

Ongoing Priorities

Park	Project	Cost Estimates		Notes (Updated November 2020)
		Low	High	
Red Rocks	Water Bars	\$60,000.00	\$150,000.00	All trail improvement and stormwater work for Red Rocks is pending permitting. Permitting is expected to be completed in 2021, and once that happens staff will prioritize construction/implementation. The goal of the trail projects is to update them so they will only need regular annual maintenance. The revised cost estimates assume ~50,000 per required stormwater management facility, assuming 2 may be needed for three projects. One of these projects includes making the Double Dog Loop an accessible trail within the park.
Red Rocks	The Trail Surface			
Red Rocks	Areas of erosion			
Red Rocks	Invasive plant management			
Red Rocks	Closure/opening of unofficial trails			
Red Rocks	Complete major trail repairs, installation of new waterbars			
Wheeler Nature Park	Bridge removal + replacement trail widening	\$5,000.00	\$20,000.00	A trail assessment was completed in 2020 and staff is working on phasing the implementation of many of the identified trail maintenance projects that may include some of this work. The Winooski Valley Park District completed bridge work in the summer of 2019.
Wheeler Nature Park	Trails	\$20,000.00	\$50,000.00	A trail assessment was completed in 2020. Two trails received maintenance in the summer of 2020, and staff is currently working on prioritizing the remaining trail maintenance needs that have been identified. Additional maintenance will occur in the summer of 2021.
Wheeler Nature Park	Remove obstructions on trails			
Wheeler Nature Park	Deter the use of unauthorized trails by discontinuing weed whacking			
Wheeler Nature Park	Provide effective use of trails by blazing trees - or color tree tabs - and updating maps, guides and other informational materials annually			
Wheeler Nature Park	Test stream hydrology - regularly			Chittenden County Stream Team. No Cost. What does DPW do with the information?
Ongoing Totals		\$85,000.00	\$220,000.00	

Priority 1

Park	Project	Cost Estimates		Notes	STATUS (Updated November 2020)
		Low	High		
Red Rocks	Phase 1: Park Access Parking Redesign	\$45,000.00	\$60,000.00	Redesign of the current exterior parking area to formalize an entrance, close off spur trails from front parking lot, add parking signage and striping and create a new gate at the entrance. Staff is considering this Phase 1 of a potential long-term access upgrade for the park.	This design is still being revised, but it is one of the projects that will be permitted in 2021. Staff will then need to prioritize for construction. Staff should also monitor the status of the Burton music venue in Burlington and consider additional parking needs as appropriate.
Red Rocks	Invasive plant management training annually	\$1,000.00	\$3,000.00	Contract with invasive plant management professional to assist staff in carrying out plant removal operations in the park. This includes training VYGC and Weed Warrior volunteers. Current contract is for 3 years.	Completion of 2020 invasive plant removal work. Due to COVID, there were 0 Weed Warrior events and only 2 Community Hikes. Mike Bald did work with individual community volunteers to continue invasive removal throughout the season, so a lot of work did get done this year.
Red Rocks	Signage, wayfinding, and park information	\$5,000.00	\$20,000.00	Based on: 8 recommended locations at trail intersections for directional/wayfinding signage (square markers); 35 estimated locations for in/out trail directions; 1 bulletin board recommended at park entry; and one interpretive sign. Interpretive sign includes park inset map.	COMPLETED: All new wayfinding signage has been installed (fall 2020). Over time, additional signage may be needed to compliment subsequent trail work (i.e.: addition of new trails/closure of trails).
Red Rocks	Accessible path to bath house	\$30,000.00	\$40,000.00	Assumes 30' width, 200' length. Low end \$150/LF for gravel path. High end \$200/LF for paved path. Path needs to be wide enough for vans+E40.	Staff is waiting to initiate this project until other trail work is completed.
Red Rocks	Accessible path to the beach	\$12,000.00	\$20,000.00	ADA access mat	Staff is waiting to initiate this project until other trail work is completed.
