



# **The Greenway**

**Grand Forks, ND • East Grand Forks, MN**

## **Chapter Five Greenway Development Costs and Sources of Funding**

**May 2001**

# Chapter 5.

## Greenway Development Costs and Funding Sources

The following information provides both typical and site specific cost estimates and budgets for Greenway facility development in Grand Forks, ND and East Grand Forks, MN. A discussion of development costs is followed by a listing of funding resources that should be utilized by both communities to fund both capital construction and operations of the Greenway.

### Greenway Facility Development Costs

The following defines typical costs for greenway facility development and management. These are represented by general estimates for facility development as well as dollar amounts that communities across the nation are spending on greenway program development and management/maintenance/operations.

<b>Vegetation</b>	<b>Unit Cost</b>
Trees (3" caliper)	\$350 each
Shrubs (3 gallon)	\$25 each

\*Costs include plant and installation.

<b>Streambank Stabilization (Bioengineering)</b>	
	\$25-55/lin. foot
	\$40-45/lin. foot avg.

<b>Trail Treads</b>	
4-foot Bare Earth Hiking/Mtn. Bike Trail	\$10,000 per mile
10-foot Aggregate/Stone Trail	\$50,000/mile
14-foot Wood Deck/Boardwalk Trail	\$75 per foot
10-foot Asphalt Multi-Purpose Trail	\$150,000/mile
10-foot Concrete Multi-Purpose Trail	\$300,000/mile

<b>Signage</b>	
Information Signs	\$200 each
Direction Signs	\$200 each
Warning Signs	\$200 each
Mile Markers	\$50 each

<b>Furniture/Furnishings</b>	
Benches	\$600 each
Trash Receptacles	\$100 each
Security Bollards	\$250 each
Bicycle Racks	\$500 each
Fencing (Board-on-Board)	\$20/ lin. foot
Gates	\$750 each
911 Emergency Phones	\$800 each
Prefabricated Steel Bridges	\$1,000/foot

## **Estimate of Development Budget Grand Forks Elements**

Based on the above average costs for typical Greenway facility development, the consultant has developed an estimate of costs for Greenway facility development. These estimates are very preliminary at best and presume a **budget** for use by local officials for future planning, design and development activities. This budget reflects design development decisions that are in accordance with the US Army Corps of Engineers General Reevaluation Report for the Grand Forks and East Grand Forks Flood Protection Project.

### **Riverside Park**

Riverside Park will be leased and managed by the Grand Forks Park District. The Riverside Park Greenway facilities would include: trails, Red River Bridge to East Grand Forks, public parking, public restrooms, signage, picnic tables, picnic grills, trash receptacles, bench seating, public telephone, parking lot lighting, shelters. Improvement to be made by the Park District includes hockey rink, flower beds, playground equipment, frisbee golf, volleyball, and horseshoe pits. A budget for the Park District improvements are defined as \$113,500.

### **Festival Park**

Festival Park will contain new trails, public parking on the dry side of the flood wall, signage, bench seating, trash receptacles, hardscape areas where events can take place. Additionally, the rivers edge throughout the Festival Park area needs to be restored with native vegetation. Some shoreline erosion has taken place as well and this can be repaired using soil bioengineering techniques. The estimated budget for Greenway facility development in Festival Park is \$200,000.

### **Red River Bridge**

As a replacement for the former railroad pedestrian bridge, a new bridge is proposed for development across the Red River between downtown Grand Forks and downtown East Grand Forks. The US Army Corps of Engineers will need to be consulted on the most acceptable design development strategy for this bridge. The estimated budget for this bridge is \$2,000,000.

### **Amphitheater**

The amphitheater is planned to be used for year round events. As such, it will need to have a permanent stage area and permanent seating area for about 500 people. Terraced grass seating for an additional 1000 people can be constructed on the perimeter. The

canvas top for the stage should be designed to be removed and stored for warm weather use. Small structures against the proposed flood protection wall would provide lighting for nighttime events. The estimated budget for amphitheater facility development is \$750,000.

### **Community Green**

The community green should be a fairly simple landscape to construct, consisting of low native rock retaining walls, lawn panels, gateway trees and shrubs, trails, bench seating, nighttime lighting, signage and gateway signage. Much of the landform will need to be reshaped and existing roadway infrastructure removed in order to successfully complete this facility. The existing trail system will be relocated to higher ground. The Community Green will include a Rotary Park of formal gardens and Rotary plaque. Additionally, gateway signs, trees and special pavement treatment on Demers Avenue would take place, a new entrance drive would be developed from former riverfront roads and existing parking lot access road. The existing parking lot should be redesigned and resurfaced. The estimated budget for the Community Green facility is \$470,000 plus an additional \$30,000 from the Rotary Club for the Rotary Park.

### **Central Park**

The Grand Forks Park District will manage the trailhead facility and playground equipment in Central Park. This will be located on the dry side of the levee. Other amenities may include trails, signage, picnic tables, grills, trash receptacles, shelters and public telephones.

