
	<b>Subtotal</b>				<b>\$360,049.00</b>
6	Roadway				
	A. Road Widening	1,275	LF	\$50.00	\$63,750.00
	B. Ditch Relocation	1,275	LF	\$5.00	\$6,375.00
	C. Trail Warning Signs	4	EA	\$200.00	\$800.00
	D. Edge Line	1,275	LF	\$1.00	\$1,275.00
	E. Ditch Erosion Protection	1,275	LF	\$1.60	\$2,040.00
	F. Traffic Control	1	LS	\$3,500.00	\$3,500.00
	<b>Subtotal</b>				<b>\$77,740.00</b>
7	Site Furnishings				
	A. Site Directional/Trail Signage	2	EA	\$230.00	\$460.00
	B. Bollards	4	EA	\$250.00	\$1,000.00
	C. Removable Bollards	2	EA	\$450.00	\$900.00
	D. Trash Receptacles	1	EA	\$750.00	\$750.00
	E. Trailside Bench	2	EA	\$800.00	\$1,600.00
	F. Bike Rack	1	EA	\$960.00	\$960.00
	<b>Subtotal</b>				<b>\$5,670.00</b>
8	Landscaping				
	A. Seed & Fine Grade	4,700	SY	\$1.00	\$4,700.00
	<b>Subtotal</b>				<b>\$4,700.00</b>
9	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
10	Construction Survey				
	A. Layout and Staking	4,250	LF	\$1.50	\$6,375.00
	<b>Subtotal</b>				<b>\$6,375.00</b>
	<b>TOTAL</b>				<b>\$506,379.00</b>



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #5 - RIDENOUR ROAD TO GRANVILLE STREET (4,250 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
	Contingency (10%)				\$50,637.90
	General Conditions (4%)				\$22,280.68
	Bonds & Insurances (2%)				\$11,140.34
	Mobilization/Demobilization (1.5%)				\$8,355.25
	<b>GRAND TOTAL</b>				<b>\$598,793.17</b>

CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #6 - EXISTING TRAIL AT SWIM CLUB TO PRICE ROAD (2,876 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	1.0	AC	\$4,500.00	\$4,500.00
	B. Construction Fence	600	LF	\$3.00	\$1,800.00
	<b>Subtotal</b>				<b>\$6,300.00</b>
2	Erosion Control				
	A. Silt Fence	2,876	LF	\$3.50	\$10,066.00
	B. Slope Protection Matting	100	SY	\$3.75	\$375.00
	<b>Subtotal</b>				<b>\$10,441.00</b>
3	Earthwork				
	A. Subgrade Excavation	737	CY	\$10.00	\$7,370.00
	B. Topsoil - Strip Stockpile	110	CY	\$5.00	\$550.00
	C. Topsoil - Replace	110	CY	\$5.00	\$550.00
	<b>Subtotal</b>				<b>\$8,470.00</b>
4	Storm Sewer				
	A. Trail Culverts (12")	20	LF	\$20.00	\$400.00
	B. Trail Culverts (15")	40	LF	\$39.00	\$1,560.00
	C. Trail Culverts (24")	20	LF	\$58.00	\$1,160.00
	D. Trail Culverts (36")	20	LF	\$81.00	\$1,620.00
	E. Endwalls 24"	2	EA	\$1,300.00	\$2,600.00
	F. Endwalls 60"	2	EA	\$3,700.00	\$7,400.00
	<b>Subtotal</b>				<b>\$14,740.00</b>
5	Pavement				
	A. Subgrade Compaction	2,950	SY	\$1.50	\$4,425.00
	B. Asphalt Trail- 10'	2,950	SY	\$28.00	\$82,600.00
	C. Entry Drive Relocation	150	LF	\$50.00	\$7,500.00
	D. Fence Relocation	150	LF	\$35.00	\$5,250.00
	<b>Subtotal</b>				<b>\$94,525.00</b>
6	Bridge (12' wide)				
	A. Prefabricated Bridge	50	LF	\$1,000.00	\$50,000.00
	B. Abutments	2	LF	\$7,500.00	\$15,000.00
	C. Decking	50	LF	\$160.00	\$8,000.00
	D. Approach Fence	32	LF	\$35.00	\$1,120.00
	<b>Subtotal</b>				<b>\$74,120.00</b>
7	Site Furnishings				
	A. Kiosk (2 Sided)	1	EA	\$3,500.00	\$3,500.00
	B. Site Directional/Trail Signage	2	EA	\$230.00	\$460.00
	C. Trash Receptacles	1	EA	\$750.00	\$750.00
	D. Trailside Bench	2	EA	\$800.00	\$1,600.00
	E. Bike Rack	1	EA	\$960.00	\$960.00
	<b>Subtotal</b>				<b>\$7,270.00</b>
8	Landscaping				
	A. Seed & Fine Grade	6,390	SY	\$1.00	\$6,390.00
	<b>Subtotal</b>				<b>\$6,390.00</b>
9	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
10	Construction Survey				
	A. Layout and Staking	2,876	LF	\$1.50	\$4,314.00
	<b>Subtotal</b>				<b>\$4,314.00</b>



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #6 - EXISTING TRAIL AT SWIM CLUB TO PRICE ROAD (2,876 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
	<b>TOTAL</b>				<b>\$229,070.00</b>
	Contingency (10%)				\$22,907.00
	General Conditions (4%)				\$10,079.08
	Bonds & Insurances (2%)				\$5,039.54
	Mobilization/Demobilization (1.5%)				\$3,779.66
	<b>GRAND TOTAL</b>				<b>\$270,875.28</b>

	Bridge to Friendship Park (12' wide)				
	A. Prefabricated Bridge	165	LF	\$1,500.00	\$247,500.00
	B. Abutments	2	LF	\$7,500.00	\$15,000.00
	C. Decking	165	LF	\$160.00	\$26,400.00
	<b>Subtotal</b>				<b>\$288,900.00</b>

CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #7 - GALLOWAY PRESERVE BRIDGE TO ROCKY FORK DRIVE (1,300 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	0.7	AC	\$4,500.00	\$3,150.00
	B. Construction Fence	50	LF	\$3.00	\$150.00
	<b>Subtotal</b>				<b>\$3,300.00</b>
2	Erosion Control				
	A. Silt Fence	200	LF	\$3.50	\$700.00
	B. Slope Protection Matting	200	SY	\$3.75	\$750.00
	<b>Subtotal</b>				<b>\$1,450.00</b>
3	Earthwork				
	A. Topsoil - Strip Stockpile	360	CY	\$5.00	\$1,800.00
	B. Topsoil - Replace	360	CY	\$5.00	\$1,800.00
	<b>Subtotal</b>				<b>\$3,600.00</b>
4	Pavement				
	A. Subgrade Compaction	1,180	SY	\$1.50	\$1,770.00
	B. Asphalt Trail- 10'	1,180	SY	\$28.00	\$33,040.00
	<b>Subtotal</b>				<b>\$34,810.00</b>
5	Bridge (12' wide)				
	A. Prefabricated Bridge	130	LF	\$1,500.00	\$195,000.00
	B. Abutments	2	LF	\$7,500.00	\$15,000.00
	C. Decking	230	LF	\$160.00	\$36,800.00
	D. Boardwalk	100	LF	\$1,400.00	\$140,000.00
	E. Approach Fence	40	LF	\$35.00	\$1,400.00
	<b>Subtotal</b>				<b>\$388,200.00</b>
6	Site Furnishings				
	A. Site Directional/Trail Signage	1	EA	\$230.00	\$230.00
	B. Bollards	2	EA	\$250.00	\$500.00
	C. Removable Bollards	1	EA	\$450.00	\$450.00
	<b>Subtotal</b>				<b>\$1,180.00</b>
7	Landscaping				
	A. Seed & Fine Grade	1,180	SY	\$1.00	\$1,180.00
	<b>Subtotal</b>				<b>\$1,180.00</b>
8	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
9	Construction Survey				
	A. Layout and Staking	1,300	LF	\$1.50	\$1,950.00
	<b>Subtotal</b>				<b>\$1,950.00</b>
	<b>TOTAL</b>				<b>\$438,170.00</b>
	Contingency (10%)				\$43,817.00
	General Conditions (4%)				\$19,279.48
	Bonds & Insurances (2%)				\$9,639.74
	Mobilization/Demobilization (1.5%)				\$7,229.81
	<b>GRAND TOTAL</b>				<b>\$518,136.03</b>



CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #8 - GALLOWAY PRESERVE TO PIZZURRO PARK ENTRANCE (5,775 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	1.0	AC	\$4,500.00	\$4,500.00
	B. Construction Fence	100	LF	\$3.00	\$300.00
	<b>Subtotal</b>				<b>\$4,800.00</b>
2	Erosion Control				
	A. Silt Fence	5,775	LF	\$3.50	\$20,212.50
	B. Slope Protection Matting	200	SY	\$3.75	\$750.00
	<b>Subtotal</b>				<b>\$20,962.50</b>
3	Earthwork				
	A. Subgrade Excavation	1,400	CY	\$10.00	\$14,000.00
	B. Topsoil - Strip Stockpile	210	CY	\$5.00	\$1,050.00
	C. Topsoil - Replace	210	CY	\$5.00	\$1,050.00
	<b>Subtotal</b>				<b>\$16,100.00</b>
4	Storm Sewer				
	A. Trail Culverts (30")	80	LF	\$95.00	\$7,600.00
	B. Endwalls 30"	4	EA	\$1,700.00	\$6,800.00
	<b>Subtotal</b>				<b>\$14,400.00</b>
5	Pavement				
	A. Subgrade Compaction	5,600	SY	\$1.50	\$8,400.00
	B. Asphalt Trail- 10'	5,600	SY	\$28.00	\$156,800.00
	C. Geogrid	222	SY	\$4.75	\$1,054.50
	<b>Subtotal</b>				<b>\$165,200.00</b>
6	I-270 Underpass				
	A. Retaining Wall (Gabion)	315	SF	\$50.00	\$15,750.00
	B. Paving	4,800	SF	\$3.70	\$17,760.00
	C. Railing	400	LF	\$45.00	\$18,000.00
	<b>Subtotal</b>				<b>\$51,510.00</b>
7	Hamilton Road Underpass				
	A. Retaining Wall (Gabion)	203	SF	\$50.00	\$10,150.00
	B. Paving	3,000	SF	\$3.70	\$11,100.00
	C. Railing	250	LF	\$45.00	\$11,250.00
	<b>Subtotal</b>				<b>\$32,500.00</b>
8	Site Furnishings				
	A. Site Directional/Trail Signage	2	EA	\$230.00	\$460.00
	B. Bollards	2	EA	\$250.00	\$500.00
	C. Removable Bollards	1	EA	\$450.00	\$450.00
	D. Trash Receptacles	1	EA	\$750.00	\$750.00
	E. Trailside Bench	2	EA	\$800.00	\$1,600.00
	<b>Subtotal</b>				<b>\$3,760.00</b>
9	Landscaping				
	A. Seed & Fine Grade	12,800	SY	\$1.00	\$12,800.00
	<b>Subtotal</b>				<b>\$12,800.00</b>
10	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
11	Construction Survey				
	A. Layout and Staking	5,775	LF	\$1.50	\$8,662.50
	<b>Subtotal</b>				<b>\$8,662.50</b>
	<b>TOTAL</b>				<b>\$333,195.00</b>
	Contingency (10%)				\$33,319.50
	General Conditions (4%)				\$14,660.58
	Bonds & Insurances (2%)				\$7,330.29
	Mobilization/Demobilization (1.5%)				\$5,497.72
	<b>GRAND TOTAL</b>				<b>\$394,003.09</b>

CITY OF GAHANNA  
BIG WALNUT TRAIL  
OPINION OF PROBABLE COST  
SEGMENT #9 - PIZZURRO PARK ENTRANCE DRIVE TO EXISTING PATH (2,100 LF)  
JULY 2008



ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
1	Site Preparation				
	A. Clearing & Grubbing	1.0	AC	\$4,500.00	\$4,500.00
	B. Construction Fence	1,440	LF	\$3.00	\$4,320.00
	<b>Subtotal</b>				<b>\$8,820.00</b>
2	Erosion Control				
	A. Silt Fence	2,100	LF	\$3.50	\$7,350.00
	<b>Subtotal</b>				<b>\$7,350.00</b>
3	Earthwork				
	A. Subgrade Excavation	650	CY	\$10.00	\$6,500.00
	B. Topsoil - Strip Stockpile	97	CY	\$5.00	\$485.00
	C. Topsoil - Replace	97	CY	\$5.00	\$485.00
	<b>Subtotal</b>				<b>\$7,470.00</b>
4	Storm Sewer				
	A. Trail Culverts (12")	20	LF	\$20.00	\$400.00
	B. Endwalls 12"	2	EA	\$500.00	\$1,000.00
	C. Trail Culverts (48")	20	LF	\$212.00	\$4,240.00
	D. Endwalls 48"	2	EA	\$2,560.00	\$5,120.00
	<b>Subtotal</b>				<b>\$10,760.00</b>
5	Pavement				
	A. Subgrade Compaction	2,333	SY	\$1.50	\$3,499.50
	B. Asphalt Trail- 10'	2,333	SY	\$28.00	\$65,324.00
	C. Curb Ramps	2	EA	\$2,000.00	\$4,000.00
	<b>Subtotal</b>				<b>\$72,823.50</b>
6	Site Furnishings				
	A. Site Directional/Trail Signage	2	EA	\$230.00	\$460.00
	B. Bollards	2	EA	\$250.00	\$500.00
	C. Removable Bollards	1	EA	\$450.00	\$450.00
	D. Trash Receptacles	1	EA	\$750.00	\$750.00
	E. Bike Rack	1	EA	\$960.00	\$960.00
	<b>Subtotal</b>				<b>\$3,120.00</b>
	Landscaping				
	A. Seed & Fine Grade	4,666	SY	\$1.00	\$4,666.00
	<b>Subtotal</b>				<b>\$4,666.00</b>
8	Agency Coordination				
	A. Permitting/Testing/Geotechnical	1	LS	\$2,500.00	\$2,500.00
	<b>Subtotal</b>				<b>\$2,500.00</b>
9	Construction Survey				
	A. Layout and Staking	2,100	LF	\$1.50	\$3,150.00
	<b>Subtotal</b>				<b>\$3,150.00</b>
	<b>TOTAL</b>				<b>\$120,659.50</b>
	Contingency (10%)				\$12,065.95
	General Conditions (4%)				\$5,309.02
	Bonds & Insurances (2%)				\$2,654.51
	Mobilization/Demobilization (1.5%)				\$1,990.88
	<b>GRAND TOTAL</b>				<b>\$142,679.86</b>





# Big Walnut Creek Multipurpose Trail

Gahanna Bicycle Advisory Committee, Department of Parks & Recreation

September 22, 2008

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The **Gahanna Bicycle Advisory Committee (BAC)** is a subcommittee of the Gahanna Parks Board, which supports the Department of Parks & Recreation. Originally formed in 1995, the BAC is composed of community volunteers dedicated to:

- increasing the quality and quantity of trails in order to increase connectivity within our community,
- encouraging a healthy lifestyle, and
- striving to make our community an attractive city in which to live, work and play.

The BAC was instrumental in the formation of our 1999 Bikeway Plan. Currently this committee meets on a monthly basis to update the original plan and further the goals for the 2006 Parks & Recreation Master Plan. According to the 2006 Parks & Recreation Master Plan, the development of better connectivity throughout the community through the expansion of bikeways, greenways and multipurpose trails was of the utmost importance to residents. 81% of residents believed there is a serious need or some need to develop additional walking or biking trails, and to connect existing trails.

## The Big Walnut Creek Bikeway Project

In 2006, based on these findings and community and regional support, the Department and BAC began the process of planning and building a multipurpose trail to increase connectivity in our community. The Big Walnut Creek, as a historic and natural focal point in our community, was chosen as the main artery of the new bikeway system, which will eventually connect to other areas of Gahanna via neighborhood paths, routes and lanes. Using Olde Gahanna and Creekside as a primary destination, the trail will follow the Big Walnut Creek the length of Gahanna from Morse Road to Pizzurro Park.

In 2007, Floyd Browne & Associates was hired to evaluate the environmental impacts, cost and safety issues of this trail, recommend routes and structures and submit a concept plan and opinion of probable cost. In May, 2008, a preliminary plan was unveiled at a public meeting hosted by the BAC. After incorporating public comment into their plan, the final concept recommendation was accepted by the BAC in August, 2008 and recommended to the Parks Board in September, 2008.

The Department of Parks & Recreation, the Parks Board and Bicycle Advisory Committee recommend this plan to Gahanna City Council as an excellent vision for the future of bicycle and pedestrian connectivity in Gahanna.

# **Gahanna Bicycle Advisory Committee Members**

September, 22, 2008

## City of Gahanna Staff Members

Mayor Becky Stinchcomb

Tony Collins, Director, Gahanna Department of Parks & Recreation

Kate Moening, Gahanna Department of Parks & Recreation

## Community Members

Matt Dehlendorf	149 East Cherry Ave.	Gahanna
Pat Evans	812 Nob Hill Drive W	Gahanna
David Jeffords	527 Haversham Dr.	Gahanna
Patricia Kovacs	527 Haversham Dr.	Gahanna
Tom Liskay	457 Tresham Road	Gahanna
Dave Markley	906 N. Stygler Road	Gahanna
Mick Micacchion	1127 Riva Place	Gahanna
Linda Mosbacher	6381 Clark State Rd.	Gahanna
Ellen Murphy		Gahanna
Laurel Naegele	786 Caroway Blvd.	Gahanna
Dennis Oswald	72 Nob Hill Dr. N	Gahanna
Ellen Tripp	5420 Clark State Rd.	Gahanna
Lee Tucker	805 Nob Hill Dr.	Gahanna



# BIG WALNUT TRAIL CONCEPT PLAN

City of Gahanna, Ohio  
July, 2008



IN ASSOCIATION WITH:  
PB Americas, Inc.

