



Parks & Open Space

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TO: Board of County Commissioners

DATE: Wednesday, December 11, 2019

AGENDA ITEM TITLE: Boulder County 2020-2025 Parks & Open Space Improvement Projects

PRESENTER: Tina Nielsen, Special Projects Manager

ACTION REQUESTED: Approval

Background

Boulder County annually approves a 5-year Parks & Open Space Improvement Project (POSIP) plan and budget for the Parks & Open Space department. The plan helps the department to prioritize improvements on open space and engage the public prior to implementation of new projects. The plan also provides a structure for seeking partnerships and grant funds to help leverage our budget.

Six years out from the historic 2013 flood, we can finally say that much of the recovery work is close to wrapping up. Much of the flood recovery funding is separate from our normal capital budget; however, some of that work continues to be reflected in the POSIP (Recreation & Facilities category and Ecosystems category).

2020 POSIP Budget Summary

Summary	2020				
	2019 Carryover	Grants	Partner/ Other	POSIP	Total
Recreation & Facilities	\$27,454	\$0	\$0	\$243,225	\$270,679
Historic Preservation	\$0	\$0	\$200,000	\$130,000	\$330,000
Public Education	\$0	\$0	\$0	\$62,500	\$62,500
Agriculture	\$0	\$0	\$0	\$220,000	\$220,000
Forestry	\$19,633	\$960,000	\$0	\$36,500	\$1,016,133
Ecosystems	\$0	\$61,500	\$35,000	\$49,325	\$145,825
Grand Total	\$47,087	\$1,021,500	\$235,000	\$741,550	\$2,045,137
Contingency Fund				\$33,450	\$33,450
POSIP Budget				\$775,000	\$2,078,587

Discussion

The \$775,000 POSIP budget is distributed among six project categories: Recreation & Facilities; Historic Preservation; Public Education; Agricultural Resources; Ecosystems; and Forestry. Funding for all of these categories comes from the sales tax approved by voters in

2010, except for a portion of the Agriculture budget that comes from agricultural lease revenues.

Priorities for most capital projects follow directly from management plans and master plans adopted by the Board of County Commissioners following a public process (Attachment C provides the Planning Schedule). In other cases, staff prioritizes projects based on department mission, goals in the department's 2020 vision, purchase agreements, intergovernmental agreements, and requests from communities and the public. The project spreadsheets in Attachment A and the project descriptions in Attachment B provide project-specific details.

Thanks to contributions of partners, grants, and other funding sources, we are able to leverage the POSIP budget with \$1,256,500 in the Historic Preservation, Forestry, and Ecosystem categories. These additional funding sources include:

- \$200,000 grant from the State Historical Fund for the Braly Barn Phase I restoration
- \$960,000 grant from FEMA Pre-Disaster Mitigation for forest restoration work
- \$46,500 from Boulder County Certificate of Participation bond funds (flood recovery tax)
- \$15,000 from the Boulder County Parks & Open Space Foundation for a wetlands inventory and assessment

The POSIP budget does not reflect the personnel costs of the Parks & Open Space department. In normal years, we conservatively estimate that 40% of staff time is devoted to capital projects. Staff costs are funded through the department's operating budget and are significant – over \$2 million annually. The Department also spends a considerable amount of sales tax funds to hire seasonal employees to assist in the construction of POSIP projects. Finally, the County pays for the cost of the Youth Corps, whose assistance is vital on many POS capital projects. Thus, the real cost of Capital Improvement Projects, including both the estimated project costs and personnel costs, is much greater than the numbers reflected in the capital budget.

POSAC Action

At their hearing on November 21, the Parks & Open Space Advisory Committee unanimously recommend BOCC approval of the Boulder County Parks & Open Space 2020-2025 POSIP. Two members of the public spoke; comments included a request to proceed more quickly with the Rabbit Mountain and Rogers/Reynolds management planning, a question about the US36 wildlife crossing, and a general comment about the need to protect wildlife habitat.

BOCC Action Requested

Approval

Attachments (available at www.BoulderCountyOpenSpace.org/POSAC)

- A. Boulder County Parks & Open Space 2020-2025 POSIP Spreadsheets
- B. Capital Improvement Project Descriptions for 2020-2025 POSIP
- C. Five Year Resource Planning Schedule