### **Park in Old Lincoln Drive Neighborhood**

The area generally bound by Lincoln Drive to Plum Avenue, to Euclid Avenue, to Lanark Avenue will be managed by the Grand Forks Park District. The Park will contain trails, public parking, public restrooms, trail signage, interpretive signage, interpretive spaces (memorial), picnic tables, picnic grills, trash receptacles, public telephone, shelters, parking lot lighting. The Park District improvements include horseshoe pits, volleyball courts, and sledding hill. Additionally, streambank stabilization and reforestation is needed throughout this landscape. The estimated budget for Greenway facility development in this Park is \$500,000.

### **Lincoln Park Golf Course**

This area will be managed by the Grand Forks Park District. Redevelopment of the Lincoln Park Golf Course will reduce the facility from an 18-hole course to a 9-hole course with training center. There will also be a pedestrian bridge located in the general vicinity of Elks Drive area in Grand Forks connecting to East Grand Forks. The portion of land not used for golf will be returned to a natural state and

reforested. Trails will be constructed to link the Greenway facilities north and south of the new course. A budget has been established by the Park District for this project as \$250,000.

### **Grand Forks Nature Center**

The Nature Center would absorb areas formerly known as the Koinonia Center and Sunbeam Park. This Greenway facility may consist of recreational trails, interpretive trails and boardwalks, signage, nighttime lighting, streambank stabilization, reforestation, and an interpretive/education building on the dry side of the levee. The estimated budget for the Nature Center is \$750,000.

### **Trail Facility Development**

Under this budget estimate, approximately 12 miles of multi-use trails are planned for development along the Grand Forks, ND side of the Greenway. In accordance with the US Army Corps of Engineers budget estimates, \$1,479,734 has been budgeted for multi-use trail facility development.

### **Miscellaneous Items**

A number of other development costs have been identified that don't fit into a facility category. These include: Greenway cleanup and removal of roadways, utilities and other debris with a budget estimate of \$1,607,000 and ecological restoration throughout the Greenway at \$100,000. Portions of the utility cleanup can be possibly used as a match to 319 funds for riparian restoration. There are also areas of the Greenway that are being considered for stormwater management.

### **Summary Budget - Grand Forks Greenway**

The total budget for Greenway facility development in Grand Forks, ND, is projected to cost \$11,771,499. There is \$3,880,000 defined as Greenway betterments with additional funding sources identified in the Capital Improvement Program. Additionally, total

Proposed Capital Improvement Program FY 2000-2005 Grand Forks Greenway					
Fiscal Year	Project Description	Estimated Project	Source of Funding	Cost Share	Amount
2000	Greenway Cleanup	\$ 607,000	Dike Funding - Betterment ***	100%	\$ 607,000
2000	Greenway Planning & Design	\$ 100,000	Dike Funding - Betterment ***	100%	\$ 100,000
2000	Riverside Park Pool	\$ 830,000	Dike Funding - Betterment ***	100%	\$ 830,000
2000	Riverside Park Improvements - Hockey rink, flower beds and playground equipment	\$ 47,000	Park District	100%	\$ 47,000
Subtotal		\$ 1,584,000			
2001	Greenway Cleanup	\$ 500,000	Dike Funding - Betterment ***	100%	\$ 500,000
2001	Community Green/Gateway	\$ 500,000	Dike Funding - Betterment *** Private	94% 6%	\$ 470,000 \$ 30,000
2001	USACE Recreation Project (Phase I - Downtown, Lincoln Memorial Park & Elmwood Access)	\$ 574,338	USACE * Dike Funding - USACE Match **	50% 50%	\$ 287,169 \$ 287,169
2001	USACE Trails & Levee Overbuild (Phase II)	\$ 218,287	USACE *	50%	\$ 109,144
2001	Lincoln Memorial Park - Horseshoe and volleyball courts	\$ 10,000	Park District	100%	\$ 10,000
2001	Ecological Restoration	\$ 100,000	EPA Grant	100%	\$ 100,000
Subtotal		\$ 1,902,625			
2002	Greenway Cleanup	\$ 500,000	Dike Funding - Betterment ***	100%	\$ 500,000
2002	Riverside Park - Fibles Golf, Volleyball, Horseshoe courts	\$ 33,250	Park District	100%	\$ 33,250
2002	USACE Recreation Project (Phase I - Downtown, Lincoln Memorial Park & Elmwood Access)	\$ 574,338	USACE * Dike Funding - USACE Match **	50% 50%	\$ 287,169 \$ 287,169
2002	USACE Trails & Levee Overbuild (Phase II)	\$ 218,287	USACE *	50%	\$ 109,144
2002	USACE Recreation Project (Phase II - Lincoln Golf Course & Sunbeam Access)	\$ 117,052	USACE * Dike Funding - USACE Match **	50% 50%	\$ 58,526 \$ 58,526
2002	USACE Trails & Levee Overbuild (Phase III)	\$ 386,975	USACE * Dike Funding - USACE Match **	50% 50%	\$ 193,488 \$ 193,488
2002	Red River Bridge (Downtown)	\$ 1,000,000	Dike Funding - Betterment *** ND DOT - TE Grant TCSP Grant	20% 25% 55%	\$ 200,000 \$ 250,000 \$ 550,000
2002	Lincoln Park Golf Course	\$ 250,000	Park District	100%	\$ 250,000
Subtotal		\$ 3,079,902			
2003	USACE Recreation Project (Phase II - Lincoln Golf Course & Sunbeam Access)	\$ 117,052	USACE * Dike Funding - USACE Match **	50% 50%	\$ 58,526 \$ 58,526
2003	USACE Trails & Levee	\$ 386,975	USACE *	50%	\$ 193,488
2003	USACE Recreation Project	\$ 226,444	USACE *	50%	\$ 113,222
2003	USACE Trails & Levee	\$ 154,526	USACE *	50%	\$ 77,263
2003	Red River Bridge (Lincoln)	\$ 375,822	USACE * Dike Funding - USACE Match **	50% 50%	\$ 187,911 \$ 187,911
2003	Riverside Park Convert Pool	\$ 33,250	Park District	100%	\$ 33,250
2003	CF Nature Area	\$ 750,000	Dike Funding - Betterment *** State of ND USFWS Private	93% 20% 20% 7%	\$ 400,000 \$ 150,000 \$ 150,000 \$ 50,000
Subtotal		\$ 2,044,069			
2004	USACE Recreation Project	\$ 226,444	USACE *	50%	\$ 113,222
2004	USACE Trails & Levee	\$ 154,526	USACE *	50%	\$ 77,263
2004	USACE Recreation Project	\$ 421,465	USACE *	50%	\$ 210,732
2004	USACE Trails & Levee	\$ 264,090	USACE *	50%	\$ 132,045
2004	Red River Bridge (Riverside)	\$ 375,822	USACE * Dike Funding - USACE Match **	50% 50%	\$ 187,911 \$ 187,911
2004	Riverside Low Level Levee	\$ 83,000	Dike Funding - Betterment ***	100%	\$ 83,000
Subtotal		\$ 1,825,347			
2005	USACE Recreation Project	\$ 421,465	USACE *	50%	\$ 210,732
2005	USACE Trails & Levee	\$ 264,090	USACE *	50%	\$ 132,045
2006	Festival Park	\$ 200,000	Dike Funding - Betterment *** Private	20% 80%	\$ 40,000 \$ 160,000
2006	Amphitheater	\$ 750,000	Dike Funding - Betterment *** Private	20% 80%	\$ 150,000 \$ 600,000
Subtotal		\$ 1,635,555			
Total Amount		\$ 11,771,499			
By Source:					
	USACE *	\$ 2,735,000		23.3%	
	Dike Funding - USACE Match **	\$ 2,735,000		23.3%	
	Dike Funding - Betterment ***	\$ 3,860,000		33.0%	
	ND DOT - TE Grant	\$ 250,000		2.1%	
	EPA 319 Grant	\$ 100,000		0.9%	
	TCSP Grant	\$ 550,000		4.7%	
	Park District	\$ 373,500		3.2%	
	State of North Dakota	\$ 150,000		1.3%	
	USFWS	\$ 150,000		1.3%	
	Private Funding	\$ 840,000		7.1%	
		\$ 11,771,499		100.0%	