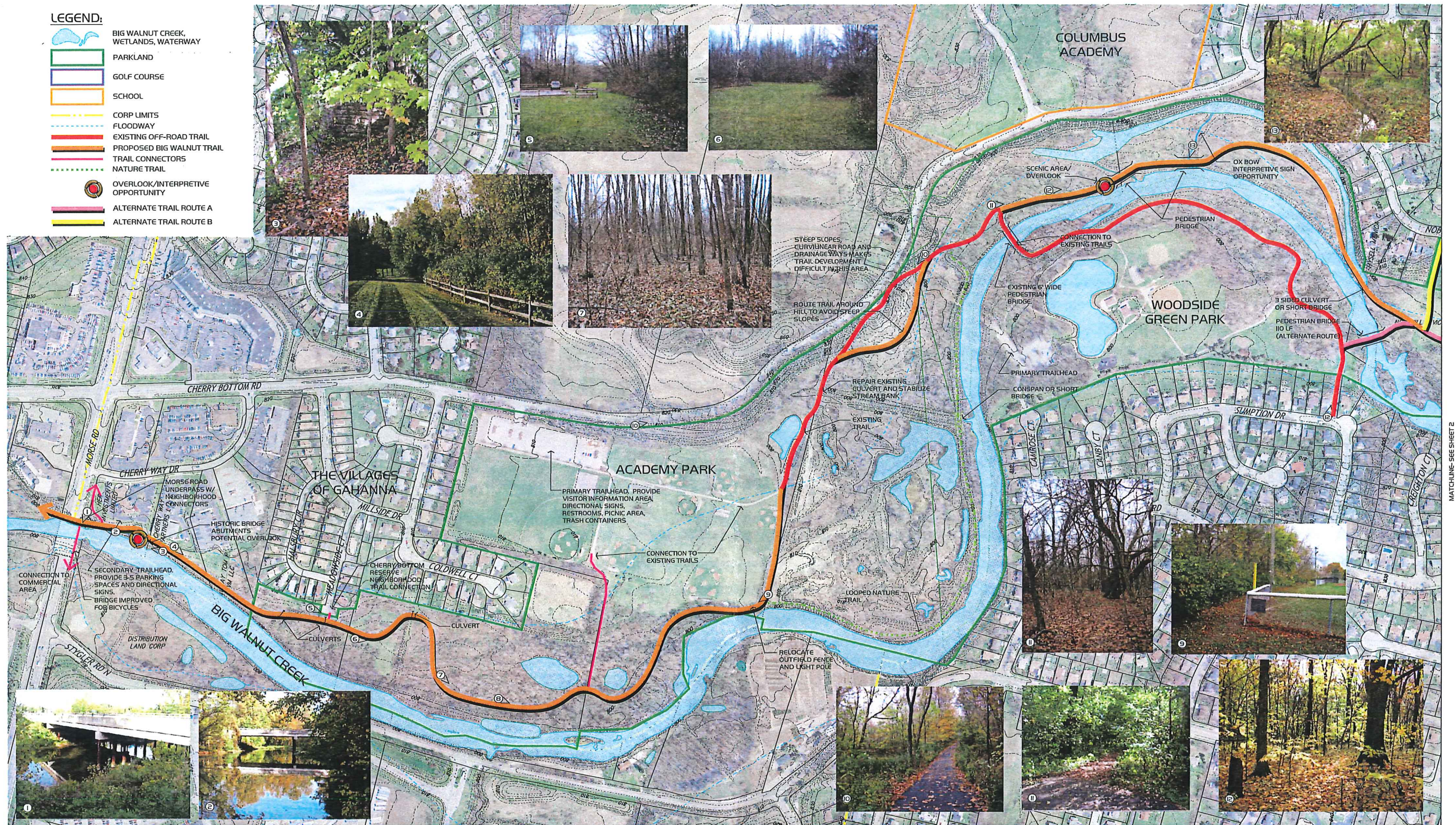


**EXHIBIT A**



# LEGEND:

- BIG WALNUT CREEK, WETLANDS, WATERWAY
- PARKLAND
- GOLF COURSE
- SCHOOL
- CORP LIMITS
- FLOODWAY
- EXISTING OFF-ROAD TRAIL
- PROPOSED BIG WALNUT TRAIL
- TRAIL CONNECTORS
- NATURE TRAIL
- OVERLOOK/INTERPRETIVE OPPORTUNITY
- ALTERNATE TRAIL ROUTE A
- ALTERNATE TRAIL ROUTE B



# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

PREPARED FOR:  
CITY OF GAHANNA  
DEPARTMENT OF PARKS & RECREATION

GRAPHIC SCALE: 1"=200'-0"  
DATE: JULY, 2008  
JOB NO.: 07-60831-010

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IN ASSOCIATION WITH:  
P&B Associates, Inc.

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# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

2

PREPARED FOR:



CITY OF GAHANNA  
DEPARTMENT OF PARKS & RECREATION



GRAPHIC SCALE: 1"=200'-0"  
DATE: JULY, 2008  
JOB NO.: 07-60831-010











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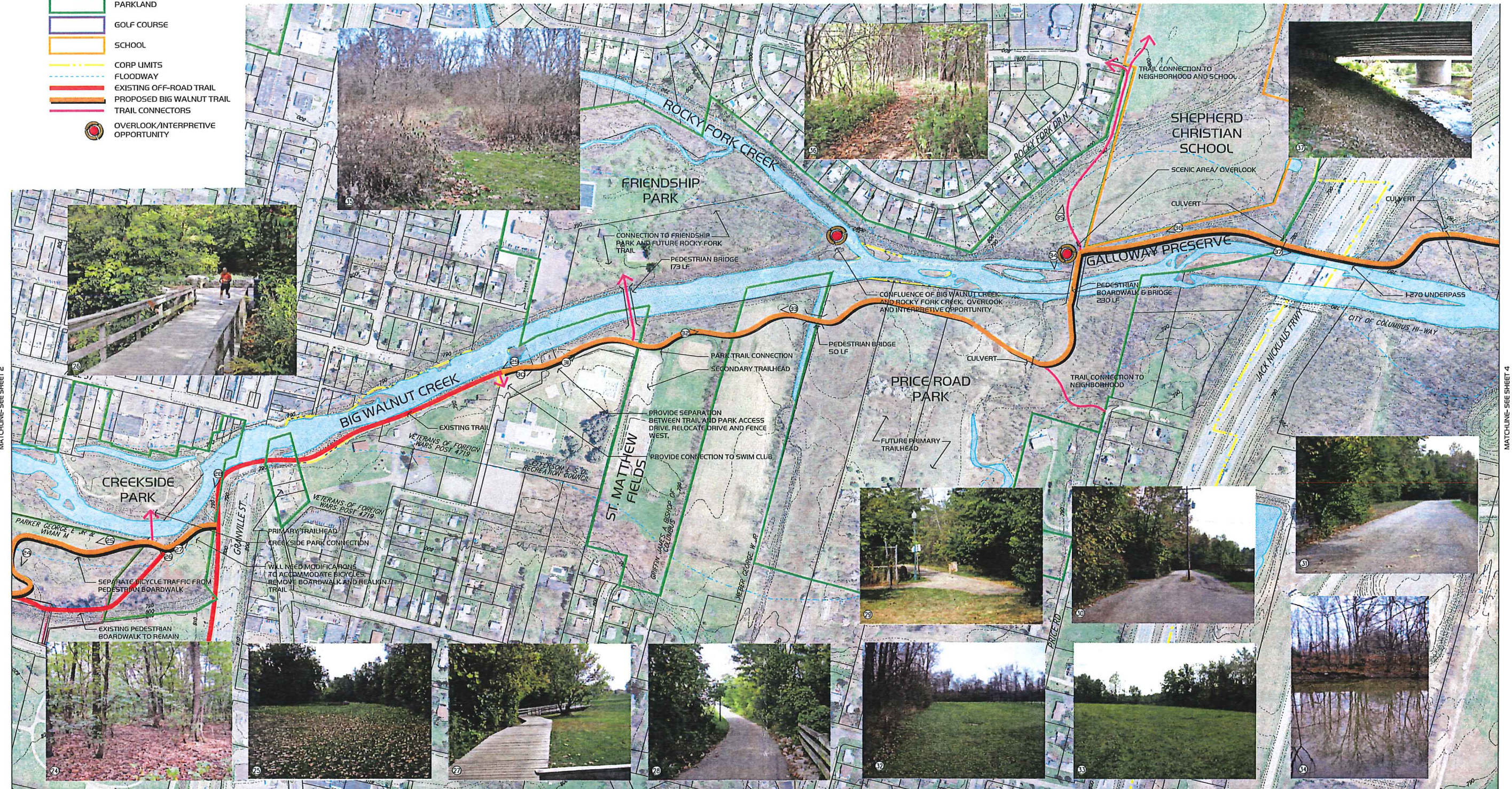
Central Ohio  
740.363.6792  
740.363.6536 fax  
800.325.7647

