



CITY OF ROANOKE, VIRGINIA

RSTP Funds Application

FOR

**Tinker Creek Trail Extension from Wise Avenue to
Orange Avenue**

Date: September 15, 2014

RSTP Project Profile – Candidate Project

Please limit overall application to a maximum of 5 pages (11 pt. font 1.5 spacing) – supporting materials such as a previous study or aerial photography may be submitted as an addendum and not subject to 5 pages maximum.

1. Project Sponsor(s): City of Roanoke, Virginia
2. Proposed Implementing Agency: City of Roanoke, Virginia
3. Project Description and Attached Aerial Showing Proposed Improvement Location:
Tinker Creek Extension from Wise Avenue to Orange Avenue
4. Detailed Scope of Work, proposed Schedule and Relation to Other Projects or Project Phases, Project Status, and Other Funding Sources: (attach document if extra space is needed – please refer to overall application limit noted above)

Attachment A: Project Description, Scope of Work, and Aerial Location Map

Attachment B: Schedule and Relation to Other Projects and Project Phases

Items 5-9 Pertain to Highway Projects:

5. Functional Classification:
Off-road shared use facility
6. Existing Traffic Volume and Level of Service with Improvement:
n/a
7. Existing Volume/Capacity:
8. Future Traffic Volume or Projected Ridership with Service Implementation:
9. Future Volume/Capacity and Level of Service:
10. Estimated Project Cost by Phase (Preliminary Engineering, Right-of-Way (including utilities) and Construction (including administration): (attach a detailed cost estimate and/or budget to support your application)
PE: \$200,000
R/W: \$20,000
CN: \$1,000,000

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Task by Project Development Phase	Project Cost	
PRELIMINARY ENGINEERING PHASE		
Engineering/Design Fees	\$	150,000.00
Environmental Document	\$	20,000.00
Surveying	\$	30,000.00
Estimated VDOT Review Charges	\$	-
PE Phase TOTAL COSTS	\$	200,000.00
RIGHT OF WAY PHASE		
Right of Way Purchase	\$	20,000.00
Utility Relocation	\$	-
RW Phase TOTAL COSTS	\$	20,000.00
CONSTRUCTION PHASE		
Mobilization	\$	50,000.00
Grading	\$	30,000.00
Drainage/SWM/E&S	\$	100,000.00
Concrete	\$	100,000.00
Paving	\$	200,000.00
Bridge	\$	500,000.00
Work Area Protection	\$	20,000.00
Base Bid TOTAL COSTS	\$	1,000,000.00
TOTAL COSTS (PE, RW, & CN)	\$	1,220,000.00

Tinker Creek Extension from Wise Ave, SE to Orange Ave, NE

RSTP Candidate Project Rating Factors

A. Regional Project Consideration

The proposed project is an extension of the Tinker Creek Greenway Trail that services SE Roanoke, City of Vinton, and East Roanoke County. The intent is for the trail, which currently ends at Wise Ave, SE, to extend to Orange Ave, NE. This is a 4000 lf extension and would be a critical interconnection between SE and NE Roanoke. Tinker Creek currently connects to the Roanoke River Greenway. The proposal would provide access to the Roanoke River Greenway from the NE quadrant. This extension is a continuation of the vision for the region for an interconnected greenway system that runs from Green Hill Park in Roanoke County, through the Cities of Salem and Roanoke, the Town of Vinton, to the Blue Ridge Parkway and Explore Park.

B. Support the Economic Vitality of the Metropolitan Area

The connection between communities encourages economic vitality. Studies have consistently shown that greenway systems attract businesses, enhance the health of a community and its citizenry, produce an economic boost and make a community more livable. Orange Avenue in NE Roanoke is heavily concentrated in commercial development. This multimodal connection to the area promotes alternative modes of travel to these commercial destinations. Likewise, the connection from the NE promotes exploration of markets, cultural centers, and entertainment in SE Roanoke, Vinton, and points beyond.

C. Increase the Safety and Security of the Transportation System

A trail would provide for a safe, alternative mode of travel to the passenger vehicle and open up a larger market to the area for access to employment, services, and cultural centers. For lower income areas, like those along the Tinker Creek Greenway, often non-motorized transportation is the solution to mobility and access to employment and commercial areas. The proposal is an off road trail that minimizes conflicts with surface transportation and provides a short and direct route between destinations.

D. Increase the Accessibility and Mobility Options Available to People and/or Freight

The Regions Greenways are fully accessible and the proposed improvements will be designed to adhere to 2010 ADA Standards for Accessible Design.

E. Protect and Enhance the Environment, Promote Energy Conservation, and Improve Quality of Life

Promoting walking and bicycling as an alternative mode of travel to the passenger vehicle enhances the environment by reducing green house gas emissions. Energy is conserved by reducing the development demands to roadways and streets. Improved safety, accessibility, and access via development of lower impact greenways and trails promotes conservation of the environment and improves health and quality of life.