Figure 30: Costs of Greenway Development by Fiscal Year for Grand Forks, ND. This chart provides an estimate for development costs associated with the facilities that are included in the Greenway in Grand Forks, ND. Use these estimates to establish the appropriate budget for future project development.

**Notes:**

\* These are federal government funds for USACE Recreation Features, cost share is 50/50 federal/local. The costs have been adjusted to include inflation and design/construction engineering.

\*\* These are city funds for the City's 50% local share on USACE Recreation Features.

\*\*\* These are city funds for Greenway work beyond the USACE Recreation Features.

maintenance costs for the first five years of operation of the Greenway is likely to cost \$2,085,950. These budgets are further defined in the following charts (Figures 30 & 32). The first chart (Figure 30) provides a summary of development costs for Greenway facilities by Fiscal Year. The second chart (Figure 32) provides an estimate for maintenance and management costs for the Greenway by fiscal year.

## **Estimate of Development Budget East Grand Forks Elements**

The East Grand Forks Greenway project development budget is divided into two major components: the Red River State Recreation Area and the City of East Grand Forks greenway facilities.

### **Red River State Recreation Area**

The first phase of development for the State Recreation Area includes the planning, development and construction of the Sherlock Park Campground. Phase two plans for the state recreation area includes the development of a regional visitor center focused on fishing, environmental education, interpretation and tourism. The MN DNR is working with the US Fish and Wildlife Service to initiate the Visitor Center portion of the project. The estimated total cost for development of these facilities is \$4.574 million. Figure 31 provides a more detailed breakdown of these costs.

### **City of East Grand Forks Facilities**

The City of Grand Forks will also invest resources in the development of several Greenway facilities. At Griggs Park new athletic fields will be installed. Additionally, new facilities will be developed at Winter Park. These two park projects are estimated to cost \$350,000. A small amphitheater is proposed for development at Sherlock Park, and will cost \$500,000 to develop. Finally, riverfront trails will be installed as shown on the development project maps. The cost for these trails is estimated to cost \$600,000.

### **Summary of Budget - East Grand Forks Greenway**

The total estimated budget for the East Grand Forks portion of Greenway facility development is \$6,024,850. This includes work required of both the State of Minnesota and the City of East Grand Forks. The division of responsibility is as follows: City of East Grand Forks budget \$1,450,000; State of Minnesota budget \$4,574,850.