Red Rocks	Possible fence reconfiguration to allow for accessible parking near bathhouse	\$2,500.00	\$3,500.00	Assumes removing and installing 50LF of fence with one gate; to be confirmed by the City. \$50/LF (Low) to \$70/LF (High)	Staff is waiting to initiate this project until other trail work is completed.
Red Rocks	Bike racks			Assumes one bike rack at entrance and one at the beach. Low end 1 10' bike rack; High end 2 10' bike racks. Note: Local Motion is an authorized representative for Dero bike rack vendor. Local Motion can assist with choosing racks and ordering. The cost is the same as direct order, with a portion benefiting Local Motion.	COMPLETED: Bike racks were installed this summer at the park in two locations (Summer 2019). They were paid for out of the General Park Maintenance Budget and not Open Space Funds.
Red Rocks	Erosion of area near bath house: Beach and Shoreline Stabilization & Stormdrain Protection	\$35,000.00	\$60,000.00	Staff has contracted these projects out for design/engineering to look at the best way to stabilize the shoreline, improve wildlife habitat, correct eroding trails, and remove exposed infrastructure. Any trail work will be covered in the overall park trail project plan.	These projects are still being designed, but are on the docket to be permitted during 2021. Staff will need to prioritize these for construction once permitted.
Red Rocks	Parking and traffic management study			Parking, traffic, and use will be considered when Staff begin the review and update process for the park's existing Management Plan. At that time, staff will consider how to update the parking section of the management plan to better reflect the park's current use.	The Management Plan Task Force continued working on updates/revisions to the existing plan. Survey capturing public input on use of the park was completed. Updates to the plan will be incorporated over the next 6 months.
Underwood Property	Complete Master Plan			Detailed plan to follow up on Visioning Task Force work. Protect \$50,000	COMPLETED: May 2018
Underwood Property	Implementation of Master Plan (Details may include the following within Phase 1)	\$50,000.00	\$300,000.00	Staff will be putting out an RFP to hire a consultant to design and engineer Phase 1 of Underwood. This includes creating access for the public to passively use the property. Part of this phase includes: formalizing the existing trail network and designing trails that work well with the landscape, design of a shared use path connecting the South Pointe neighborhood to Nowland Farm Drive, an off-road parking area, small picnic grove, and possible pump track.	Consultant was selected and began work on Phase 1 elements (shared use path). Staff released an RFP in October 2020 for design services of Phase 1.2 elements (viewing area, on-site parking, and pedestrian connections). Staff hopes to award this contract in December 2020. Pending permitting, construction could happen summer/fall 2021. A trail assessment will be kicked off in the spring of 2021 to help plan the formalization of the existing trail network. That work should also take place summer of 2021.
Wheeler Homestead	20' Accessible path to picnic tables; tree planting & wildflower field.	\$21,500.00	\$42,500.00	Assumes 20' path. Low end is 8-foot wide aggregate surface path 2014 costs; High end is 12-foot wide bituminous concrete path 2010 costs. VTrans Report on Shared-Use Path and Sidewalk Unit Costs. Assumes 50 trees at \$250/tree (low) - \$500/tree (high). Cost per acre to prepare field, buy seed mix, prepare seed mix for spreading, spreading and maintaining until mature growth.	Following the City Council's decision to locate a Dog Park in this general area, this project is no longer feasible.
Wheeler Homestead	Accessible picnic tables			3-6 accessible tables at \$1000 per table.	Completed and placed 2018
Wheeler Homestead	Bike racks			Low end 1 10' bike rack; High end 2 10' bike racks. Note: Local Motion is an authorized representative for Dero bike rack vendor. Local Motion can assist with choosing racks and ordering. The cost is the same as direct order, with a portion benefiting Local Motion.	COMPLETED: Bike racks were installed this summer at the park in two locations (Summer 2019). They were paid for out of the General Park Maintenance Budget and not Open Space Funds.
Wheeler Homestead	ADA portable Restrooms			Based on \$160/month/unit. Low end - 6 month rental, high end - 9 month rental.	Completed - Paid for monthly out of General Park Maintenance budget and not Open Space Funds.