Planning for 2020 Capital Improvement Projects

	Category	2020				
		2019 Carryover	Grants	Partner/ Other	CIP	Total
	Recreation & Facilities					
1	Lagerman Agricultural Preserve	\$0	\$0	\$0	\$124,225	\$124,225
2	Heil 2 Improvements	\$0	\$0	\$0	\$49,000	\$49,000
3	Castle Rock /Reynolds Ranch/Rogers Site Improvements	\$0	\$0	\$0	\$35,000	\$35,000
4	Ag Heritage Center Improvements	\$27,454	\$0	\$0	\$20,000	\$47,454
5	Walker Ranch Management Plan Implementation	\$0	\$0	\$0	\$15,000	\$15,000
	Recreation & Facilities CIP Subtotal	\$27,454	\$0	\$0	\$243,225	\$270,679
	Historic Preservation					
1	Braly Barn Rehabilitation Phase I & Phase II	\$0	\$0	\$200,000	\$100,000	\$300,000
2	Braly Garage Rehabilitation	\$0	\$0	\$0	\$30,000	\$30,000
	Historic Preservation Subtotal	\$0	\$0	\$200,000	\$130,000	\$330,000
	Public Education					
1	Ag Heritage Center Exhibits	\$0	\$0	\$0	\$62,500	\$62,500
	Public Education CIP Subtotal	\$0	\$0	\$0	\$62,500	\$62,500
	Agricultural Resources					
1	Hygiene Dairy/Bishop - produce storage and processing facility	\$0	\$0	\$0	\$150,000	\$150,000
2	Grain Storage (barley)	\$0	\$0	\$0	\$60,000	\$60,000
3	Install Water Measuring Devices on two properties	\$0	\$0	\$0	\$10,000	\$10,000
	Ag CIP Subtotal	\$0	\$0	\$0	\$220,000	\$220,000
	Forestry CIP					
1	Heil: Lichen Loop PA1 (U1, U2) (162 Acres)	\$19,633	\$960,000	\$0	\$36,500	\$1,016,133
	Forestry CIP Subtotal	\$19,633	\$960,000	\$0	\$36,500	\$1,016,133
	Ecosystems					
	Flood Restoration 6354510					
1	Brewbaker	\$0	\$46,500	\$0	\$0	\$46,500
2	Niwot Ditch Fish Passage (Golden Fredstrom)	\$0	\$0	\$0	\$11,325	\$11,325
	Wildlife Habitat Restoration 6354508					
1	Ag Wildlife Habitat	\$0	\$0	\$0	\$5,000	\$5,000
	Riparian Restoration 6354506					
1	Bailey Ponds/Kenosha	\$0	\$0	\$0	\$10,000	\$10,000
2	Zapf	\$0	\$0	\$0	\$3,000	\$3,000
3	Lower Boulder Creek	\$0	\$0	\$0	\$20,000	\$20,000
4	Wetlands inventory assessment	\$0	\$15,000	\$35,000	\$15,000	\$50,000
	Ecosystems CIP Subtotal	\$0	\$61,500	\$35,000	\$38,000	\$145,825
	Grand Total	\$47,087	\$1,021,500	\$235,000	\$730,225	\$2,045,137
	Contingency Fund				\$44,775	\$44,775
	BUDGET				\$775,000	\$2,089,912

	Summary	2020				
		2019 Carryover	Grants	Partner/ Other	CIP	Total
I.	Recreation & Facilities CIP Subtotal	\$27,454	\$0	\$0	\$243,225	\$270,679
II.	Historic Preservation Subtotal	\$0	\$0	\$200,000	\$130,000	\$330,000
III.	Public Education CIP Subtotal	\$0	\$0	\$0	\$62,500	\$62,500
IV.	Ag CIP Subtotal	\$0	\$0	\$0	\$220,000	\$220,000
V.	Forestry CIP Subtotal	\$19,633	\$960,000	\$0	\$36,500	\$1,016,133
VI.	Ecosystems CIP Subtotal	\$0	\$61,500	\$35,000	\$38,000	\$145,825
		\$47,087	\$1,021,500	\$235,000	\$730,225	\$2,045,137

Recreation & Facilities Capital Improvement Projects 2020-2025

	RAF CIP	2020					2021	2022	2023	2024	2025	Project Descriptions
		2019 Expected Carryover	Grants	Partner/ Other	CIP	Total 2020						
1	Lagerman Agricultural Preserve				\$124,225	\$124,225						Expand and modify trailhead as necessary based on demand, with particular attention to horse trailers and boat trailers. In-house construction.
2	Heil 2 Improvements				\$49,000	\$49,000						Engineering for skills area and Altona port-a-potty enclosure. Skills area buildout and revegetation. Upgrade main trailhead parking. Build ADA trail in corral area. Build port-a-potty enclosure at Altona.
3	Castle Rock /Reynolds Ranch/Rogers Site Improvements				\$35,000	\$35,000					\$	2020 dollars for climbing access trail construction. Completion of Planning process related to Climbing Management could identify recreation site improvements for Castle Rock area
4	Ag Heritage Center Improvements	\$27,454			\$20,000	\$47,454						Complete Phase 2 implementation of irrigation and site improvements at AHC utilizing in-house labor. ADA Access for MacIntosh Barn.
5	Walker Ranch Management Plan Implementation				\$15,000	\$15,000						Survey Homestead and design work to improve public access at Homestead.
	Anne U. White					\$	\$					Trailhead construction and trail open in 2019. Phase II would be locate a restroom facility on site with engineering/permitting in 2020, restroom installation 2021.
6	Braly Loop Trail, Parking Lot, Trailhead				Grant Application	\$0	design/eng. costs	\$15,000	\$\$\$			Potential Fishing is Fun grant/Goco grant. Development of site dependent on flood restoration. Transportation funding of regional restroom. Cash in Lieu Zone 1 funding of ~48k also available.
7	Rock Creek Spur - 104th Street						\$79,167	\$79,167	\$	\$\$\$		Trail link from Lafayette and Louisville to Rock Creek Farm and its trail system; identified as high priority by Louisville and Lafayette
8	Tolland Ranch Trail				Grant App submitted Aug. 2019		\$5,000	\$	\$			Submitted for a construction grant in fall 2019 and start construction in 2020. Assume 3 years to build out system. Additional funding would include the Michael O'Brien donation to the Parks and Open Space Foundation. . Trail needs to be open to the public no later than 2024.
9	Coalton Trail						\$					Coalton Trail upgrade to better match Rocky Mountain Greenway standards. Design complete in 2019.
10	Carolyn Holmberg Preserve at Rock Creek Farm Management Plan implementation							\$	\$\$\$			Potential trail and trailhead infrastructure construction based on recommendations from master plan update in 2020.
11	Rock Creek Grasslands Trail							\$	\$			Rock Creek Grasslands Trail Implementation. Pony Estates to Coal Creek Trail. City and County of Broomfield and Lafayette are interested in partnering to complete this planned trail connection. Broomfield has CIP money listed for 2022. Grant funding potential.
12	Parking Lot Expansions								\$	\$		Consider additional expansion of park facilities such as: Pella, Betasso, Hall Ranch, Mud Lake, Caribou, Heil, Walden, and Walker. Planning process needed for creating priorities and need.
13	Ron Stewart Preserve at Rabbit Mountain MP Update Implementation							\$	\$\$\$	\$\$\$		Potential trail and trailhead infrastructure construction based on recommendations from master plan.
Recreation & Facilities CIP Subtotal		\$27,454	\$0	\$0	\$243,225	\$270,679	\$84,167	\$94,167	\$\$\$	\$\$\$	\$\$\$	
Recreation & Facilities other funding												
14	St. Vrain Trail Construction to Pella						\$\$\$	\$\$\$				Funding and construction of trail from Airport Road to Pella Ponds from Boulder County Transportation and possible grant application.
Other Recreation & Facilities Funding Subtotal		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Recreation & Facilities CIP Subtotal		\$27,454	\$0	\$0	\$243,225	\$270,679	\$84,167	\$94,167	\$\$\$	\$\$\$	\$\$\$	