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# LEGEND:

-  BIG WALNUT CREEK, WETLANDS, WATERWAY
-  PARKLAND
-  GOLF COURSE
-  SCHOOL
-  CORP LIMITS
-  FLOODWAY
-  EXISTING OFF-ROAD TRAIL
-  PROPOSED BIG WALNUT TRAIL
-  TRAIL CONNECTORS
-  OVERLOOK/INTERPRETIVE OPPORTUNITY



# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

3

PREPARED FOR:



CITY OF GAHANNA  
DEPARTMENT OF PARKS & RECREATION



GRAPHIC SCALE: 1"=200'-0"  
DATE: JULY, 2008  
JOB NO.: 07-60831-010













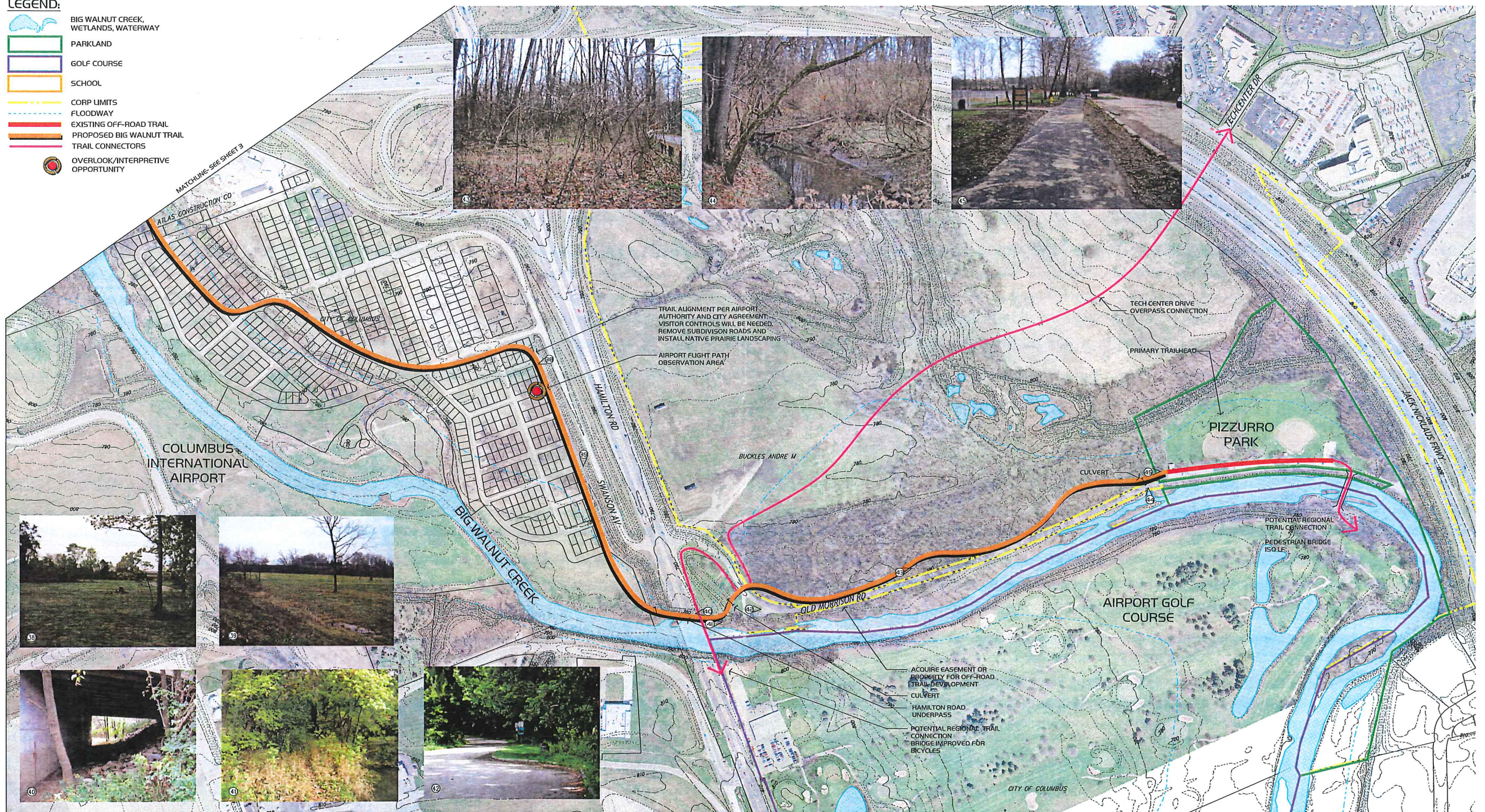
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LEGEND:

-  BIG WALNUT CREEK, WETLANDS, WATERWAY
-  PARKLAND
-  GOLF COURSE
-  SCHOOL
-  CORP LIMITS
-  FLOODWAY
-  EXISTING OFF-ROAD TRAIL
-  PROPOSED BIG WALNUT TRAIL
-  TRAIL CONNECTORS
-  OVERLOOK/INTERPRETIVE OPPORTUNITY



# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

4

PREPARED FOR:



CITY OF GAHANNA  
DEPARTMENT OF PARKS & RECREATION



GRAPHIC SCALE: 1"=200'-0"  
DATE: JULY, 2008  
JOB NO.: 07-60831-010

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### GENERAL NOTES

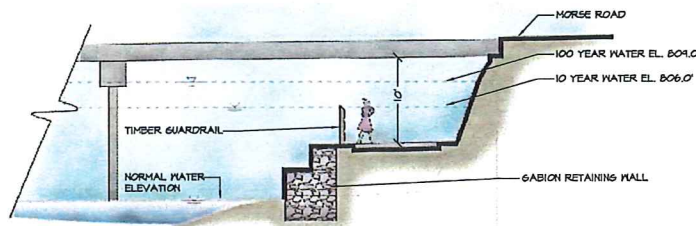
- 1) DRAINAGE CALCULATIONS FOR BRIDGE STRUCTURES HAVE NOT BEEN PERFORMED AT THIS TIME. HYDRAULIC CONSIDERATIONS FOR EACH SITE HAVE BEEN ASSESSED BASED ON EXISTING FEMA DOCUMENTS, LOCAL CONDITIONS AND ENGINEERING JUDGMENT.
- 2) ANY CONSTRUCTION WITHIN THE FLOODWAY MAY NOT INCREASE THE BASE FLOOD ELEVATION BY MORE THAN SIX (6) INCHES.
- 3) NO SUBSURFACE INVESTIGATIONS HAVE BEEN COMPLETED AT THIS TIME.

### BRIDGE NOTES

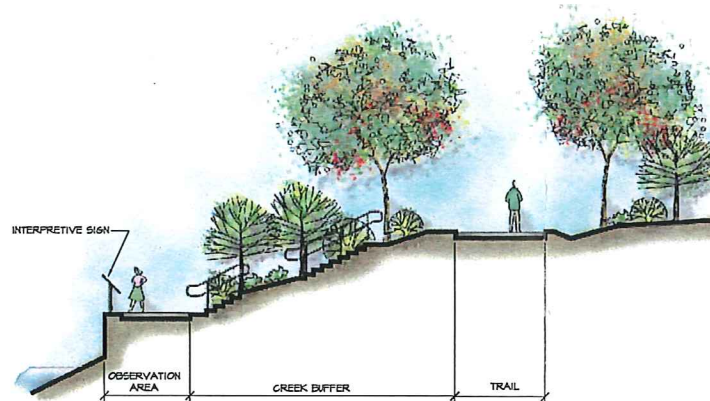
- 1) DUE TO THE WIDE FLOODPLAIN, RAISING THE BRIDGE STRUCTURES ABOVE THE FLOODPLAIN IS IMPRACTICAL. A MORE REASONABLE SOLUTION IS TO LOWER THE STRUCTURE TO MINIMIZE THE AMOUNT OF FILL, THEREBY MINIMIZING THE HYDRAULIC IMPACT ON THE CREEK.
- 2) BRIDGES SHOWN HAVE THE CAPABILITY TO CARRY SMALL VEHICLES FOR ROUTINE TRAIL MAINTENANCE (GOLF CART OR SOMETHING LESS THAN A PICKUP TRUCK)
- 3) BRIDGES SHOWN ARE PRE-ENGINEERED, PREFABRICATED, SINGLE SPAN TRUSS BRIDGES. THEY COME IN WIDE RANGE OF AESTHETIC AND SAFETY OPTIONS. NOTE THAT SKETCHES PORTRAYED ARE APPROXIMATE AND MAY NOT REQUIRE ARCHING GRADES SHOWN.
- 4) WEATHERING STEEL FINISH IS RECOMMENDED OVER PAINTED FINISH DUE TO 30% REDUCTION IN COST. FOR BRIDGES OVER 200' PAINTING WILL MOST LIKELY BE REQUIRED SINCE ACQUIRING WEATHERING STEEL OF THAT LENGTH IS DIFFICULT.
- 5) BECAUSE OF THE LONGER SPANS ON THIS PROJECT, THE BRIDGE DECKING IS RECOMMENDED TO BE CONCRETE. IT DISTRIBUTES THE LOAD THUS REDUCING STRUCTURAL STEEL. COMPOSITE DECKING MATERIALS MAY BE USED ON BRIDGES WITH SHORTER SPANS.

### UNDERPASS NOTES

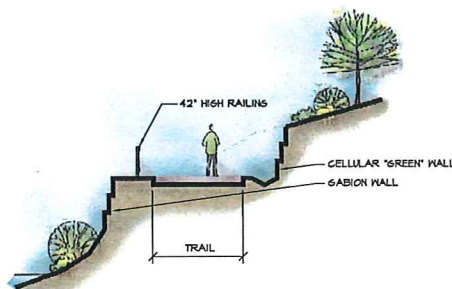
- 1) THREE UNDERPASSES WERE INVESTIGATED, SPECIFICALLY MORSE ROAD, I-270 AND HAMILTON ROAD. THEY WERE REVIEWED FOR THEIR INTERACTION WITH EXISTING BRIDGES, TRAIL SURFACES, FLOOD PROTECTION AND SAFETY CONTROLS.
- 2) DUE TO THE HIGH PROBABILITY THAT THE TRAIL WILL BE SUBJECT TO FLOODING AT THESE LOCATIONS, ARRANGEMENTS WERE DEVELOPED THAT MINIMIZE THE IMPACT ON FLOODWAY AND EXISTING STRUCTURES.
- 3) GABION RETAINING WALLS ARE RECOMMENDED DUE TO THEIR WATERWAY APPLICATIONS, LOW MAINTENANCE, STABLE GRAVITY SYSTEM, FLEXIBLE ARRANGEMENTS AND AVAILABILITY OF WIDE RANGE OF COLORS AND TEXTURES.
- 4) THE TRAIL SURFACE AT UNDERPASSES IS CONCRETE OVER AGGREGATE BASE MEETING ODOT DESIGN GUIDELINES. IT SHOULD HAVE CONTROL JOINTS AND SLIP RESISTANT BROOM FINISH. AN ASPHALT SURFACE TO ACT AS A WEARING COURSE SHOULD BE CONSIDERED.
- 5) SAFETY RAILING MEETING ODOT STANDARDS IS RECOMMENDED. RAILING TO BE A MINIMUM HEIGHT OF 4'-6". THE MINIMUM VERTICAL HEAD CLEARANCE IS TEN (10) FEET.