**Proposed Development and Operation Costs  
East Grand Forks Greenway**

**Red Rive State Recreation Area  
Phase One**

<u>Preliminary Cost Estimate</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
<b>1. Demolition/Removals</b>				
Tree Removal	1	LS	\$ 10,000.00	\$ 10,000.00
Street Removal (MnDNR Share)	1	LS	\$ 50,000.00	\$ 50,000.00
Clearing & Grubbing	1	LS	\$ 15,000.00	\$ 15,000.00
<b>Subtotal</b>				<b>\$ 75,000.00</b>
<b>2. Site Grading</b>				
	1	LS	\$ 100,000.00	\$ 100,000.00
<b>3. Site Paving/Surfacing</b>				
Bituminous road	6300	LF	\$ 50.00	\$ 315,000.00
Gravel lots	1	LS	\$ 25,000.00	\$ 25,000.00
Bituminous parking lot	32	SP	\$ 750.00	\$ 24,000.00
Bituminous trail	30000	LF	\$ 13.00	\$ 390,000.00
<b>Subtotal</b>				<b>\$ 754,000.00</b>
<b>4. Planting and Restoration</b>				
Trees, prairie and turf	1	LS	\$ 200,000.00	\$ 200,000.00
<b>5. Utilities</b>				
Water, electric and sanitary	1	LS	\$ 50,000.00	\$ 50,000.00
<b>6. Walls and Structures</b>				
Visitors Center	7500	SF	\$ 180.00	\$ 1,350,000.00
Visitors Center Exhibits	1	LS	\$ 300,000.00	\$ 300,000.00
Flood Wall Extension	370	LF	\$ 1,000.00	\$ 370,000.00
Maintenance Building	2000	SF	\$ 65.00	\$ 130,000.00
Bathroom buildings & utilities	2000	SF	\$ 140.00	\$ 280,000.00
Vault toilet	7	EA	\$ 8,000.00	\$ 56,000.00
Picnic Shelter	2	EA	\$ 7,000.00	\$ 14,000.00
Pedestrian/bike bridge (creek)	1	EA	\$ 8,000.00	\$ 8,000.00
Pedestrian/bike bridge (river)	1	EA	\$ 80,000.00	\$ 80,000.00
<b>Subtotal</b>				<b>\$ 2,588,000.00</b>
<b>7. Recreation Elements</b>				
Camp site (no electrical)	30	EA	\$ 2,000.00	\$ 60,000.00
Camp site (electrical)	35	EA	\$ 4,000.00	\$ 140,000.00
Group camp/retreat	1	LS	\$ 20,000.00	\$ 20,000.00
Dump Station	1	LS	\$ 10,000.00	\$ 10,000.00
Trail Head	4	LS	\$ 5,000.00	\$ 20,000.00
<b>Subtotal</b>				<b>\$ 250,000.00</b>
<b>8. Site Furnishings</b>				
Picnic Tables	50	EA	\$ 500.00	\$ 25,000.00
Grills	20	EA	\$ 150.00	\$ 3,000.00
Trash Receptacles	30	EA	\$ 300.00	\$ 9,000.00
Signs (entry, trail, directional)	1	LS	\$ 20,000.00	\$ 20,000.00
Drinking fountains	5	EA	\$ 600.00	\$ 3,000.00
<b>Subtotal</b>				<b>\$ 60,000.00</b>
<b>9. Miscellaneous</b>				
Design and Engineering Fees	1	LS	\$ 280,000.00	\$ 280,000.00
<b>Subtotal All Items</b>				<b>\$ 4,357,000.00</b>
5% contingency				\$ 217,850.00
<b>GRAND TOTAL</b>				<b>\$ 4,574,850.00</b>

*Figure 31: Costs of Greenway Development for East Grand Forks, MN. This chart provides an estimate for development costs associated with the facilities that are included in the East Grand Forks Greenway. Use these estimates to establish the appropriate budget for future project development. (Source: City of East Grand Forks, MN)*



## Facility Maintenance Costs

The following maintenance costs are provided as a guide to establishing a budget for the operation, maintenance and management of each trail segment within the greenway system. These costs are derived from national industry averages and have not been adjusted to reflect unique labor, material and cost issues within Grand Forks or East Grand Forks. Figure 32 defines an annual maintenance and operations budget for the Grand Forks, ND portion of the Greenway. The City of East Grand Forks, MN has developed a sample maintenance and management budget (pages 68 & 69) to guide future operations.

It may be possible to lower the cost of maintaining one mile of paved trail through the development of an Adopt-a-Greenway Program. Volunteers have been proven effective in performing some of the routine maintenance activities that are listed below. Savings of 50% of the estimated cost per mile defined below are possible through a coordinated and well run Adopt-a-Greenway Program, and some of these costs are already being covered along highways, roads and parks and other areas.

### Typical Maintenance Costs

(For a 1-Mile Paved Trail)

Drainage and storm channel maintenance (4 x/year)	\$500.00
Sweeping/blowing debris off trail tread (20 x/year)	\$1,200.00
Pick-up and removal of trash (20 x/year)	\$1,200.00
Weed control & vegetation mgmt (10 x/year)	\$1,000.00
Mowing of 3-ft grass safe zone (20 x/year)	\$1,200.00
Minor repairs to trail furniture/safety features	\$500.00
Maintenance supplies for work crews	\$300.00
Equipment fuel and repairs	<u>\$600.00</u>
Total Maintenance Costs Per Mile of Paved Trail	\$6,500.00

Re-Surfacing of Paved Trail Tread (20 year cycle) \$50,000/mile

Please also refer to the East Grand Forks Greenway Plan for further information on the State of Minnesota's proposed Red River Recreation Area Maintenance and Operation Costs and partnership agreements.