Historic Preservation Capital Improvement Projects 2020-2025

Historic Preservation: \$100K	2020					2021	2022	2023	2024	2025	Project Descriptions
	2019 Carryover	Grants	Partner/ Other	CIP	Total 2020						
1 Braly Barn Rehabilitation Phase I & Phase II			\$200,000	\$100,000	\$300,000	\$	\$				2020 - Phase I - construction late summer through late fall 2020. Phase I scope limited to critical structural repairs. 2021-2022 - Phase II - Buildings & Historic Preservation to complete dairy barn addition rehabilitation, loading chute rehabilitation, and main barn siding, windows, doors, and trim repairs not included in Phase I. Phase II cost estimate to be developed in 2020.
2 Braly Garage Rehabilitation				\$30,000	\$30,000						2020 - Buildings and Historic Preservation to complete garage rehabilitation.
3 Tumbleson House Rehabilitation					\$0	\$55,000		\$	\$	\$	2021 - Crack stitching and grout injection project out to bid and completed. 2023-2025 - Adaptive reuse plan - develop scope of work based upon the building's future use identified in the North Foothills Open Space Management Plan update. Contract out architectural and structural construction documents, prepare construction cost estimate, contract out work.
7 Cultural Resource Survey					\$0			\$	\$	\$	2020 - Cultural Resources Management Team will select the 2021 project. Ron Stewart Preserve at Rabbit Mountain, et. al Cultural Resource Overview, Mayhoffer Farm, Platt-Rodgers Memorial Park, Rogers, McCaslin Peppers, Walker Ranch or Forestry projects are high priorities because they support either a department wide effort or grant funded division project. 2021 - Develop scope of work, out to bid, and project completed. 2022-2025 - Cultural Resources Management Team will select projects based upon department wide efforts or grant funded division projects that require or benefit from having a cultural resource survey completed in advance of project.
8 Olivieri House, Garage, Office Rehabilitation									\$	\$	2021 - Cultural Resource Policy process to address property's future. 2022 - Project cost estimate to be developed in order to revise current placeholder symbols. 2023-2025 - Buildings & Historic Preservation rehabilitation of cabin, garage and office building. Remove collapsed bunkhouse and contract out site stabilization work.
9 Reynolds Ranch Log House Rehabilitation								\$	\$	\$	2022 - Develop scope of work based upon the building's future use identified in Platt Rogers/Reynolds Ranch Open Space Management Plan. 2023-2025 - Contract out architectural and structural construction documents, prepare construction cost estimate, contract out work. Buildings & Historic Preservation's role to be determined.
Historic Preservation Subtotal	\$0	\$0	\$200,000	\$130,000	\$330,000	\$55,000	\$	\$	\$	\$	

Public Education Capital Improvement Projects 2020-2025

	Public Education	2020					2021	2022	2023	2024	2025	Project Descriptions
		2019 Carryover	Grants	Partner/ Other	CIP	Total 2020						
1	Ag Heritage Center Exhibits				\$62,500	\$62,500	\$62,500	\$0				Replace "Faces of Boulder County," "Food" and "Tools of the Trade" due to wear and tear after two decades of use 2022: Outdoor demonstration fields
2	Braly & Ramey Interpretive Opportunities							\$0	\$0			Braly Environmental Center (educational supplies etc)
3	Nederland Mining Museum Exhibits									\$25,000		Interpretive plan for hard rock mining sites, and begin updating Nederland Mining Museum exhibits
	Subtotal	\$0	\$0	\$0	\$62,500	\$62,500	\$62,500	\$0	\$0	\$0	\$25,000	

