## **EMERALD RIBBONS**

#### **OVERVIEW**

Loudoun County residents have indicated a very strong desire for more passive linear parks and trails as evidenced in various surveys, forums and other forms of public input. However, capital constraints, high land prices and other priorities have made fulfillment of this goal difficult. The County's inventory of public parkland and accessible trails falls far short of County standards and far short of the levels achieved by other communities.

Loudoun is rich in natural landscapes, stream corridors, agricultural land and historic features that reach most parts of the County. Stream corridors, including floodplains, provide important ecosystem services such as natural habitats, flood management and drinking water protection. They are generally not developable land and could be the foundation of an affordable, interconnected and widely accessible system of linear parks and trails throughout Loudoun County.

#### WHAT

- A county-wide, multi-use, natural surface trail system located along stream and other nature corridors encompassing currently existing parks, trails, bike routes and mass transportation nodes.
- Natural areas for residents to exercise, walk, jog, hike, cycle, mountain bike, nature-watch, and horseback ride
- Safe, alternative, non-motorized transportation routes to destinations such as places of employment, education facilities, commercial establishments, and recreation locations
- Protected natural areas that are not suitable for development and contribute to the County's water and air quality, wildlife habitat, and natural scenery.

#### **WHERE**

A shared network of greenways throughout Loudoun County. (See Map on page 8:)

#### WHY

- 1. <u>Loudoun County residents expressed strong desire for more trails and natural areas to use for</u> recreational activities, school and work trips and improving health and well-being.
- Open spaces and nature corridors are rapidly disappearing in Loudoun due to increased and rapid development.
- The wonder of nature and trees can produce mental, emotional, and physical health benefits.
   Research has shown that time in natural environments lowers blood pressure, pulse rate, and cortisol level, improves mood and may even boost our immunity to cancer and other diseases.
- The creation and development of this county-wide Emerald Ribbons network would bring the
  County together as one community. Various groups (HOA's, Non-profits, and County Government)
  would work together to define the type of routes and facilities that would be needed in each
  Supervisor's District to allow more social interaction and build out a social infrastructure, as
  opposed to just more roads and more housing.
- The first Envision Loudoun public input session on rewriting the County's Comprehensive Plan had
   962 comments mentioning the environment. The most mentioned of these comments called for more trails, bike paths and parks. Our residents want to bike, hike, watch nature, dog walk, run, jog,

- train, share the environment with their children, and otherwise just get out in the outdoors and destress from their daily lives.
- Loudoun comprises 521 square miles, yet only 1.6% of this is public parkland. Loudoun has only 87 miles of hiking trails, which does not meet County standard of 0.65 miles/1000 population or ~226 miles for our current population of 400,000. Loudoun has tremendous assets, but little or no access to these assets.

#### 2. Parks and Trails come with a multitude of community benefits:

#### - Increased economic development:

- Large companies seek areas with parks and trails:
  - Ruby Tuesday CEO located their corporate headquarters along the Maryville-Alcoa Greenway in Tennessee in part because it, "...provided a sense of community to this area, as well as the many benefits it provides to our more than 300 employees."
  - "The greenways are increasingly recognized as an important regional amenity, supporting redevelopment opportunities, attracting new businesses, aiding in employee and student recruitment, while encouraging housing construction, festivals, outfitters and tourism growth." (Source: 2018 Roanoke Valley Greenway Plan)

#### Increased property value

 Properties within ¼ mile of the Radnor Trail in PA were valued at almost \$70,000 more than properties farther away. Listings in this community frequently mention trail access as an amenity. (Source: *The Economic Benefits of Land Conservation*, TPL, 2007)

#### - Increased safety on corridors

Chief Charles Tennant on Youghiogheny River Trail in PA: "...the trail has not caused any increase in the amount of crimes reported...We have found that the trail brings in so many people that it has actually led to a decrease in problems we formally encountered such as underage drinking..."

#### - Improved physical and mental health and wellness

Rates of obesity and diabetes are significantly lower in highly walkable neighborhoods.
 (Source: May, 2016 JAMA Vol 315, Number 20)

#### - Increased tourism economic impact

Three Rivers Heritage Trail 2014 User Survey and Economic Impact Analysis found that in 2014 this Pittsburgh trail received roughly 622,873 visits resulting in an economic impact of \$8,286,026. 75.5% of users were city residents, 15.5% lived in the county outside of Pittsburgh and 9% came from further away.