<b>Flood Protection and Greenway Maintenance FY 2000 to 2005</b>						
<u>Fiscal Year</u>	<u>Maintenance Task</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Costs</u>	<u>Estimated Costs</u>	
2000	Greenway Mowing* (Mostly Downtown)	75	acres	\$ 300	\$	22,500
	GF Nature Center	1	job	\$ 15,000	\$	15,000
	Greenway Trail Maintenance	3	miles	\$ 6,500	\$	19,500
	Greenway Tree Maintenance	1	job	\$ 20,000	\$	20,000
	Greenway Snow Removal (Trails)	3	miles	\$ 1,000	\$	3,000
	Subtotal					\$
2001	Greenway Mowing	100	acres	\$ 300	\$	30,000
	GF Nature Center	1	job	\$ 15,000	\$	15,000
	Greenway Trail Maintenance	5	miles	\$ 6,500	\$	32,500
	Greenway Tree Maintenance	1	job	\$ 21,250	\$	21,250
	Greenway Snow Removal (Trails)	5	miles	\$ 1,000	\$	5,000
	Subtotal					\$
2002	Flood Protection Project Maintenance	1	job	\$121,906	\$	121,906
	Greenway Mowing	125	acres	\$ 300	\$	37,500
	GF Nature Center	1	job	\$ 15,000	\$	15,000
	Greenway Trail Maintenance	7	miles	\$ 6,500	\$	45,500
	Greenway Tree Maintenance	1	job	\$ 22,531	\$	22,531
	Greenway Snow Removal (Trails)	7	miles	\$ 1,000	\$	7,000
Subtotal					\$	249,437
2003	Flood Protection Project Maintenance	1	job	\$243,813	\$	243,813
	Greenway Mowing	150	acres	\$ 300	\$	45,000
	GF Nature Center	1	job	\$ 15,000	\$	15,000
	Greenway Trail Maintenance	10	miles	\$ 6,500	\$	65,000
	Greenway Tree Maintenance	1	job	\$ 23,845	\$	23,845
	Greenway Snow Removal (Trails)	10	miles	\$ 1,000	\$	10,000
Subtotal					\$	402,658
2004	Flood Protection Project Maintenance	1	job	\$365,719	\$	365,719
	Greenway Mowing	175	acres	\$ 300	\$	52,500
	GF Nature Center	1	job	\$ 15,000	\$	15,000
	Greenway Trail Maintenance	12	miles	\$ 6,500	\$	78,000
	Greenway Tree Maintenance	1	job	\$ 25,191	\$	25,191
	Greenway Snow Removal (Trails)	12	miles	\$ 1,000	\$	12,000
Subtotal					\$	548,410
2005	Flood Protection Project Maintenance	1	job	\$487,625	\$	487,625
	Greenway Mowing	200	acres	\$ 300	\$	60,000
	GF Nature Center	1	job	\$ 15,000	\$	15,000
	Greenway Trail Maintenance	15	miles	\$ 6,500	\$	97,500
	Greenway Tree Maintenance	1	job	\$ 26,570	\$	26,570
	Greenway Snow Removal (Trails)	15	miles	\$ 1,000	\$	15,000
Subtotal					\$	701,695
<b>Totals 5 Years</b>	<b>Flood Protection Project Maintenance</b>				\$	<b>1,219,063</b>
	<b>Greenway Mowing</b>				\$	<b>247,500</b>
	<b>GF Nature Center</b>				\$	<b>90,000</b>
	<b>Greenway Trail Maintenance</b>				\$	<b>338,000</b>
	<b>Greenway Tree Maintenance</b>				\$	<b>139,387</b>
	<b>Greenway Snow Removal</b>				\$	<b>52,000</b>
					\$	<b>2,085,950</b>
	<i>*Does not include Park District Lands</i>					
	<b>Source of Revenue for Greenway Maintenance</b>					
	City of Grand Forks				\$	<b>1,219,063</b>
	Greenway Trust Fund				\$	<b>866,887</b>
	Total Sources				\$	<b>2,085,950</b>

Figure 32: Costs for Maintenance of Greenway by Fiscal Year for Grand Forks, ND. This chart provides an estimate for costs associated with maintenance of Greenway and Flood Protection facilities that are included in the Greenway in Grand Forks, ND. Use these estimates to establish the appropriate budget for future maintenance and management activities. (Source: Greenways Incorporated)

## East Grand Forks - Sample Operating Budget

The City of East Grand Forks has prepared a Sample Operating Budget for the purpose of guiding future decisions for the maintenance and management of the Greenway segments in East Grand Forks, MN. The budget is divided into four areas: staffing costs, operating costs, vehicle costs and start-up costs. It is assumed that the personnel listed below would be in addition to the existing personnel that presently are employed by the City of East Grand Forks. These personnel could be employees of the State of Minnesota under the State Recreation Area proposal. The costs associated with operating, vehicles and start-up are also in addition to existing resources of East Grand Forks, and would be included in the State Recreation Area proposal.