Agricultural Resources Capital Improvement Projects 2020-2025

	Agricultural Resources	2019 Carryover	2020				2021	2022	2023	2024	2025	Project Descriptions
			Grants	Partner/ Other	CIP	Total 2020						
1. Center Pivot & Lateral Sprinklers - Conventional												
a.	Ertl center pivot					\$30,000					Center pivot irrigation sprinkler (Tenant applying for EQIP funds)	
b.	Barrett center pivot					\$85,000					sprinkler system requires three-phase power installation; will be expensive due to location of power	
c.	G. Anderson - center pivot					\$35,000					Full center pivot sprinkler	
d.	Henry & Ross- 2 center pivots						\$200,000	\$175,000			Two full center pivot with swing arm (no EQIP, tenant cost share)	
2. Center Pivot & Lateral Sprinklers - Organic												
e.	Haley - install irrigation system								\$175,000		Lateral or pivot irrigation sprinkler for organic farm	
3. Organic Farm Stand Projects												
a.	Hygiene Dairy/Bishop - produce storage and processing facility				\$150,000	\$150,000					Food Safety Act specifies guidelines for washing and storage facility in the coming years. This will be a design-build project	
b.	James Construction farm stand									\$75,000		
4. Other Projects												
a.	Grain Storage (barley)				\$60,000	\$60,000					Requests are coming in for brew barley storage because Coors is now requiring producers to store half of produce on farm. Also receiving requests for grain storage	
b.	Install Water Measuring Devices on two properties				\$10,000	\$10,000	\$10,000				install measuring device at Eddy/Prince Lake #2, AHI/Swede Lake. In house staff installation; purchase sutran recorders and measuring weirs. Requested by Audrey to allow us to detect dam leaks and seepage and keep accurate record of water in reservoirs. Could separate out the two properties	
Ag CIP Total			\$0	\$0	\$220,000	\$220,000	\$160,000	\$200,000	\$175,000	\$175,000	\$75,000	

Forestry CIP 2020-2025

	Forestry CIP	2020					2021	2022	2023	2024	2025	Project Descriptions
		2019 Carryover	Grants	Partner/ Other	CIP	Total 2020						
1	Forest Thinning Treatments											Forest ID Team will work out Details
a.	Heil: Lichen Loop PA1 (U1, U2) (162 Acres)	\$19,633.00	\$960,000		\$36,500	\$1,016,133	\$61,500					2017 Pre-Disaster Mitigation Grant, we are moving forward still no award but looks promising for \$960,000, Split CIP Between 2018-2019. Applied for some State Funding FRWRM which could possibly cover our share. Has Approved ID Team Prescription.
b.	Caribou and Sherwood Gulch (PA1 U2 & U3) (100 acres)						\$102,500	\$102,500				Awarded grant for \$245,000, match to complete project would be \$205,000 over two years, 2021-2022. Additional match from staff time. Total project cost estimated at \$4500 per acre. Prescription will be written in Early 2019 Approved by summer 2019
c.	Hall: Button Rock PA5 U1-6								\$100,000	\$280,000		This would be a 40 acres pilot project to start collaborative (collaboratives have better chance at grant money)Will need to apply for Grant Funding to do complete project. 227 acres at \$6000, Does Not Include need for road access. Will Have Approved SOW by Early 2019. Could be interchanged with Caribou project.
d.	Walker: Meyers Gulch PA1 (U1, U3-6) (355 Acres)										\$150,000	Total estimate is \$1,800,00. Will need to apply for Grant Funding. Typically cost share is at least 25% which would be \$450,000 of CIP, Project could be split up into three projects at about 100-140 acres a piece. Needs CPW consultation Possible Split Between 2020-2021. Has Approved Prescription.
e.	Hall: Button Rock PA6 U3-4											Will need to apply for Grant Funding, 162.2 acres at \$8000, Does Not Include need for road access. Will Have Approved Prescription by Early 2018.
f.	Hall PA7U5 Stands 1-3 (12.5ac) Nelson Donut											Apply for grant (Priority in County and local CWPP & POS Mgt. Plan) nelson loop, Bumped due to flood. May also move to In House operations)
	Forestry CIP Subtotal	\$19,633	\$960,000	\$0	\$36,500	\$1,016,133	\$164,000	\$102,500	\$100,000	\$280,000	\$150,000	

Ecosystems CIP 2020-2025

	Ecosystems	2020				2021	2022	2023	2024	2025	Project Descriptions
		2019 Carryover	Grants	Partner/ Other	CIP						
1	Flood Restoration 6354510										
a.	Brewbaker		\$46,500			\$46,500					Post-flood stream restoration funded by COPS and CIP Ecosystems. Postponed due to CLOMR requirements from LU FDP. Arthur Moss?
b.	Niwot Ditch Fish Passage (Golden Fredstrom)					\$11,325	\$11,325				2019 USFWS short on funds for final design. 2020 - match for CPW Wetland Grant for plant materials and volunteer services. Wetland and stream restoration funds, including restoration around the old Niwot diversion.
c.	Parrish					\$50,000					Design costs for Parrish flood recovery - east parcel
d.	Geer Creek						\$60,000				Post-flood stream restoration funded by COPS and CIP Ecosystems.
2	Wildlife Habitat Restoration										
a.	Ag Wildlife Habitat				\$5,000	\$5,000	\$12,000				Wildlife habitat and pollinator projects on ag properties: Swanson, Ertl, Puma, Montgomery Farms, AHI
d.	South Branch Ditch/St. Vrain					\$0	\$8,000				Fencing off portions of the South Branch Ditch at Braly and Sadar for PMJM habitat
e.	US36 Wildlife Crossing							\$150,000			Underpass/fencing, possible US36 wildlife crossing
3	Riparian Restoration 6354506										
a.	Bailey Ponds/Kenosha				\$10,000	\$10,000					\$400,000 from UDFCD by 2020 (\$100K a year) for construction. UD also covering
b.	Zapf				\$3,000	\$3,000					Plantings and/or fencing along South Branch for PMJM habitat at Zapf property
c.	Lower Boulder Creek				\$20,000	\$20,000					maintenance (handed over from ACE) -- likely hire a contractor
d.	Wetlands inventory assessment		\$15,000	\$35,000		\$50,000	\$35,000				\$70k Grant from POS Foundation. Costs to be determined through RFP winter 2019-2020. Arthur Moss?
b.	Hall 2 Mine Reclamation						\$6,000	\$6,000			Maintenance of reclamation, post-bond, in conjunction with management plan
	Ecosystems Subtotal	\$0	\$61,500	\$35,000	\$38,000	\$145,825	\$122,325	\$66,000	\$150,000	\$0	\$0