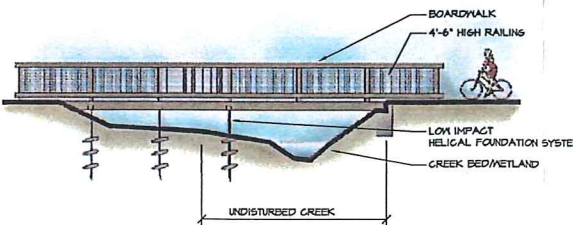
1 MORSE ROAD UNDERPASS  
NOT TO SCALE



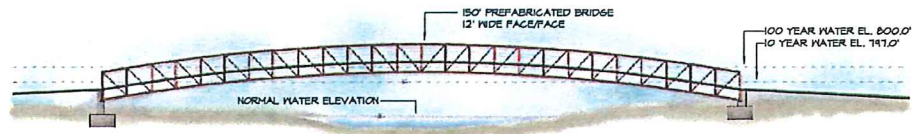
3 HISTORIC BRIDGE OVERLOOK  
NOT TO SCALE



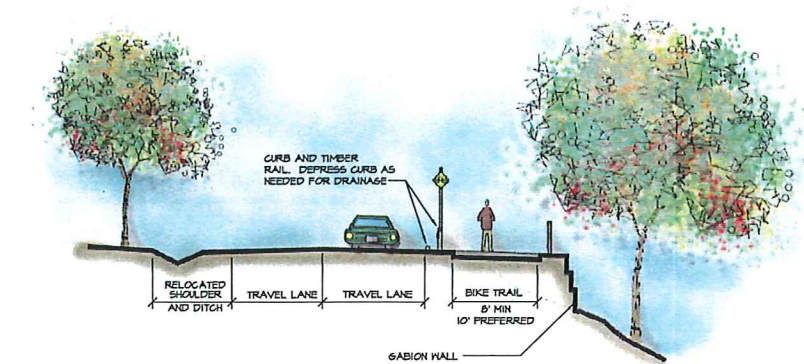
2 MORSE ROAD RAMP TO GRADE  
NOT TO SCALE



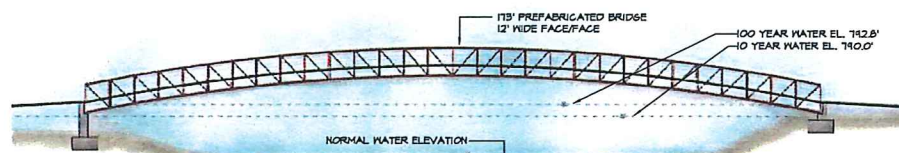
4 TRIBUTARY/WETLAND CROSSING  
NOT TO SCALE



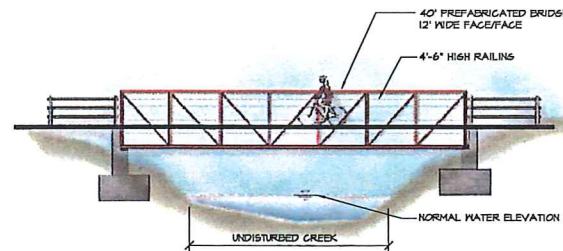
5 BRIDGE TO RIDENOUR PARK  
NOT TO SCALE



6 RIDENOUR ROAD REALIGNMENT  
NOT TO SCALE



7 BRIDGE TO FRIENDSHIP PARK  
NOT TO SCALE



8 DITCH CROSSING  
NOT TO SCALE

# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

### CONCEPT PLAN

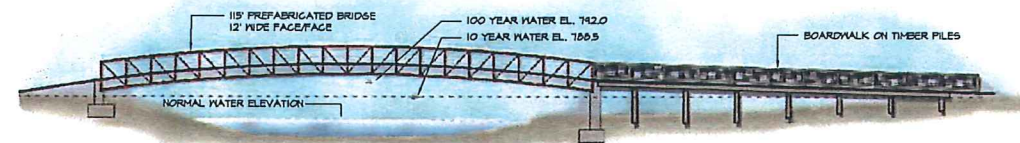
5

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DEPARTMENT OF PARKS & RECREATION

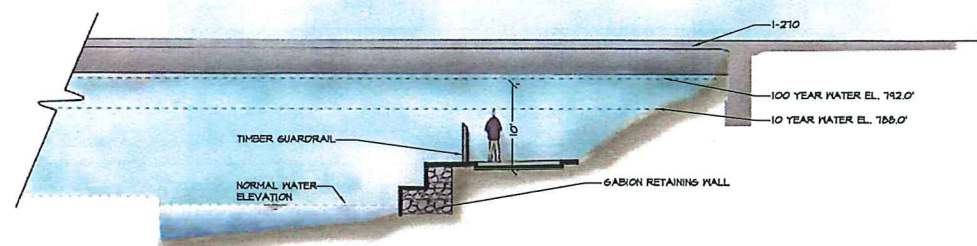
  
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J:\PROJECTS\GAHANNA, CITY OF\07-60831 BIG WALNUT TRAIL BIKEWAY DESIGN\CONCEPT PLAN SECTIONS.DWG - 9/10/2008 12:50:03 PM

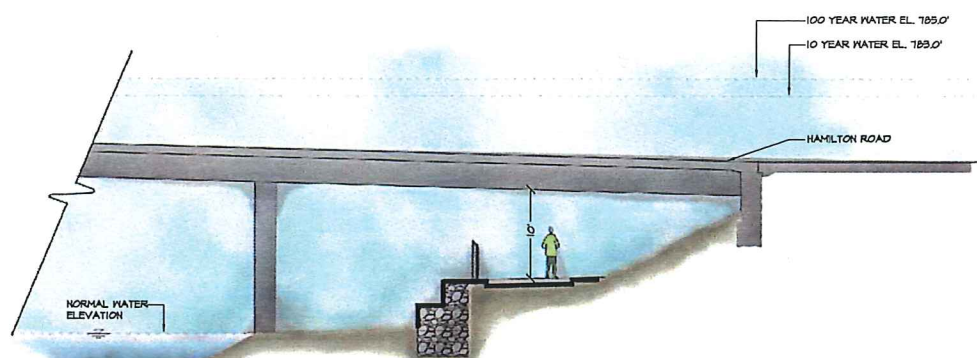




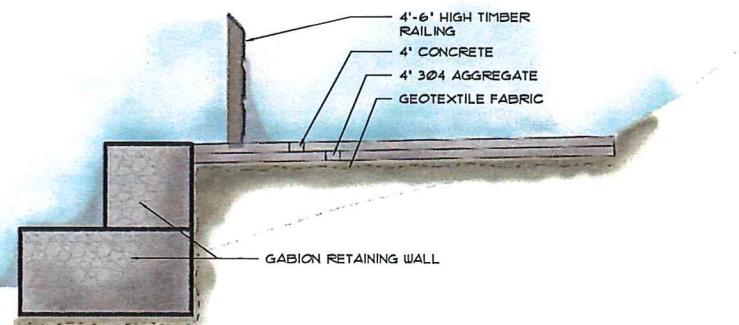
9 BRIDGE TO GALLOWAY PRESERVE  
NOT TO SCALE



