

Great Miami River (GMR) Recreation Connectivity Project			
Troy, Ohio			
Cost Estimate			
		Total Project Cost	
<i>Troy Low-Head Dam - Removal</i>		\$1,404,375.15	Shortfall
<i>Troy Oxbow Reconnection</i>		\$1,974,608.69	\$2,822,712.23
<i>Troy Levee Toe and Multi-Use Trail</i>		\$3,996,617.36	<i>This shortfall is based off of the</i>
<i>Crawford St. Pedestrian Pathway</i>		\$1,349,988.75	<i>H2Ohio Rivers Initiative and</i>
<i>River Park Plaza - Phase I</i>		\$1,085,571.28	<i>MVRPC-CR grant funds</i>
		\$9,811,161.23	<i>being awarded.</i>
Secured Grant Funding			
Ohio EPA Water Resource Restoration Sponsor Program (WRRSP)			
\$4,000,000 - Middle Great Miami River Restoration Project - Applicant US Fish & Wildlife			
(includes the removal/modification of Piqua's two low head dams-\$1,0247,558)			
\$3mill of the \$4mill is dedicated to Troy's river improvement projects			
Applications Submitted			
<i>H2Ohio Rivers Initiative</i>	\$3,250,000.00	Low head dam/Oxbow Recon./Levee Toe/Multi-use Path	
<i>MVRPC - Carbon Reduction</i>	\$738,449	Levee Toe / Multi-use Path	
	\$3,988,449.00	Total	
Potential Grant Funding			
ODNR Paddling Enhancement Grant	\$75,000	Canoe / Kayak Launch at River Park Plaza	
ODNR Recreational Trails Program	\$150,000	Southside Mult-Use Trail	
ODOD-CDBG Neighborhood Revit	\$750,000	Crawford St. Ped. Pathway	
	\$975,000	Total	
<i>NOTE: Securing these funding sources are dependent on the removal of the low head dam. We do not want to secure these funds to soon and not meet the grant completion deadline.</i>			

Great Miami River (GMR) Recreation Connectivity Project

Cost Estimate

Flatland Revisions - 9/6/2023

Opinion of Probable Construction Costs - GMR Dam Removal Feasibility Study - 2020

Troy Low-Head Dam - Removal

Updated to include inflation

Item	Unit	Quantity	Unit Cost	Total	Notes
Design/Engineering	LS	1	\$119,479.15	\$119,479.15	11% of construction costs
Permitting	LS	1	\$20,000.00	\$20,000.00	Assumes all permits will be packaged together; includes hydraulic modeling costs
Mobilization	LS	1	\$51,047.50	\$51,047.50	7% of construction costs
Construction Entrance	LS	1	\$15,000.00	\$15,000.00	
In-Stream Structures	LS	3	\$614,250.00	\$614,250.00	3 W Weir / Van Arm @ Treasure Island
Dam Removal	LS	1	\$100,000.00	\$100,000.00	
Construction Oversight	LS	1	\$64,023.80	\$64,023.80	8% of construction costs
			Subtotal	\$983,800.45	
			Contingency:	\$245,950.11	plus/minus 25%
			Inflation (14.2% - July 2026)	\$174,624.58	
			Grand Total:	\$1,404,375.15	