Parks & Open Space Improvement Project Descriptions 2020-2025

BOCC Meeting, December 11, 2019

(Project numbers correspond to project numbers on Attachment A spreadsheet)

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RECREATION & FACILITIES Projects: POSIP Funds

1. **Lagerman Agricultural Preserve:** 2020 POSIP. In 2020, expand and upgrade the trailhead as necessary to accommodate horse and boat trailer parking, based on demand. This project will use in-house staff for construction.
2. **Heil 2 Improvements:** 2020 POSIP. The County purchased the 210 acre Heil 2 property in late 2012. This property lies on both the east and west side of Geer Canyon Drive south of the existing trailhead. A small area plan for Heil 2 was completed and approved in May, 2016, with improvements including a trails, trailhead, and trailhead amenities. The Overland Loop Trail opened in 2017; the Schoolhouse Trail and Corral Trailhead opened in Oct. 2019. POSIP funds are earmarked for completing the improvements adopted in the Heil Valley Ranch 2 Small Area Plan, including skills trail engineering and construction, ADA trail in corral area, port-a-potty enclosure at Altona Schoolhouse, and upgrades to main trailhead.
3. **Castle Rock Site Improvements:** 2020 POSIP. Castle Rock is a popular climbing and picnicking site in Boulder Canyon. Funding is to complete planning process for climbing management and implement improvements.
4. **AG Heritage Center Improvements:** 2020 POSIP for Phase 2 of irrigation site improvements and to install ADA access to the MacIntosh Barn (requires architectural and engineering plans). In 2014-2016 staff completed driveway improvements for site distance, upgraded an agriculture irrigation structure to correct erosion problems to the trail, completed Phase 1 irrigation improvements for the yard area near the house, and installed a culvert intercept by corrals.

5. **Walker Ranch Management Plan Implementation:** 2020 POSIP. The management plan update for Walker Ranch was completed in 2013. 2020 POSIP funds will be used for survey and design work to improve public access at the Homestead.
6. **Braly Loop Trail, Parking Lot, Trailhead:** 2021-2023 POSIP. Apply for Fishing-is-fun grant or GOCO trails grant in 2020. The St. Vrain Creek Corridor Open Space Management Plan was adopted in 2004. Among the visitor use goals identified is to develop a trailhead and related amenities at the Braly property. Plans include creating a loop trail, Trailhead and parking facility, to eventually be part of the St. Vrain corridor trail. Additional funding coming from cash-in-lieu funds and Boulder County Transportation (for construction of restroom for regional trail). See also HP #1.
7. **Rock Creek Spur – 104th St.:** 2021-2023 POSIP. There is an opportunity to connect the Coal Creek Trail with Rock Creek Farm via the S. 104th Street corridor. This connection has been identified as a high priority for Louisville and Lafayette and would provide access from these two communities to Rock Creek Farm and its trail system. Opportunities for making this connection include the utilization of the S. 104th Street right-of-way, the western boundaries of the open space properties themselves, or through the Colorado Technology Center. All combinations of these possibilities will be explored and if a trail should pass through an open space property, all efforts should be made to preserve the integrity and function of the agricultural resource, including irrigation concerns. Lafayette and Louisville are taking the lead on the planning and funding of this connection.
8. **Tolland Ranch Trail:** 2020-2022 POSIP. In January, 2015, Boulder County partnered with the Colorado State Forest Service and Great Outdoors Colorado, with coordination by The Conservation Fund, to acquire a conservation easement over approximately 3,334 acres of the Tolland Ranch property near Eldora Ski area in western Boulder County and Gilpin County. The acquisition includes a 6.5-mile long trail easement. In 2018 a Class III Cultural Resource Survey of the trail corridor was completed. Applied for a trail construction grant in 2019, begin trail construction in 2020 and continuing into 2021 and 2022 if needed. The purchase agreement stipulates that the trail must be open to the public no later than 2024.
9. **Anne U. White Trailhead:** 2021 POSIP. The Anne U. White trail was closed following the devastating 2013 flood. The two homes closest to the trailhead were a part of the buyout through the FEMA process, and the county Transportation Department finalized road work and access in 2019. Trailhead design options were evaluated and finalized in summer 2019, and construction is expected to be completed in late 2019. In 2020, engineering and permitting will be completed for restroom placement, with construction scheduled for 2021.
10. **Coalton Trail:** 2021 POSIP. Coalton Trail upgrades are planned to better match Rocky Mountain Greenway standards; this has been a high priority and request from the Town of Superior. Design work is on track to be completed in 2019 and will inform the cost estimate of the upgrades.
11. **Carolyn Holmberg Preserve at Rock Creek Farm Management Plan Implementation:** 2022-2023 POSIP. The Carolyn Holmberg Preserve at Rock Creek Farm Management Plan update began in 2019. Funds are for anticipated upgrades recommended in the updated management plan.
12. **Rock Creek Grasslands Trail:** 2022-2023 POSIP. Funds are for extending the Rock Creek Grasslands Trail from Pony Estates to Coal Creek Trail. City and County of Broomfield and Lafayette are interested in partnering to complete this planned trail connection. Broomfield has CIP money listed for 2022. Grant funding potential.