Wheeler Nature Park & Red Rocks Park	WVDP Park Projects	\$5,000.00	\$10,000.00	Pending the need for specific park projects, staff will work with WVDP annually to see if there are projects they can take the lead on in the City's Natural Areas.	The City did not contract with WVDP for planning and project management services in 2020 due to COVID.
Wheeler Nature Park	Signage, wayfinding, and park information	\$5,000.00	\$20,000.00	Design, fabrication, and installation of new park id signs, directional signs, interpretive signs, kiosk panels, and other signs as needed to assist in helping users navigate the site and tell the story of the property.	Staff have initiated the design of new wayfinding signs at Wheeler. These should be fabricated and ready for installation summer of 2021.
Wheeler Nature Park	Utilize best practices for grasslands and shrublands to maintain wildlife habitat.	\$8,000.00	\$12,000.00	Low (\$400/ac) for grass only; high (\$800/ac) for shrublands. Assumes 20 acres.	Ongoing - DPW staff already brushhog the meadow area to battle invasive buckthorn. Staff also contract with Mike Bald to continue invasive plant management work throughout the park (in concert with volunteers). Audubon and the USFWS also are interested in conducting invasive plant management work as part of a grant to protect and enhance rare bird habitat. This work could begin as early as December 2020, pending USFWS monies.
Wheeler Nature Park	Remove and control Non-Native Invasive Species, especially along trails (controlled setting, goat/sheep, brush hog)	\$8,000.00	\$12,000.00	Cost provided by City. Some of the cost estimate considers using goats for plant removal, and includes personnel, care taker, animals, and supplies. There is also some cost associated with contractor and VYGC.	Ongoing - DPW is already working to remove plants with larger equipment. Completed 3rd season with professional invasive plant removal contractor. No Weed Warrior events were held this season due to COVID, though our contractor did work with individual volunteers.
Wheeler Nature Park	Prune shrubby vegetation and tree branches and release mast trees to reduce encroachment	\$8,000.00	\$30,000.00	Assumes 20 trees. Per Tree Cost: Low (\$400/tree) for one person; high (\$1,500/tree) for two people + chipper/blower. (Or \$10,000/ac).	
Wheeler Nature Park	Bike racks near entrances			Low end 1 10' bike rack; High end 2 10' bike racks. Note: Local Motion is an authorized representative for Dero bike rack vendor. Local Motion can assist with choosing racks and ordering. The cost is the same as direct order, with a portion benefiting Local Motion.	COMPLETED: Bike racks were installed this summer at the park in two locations (Summer 2019). They were paid for out of the General Park Maintenance Budget and not Open Space Funds.
Priority 1 Totals		\$236,000.00	\$633,000.00		
Ongoing + Priority 1 Cumulative		\$332,000.00	\$778,000.00		

Priority 2

Park	Project	Cost Estimates		Notes (Updated November 2020)	Status
		Low	High		
Red Rocks	Stone Walls - expert should be consulted for repairs	\$3,500.00	\$6,000.00	Assumes 100LF to repair walls using existing materials at \$35/LF (Low) and replace walls with new materials at \$65/LF (High).	Any repairs that are needed will be incorporated into trail improvements that are completed. All trail improvement projects are in the permitting phase.
Wheeler Homestead	Make Path to Tree House Accessible	\$5,000.00	\$15,000.00	Assumes 5' wide x 100 linear feet of path at \$50/LF for gravel path. High end \$150/LF for paved path.	This project is not a priority until all other trail projects have been completed.
Wheeler Nature Park	Improve Polish brook watershed through storm water retention & filtration to help with natural eco system. Include streambank erosion water expert	\$12,000.00	\$75,000.00	Consultant to recommend necessary measures to protect watershed.	A wetland delineation has been completed. No stormwater projects have been identified at this time. Stormwater staff have not identified this parcel as having potential projects yet.