(Source: https://conservationtools.org/guides/97-economic-benefits-of-trails)

#### Protection of natural and historical resources

"Protecting environmental corridors through establishing and managing greenways represents one method (to be used in conjunction with other approaches) to safeguard vital ecological processes." – Jonathan M. Labaree, Author of How Greenways Work, A Handbook on Ecology

#### - Connection to the natural world and an support for conservation

"Appalachian Trail visionary, Benton MacKaye, had the desire that Trail would offer an experience that joined humans and nature. Today, the A.T. connects rural communities and working farms and forest; squeezes through rapidly developing regions; and provides the

foundation for world-class outdoor recreation and tourism opportunities." (Source: https://appalachiantrail.org/home/conservation/landscape-protection)

#### **WHO**

Community members, local government, private, and non-profit support and partnerships are all critical to the long-term success of Emerald Ribbons. A private-public partnership approach would ensure County financial support as well as private funding for the development of a long term plan (20 years) to implement these Ribbons throughout the County.

It is envisioned that a core team of designated county staff and grant-funded, non-profit organization staff would shepherd the process forward. This core team would then work with various county public and private organizations to build strong community support for the concept. Such organizations may include:

- Park authority staff from the various jurisdictions within county borders including the National Park Service (NPS), State Parks of VA (DCR), Norther Virginia Regional Park Authority (NOVA Parks) and Loudoun County Parks, Recreation and Community Services (PRCS).
- Trails Organizations: Bike Loudoun, Potomac Heritage Trail Association, Loudoun Equine Alliance
- Non-profits that are focused on the natural environments: Piedmont Environmental
  Council (PEC), Loudoun Wildlife Conservancy, Friends of Banshee Reeks, Banshee Reeks
  Chapter of the Archeological Society of Virginia, Blue Ridge Center for Environmental
  Stewardship, Blue Ridge Mountain Civic Association, Friends of Bluemont, Friends of Claude
  Moore Park, Friends of the Blue Ridge Mountains, Goose Creek Association, Loudoun
  Watershed Watch, Piedmont Chapter, Virginia Native Plant Society, Sustainable Loudoun,
  Catoctin Creek Scenic River Advisory Committee, Goose Creek Scenic River Advisory
  Committee, Land Trust of Virginia, 350 Loudoun, Leesburg Garden Club, Loudoun
  Committee for a Sustainable Society, Catoctin Coalition
- National, Regional, State and Community Foundations and Corporations. Various funding sources that could help us move this project forward include: State and Federal Grants via DOT and DCR, Nature Conservancy, Loudoun Community Foundation, National Park Service (FLAP Grants), etc.
- Organizations focused on heritage and historical assets: Aldie Heritage Association, George
  C. Marshall Center at Dodona Manor, Goose Creek Historic District, Lincoln Community
  League, Lincoln Preservation Foundation, Loudoun Archaeological Foundation, Friends of
  the Mt. Zion Cemetery, Loudoun County Civil War Round Table, Loudoun Heritage
  Consortium, Loudoun Heritage Farm Museum, Loudoun Preservation Society, Lovettsville
  Historical Society, Mosby Heritage Area Association, Oatlands Historic House & Gardens,
  Citizens Committee for the Cavalry Battles of Aldie, Middleburg, and Upperville, Save Old
  Sterling, Save Rural Loudoun, Short Hill Historical Society, Snickersville Turnpike Association,

Sterling Historical and Heritage Preservation Committee, Unison Preservation Society, Waterford Citizens Association, Waterford Foundation, Save Rural Loudoun, Short Hill Historical Society, Snickersville Turnpike Association, Sterling Historical and Heritage Preservation Committee, Unison Preservation Society, Waterford Citizens Association, Waterford Foundation, Purcellville Historical Society, Journey Through Hallowed Ground

Individual volunteers and residents.

#### WHEN

This multi-year effort, consistent with the County's 2040 Comprehensive Plan would be driven by an overall strategic and implementation plan as described below. The plan would be developed in the first 2 years (2019-2020) and then implementation would occur over the 20-year plan duration. Early focus would start in the more densely populated eastern side of the County.

#### HOW

Developing a County wide system of linear parks and trails in Loudoun will require access to existing trails and suitable land on numerous private properties, HOA land and commercial areas. The experience in Loudoun, as in many other locations, is that gaining such access requires patient, flexible and creative approaches that build confidence and accommodate to individual circumstances. The objective is a system created through a combination of willing landowners, a coalition of public and private organizations and a supportive community.