Troy Oxbow Reconnection

Item	Unit	Quantity	Unit Cost	Total	Notes
Design / Engineering	LS	1	\$169,752.15	\$169,752.15	11% of construction costs
Permitting	LS	1	\$15,000.00	\$15,000.00	Assumes all permits will be packaged together; includes hydraulic modeling costs
Mobilization	LS	1	\$72,526.65	\$72,526.65	7% of construction costs
Staging Area/Construction Entrance	LS	1	\$15,000.00	\$15,000.00	
Common Excavation	CYS	5272	\$20.00	\$105,440.00	
Box Culvert	LF	444	\$1,700.00	\$754,800.00	4 box culverts, 34' wide
Borrow	CYS	2666	\$35.00	\$93,310.00	
Subgrade Treatment, Type III	SYS	2000	\$5.50	\$11,000.00	
Compacted #53 Stone Base	TONS	144	\$35.00	\$5,040.00	
HMA Intermediate 3"	TONS	146	\$100.00	\$14,600.00	
HMA Surface 1.5"	TONS	73	\$110.00	\$8,030.00	
Class 1 Stone	TONS	350	\$82.50	\$28,875.00	
Construction Oversight	LS	1	\$89,889.73	\$89,889.73	8% of construction costs
			Subtotal:	\$1,383,263.53	
			Contingency:	\$345,815.88	plus/minus 25%
			Inflation (14.2% - July 2026)	\$245,529.28	
			Grand Total:	\$1,974,608.69	

Troy Levee Toe and Multi-Use Trail

Item	Unit	Quantity	Unit Cost	Total	Notes
Design/Engineering	LS	1	\$106,453.63	\$106,453.63	11% of Construction Costs
Permitting	LS	1	\$25,000.00	\$25,000.00	
Mobilization	LS	1	\$161,508.73	\$161,508.73	7% of Construction Costs
Construction Entrance	LS	4	\$20,000.00	\$80,000.00	
Utility / RR Coordination	LS	1	\$25,000.00	\$25,000.00	Relocation & Permissions from RR
Imported / Add'l Borrow	CYS	27,020	\$30.00	\$810,600.00	add approx 1,900 CYS for ext. trail
Borrow / Bankfull Bench	CYS	31,420	\$30.00	\$942,600.00	assumes dredged material used
Paving Multi-Use Trail					10' W x 3970'L
Common Excavation	CYS	1111	\$15.00	\$16,665.00	Excavation for trail base
Subgrade Treatment, Type III	SYS	5333	\$5.50	\$29,331.50	Length & width of trail
Linear Grading	SYS	5333	\$7.00	\$37,331.00	Rough grading - trail sub-base
Compacted #53 Stone	TON	1333	\$35.00	\$46,655.00	888.8 CYS (*1.4 tons/SYD)
HMA Intermediate 3"	TON	840	\$100.00	\$84,000.00	Base, binder (asphalt)
HMA Surface 1.5"	TON	420	\$110.00	\$46,200.00	Surface layer (asphalt)
Finish Grading	SYS	17777	\$2.00	\$35,554.00	
Seeding	SYS	17777	\$3.00	\$53,331.00	fescue mix (turf)
Bank Stabilization	LS	1	\$100,000.00	\$100,000.00	Erosion Control (new bench)
Construction Oversight	LS	1	\$199,502.10	\$199,502.10	8% of construction costs
			Subtotal:	\$2,799,731.95	
			Contingency:	\$699,932.99	plus/minus 25%
			Inflation (14.2% - July 2026)	\$496,952.42	
			Grand Total:	\$3,996,617.36	

