Grindstone Creek Trail Summary

- \$1.57 million budget (appr \$1.4 million balance)
 - 2010 Park Sales Tax
 - Included in Council Resolution
 & ballot promotions that voters approved in November 2010.
- Included in lease with MDC on Waters-Moss Wildlife Area
- Only recreational trail in this portion of city that provides connection to an estimated:
 - 5,000 residents
 - 3,000 jobs
 - Battle High School

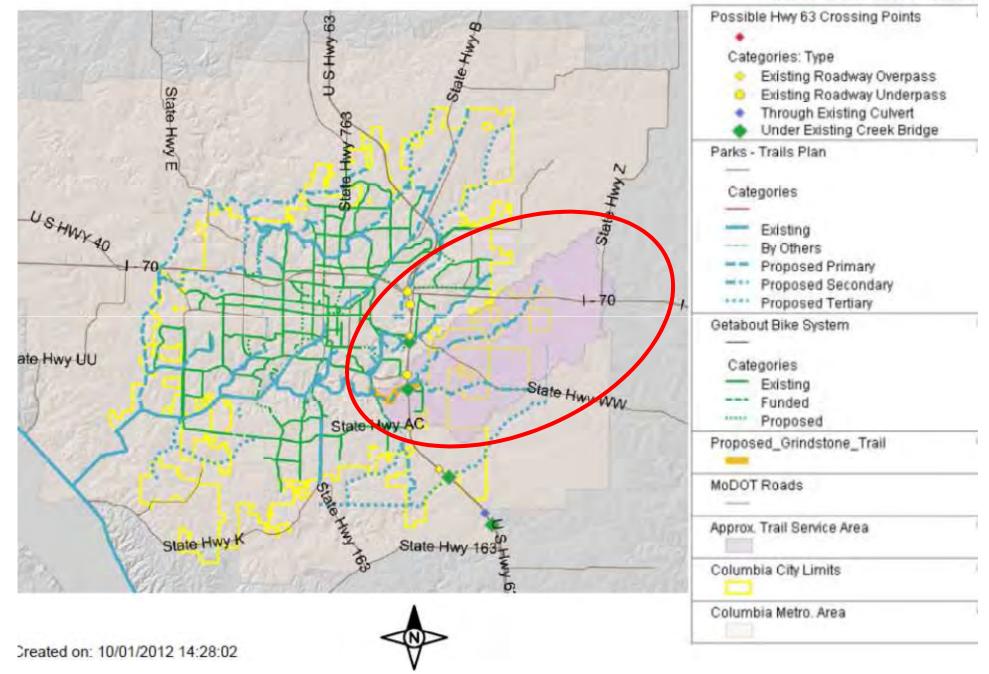
CITY OF COLUMBIA

5. What projects will be funded by the 2010 Park Sales Tax, if Proposition 1 is approved by voters? After collecting public input, the City Council passed a resolution at the August 16, 2010 Council Meeting authorizing the 2010 Park Sales Tax funds, if Proposition 1 is passed, to be used for the following projects

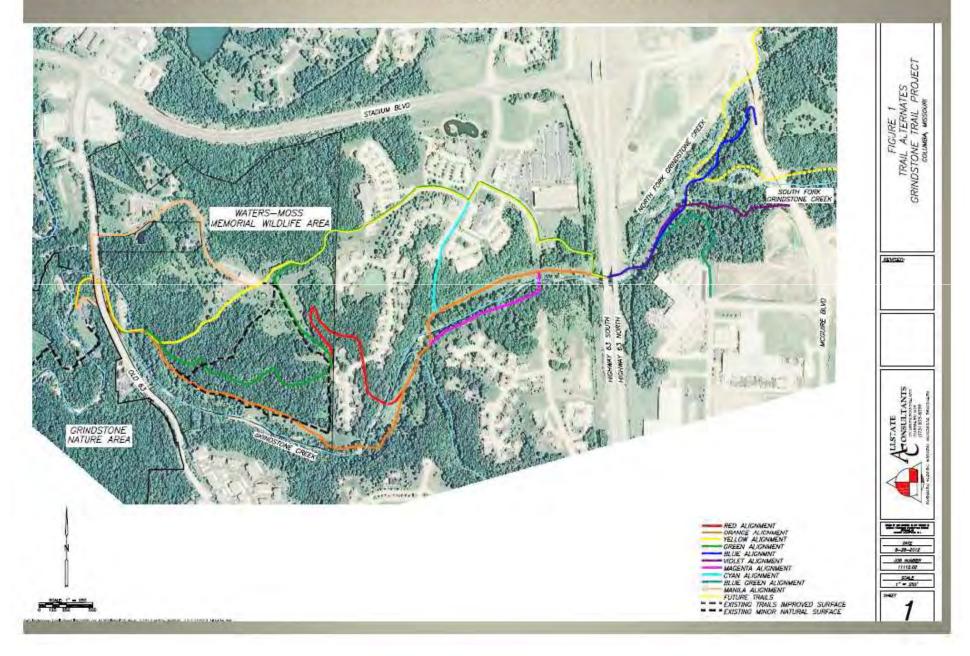
PROJECT DESCRIPTION	PROJECT	AMOUNT
Acquisition/Land Preservation		\$2.025.000
Acquire Land for community parks, greenbelts, green space,		
wildlife corridors, and natural area preservation	\$1,525,000	
Acquire land for new neighborhood parks		
(an amount up to)	\$500,000	
Improvements to Existing Parks		\$4.765.000
Annual Roads and Parking Improvements	\$750,000	
Annual Joint City/School Playground Projects	\$125,000	
Annual Park Improvement Major Maintenance	\$600,000	
Albert-Oakland Park - New Restroom	\$125,000	
Albert-Oakland Park - Athletic Field Renovations	\$150,000	
Armory Renovation - Activity/Meeting Room Flooring	\$75,000	
Atkins Park Phase II - Restrooms, Concessions, Field	\$850,000	
Cosmo-Bethel Park - Light Tennis Courts, Trail	\$150,000	
Cosmo Park - Football/Lacrosse Field Improvements	\$150,000	
Cosmo Park - New Restroom Soccer/Football Fields	\$125,000	
Cosmo Park - Steinberg Playground Renovation	\$500,000	
Douglass Park - Playground Renovation, Fitness Stations	\$100,000	
Downtown Optimist Park Renovation	\$50,000	
Fairview Park - Shelter Replacement, Playground, Parking	\$175,000	
Nifong Park - Maplewood Barn, Parking	\$200,000	
Shepard Boulevard Tennis Court Renovation	\$75,000	
Trail Restroom Improvements Carth, Crindstone, MLK	\$315,000	
Twin Lakes Recreation Area Improvements	\$250,000	
Trails and Greenbelts		\$2,070,000
Grindstone Trail Development - Grindstone Nature Area to		\$2,010,000
Confluence	\$1,570,000	
Annual Trail Improvements - Major Maintenance	\$500,000	
	\$300,000	and a loss
New Facility/Park Development		\$2,540,000
Barberry Neighborhood Park	\$125,000	
Jay Dix Neighborhood Park	\$125,000	
Strawn Road Neighborhood Park	\$125,000	
Gans Creek Rec Area/Philips Park - Phase I	\$1,750,000	
Norma Sutherland Smith Park - Phase I	\$250,000	
Waters-Moss Park - Phase I	\$165,000	
Contingency		\$600,000
TOTAL 5 YEAR PARK SALES TAX PROJECTS		\$12,000,000
TOTAL 5 YEAR PARK SALES TAX PROJECTS For more information on the Park Sales Tax - its purpose, histor www.GoColumbiaMo.com	y, and past project	