In doing our exploration of other's experience we have looked into numerous relevant programs, including those in Charlottesville, Va, in Concord Township, Pa, in neighboring Counties of Fairfax and Prince William, and even more locally with the Sugarland Run HOA and with the Journey Through Hallowed Ground. And, we have had good conversations with NOVA Parks and with the Loudoun PROS Board.

The main lessons from all this is that there are a very wide variety of clever and creative techniques and instruments used to gain access to and work with private land and landowners - short- and long-term leases, acquisitions, easements, maintenance agreements, small area plans, purchases, proffers, indemnification programs and others. A flexible tool box is critical, but not sufficient. (See References Section on pages 7 & 8 for links to many descriptions of these tools and examples of other jurisdictions' success)

The heart of the matter seems to be the process used to develop the plan - that is - to mount a focused and funded program to build widespread enthusiasm for the overall idea, work closely with the community to design the system and develop the plan, join public and private sector organizations together into a coalition in support of the overall idea, recognize that there are a wide variety of sometimes competing objectives, regulations and alternatives to consider, so allow lots of flexibility and custom design for individual segments, landowners and communities and, most of all, be very clear that the whole process involves collaboration with individual private owners and their voluntary decisions to join with others.

It is very much a patient, bottoms-up and outside-in approach. Each township, HOA or private landowner may want to be an early adopter and join or may want to wait and see. This is a long game -

but having an overall architecture in mind allows us to add individual pieces as various stakeholders and citizen groups are ready to join.

The process we prefer is the one adopted by Charlottesville for their in-town park and trail program. It includes community outreach and interaction to get the design that the community wants by building a coalition of public and private organizational supporters. A core team (including both privately funded staff and a publicly funded county staff member) would lead the whole design and planning effort. The Charlotte core team has brought the entire community together as they work to create this new asset and has helped heal the wounds from the disputes over public monuments.

The following sections describe the steps and organization we see as appropriate in Loudoun to build the needed community support and manage the complex process of planning and designing our Emerald Ribbons system.

#### **Key Deliverables:**

#### Phase 1: Inventory of all parks and trails

Map the 87 miles of county trails, along with all shared-use paths, sidewalks, parks, community centers, and other points of interests that people frequent.

# <u>Phase 2: Ensure Emerald Ribbons is included in Comprehensive Plan and other ordinances, rules, and zoning.</u>

Including the Countywide Park and Trail Plan in the Comprehensive Plan recognizes its importance and provides the needed authority to execute the planning and implementation of the trail network.

- Location of a trail route in the plan becomes the guidance and / or enforcement tool when a land parcel is proposed for development along that trail route
- Land developers can be required to design and build the trails and parks that appear on the Emerald Ribbons Plan when they prepare Site Plans for development and gain their site development permits
- Developers with land parcels proposed for new land uses through the rezoning process will have more motivation to offer to build park trails if a trail route is shown in the vicinity of a project.

#### **Phase 3: Needs Assessment Survey**

The Envision Loudoun public input session revealed that residents want more parks and trails. An additional detailed Needs Assessment Survey will dive deeper into residents' opinions on: location, types of trails, types of parks, support (volunteering, donating), safety, concerns, etc.

#### **Phase 4: Community Outreach**

Insight from community is integral to determining how parks and trails are planned, developed, and managed.

- Input from a variety of park and trail users (ie. trail running, equestrian, multi-use, biking)
- Consider impacts and relationships to adjoining properties and facilities
- Coordinate with HOA boards

- Create and send survey/voting ballot to all members of HOA communities to determine the true view of the majority of residents
- Work with champion board members who support public parks and trails
- Connect HOAs with those who support public parks and trails
- o Address concerns, questions, and needs of community
- o Create a vision and plan based on public input

#### Phase 5: Linear Park and Trail Development Strategic Plans

Created by each district with the intent of coinciding with the Emerald Ribbons Countywide Parks and Trails Plan. Internal document that will examine the issues surrounding park development, collect and analyze the relevant data concerning park and trail projects, and devise the best process for objectively evaluating and prioritizing projects.

- <u>Determining Costs:</u> Determine a rough estimate of the cost of the project by averaging the cost of Loudoun County park and trail projects within a specified timeframe and determine per mile or per 100' costs. Project costs should include design, permitting, construction, administration, and auxiliary park items. Include additional costs, such as bridges, if applicable.
- <u>Funding:</u> A variety of funding venues exist
  - Bond referenda The County presents a bond referendum for park acquisition and improvement to the citizens for their consideration.
  - Grants To supplement bond funds; opportunities exist with private, non-profit, and government agencies
  - Donations Land, monetary donations, and volunteer time
  - Proffers During rezoning process, proffers may be offered by individual developers to provide amenities in parks nearby or within new development.
     Parks may be built with proffered funds designated for trails or with funds that are only specified for a park or area.
- <u>Prioritization:</u> Select projects that hold the greatest potential with the leave development impact and least maintenance requirements
- Sustainability: Design considers ease of maintenance

### **Phase 6: Implementation**

Implemented by each district with the intent of coinciding with the Emerald Ribbons Countywide Plan. An overseeing agency, such as NOVA parks, can ensure alignment with the Plan.