F. Enhance the Integration and Connectivity of the Transportation System, Across and Between Modes, for People and/or Freight

The City of Roanoke has plans to continue Tinker Creek into Downtown Roanoke along Campbell Avenue with extension of the Tinker Creek Trail from Wise Avenue to Orange Avenue. Interconnection of the trail network with these major surface streets and employment centers enhances connectivity between multiple modes of transportation. The Glade Creek Trail System is currently under construction by the Town of Vinton and will be connected with Tinker Creek. These improvements all serve to enhance accesibility to public transit and between modes of travel available along the limits of the Greenway network with interconnections to surface streets, communities, and commercial centers.

G. Promote Efficient System Management and Operation

With interconnection and integration of the region's network of greenways and trails patrolling, landscape management, and improved accesss overall management and operation of the trail network.provides management of these trails is improved. For operators of these trails, lower volumes and reduced speeds on off road bicycle and pedestrian paths encourage use while reducing conflicts and potential for major injury.

H. Emphasize the Preservation of Existing Transportation System

Existing transportation facilities are preserved in this plan. Concurrent phased improvements with connection to Downtown Roanoke via Campbell Avenue and Glade Creek Trail in the Town of Vinton enhances the function of the Tinker Creek Trail interconnecting communities, commerce, and promoting multiple modes of travel via a safe and separated facility.

I. Cost/Benefit Consideration

The proposed bicycle and pedestrian greenway trail is a more low impact and cost effective connection solution to the alternative improvements to existing roadways and bridges. Widening existing roadways for multi-modal accommodation is costly and not as desirable as a separated facility which accommodates safer speeds and direct routes for bicycles and pedestrians. The proposed bicycle and pedestrian extension from Wise Avenue to Orange Avenue provides our citizens a safe, quick and affordable access to the extensive network of greenway trails already running through the region and will also provide an alternative mode of transportation to the goods and services they need.

J. Projects included in previous plans that had a public input process associated with the plan.

With fund allocation, the City intends to meet with the public early on in the development of plans for this improvement to receive comments and gain concurrence. Two compatible projects are early in the planning stages at the City of Roanoke and the Town of Vinton. In one, the City intends to extend the Tinker Creek Greenway via Campbell Avenue into Downtown. In a joint participation between the Town of Vinton and City of Roanoke a pedestrian bridge is proposed to interconnect Glade Creek and Tinker Creek at the confluence of these waterways.

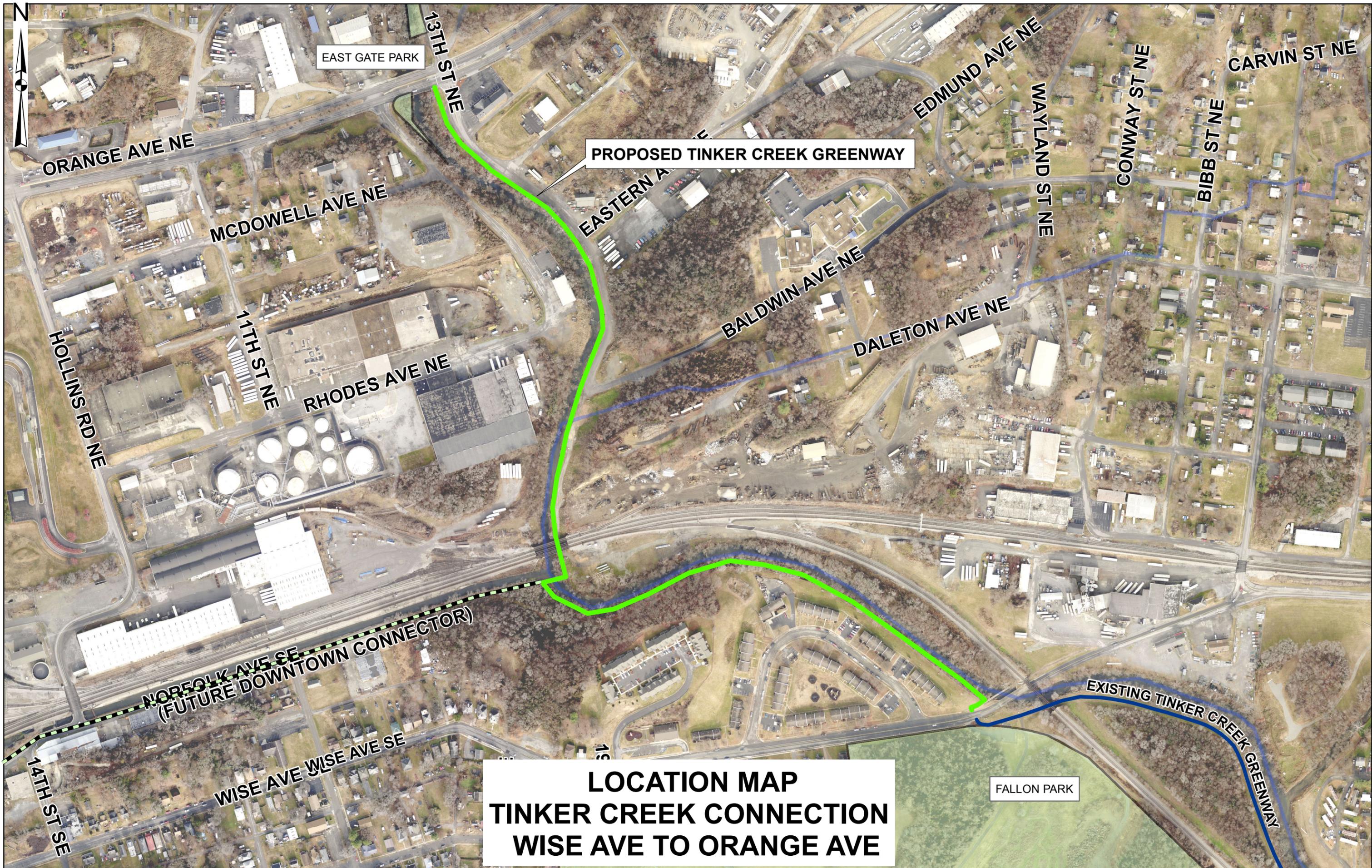
Attachment A – Location and Scope of Work