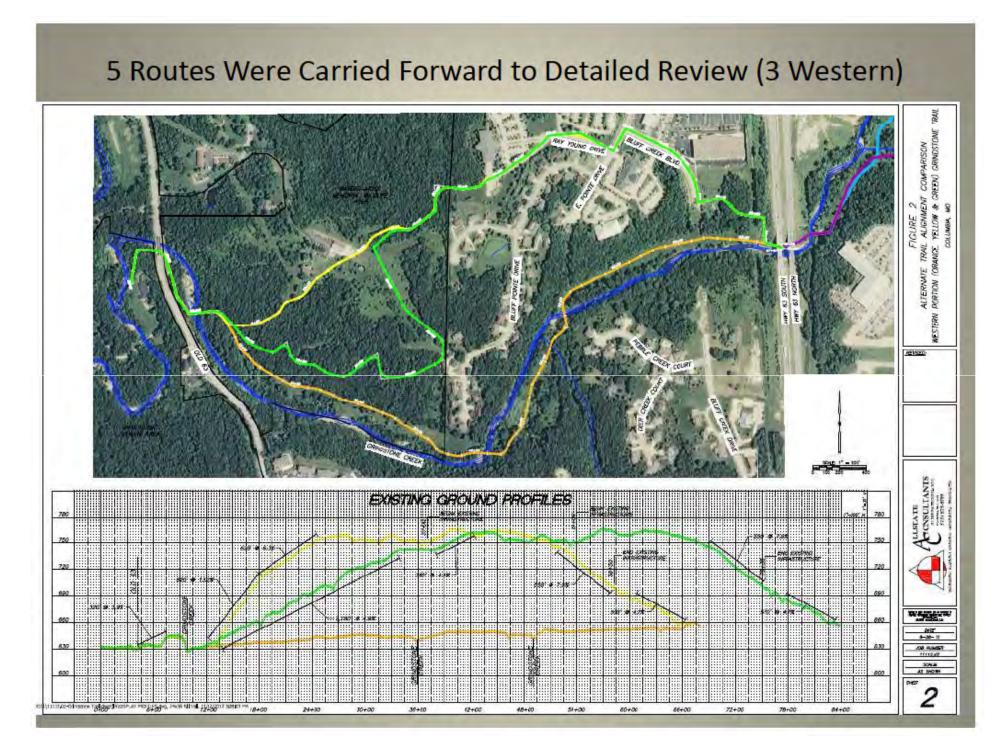
irindstone Trail Service Area

MAPWINDOW

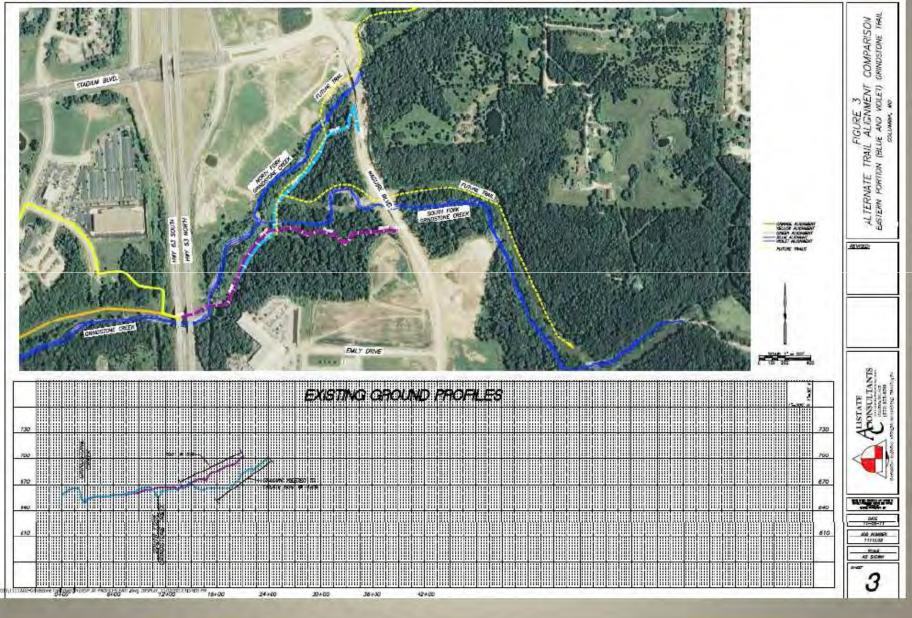


10 Separate Routes were Originally Considered





5 Routes Were Carried Forward to Detailed Review (2 Eastern)

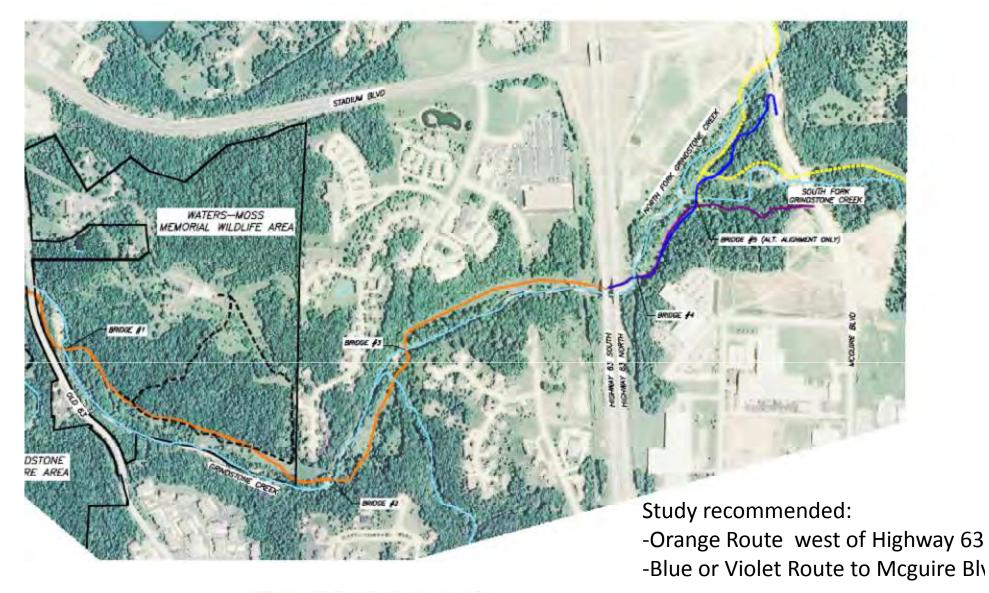


Alternates Were Evaluated for:

- Impacts on adjacent properties
- Impacts on specific destinations
- Impacts relative to trail users in adjacent neighborhoods
- Terrain
- Public safety
- Environment and sustainability
- Maintenance and operations
- Initial construction costs

Engineering Study Recommendations

- West Side Orange Alignment
 - Safest
 - Most accessible to the full range of users
 - Most likely to encourage regular use
- East Side Blue alignment recommended due to a slight advantage in long term costs, but Violet alignment is acceptable because it has lower initial costs.
 - Each provides connection to the North and South Fork of the Grindstone Creek