13. **Parking Lot Expansions:** 2023, 2025 POSIP. Consider additional expansion of park facilities at various parks, including Pella Crossing, Betasso Preserve, Mud Lake, Caribou Ranch, Hall Ranch, Heil Valley Ranch, Walden Ponds, and Walker Ranch. A planning process will be undertaken to establish priorities.
14. **Ron Stewart Preserve at Rabbit Mountain Management Plan Update Implementation:** 2023-2025 POSIP. Funds for potential trail and trailhead infrastructure improvements based on recommendations from the management plan update.

RECREATION AND FACILITIES Projects: Other Funds

15. **St Vrain Trail Construction to Pella** (Boulder County Transportation): 2021-2022. The St. Vrain Trail Master Plan was completed in 2006 in collaboration with the City of Longmont and Town of Lyons. Boulder County Transportation funds are earmarked for construction of trail from Airport Rd. to Pella Crossing. Possible grant funding.

HISTORIC PRESERVATION POSIP Projects:

1. **Braly Barn:** 2020 Phase I; 2021-2022 Phase II. The circa 1903 Braly barn is located on the historic Wencel Farm northwest of Hygiene. The County purchased the 112.48-acre property June 2000. Both the main branch and the south branch of St. Vrain Creek cross the property, which sustained significant damage during the historic 2013 flood. Flood repairs on the breached reservoirs will start in 2019, allowing plans for public access on the proposed St. Vrain trail which crosses through the property to resume (see RAF #6). In 2018, the barn's construction documents were updated in anticipation of applying for a 2019 State Historical Fund grant. In 2019, a \$200,000 grant was awarded, and 2020 POSIP funds will provide a cash match to the grant award. Construction will occur in 2020. Phase I scope of work is limited to structural repairs and includes architectural fees for project oversight to meet grant requirements. In Phase II, Buildings & Historic Preservation staff will complete rehabilitation work on the dairy barn addition, loading chute, main barn siding, windows, doors, and trim repairs not included in Phase I. Phase II cost estimate to be developed in 2020.
2. **Braly Garage:** 2020 POSIP. Continuing work at the Braly property in preparation for public access, funds will be used to repair the Braly garage, a building that contributes to the historic significance of the property as identified in the St. Vrain Creek Corridor Open Space Management Plan.
3. **Tumbleson House:** 2021 POSIP. The circa 1890s Tumbleson House at Hall Ranch was rehabilitated with GOCO Legacy Grant funds in 2001. Originally, foundation repairs were to begin in 2017, but due to the unexpected discovery of asbestos in the first-floor plaster walls, the focus of the project shifted to asbestos mitigation and the foundation repairs were delayed. As a result of the asbestos abatement revealing the source of the stone wall cracks, engineers believe a crack stitching project to bond the stone wall cracks together might be sufficient instead of the more costly foundation repair. In 2021, funds cover contract work for crack stitching and grout injection based on construction documents funded in 2019 POSIP. This work and future additional restoration work will ensure that the house remains viable for future uses that will be determined through the North Foothills Open Space Management Plan update, to be completed upon completion of the Hall 2 mine reclamation.
4. **Cultural Resource Survey:** 2022-2025 POSIP. Cultural Resources Management Team will establish project priorities based on department wide efforts or grant funded division projects that require or benefit from having a cultural resource survey completed in advance of project. Funding in future years will be used for cultural resource surveys on other priority properties, including a re-survey at

Walker Ranch to update the 38-year-old data, and to obtain data for previously unsurveyed properties that will contribute to a larger department effort. Other candidates include Ron Stewart Preserve at Rabbit Mountain, Mayhoffer Farm, Platt-Rodgers Memorial Park, Rogers, McCaslin Peppers, Walker Ranch and Forestry projects (high priorities because they support either a department wide effort or grant funded division project).

5. **Olivieri House, Garage, and Office:** 2023-2025 POSIP. Purchased in 2007, the Olivieri property is located in Sunshine Canyon and originally operated as a small-scale hard rock mining operation before becoming a vacation home for the Olivieri family for over 50 years. The buildings are a representative example of the types of rustic mining cabins that were typically constructed during the early 20th century through their simplicity of design and use of readily available natural materials. The ultimate use of the buildings will be determined through the development of the Cultural Resource Policy. Possible future work includes removal of the collapsed bunkhouse, and rehabilitation of the cabin, garage, and stone office building.
6. **Reynolds Ranch Log House:** 2023-2025 POSIP. The 1874 log house is part of the historic Hockaday Ranch located southeast of the Town of Nederland. Charles Hockaday, who most likely constructed the building, settled in the area after working as a freight operator from St. Joseph, Missouri to Central City, Colorado. The property is significant for its association with the early settlement of the area and the development of high country ranching. In preparation for a future use of the building as determined by the forthcoming Platt Rogers/Reynolds Ranch Open Space Management Plan, funding will cover the costs of the repairs.