CRAWFORD STREET - TROY, OH
OPINION OF PROBABLE CONSTRUCTION COSTS

ITEM #	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
1	Construction Engineering/Staking	1	LS	\$17,500.00	\$17,500.00
2	Mobilization & Demobilization (7% of Construction Costs)	1	LS	\$76,541.54	\$76,541.54
3	Clearing & Grubbing	1	LS	\$34,900.00	\$34,900.00
4	Excavation & Pavement Removal	1646	CY	\$52.50	\$86,397.72
5	Temp. Erosion Control, Inlet Protection	20	EA.	\$239.40	\$4,788.00
6	Structure Backfill, Type 1	87	CY	\$50.82	\$4,434.89
7	Subgrade Treatment, Type III	3014	SY	\$1.93	\$5,802.15
8	Compacted Aggregate, No. 53	829	TON	\$29.66	\$24,586.63
9	Curb Ramp, incl. Detectable Warning Surface	286	SY	\$220.50	\$63,129.15
10	Concrete Sidewalk	2332	SY	\$73.50	\$171,374.04
11	QC/QA-HMA, 2, 64, Intermediate 19.0mm	80	TON	\$100.00	\$8,000.00
12	QC/QA-HMA, 2, 70, Surface 9.5 mm	54	TON	\$97.65	\$5,237.02
13	Joint Adhesive, Surface	4378	LF	\$0.60	\$2,626.80
14	PCCP for Driveways	158	SY	\$181.65	\$28,617.95
15	Concrete Curb, 6"	4296	LF	\$42.00	\$180,413.10
16	Mulched Seeding, Temporary	202	SY	\$2.26	\$456.43
17	Erosion Control Blanket	202	SY	\$2.97	\$600.48
18	Top Soil	567	CY	\$45.00	\$25,531.87
19	Sodding, Nursery	1227	SY	\$21.00	\$25,776.45
20	Mulched Seeding, U	202	SY	\$1.00	\$202.18
21	Pipe, Type 2, Circular, 12 In.	374	LF	\$76.97	\$28,784.91
22	Water Meter, Adjust to Grade	15	EA.	\$385.00	\$5,775.00
23	Casting Adjust to Grade, Manhole	4	EA.	\$660.45	\$2,641.80
24	Gas Meter, Adjust To Grade	1	EA.	\$341.25	\$341.25
25	Curb Inlet & Casting	20	EA.	\$3,150.00	\$63,000.00
26	Relocate Sheet Sign, Relocate or Reset	12	EA.	\$440.00	\$5,280.00
27	Line, Thermo, Solid, White, 24 in. for Crosswalk	560	LF	\$13.20	\$7,392.00
28	Line, Paint, Solid, Double Yellow, 4 In.	1533	LF	\$1.54	\$2,360.82
29	Temporary Erosion & Sediment Control	1	LS	\$3,000.00	\$3,000.00
30	Utility Relocation	1	LS	\$30,000.00	\$30,000.00
31	Maintaining Traffic	1	LS	\$22,000.00	\$22,000.00

Construction Subtotal \$937,492.18

Contingency (20%) \$187,498.44

Design Services (10%) \$112,499.06

Oversight Services (10%) \$112,499.06

TOTAL COST: \$1,349,988.75



RIVERPARK PLAZA - TROY, OH
OPINION OF PROBABLE CONSTRUCTION COSTS

PHASE 1

ITEM #	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
1	Construction Engineering/Staking	1	LS	\$12,000.00	\$12,000.00
2	Mobilization & Demobilization (7% of Construction Costs)	1	LS	\$49,318.53	\$49,318.53
3	Clearing & Grubbing	1	LS	\$20,000.00	\$20,000.00
4	Excavation & Pavement Removal	1400	CY	\$52.50	\$73,500.00
5	Subgrade Treatment, Type III	3828	SY	\$1.93	\$7,368.04
6	Compacted Aggregate, No. 53	1049	TON	\$29.66	\$31,109.37
7	Concrete Sidewalk, 6"	2800	SY	\$73.50	\$205,800.00
8	HMA for Driveway	216	TON	\$200.00	\$43,176.00
9	Concrete Curb, 20"*	1474	LF	\$125.00	\$184,250.00
10	Limestone Blocks	180	LF	\$200.00	\$36,000.00
11	Silt Fence	1000	LF	\$3.00	\$3,000.00
12	Mulched Seeding, Temporary	6800	SY	\$2.26	\$15,351.00
13	Erosion Control Blanket	6800	SY	\$2.97	\$20,196.00
14	Top Soil	1000	CY	\$40.00	\$40,000.00
15	Mulched Seeding, U	6800	SY	\$1.00	\$6,800.00
16	Maintaining Traffic	1	LS	\$6,000.00	\$6,000.00

*Concrete ribbon seats in levee



Construction Subtotal	\$753,868.94
Contingency (20%)	\$150,773.79
Design Services (10%)	\$90,464.27
Oversight Services (10%)	\$90,464.27
TOTAL COST:	\$1,085,571.28