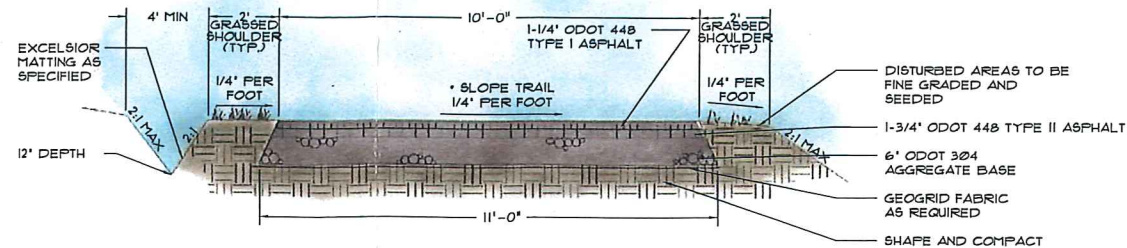
10 I-270 UNDERPASS  
NOT TO SCALE



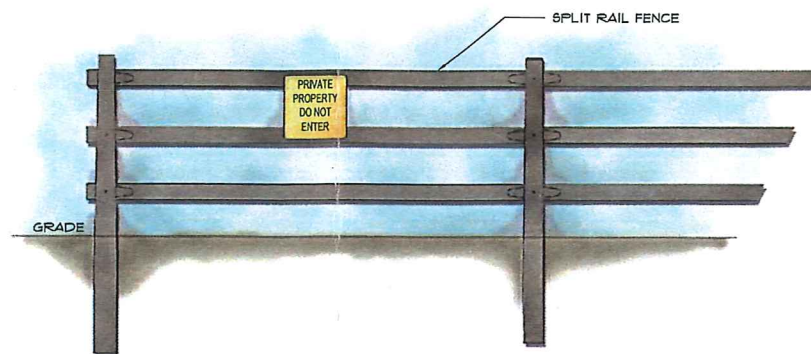
11 HAMILTON ROAD UNDERPASS  
NOT TO SCALE



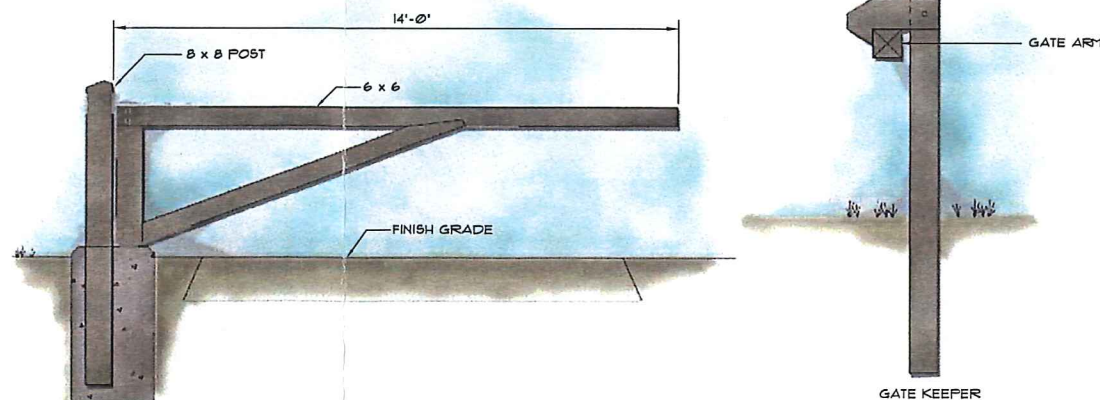
12 UNDERPASS DETAIL  
NOT TO SCALE



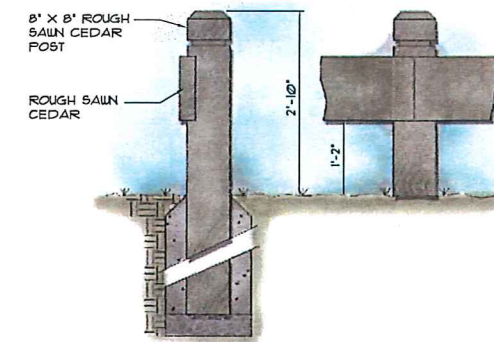
13 TYPICAL TRAIL SECTION  
NOT TO SCALE



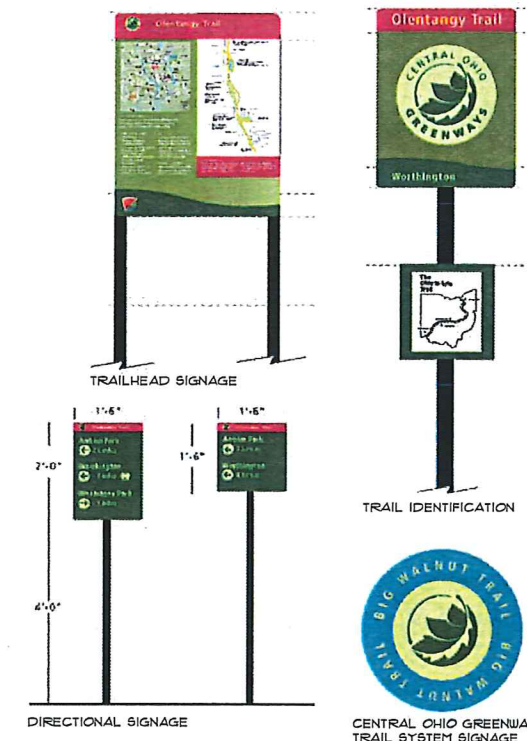
14 VISITOR CONTROL, FENCING  
NOT TO SCALE



15 VISITOR CONTROL, GATE  
NOT TO SCALE



16 TIMBER BARRIER  
NOT TO SCALE



17 TRAIL SIGNAGE  
NOT TO SCALE

# BIG WALNUT TRAIL

## CITY OF GAHANNA, OHIO

CONCEPT PLAN

6

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