PUBLIC EDUCATION POSIP Projects:

1. **Ag Heritage Center Exhibits:** 2020-2021 POSIP. Due to wear and tear, a number of exhibits installed in 2000 will be replaced over two years: "Faces of Boulder County," "Food," and "Tools of the Trade" exhibits.
2. **Braly & Ramey Interpretive Opportunities:** 2023-2024 POSIP. The St. Vrain Creek Corridor Open Space Management Plan was adopted in 2004. Among the educational and interpretive objectives identified is to develop signage focusing on the significance and protection of the riparian resources, and exploring the development of an environmental center on the Braly property using the double A-frame building. In 2023, trailside panels will be installed at Braly and Ramey properties highlighting the natural and cultural resources. 2024 funds will be used for the potential development of an environmental education center. See also RAF #6; HP #1-2.
3. **Nederland Mining Museum Exhibits:** 2025 POSIP. Replace some exhibits with interactive components so exhibits are more engaging for museum visitors to learn about hard rock mining in Boulder County.

AGRICULTURAL RESOURCES POSIP Projects:

Center Pivot and Lateral Sprinklers: BCPOS installs center-pivot and lateral irrigation systems to conserve water, reduce erosion, reduce labor costs, and increase crop production. The Natural Resources Conservation Service (NRCS) offers cost-share through their voluntary Environmental Quality Incentive Program (EQIP). This program will share on average 50% of the total cost. In addition to the environmental benefit, center pivots provide an economic benefit for the County through increased production; typically a 25% increase in production or more is attainable. This correlates into increased

revenue. Center pivot sprinklers are also a great benefit to our stewardship responsibilities. Farm field roads and open irrigation ditches are eliminated, reducing the prime location for noxious weeds to get established, and reducing the weed management costs.

Organic & Market Farms: Organic & market farms are generally small acreage farms and have the irrigation water and soils that are suited to growing vegetables or “Farmers Market” type produce. These types of crops are raised more efficiently with drip or sprinkler irrigation. This will require new irrigation infrastructure, which typically includes an irrigation water holding structure or pond, pumping station, some underground pipeline, and new electric service brought to the irrigation pump. These systems can supply irrigation water to overhead sprinklers and/or drip-tape irrigation.

1. Center Pivot & Lateral Sprinklers—Conventional Farms

- a. Ertl center pivot sprinkler – 2021 POSIP. Tenant raises livestock feed (corn/hay) on 67 ac.
 - Ag tenant will apply for EQIP program and cost share
- b. Barrett center pivot – 2021 POSIP.
 - Production is mostly alfalfa and grass hay for cattle feed.
 - Ag tenant has applied for EQIP program.
- c. Goldamay Anderson center pivot sprinkler – 2021 POSIP. Tenant raises alfalfa and grass hay on 120 ac.
 - Assume Ag tenant will be approved for EQIP program
 - Powered by electric powerline from Wasson project
- d. Henry & Ross: 2022-2023 POSIP (2 full circle with swing arm pivots planned over 2 years)
 - Tenant raises row crops (sugar beets, corn , alfalfa, etc.) on approximately 300 acres
 - No cost share from Ag tenant no EQIP funds for these pivots

2. Center Pivot—Organic Farms

- a. Haley subsurface drip irrigation with precision Ag technologies: 2024 POSIP
 - Tenant raises organic vegetables. The subsurface irrigation would be installed on 70 ac., half the productive acreage.
 - Much more efficient than sprinkler irrigation systems, but also more expensive

3. Organic Farm Stand Projects.

- a. Hygiene Dairy/Bishop: 2020 POSIP. – produce storage and processing facility. Tenant raises organic vegetables.
 - Construct a shed or building to allow for washing produce to meet the Food Safety Act
 - Also, included in the design will create some cold storage for winter squash and other produce
 - May include restroom facilities to meet the FSA hand washing requirements

4. Other Projects.

- b. Grain Storage (barley) – 2021 POSIP
 - Requests are coming in for brew barley storage because Coors is now requiring producers to store half of produce on farm.
- b. Water Measuring Devices – 2021-2022 POSIP
 - Will allow us to detect dam leaks and seepage and keep accurate record of water in reservoirs. Purchase sutran recorders and measuring weirs; use in-house staff for installation.
 - 2021 POSIP: install measuring device at Eddy/Prince Lake #2; 2022 POSIP: AHL/Swede Lake.

FORESTRY POSIP Projects:

Forest thinning treatments: 2019-2020 POSIP. These large projects are designed to reduce forest fuels through the implementation of Forest Restoration concepts. Restored forests have a structure that is better at responding to wildfire events. In addition, they are strategically located on the landscape to protect communities, watersheds, and infrastructure at risk.

1. 2020-2021 POSIP: Heil, Lichen Loop (162 ac.) This project is likely to receive grant funding from FEMA (pre-disaster mitigation) and the State of Colorado. The goal is to complete ponderosa pine restoration east of the Lichen Loop Trail at Heil Valley Ranch. Our plan is to complete 162 acres of fuels reduction across two units (PA1U1 and PA2U2).
2. 2021-2022 POSIP: Caribou and Sherwood Gulch (100 ac.)
3. 2023-2024 POSIP: Hall: Button Rock PA5 U1, U3-6
4. 2025 POSIP: Walker Ranch/Myers Gulch (355 ac.)