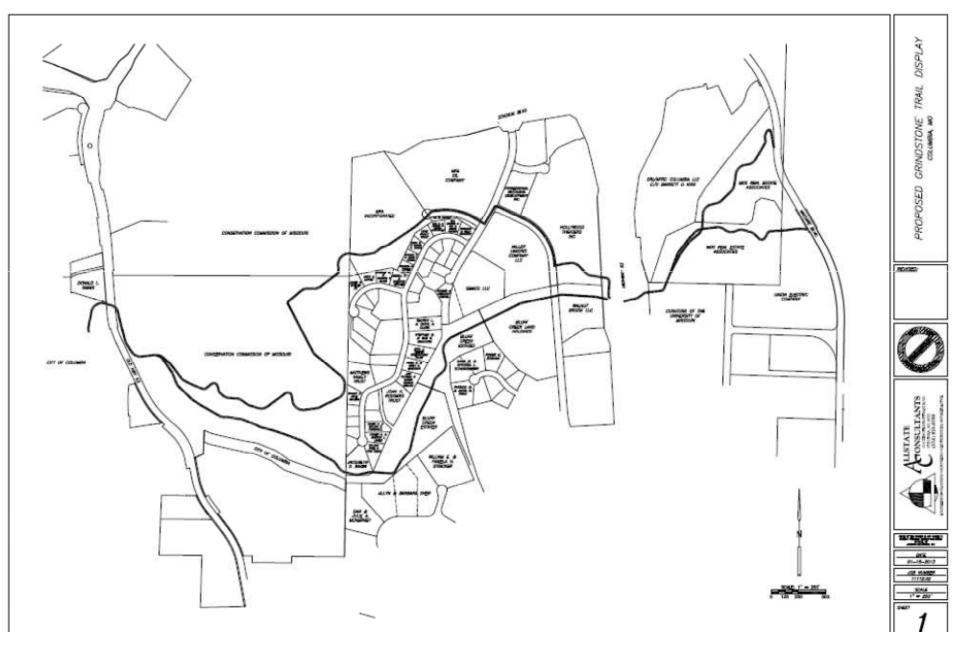


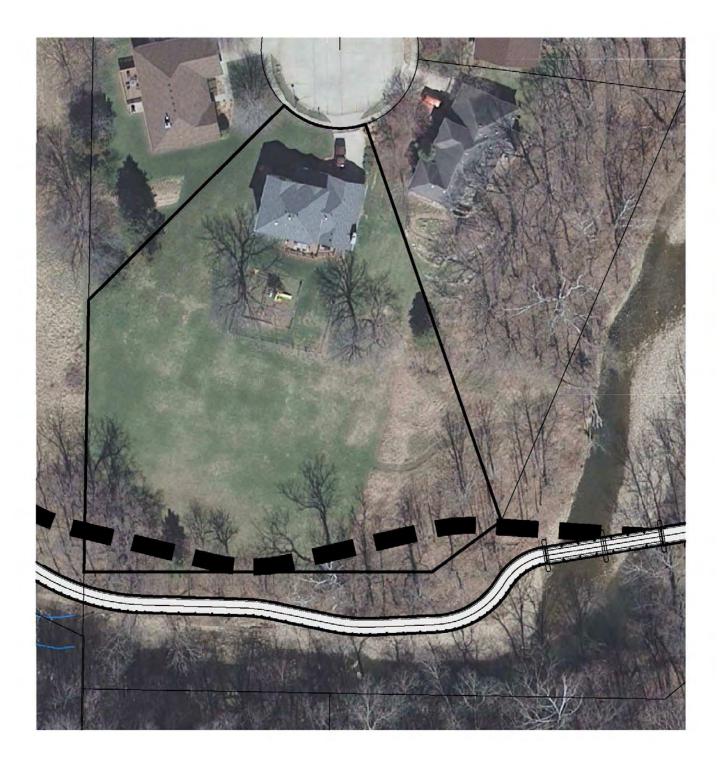


- WOLET ALICHMENT (PROPOSED ALIGNMENT)
- BLUE ALIGNMENT (PROPOSED ALTERNATE TO THE VIOLET ALIGNMENT IF ADDITIONAL FUNDING BECOMES AVAILABLE)
- FUTURE THATS
- -- -- EXISTING TRAILS IMPROVED SURFACE
- - EXISTING MINOR NATURAL SURFACE

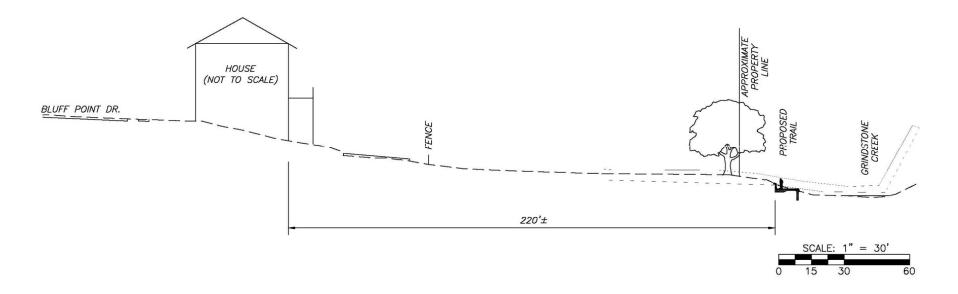