Tinker Creek Trail Extension for Wise Ave, SE to Orange Ave, NE

Project Location: The proposed extension to the existing Tinker Creek Trail would provide for a 10' wide asphalt bicycle and pedestrian shared use trail from Fallon Park, located near Wise Avenue, to East Gate Park at the intersection of 13th St, NE and Orange Avenue. This trail connection parallels Tinker Creek and would serve to extend the existing 2.5 mile trail an additional 4000 feet to Orange Avenue.

Project Description: The Tinker Creek Bicycle and Pedestrian trail consists of construction of a 10' wide asphalt trail and installation of one 12' wide bicycle pedestrian bridge. The extension would provide connection between the NE quadrant of the City and the established network of greenways in the SE, including connection to the existing Roanoke River Greenway.

Scope of Work: The proposed facility is a 10 foot wide bicycle and pedestrian shared use path and 12' wide bridge that will comply with AASHTO's Guide for the Development of Bicycle Facilities and the 2010 ADA Standards for Accessible Design. Project scope includes all earthwork and grading necessary for trail construction in addition to storm drain improvements and a pedestrian bridge crossing. Possible additional stormwater management facilities may also be a requirement for development.



EAST GATE PARK

PROPOSED TINKER CREEK GREENWAY

FALLON PARK

**LOCATION MAP
TINKER CREEK CONNECTION
WISE AVE TO ORANGE AVE**

Attachment B – Schedule and Other Project Phases

Project Request Location: Tinker Creek Extension from Wise Avenue to Orange Avenue

Schedule:

Project Engineering: July 2015 to July 2016

Project Advertisement: July 2016

Begin Construction: September 2016

End Construction: September 2017

Other Project Phases:

Tinker Creek/Glade Creek Bridge - \$500,000 (Joint Participation with the City of Vinton)

Schedule:

Project Engineering: July 2015 to January 2016

Project Advertisement: February 2016

Begin Construction: April 2016

End Construction: July 2016

Campbell Avenue Streetscape Improvements from Tinker Creek Trail to Williamson Road, Downtown Roanoke

Schedule:

Project Engineering: July 2015 to July 2016

ROW Acquisition: January 2016 to July 2016

Project Advertisement: July 2016

Begin Construction: September 2016

End Construction: September 2017



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September 15, 2014

Roanoke Valley Area Metropolitan Planning Organization and
Transportation Technical Committee
P.O. Box 2569
Roanoke, VA 24010

Dear Members of the MPO and TTC:

The Roanoke Valley Greenway Commission reviewed RSTP applications at its August 27 meeting and would like to express its support for the City of Roanoke's application to extend Tinker Creek Greenway from Wise Avenue to Orange Avenue.

In the Greenway Plan, Roanoke River is the number one priority, and the number two priorities are the greenways that connect to it. Tinker Creek Greenway is the top one of those priorities, as it would extend all the way from Roanoke River to Carvins Cove and Botetourt County. The first section of Tinker Creek Greenway from the river to Wise Avenue opened in 2002. Now that the bridge to Roanoke River Greenway is built, this route is receiving increasing use. Extension northward is the next priority. Orange Avenue plans include a separated grade crossing, and the RCIT businesses are requesting the extension. Completion of this section would substantially improve the bicycle/pedestrian connections in the northeast quadrant.

We appreciate the support of the MPO in funding Roanoke River Greenway and look forward to its completion. Thank you for your consideration of this next important greenway.

Sincerely,

Bob Blankenship, Chairman
Roanoke Valley Greenway Commission