Red Rocks	Phase 2: Park Access Parking Redesign	\$200,000.00	\$200,000.00	Depends on the needs resulting from the revisions to the existing park management plan and the vision for implementing changes to meet the needs. This might include expanding the access area into the park entrance.	When staff reviewed the concept for Phase 1 in summer of 2019, Phase 2 was discussed as the long-term vision for the parking area.
Red Rocks	Enhance beach	\$165,000.00	\$330,000.00	Low end assumes 1500CY of sand delivered (\$110/CY). High end assumes 3000 CY of sand delivered. City to provide labor for spreading/raking across beach area.	This project is not a priority until the shoreline erosion issues are corrected.
Underwood Property	Utilities, Power, Park Stormwater Elements	\$130,000.00	\$210,000.00	Potential Phase 2 of the Underwood Master Plan.	To-date, the Stormwater Department has indicated they are not interested in furthering a design for the identified stormwater feature noted on the Master Plan due to existing wetlands on-site. There is no immediate need for utilities or power, so this "Phase 2" is pending further use and planning of the site. In Summer 2020, there were funds spent on assisting Common Roots with the location of a well and associated power lines for agricultural work associated with their leased 4 acres of land.
Underwood Property	Complete restoration projects, including the management of invasive and non-native plants.	\$5,000.00	\$200,000.00	Meadow, Riparian and Forest are included. Low end includes volunteer and consultant removal efforts. High end includes purchase of additional equipment for the purpose of City management on-site.	Invasive plant management will continue in 2021. No events were held at the property as part of the Weed Warrior program in 2020 due to COVID. Staff are also working with Audubon & US FWS to conduct habitat management for rare bird species, and Underwood is a property that has been identified as part of this program. This work could begin FY22. The City would not be utilizing any funds as part of the Audubon/USFWS project.
Priority 2 Subtotals		\$40,500.00	\$1,036,000.00		
Ongoing + Priority 1 + Priority 2 (to this point) Cumulative		\$379,460.00	\$1,789,440.00	Expectation is to meet the \$1.3 million at this point. Remaining items below are not prioritized.	
Underwood Property	Build phase 3 of recreational elements from Master Plan (e.g. strider park/pump track, wildplay/natural playground, etc.)	\$50,000.00	\$160,000.00	Specific elements to be refined through Master Plan	At least one of these elements noted on completed Master Plan that is being phased out over time.
Underwood Property	Build first phase of agricultural elements from Master Plan (land preparation for traditional ag/orchard, etc.)	\$30,000.00	\$50,000.00	Specific elements to be refined through Master Plan	Staff worked with Common Roots to identify and install well and associated utilities for 4 acre leased ag land.
Underwood Property	Build restroom facility	\$80,000.00	\$130,000.00		
Underwood Property	Build one brook crossing	\$80,000.00	\$200,000.00		Trail assessment to take place spring 2021 that will look at various wetland crossings to create a more formal trail network that allows users to move from the meadow to the woods.
Underwood Property	Build Phase 3 Parking and vehicle circulation	\$50,000.00	\$60,000.00		On-site parking is being considered as part of the Phase 1.2 design for more public access and enjoyment of the space.
Underwood Property	Neighborhood Stormwater Retention Pond	\$220,000.00	\$500,000.00	Needs clarification	On Hold due to wetland location.
Underwood Property	Phase 1 Construction documents, engineering, architecture, planning	\$240,000.00	\$423,000.00	Assumed at 30% of construction costs	Phase 1 & Phase 1.2 design/engineering/permitting includes: shared use path, on-site parking, viewing area, and other pedestrian connectivity pieces.
Wheeler Homestead	Future use of homestead - upgrade house, elevator, & ADA (kitchen, steps, fire escape)	\$50,000.00	\$150,000.00	Assumes existing building to remain in place with renovation of 1000 sf of interior space. \$50/sf for 1000 SF low end, \$150/sf for 1000 SF high end.	Staff note: Not appropriate use of Open Space Funds.
Priority 2 Totals		\$840,500.00	\$2,709,000.00		
Ongoing + Priority 1 + Priority 2 Accumulative		\$1,179,460.00	\$3,462,440.00		