Original recommended route was on City, Homeowner Association Common Land, MoDOT ROW, MU, Business & Private Properties



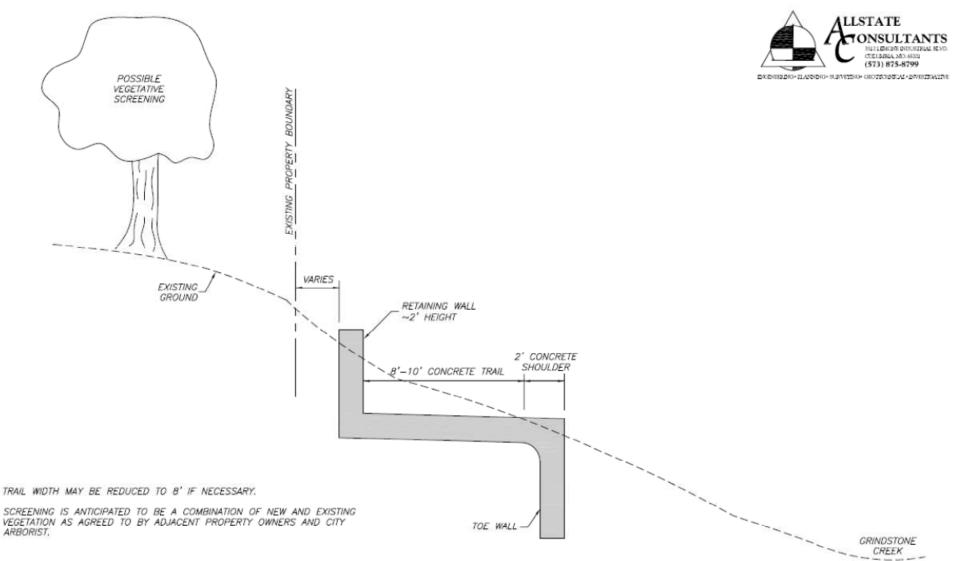


TYPICAL CROSS SECTION THROUGH CREEK, TRAIL, AND RESIDENTIAL LOT



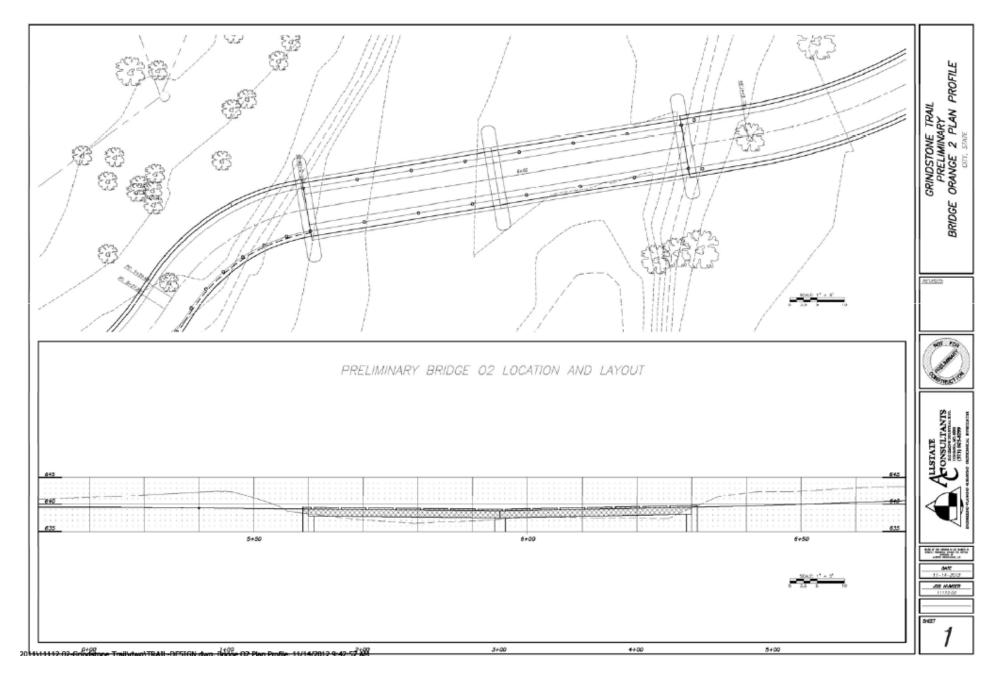
Trail is approximately 200-220 ft from nearest house