## REFERENCES

Issue	Reference Document(s)	Website Links
Other jurisdictions that	Fairfax County VA Comprehensive Plan,	Fairfax VA County Parks
have embraced community	Parks Section;	Dept.
and streambed greenway	Fairfax County VA Stream Valley Policy	
parks	Summary;	
	Fairfax County VA Parks Master Plan;	
		Thomas Jefferson
		Planning District
	Rivanna River Corridor Plan, Albemarle	Commission Pages
	County, VA	
	Charlottesville Tomorrow Article on local	Greenways Project
	Trails Plan effort	Overview, PEC
		Prince George's County
	Prince George's MD Trails Master Plan	Trails Page
		Concord Open Space Map
	Concord PA Open Space and Recreation	<u>Page</u>
	<u>Plan</u>	
		<u>Ulster County Pages</u>
	<u>Ulster County NY Open Space Plan</u> ;	
		Portland Oregon Planning
	5 11 1000 5 11	and Sustainability Dept.
	Portland OR Greenway Trail	<u>Pages</u>
	Charleston Rail Line Linear Park	Low Country Low Line
	Charleston Nan Eine Einear Fark	LOW COUNTY LOW LINE
	City of Boulder's 2011 Greenways Master	
	Plan	
Transferring private land (ie	Matthew Olhausen, Conservation	Hastings Environmental
in floodplains) to public	Easements for Green Urban Spaces, from	<u>Law Journal</u>
park land, including	Hastings Environmental Law Journal.	
incentives and regulatory		
approaches, and trail	Guidance for Local Floodplain Ordinances	"Scaling Up: Integrating
easements	in VA; VA Dept. of Conservation and	Green Infrastructure into
	Recreation Dam Safety and Floodplain	Existing Processes"
	Program; October, 2011	Green Infrastructure Tool
		Kit from Georgetown Law
	Public Access Policies and Practices for	
	<u>Land Trusts</u>	
		American Trails
	Reducing Liability Associated with Public	Association Funding and
	Access	Planning Resources

	Trail Easement Guide PA Land Trust	
	Trail Easement Guide PA Land Trust	-
		Conservationtools.org.
	Multi-Municipal Partnerships for Parks	<u>Website</u>
	from PA Land Trust	
Proven Safety within Trails	Rail-Trails and Safe Communities: The	Rails to Trails
and Parks	Experience on 372 Trails	
Increased Property Values	Measuring Trails Benefits: Property	
more about 1 opens, 1 and 2	Values	
	<u>varaes</u>	
	The Relative Impacts of Trails and	
	-	
1	Greenbelts on Home Price	He He to F a Con
Improved Employee		How Having Fun Can
Productivity		Boost Employee
		<u>Productivity</u>
		Get Outside! How Nature
		Enhances Work
		<u>Productivity</u>
Natural Environment and	"Best practices for balancing the	<u>Headwaters</u>
<b>Drinking Water Protection</b>	needs for clean drinking water,	Economics.org website
	recreation, and economic	
	development in municipal	
	watersheds."	
Health Banefits for County		Numbersing Hoolthy
Health Benefits for County	"Hiking Trails in America: Pathways to	Nurturing Healthy
Residents	<u>Health"</u>	<u>Neighborhoods</u>
	<b>***</b>	Article in National
	"Nature Play Nurturing Children and	Institute for Health
	Strengthening Conservation Through	Newsletter
	Connections to the Land" PA Land Trust	
	Association	National Trails Health
		Benefits from NPS
	Improving Public Health through Public	
	Parks and Trails - Eight Common	
	Measures	
		American Trails Page on
	Measuring Trails Benefits:	DHS,
	Public Health	
Detailed Zenius and	Portland OP Croonway Zaning Decument	Dortland Orogan Dlanning
Detailed Zoning and	Portland OR Greenway Zoning Document	Portland Oregon Planning
Ordinance References in		and Sustainability Dept.
support of Greenways and		<u>Pages</u>
linear parks		