### Staffing Costs

Position	Annual Costs
One Full-time Park Manager III	\$64,000
One Assistant Park Manager II	\$58,000
One Full-time Naturalist	\$35,000
One Full-time Large Rivers Specialist	\$50,000
One Seasonal Parks Worker	\$21,000
One Full-time Building/Grounds Worker	\$35,000
One Seasonal Enforcement Officer	\$12,500
One Seasonal Visitor Center Host	\$12,000
Two Student Interns	\$12,000

### Operating Costs

Item	Annual Costs
Emergency flood clean-up	\$10,000
Supplies-maintenance	\$7,000
Utilities-gas/electric/water/phone	\$7,000
Supplies-office	\$5,000
Programming support/supplies	\$10,000
Equipment replacement	\$3,000
Miscellaneous items	\$10,000
Public outreach displays/brochures	\$3,000
Fish displays	\$5,000
Headquarters operations	\$3,500

**Vehicle Costs**

Sample list of vehicles

Jeep Cherokee (or equivalent)	
Two Chevy 1/2T 4x4 (or equivalent)	
Dodge W-250 Pickup (or equivalent)	
Polaris Longtrack Snowmobile (or equivalent)	
JD AMT 622 (or equivalent)	
Cushman Mower (or equivalent)	
Tractor	
Annual Costs	\$26,100

**Start-up Costs**

Small equipment budget	\$5,000
Office/Shop furnishings	\$14,000
Lab Furnishings	\$4,000

## Public Funding Sources

Raising funds for the development of Greenway facilities will be one of the most challenging aspects of this project. The following defines some of the funding sources that should be tapped for future facility development.

### **Federal**

Several federal programs offer financial aid for projects that aim to improve community infrastructure, transportation, housing, and recreation programs. Some of the federal programs that can be used to fund greenways include:

#### **US Army Corps of Engineers**

One of the primary funding sources for basic Greenway facility development. COE funding for the Greenway will come from Flood Control Project funds, recreation component related to the FCP, at the rate of 50% federal share and 50% local match. Funds are available for recreation trail facility development, landscape improvements including trees, turf, levee walls, shrubs, ecosystem restoration and some limited structures.

#### **Transportation Equity Act for the 21st Century (TEA21)**

A primary source of federal funding for greenways is through the Transportation Equity Act of 1998 (TEA21), formerly the Intermodal Surface Transportation Efficiency Act (ISTEA). ISTEA provided millions of dollars in funding for bicycle and pedestrian transportation projects across the country and will provide millions more as TEA21.

There are many sections of TEA21 that support the development of bicycle and pedestrian transportation corridors. North Dakota currently administers the TEA21 program for on-road and off-road bicycle and pedestrian transportation facilities using the following funding formula - 81/19. Minnesota administers the TEA21 program under the following formula - 80/20. TEA21 funds may be 100% federally funded or the local match can be donations of labor or materials. Projects must be programmed by the MPO. The following divisions of the TEA21 program can be accessed to support Greenway facility development.

#### **Surface Transportation Program (STP) funds**

These funds can be used for bicycle and pedestrian facility construction or non-construction projects such as brochures, public service announcements, and route maps. The projects must be

related to bicycle and pedestrian transportation and must be part of the Long Range Transportation Plan. These funds are programmed by the Metropolitan Planning Organization (MPO) in the Transportation Improvement Program.

### **Transportation Enhancements Program**

The Transportation Enhancements (TE) program is the most popular source of funds for Greenway trail development. Enhancements provides a 10% set aside of the total Surface Transportation Program (STP). The enhancements program has been divided into several subsets under TEA21. TE funds can be used as a match for other federal funding sources.

### **Recreational Trails Program**

A component of TEA21, the Recreational Trails Program (Symms Act) is a funding source to assist with the development of non-motorized and motorized trails. The Program uses funds paid into the Highway Trust Fund from fees on non-highway recreation fuel used by off-road vehicles and camping equipment. This money can be spent on the acquisition of easements and fee simple title to property, trail development, construction and maintenance. Project amounts vary by state, with most ranging from \$2,000 to \$30,000.

Through state agencies, a total of \$45 million per year is available to private and public sector organizations. Projects are 80 percent federally funded, and grant recipients must provide a 20 percent match. Federal agency project sponsors or other federal programs may provide additional federal share up to 95 percent. Local matches can be in the form of donations of services, materials or land. Projects funded must be consistent with the Statewide Comprehensive Outdoor Recreation Plan.

### **Community Development Block Grant Program**

The U.S. Department of Housing and Urban Development (HUD) offers financial grants to communities for neighborhood revitalization, economic development, and improvements to community facilities and services, especially in low and moderate-income areas. This could be an excellent source of funding for Greenway facility development in the downtown areas of Grand Forks and East Grand Forks.

### **US Fish and Wildlife Service**

The US Fish and Wildlife Service can contribute money or assist with programming of environmental education activities within the Greenway.

## **Land and Water Conservation Fund (LWCF) Grants**

This federal funding source was established in 1965 to provide park and recreation opportunities to residents throughout the United States. Money for the fund comes from the sale or lease of nonrenewable resources, primarily federal offshore oil and gas leases and surplus federal land sales. LWCF funds are used by federal agencies to acquire additions to National Parks, Forests, and Wildlife Refuges. In the past, Congress has also appropriated LWCF moneys for so-called “state-side” projects. These “state-side” LWCF grants can be used by communities to acquire and build a variety of park and recreation facilities, including trails and greenways.