PROPOSED DESIGN ALIGNMENT CLARIFICATION GRINDSTONE TRAIL





Preliminary Low-Profile Bridge Plan



Similar Bridge, County House Trail



Grindstone Creek Trail Environmental Assessment

- Table 9 of the alignment report qualitatively compared impacts of various alternatives in terms of
 - Amount of area disturbed
 - Utilization of existing infrastructure
 - Minimizing the future system footprint
 - Surface water impacts wetland and stream
 - Vegetative impacts
 - Forested area impacts
 - Erosion impacts
 - Wildlife corridors
 - Greenhouse gas production
 - The human environment
 - Endangered species

Environmental Assessment

- 70% of the proposed orange alignment will be along existing sewer easement or other infrastructure. (21% of the green alignment and 26% of the yellow alignment)
- 50% of the proposed violet alignment or 81% of the alternate blue alignment will be along existing sewer easement or other infrastructure

Environmental Assessment

- The alignments that are selected for final design will be required to comply with:
 - The Clean Water Act (sections 404 and 401)
 - Jurisdictional streams and wetlands are required to be identified and impacts to be avoided, minimized and mitigated
 - The Endangered Species Act
 - National Flood Insurance Program
 - Columbia storm water ordinance
 - State and local land disturbance regulations

Grindstone Creek Funding

- Recommended route now includes 4 or 5 bridges.
- Based on engineer's high-end estimate, project exceeds budget by \$600,000.
- Options include:
 - Use park staff to construct trail & contract bridges.
 - Transfer fund balance from Hominy Trail Project.
 - Construct gravel trail instead of concrete.
 - Utilize Park Sales Tax contingency funds.
 - Combination of the above.
- Recommend if project is approved, more detailed engineering will finalize cost estimates.

Public Input Meeting August 30, 2012

Meeting held at Waters-Moss: 63 responses Online Survey: 8/31- 9/17: 20 responses

- Approve of Grindstone Trail: 55
 - Orange alignment
 - Alternate alignment due to eminent domain
- Oppose Grindstone Trail: 28
 - Due to eminent domain
 - Generally opposed to trail
 - Opposed to trail citing existing abundance of trails or too expensive

Council Requested Commission Feedback

- Provide Council with feedback as to whether the Commission supports the concept of deferring the Grindstone trail project and utilizing its funding to assist in completing high priority projects identified through the GetAbout Planning process.
- 2. Provide Council any feedback the Commission might have as to the preferred priority order of the nine projects being considered for funding.

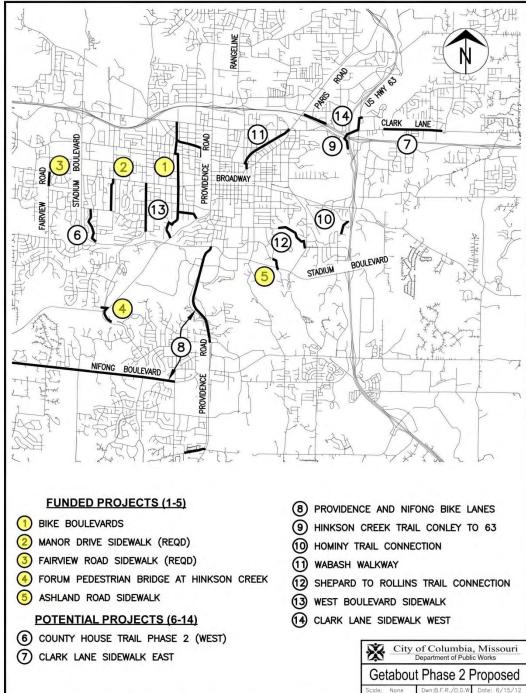
Commissions: Defer Funds from Grindstone to GetAbout Projects

- Bike and Ped Commission: No
- Disability Commission: Yes
- Energy & Environment: No
- Parks and Recreation: No

Commissions that voted "no" supported funding the Grindstone Creek Trail as proposed.



Revised Priority Order of GetAbout Round 2 Projects. Commission & Staff



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GetAbout Phase 2 Project Ranking

	21-Dec-12	S	taff	Commissions				
	Project	Ranking Comm and Staff	Average Comm and Staff	GetAbout staff	Parks and Rec Staff	Parks and Rec Comm	-	Bike/Ped Comm Rank
6	County House Trail Phase 2 West. Connects from Rockcreek Drive to County House Trail Phase 1, predominantly on City ROW.	3	3.000	3	i.	3	5	3
7	Clark Lane Sidewalk, East. Ballinger to Woodland , north side	2	2.000	2	3	2	1	2
8	Providence and Nifong Bike lanes: Providence (Stadium to Green Meadows), & Nifong (Bethel to Scott) - repair and stripe	7	6.875	6	8	5	6.5	8
9	Hinkson Creek Trail, Conley to 63 (Conley Rd to Clark Lane, Hwy 63)	1	1.500	1	2	1	2	1
10	Hominy Trail Connection (connecting Hominy Trail to Shepard Neighborhood at Pepper Tree Ln)	8	7.125	7	7	8	8	5.5
11	Wabash Walkway, Pedway along COLT Right of Way from Wabash Station to Paris Road, connecting to bike lanes and sidewalks on Paris. Future phase to connect to Vandiver.	9	7.250	8	9	9	3	8
12	Shepard to Rollins East-West connection (includes bridge over Hinkson Creek)	5	6.250	5	4	4	9	8
13	West Blvd Sidewalk. Westwinds to Stewart plus upgrade the sidewalk from Stewart to Broadway, west side	6	6.000	9	6	6	6,5	5.5
14	Clark Lane Sidewalk, West. Eastwood to Paris, north side	4	5.000	4	5	7	4	4

Map Loc	GetAbout Candidate		Mode	Commission &	Cumar		E atim at a d		
1viap LOC #	Capital Projects	Ward	shift potential	staff ranking	Survey Votes	1	Estimated Cost	Running Total	Comments
	Hinkson Creek Trail, Conley to 63 (Conley								Integrates with Conley TDD,
9	Rd to Clark Lane, Hwy 63)	3	1	1	133	\$	555,000	\$ 555,000	important link
	Clark Lane Sidewalk, East. Ballinger to						,,	. ,	Important link - dangerous for
7	Woodland , north side	3	1	2	113	\$	325,800	\$ 880,800	pedestrians.
	County House Trail Phase 2 West.								
	Connects from Rockcreek Drive to County								Naighborhood Connector has
6	House Trail Phase 1, predominantly on City ROW.	л	1	3	140	ć	445 000	ć 1 225 800	Neighborhood Connector. has
0		4	1	<u>ა</u>	140	\$	445,000	\$ 1,325,800	support, 3 easements reqd
14	Clark Lane Sidewalk, West. Eastwood to Paris, north side	3	2	4	72	ć	410 225	¢ 1 726 125	Important link - dangerous for
14	Shepard to Rollins East-West connection	3	2	4	12	\$	410,325	\$ 1,736,125	pedestrians.
12	(includes bridge over Hinkson Creek)	6	2	5	137	Ś	1,740,000	\$ 3.476.125	Requires 2 easements
		-				Ŧ		<i>\(\)</i>	
	West Blvd Sidewalk. Westwinds to Stewart								
	plus upgrade the sidewalk from Stewart to								Priority 1 on sidewalk master plan,
13	Broadway, west side	4	2	6	97	\$	567,400	\$ 4,043,525	deferred Phase 1 project
	Providence and Nifong Bike lanes:								
8	Providence (Stadium to Green Meadows), & Nifong (Bethel to Scott) - repair and stripe	5	1	7	129	\$	200,200	ć 4 252 825	Important on-street connections
0	Hominy Trail Connection (connecting	5	1	/	129	Ş	309,300	\$ 4,352,825	
	Hominy Trail to Shepard Neighborhood at								
10	Pepper Tree Ln)	6	2	8	84	\$	180,000	\$ 4,532,825	Recommended by neighborhood
	Wabash Walkway, Pedway along COLT								
	Right of Way from Wabash Station to Paris Road, connecting to bike lanes and sidewalks								Requires 19 easements. Bypasses
11	on Paris. Future phase to connect to Vandiver.	1,3	2	9	91	Ś	F 4 4 000	¢ F 076 92F	narrow section of Paris road.
		,		÷	-	Ŧ	-	\$ 5,070,825	
		IO	tal Projec	ts (Map Locati	ons 6-14)	Þ	5,076,825		
	Possible Sources of Funding								
	Additional Round 2 funding					\$	5,930,000		
	Committed to Projects 1-6 plus non capital and operating costs					\$	(3,360,000)		
	Possible contingence remaining from Round 1					\$	1,000,000		
					Subtotal	\$	3,570,000		
	Proposed Grindstone Trail re-allocation					\$	1,400,000		
					Total		4,970,000		



Current GetAbout Rankings

Based on commission and staff rankings, the following projects could be funded:

Ranking	Map#	Description	Cost
1	9	Hinskon Trail: Conley	\$555,000
2	7	Clark Lane Sidewalk East	\$325,800
3	6	County House Trail: West	\$445,000
4	14	Clark Lane Sidewalk: West	\$410,325
5	12	Shepard-Rollins: East-West	\$1,740,000
		TOTAL	\$3,476,125
	Availab	le GetAbout Balance	\$3,570,000

Council Options

Discuss Grindstone Creek Trail and GetAbout issues separately.

- Grindstone Creek Trail Project (GCT)
 - Complete Public Input process by scheduling a public hearing.
 - Following public hearing, Council has multiple options.