“State-side” LWCF funds are annually distributed by the National Park Service through the Minnesota Department of Natural Resources and the North Dakota State Parks. Communities must match LWCF grants with 50 percent of the local project costs through in-kind services or cash. All projects funded by LWCF grants must be used exclusively for recreation purposes, in perpetuity. Funding for this program has not been available for several years, although funds could be allocated in the future.

## **Watershed Protection and Flood Prevention (Small Watersheds) Grants**

The USDA Natural Resource Conservation Service (NRCS) provides funding to state and local agencies or nonprofit organizations authorized to carry out, maintain and operate watershed improvements involving less than 250,000 acres. The NRCS provides financial and technical assistance to eligible projects to improve watershed protection, flood prevention, sedimentation control, public water-based fish and wildlife enhancements, and recreation planning. The NRCS requires a 50 percent local match for public recreation, and fish and wildlife projects.

## **EPA 319 NonPoint Source Implementation Grants**

Funds are provided to States to carry out nonpoint source projects and programs pursuant to Section 319 of the Clean Water Act as amended by the Water Quality Act of 1987. Under Section 319 (h), funds awarded for implementing States' nonpoint source management programs remain available for obligation by the State for the Federal fiscal year in which they are awarded and for the subsequent fiscal year. Other requirements under Section 319 (h) include: Nonfederal matching funds of at least 40 percent of project costs (except for tribal grants where financial hardship is demonstrated); maintenance of effort; proceeds of State grants may be used for financial assistance to individual persons in the case of demonstration projects only; limit on administrative costs; annual

reporting; and EPA determinations of adequate State progress before additional funding. Funding may be used only to support implementation of EPA-approved State nonpoint source management programs, as opposed to development of new programs or plans. Currently applicable EPA guidance issued on May 16, 1996, identifies the process and schedule funding.

### **EPA Sustainable Development Challenge Grants**

To (1) catalyze community-based and regional projects and other actions that promote sustainable development, thereby improving environmental quality and economic prosperity; (2) leverage significant private and public investments to enhance environmental quality by enabling community sustainability efforts to continue past EPA funding; (3) build partnerships that increase a community's long-term capacity to protect the environment through sustainable development; and (4) enhance EPA's ability to provide assistance to communities and promote sustainable development, through lessons.

### **Conservation Reserve Program**

The U. S. Department of Agriculture, through its Agricultural Stabilization and Conservation Service, provides payments to farm owners and operators to place highly erodible or environmentally sensitive landscapes into a 10-15 year conservation contract. The participant, in return for annual payments during this period, agrees to implement a conservation plan approved by the local conservation district for converting these sensitive lands to a less intensive use. Individuals, associations, corporations, estates, trusts, cities, counties and other entities are eligible for this program. This program can be used to fund the maintenance of open space and non-public use greenways along water bodies and ridge lines.

### **Wetlands Reserve Program**

The Department of Agriculture also provides direct payments to private landowners who agree to place sensitive wetlands under permanent easements. This program can be used to fund the protection of open space and greenways within riparian corridors.

### **FEMA Hazard Mitigation Grant Program**

The Federal Emergency Management Agency (FEMA) provides grants to state and local governments for implementing long-term hazard mitigation measures following a major disaster declaration. Eligible projects include the acquisition and relocation of repetitive flood structures. Such lands, once acquired, can be converted into greenways for flood mitigation purposes. A 25 percent local match is required. All applications must be submitted no later than 90 days following FEMA's approval of the State Hazard Mitigation plan.



## **FEMA Flood Mitigation Assistance**

This FEMA program provides funds to states and communities to help reduce the long-term risk of flood damage to structures. Eligible projects include acquisition and relocation of insured structures. Grantees must participate in the National Flood Insurance Program and a 25 percent local match is required. The total amount of Flood Mitigation Assistance Grants provided during any 5-year period cannot exceed \$10 million to any state or \$3.3 million to any community.

## **Conservation Contracts**

The USDA Farm Service Agency can forgive debt from Farm Loan Program loans in exchange for conservation contracts on environmentally sensitive portions of a borrower's property. Contracts can be set up for conservation, recreational and wildlife purposes on farm property, including properties adjacent to streams and rivers. Interested individual borrowers should contact their local Farm Service Agency office to apply.

## **State Resources**

Both North Dakota and Minnesota have provided significant funds for flood recovery, including Greenway project development.

### **Minnesota Department of Natural Resources**

Minnesota DNR has a booklet entitled "Financial Assistance Directory" which identifies more than twenty (20) local government programs. Many of these programs can be used to fund Greenway facility development in East Grand Forks.

### **Legislative Commission on Minnesota**

The Legislative Commission funds environmental recreation and historic resource projects throughout the State.

### **North Dakota Game and Fish Department**

This agency can provide 70/30 funding to support the development of trails, piers and fishery areas. The agency has also used its own "private lands" program to supplement federal sources. The agency's OWLS program - Outdoor Wildlife Learning Service, could be used to provide educational opportunities for local "students."