Council Options: Grindstone

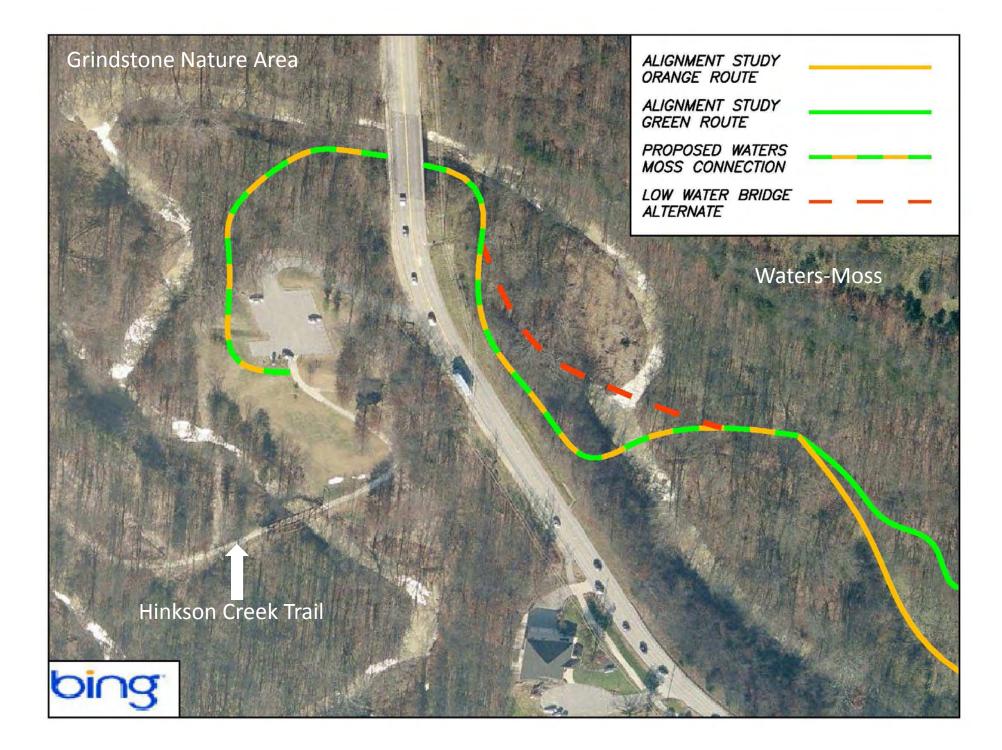
- 1. Approve entire Grindstone Creek Trail Project as recommended.
- Approve a portion of Grindstone Creek Trail Project & defer remaining balance to GetAbout Projects.
 - a. Connect Waters-Moss to Grindstone Nature Area. Estimated cost: \$600,000
 - b. Connect east end of trail from Maguire to Hollywood. Estimated cost: \$687,000
- 3. Approve deferring all funds from Grindstone Creek Trail project to GetAbout Projects.

GetAbout Grant Requirements

- There are very strict restrictions regarding the use of federal funds.
- Mixing Park Sales Tax funds with GetAbout funds may jeopardize grant funding.
- Staff strongly suggests that the two funds be kept separate.
- If Park Sales Tax funds are used, suggest selecting projects that can be funded entirely by either PST or GetAbout funds.

Option #2a: Construct West End of Grindstone Creek Trail

- West end of Grindstone Creek Trail will connect Waters-Moss to Grindstone Nature Area.
- Estimated construction costs \$600,000.
- Defer PST \$700,000 to GetAbout Projects.
- Staff recommends that Park Sales Tax Funds be used for one or two trail projects:
 - #6 County House Trail West: \$445,000
 - #9 Hinkson Creek Trail-Conley: \$555,000
 - #10 Hominy Trail Connector: \$180,000



Option #2b: Construct East End of Grindstone Creek Trail

- East end of trail would connect Maquire Blvd to Hollywood Theaters.
- Estimated construction cost: \$687,000.
- Defer PST \$625,000 to GetAbout Projects.
- Staff recommends that Park Sales Tax Funds be used for one or two trail projects:
 - #6 County House Trail West: \$445,000
 - #9 Hinkson Creek Trail-Conley: \$555,000
 - #10 Hominy Trail Connector: \$180,000

Construct Only Both Ends of Grindstone Creek Trail

- Recommendation came from Public Input meeting and constructs each end of the trail leaving the middle section unfunded.
- West End: \$600,000
- East End: \$687,000
- Total: \$1,287,000
- No funds available for GetAbout projects.
- May free up unspent funds from other projects such as the Hominy Creek Trail.

Option #3: Defer All Funds of Grindstone Creek Trail to GetAbout Projects

- Grindstone Creek Trail remains on trail master plan as future unfunded trail project.
- Staff recommends that Park Sales Tax Funds be used on these three trail projects:
 - #6 County House Trail West: \$445,000
 - #9 Hinkson Creek Trail-Conley: \$555,000
 - #10 Hominy Trail Connector: \$180,000
 Total: \$1,180,000
- Not enough PST funding to completely construct the Shepard-Rollins Connector.

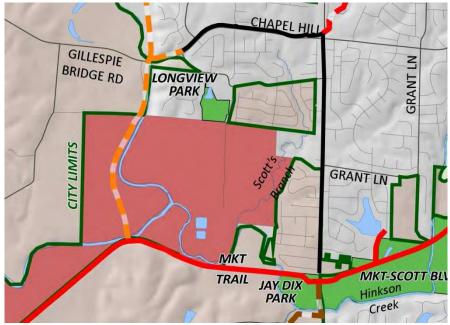
Other P&R Trail Projects Council may select another trail project.

Bear Creek Trail: Blue Ridge to Lange



Estimated cost: \$1,300,000

Perche Creek Trail: Phase I



Estimated cost: \$1,400,000-\$2,000,000

Proposed Next Steps

- Staff prepares a report to Council formally documenting the Commission responses and identifying Council options.
 - Report will recommend that a public hearing be scheduled on the Grindstone Creek Trail project.
 - Following public hearing, Council could take official action by directing staff to proceed with whichever option is determined appropriate.
- Council directs staff to schedule a public hearing.



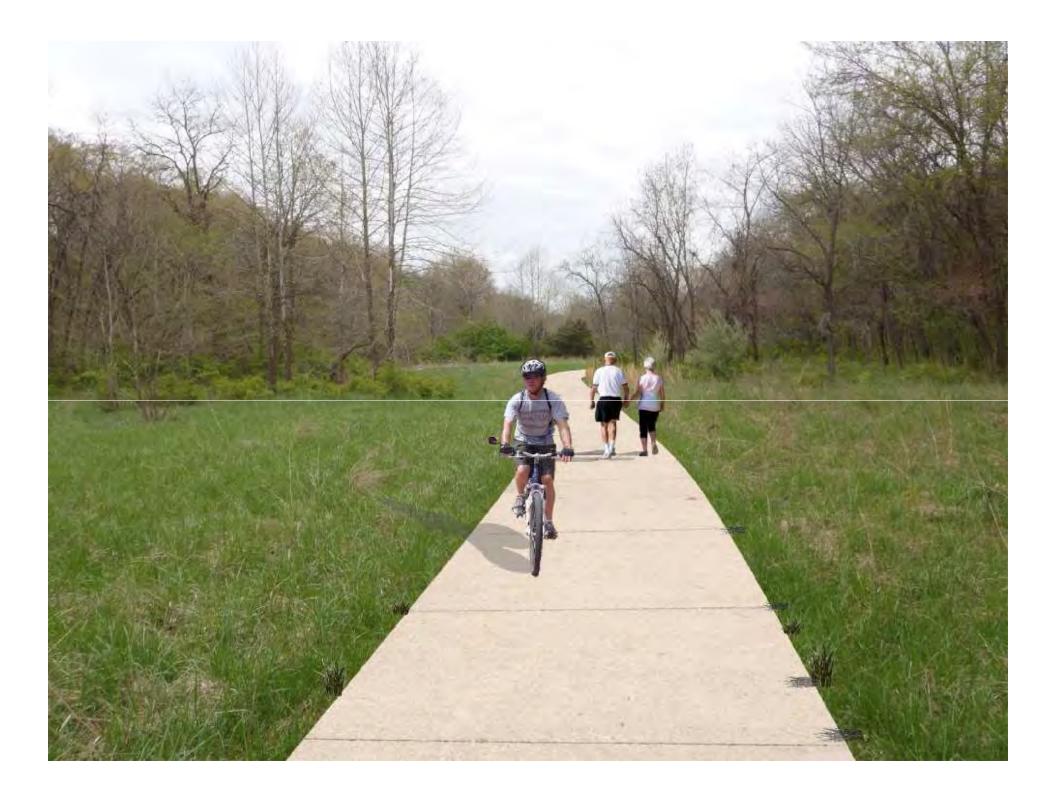
The following additional slides provide information regarding the department's policy on trail planning (will not be presented during worksession).

Environmental Assessment

- Because federal funds are not being used, the NEPA process is not required which means we are not required to:
 - Obtain a categorical exclusion or produce an environmental assessment or environmental impact statement (including additional public comment opportunities)
 - Conduct a cultural resource assessment
 - Conduct an assessment of impacts on publically owned lands and plan to minimize impacts
 - Assess environmental justice issues
 - Assess noise impacts
 - Assess air quality impacts

Why do we build trails along creeks?

- Creek corridors are undeveloped linear spaces
 Due to periodic flooding there are no buildings
- Separation from automobile traffic
 - You can travel for several miles without crossing roads
- Best places in town for nature viewing
 - Aesthetically pleasing areas to de-stress
- The areas adjacent to creeks are flat for comfortable biking and walking



Good for alternate modes of transportation, but not necessarily good for recreational trails.

Why concrete trails?

- Best longevity. Should last 20+ years.
- Best consistency of surface. Does not wash or break apart in flood areas or on steep slopes.
- Steel in concrete keeps it from deflecting preventing tripping hazards or barriers for wheel chairs.
- Cleaner surface during and after rains. Keeps commuters clean as well as less wear and tear on bikes.
- We don't have to put tons of gravel in our creeks and natural areas every time it rains.



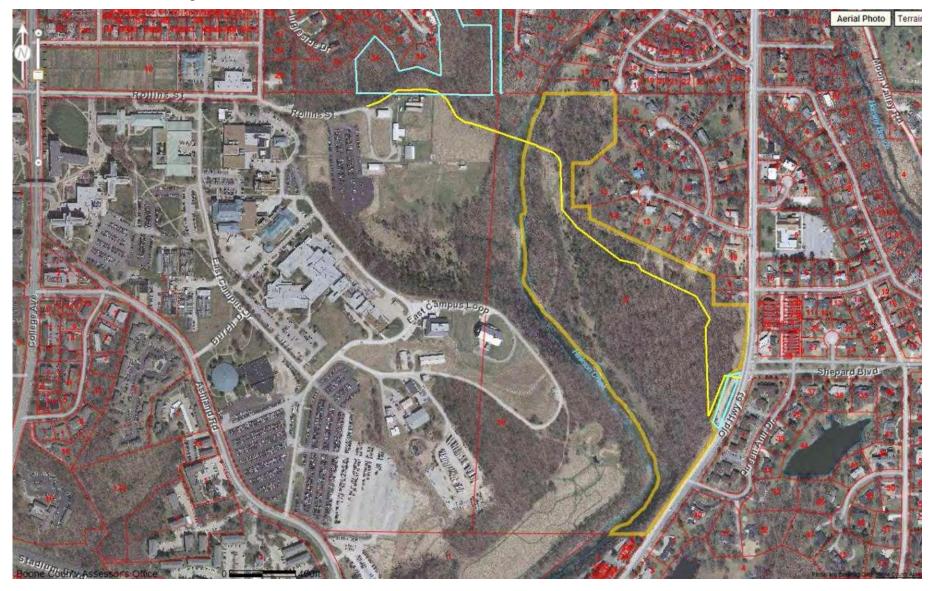
Gravel build-up in natural areas after flooding.

- P&R staff replaces about 179 tons of gravel that washes into the adjacent creeks after every major storm event.
- On average over 1,000 tons of gravel each year.



20+ year old concrete trail, still in excellent shape. Albert-Oakland Park, 8-ft trail.

Shepard-Rollins Connector \$1.7m



Shepard-Rollins: Maguire Connection