### **Minnesota State Parks**

If the Minnesota State Legislature establishes the proposed Red River State Recreation Area, millions of dollars of development and operations funding could be provided to the Greenway in East Grand Forks.

### **North Dakota State Parks**

Limited funding may be available from the North Dakota State Parks program.

### **Minnesota State Forests**

Minnesota DNR has available a 50 percent state/50 percent local match program for urban trail planting, inventory of forest cover and insect and disease control.

### **North Dakota State Forests**

Currently, \$1.6 million has been provided to fund restoration for northern riverine landscapes in North Dakota. This money could be used to support the installation of trees and other vegetation in the Greenway.

### **Minnesota Pollution Control**

### **North Dakota State Health**

These agencies might be of assistance in stabilization and restoration of the riverine landscape within the Greenway. They might also participate in a limited manner with trail facility development.

### **Local Resources**

Most local resources are currently tapped out due to the impact that flood recovery has had on the communities. The local cost share for federal grants must be raised to support Greenway facility development.

## Private Funding Sources

Many communities have solicited greenway funding from a variety of private foundations, corporations, and other conservation-minded benefactors. As a general rule, local foundations and businesses will have a greater interest in and be more likely to fund local projects. These local sources should be approached first, before seeking funds outside the community.

### Local Foundations

Local foundations and charitable organizations can serve to support Greenway facility development.

### Local Businesses

Local industries and private businesses might agree to provide support for development of the Greenway in Grand Forks and East Grand Forks through:

- donations of cash to a specific greenway segment;
- donations of services by corporations to reduce the cost of greenway implementation, including equipment and labor to construct and install elements of a trail;
- reductions in the cost of materials purchased from local businesses which support greenway implementation and can supply essential products for facility development.

This method of raising funds requires a great deal of cooperation and coordination.

### Trail Sponsors

A sponsorship program for trail amenities allows for smaller donations to be received both from individuals and businesses. The program must be well planned and organized, with design standards and associated costs established for each amenity. Project elements which may be funded can include wayside exhibits, benches, trash receptacles, entry signage, and picnic areas. Usually, plaques recognizing the individual contributors are placed on the constructed amenities or at a prominent entry point to the trail.

### Friends of the Greenway

East Grand Forks and Grand Forks citizens have banded together to establish a Friends of the Greenway organization. One of the goals of the Friends group will be to raise funds for the development and operation of the Greenway within both communities.

## **Volunteer Work**

Community volunteers may help with trail construction, as well as fund raising. Potential sources of volunteer labor in Grand Forks and East Grand Forks could include local bicyclists, local historical groups, neighborhood associations, local churches, conservation groups, school groups, and local civic clubs.

A good example of a volunteer greenway program is Cheyenne, Wyoming, which generated an impressive amount of community support and volunteer work. The program has the unusual problem of having to insist that volunteers wait to begin landscaping trails until construction is completed. A manual for greenway volunteers was developed in 1994 to guide and regulate volunteer work. The manual includes a description of appropriate volunteer efforts, request forms, waiver and release forms, and a completion form (volunteers are asked to summarize their accomplishments). Written guidelines are also provided for volunteer work in 100-year floodplains. To better organize volunteer activity, Cheyenne developed an "Adopt-a-Spot" program. Participants who adopt a segment of trail are responsible for periodic trash pick-up, but can also install landscaping, prune trail-side vegetation, develop wildlife enhancement projects, and install site amenities. All improvements must be consistent with the Greenway Development Plan and must be approved by the local Greenway Coordinator. Adopt-a-Spot volunteers are allowed to display their names on a small sign along the adopted section of greenway.

## **"Buy-a-Foot" Programs**

"Buy-a-Foot" programs have been successful in raising funds and awareness for trail and greenway projects across the country. Under local initiatives, citizens are encouraged to purchase one linear foot of the greenway by donating the cost of construction. An excellent example of a successful endeavor is the High Point, North Carolina's Greenway "Buy-a-Foot" campaign, in which linear greenway "feet" were sold at a cost of \$25 per foot. Those who donated were given a greenway T-shirt and a certificate. This project provided an estimated \$5,000 in funds.

## **American Greenways DuPont Awards**

The Conservation Fund's American Greenways Program has teamed with the DuPont Corporation and the National Geographic Society to award small grants (\$250 to \$2,000) to stimulate the planning, design and development of greenways. These grants can be used for activities such as mapping, conducting ecological assessments, surveying land, holding conferences, developing brochures, producing interpretive displays, incorporating land trusts,

building trails, and other creative projects. Grants cannot be used for academic research, institutional support, lobbying or political activities. For more information, contact the Conservation Fund at (703) 525-6300.

### **REI Environmental Grants**

REI (Recreational Equipment Incorporated) awards grants to organizations in protecting and enhancing natural resources for outdoor recreation. Grants of up to \$2,000 are available through this program and can be used for:

1. Preservation of wildlands and open space;
2. Advocacy-oriented education for the general public on conservation issues;
3. Building the membership base of a conservation organization;
4. Direct citizen action (lobbying) campaigns for public land and water recreation issues; and
5. Projects that serve to organize a trail constituency or enhance the effectiveness of a trail organization's work as an advocate.

Grants cannot be used for trail construction and maintenance. For more information, call REI's Grantline at (253) 395-7100.