ECOSYSTEMS POSIP Projects:

1. **Flood restoration:** Funds from POSIP will be used to restore streams and floodplains that are not funded by other grant sources.
 - a. Brewbaker: 2020 POSIP. Left Hand Creek at the Brewbaker property is a high priority for our department, yet it did not rank high enough for FEMA funding in the Left Hand Creek Master Plan. COPS, also known as the County sales tax funds, will provide up to \$398,000 for finalizing design-build plans and construction of this project.
 - b. Niwot Ditch Fish Passage (Golden Fredstrom): 2020-2021 POSIP. A CPW Wetland Grant is providing funds for plant materials and volunteer services to restore parts of the St. Vrain Creek impacted in the 2013 Flood along the Golden Fredstrom property.
 - c. Parrish: 2021. Fund design for flood recovery on east parcel.
 - d. Geer Creek: 2022. Post flood stream restoration funded by COPS and POSIP will target priority areas needing stabilization and habitat improvements.
2. **Wildlife Habitat Restoration Projects:**
 - a. Ag Wildlife Habitat: 2020-2021 POSIP. Wildlife habitat and pollinator projects on agricultural properties: Swanson, Ertl, Puma, Montgomery Farms, AHL.
 - b. South Branch Ditch, St. Vrain Creek: 2021 POSIP. Funds will be used to restore the South Branch Ditch, a historical tributary of the St. Vrain Creek that runs through several BCPOS properties (Braly, Ramey, Western Mobile). This area is one of the best habitats for the federally threatened Preble's Meadow Jumping Mouse in Boulder County.
 - c. US 36 Wildlife Crossing: 2023 POSIP. Possible wildlife bridge or underpass with participation of Colorado Parks and Wildlife.
3. **Riparian Restoration:**
 - a. Wetlands inventory assessment: 2020 POSIP.
 - b. Lower Boulder Creek: 2020 POSIP. Maintenance funds post-Army Corps of Engineers project completion.
 - c. Bailey Ponds/Kenosha: 2019-2020 POSIP. This stream restoration on Boulder Creek was identified as a high priority in the Boulder Creek Master Plan. Partner with the Urban Drainage and Flood Control District for funding and implementation.
 - d. Zapf: 2020 POSIP. Plantings and/or fencing along the South Branch of St. Vrain Creek for Prebles meadow jumping mouse habitat improvements.

- e. Hall 2 Mine Reclamation: 2020-2021 POSIP. Maintenance of reclamation, post-bond, in conjunction with management plan implementation.
4. **Road/Social Trail Closure: 2025 POSIP.**
- a. Closing social trails/roads in partnership with USFS on the West Magnolia area and Reynolds Ranch property and in conjunction with building sustainable trails in other locations (pending completion of the Roberts/Reynolds Management Plan).

Resource Planning Schedule Nov. 2019*

	2019	2020	5-year	Notes
Regional Plains Trail Connectivity Plan				Overarching BOCC Priority
<i>Trail Alignment Planning</i>				
104th Street	x			Grant Application by Louisville/Construction funding shown in RAF CIP for 2022-23
Eldorado - Walker Connector Trail Feasibility Study	x			Public meetings in 2019; outcome will determine next phases
RMG-RFNWR SH 128 FLAP Underpass	x	x		Soil testing/analysis in 2019/2020
Rocky Mountain Greenway--South Segment	x	x	x	Select alignment based on outcome of SH 128 underpass project
SH 42 Trail at Harney-Lastoka			x	Louisville-initiated transportation planning process
Overlook Trail			x	Louisville-initiated planning project
Rock Creek Grasslands Trail--Broomfield to Lafayette			x	Broomfield has re-expressed interest in this. Approved in 2011 Management Plan.
<i>Long-Range Corridor Planning</i>				
BCCP Trails Element Update/Plains Trails Connectivity Plan	x	x		Scoping with POS, Transp, LU
Trail Requests - Municipalities, Transportation, & Others	x	x	x	Municipal Collaboration and Scoping
Foothill and Mountain Trails				
Anne U White Trailhead	x			Complete project design
Tolland - Magnolia Trails with USFS	x	x		Project heading toward design level... still coordination on USFS connections
Property and Area Management Plans				
Zapf Interim Plan	x			interim plan for immediate management needs
Rabbit Mountain		x		BOCC Priority
Rock Creek Farm Update	x	x		104th Trail, review prairie dog zones/ag, consider trail connections and wildlife detours, and study other opportunities and constraints
Mayhoffer Farm			x	BOCC Priority
Mud Lake Management Plan Amendment	x	x		Very minor amendment to address transfer of lands with Wild Bear and connecting trail
Policies and Subject Plans				
POS Strategic Plan	x	x		Working with department-wide staff and director's office to formulate/create strategic plan
POS Cultural Responsiveness & Inclusivity Strategic Plan	x	x		BOCC Priority
Policy Framework Plan		x		Provide Umbrella Framework for Mgmt. Policies especially Visitor Use
Cultural Resources			x	started prior to flood - on hold for flood work
Capacity/Parking Study and Plan		x	x	Examine potential for "front country" improvements on popular properties
Departmental Projects with Resource Planning Lead				
Bailey Ponds/Kenosha Ponds	x	x	x	tied into Kenosha water and Wittemeyer - working with City of Boulder
Big Springs Egress	x			Fire Access Review
Braly Property Planning for A-Frame Site/Trailhead		x	x	Historic Pres. work on CIP for 2020
Eldorado Springs Visitor Planning Process	x	x		County role in Addressing Visitor Management Plan with ECSP and OSMP
FEMA Project Worksheets (Scope Changes/Close-outs)	x	x	x	BOCC Priority
Hall II - Lyons Quarry Reclamation	x	x	x	Reclamation work restarting in 2019?
Land Use Code Changes for Environmental Resource Element	x			Finishing commitment to institute code changes to address ERE update
Niwot Ditch Fish Passage	x	x		Planning work related to project permitting
Resiliency planning	x	x	x	County-wide effort, determining POS role
Stream Management Plan - St. Vrain and Left Hand	x	x	x	BOCC Priority - planning and instream flow

*Staff is involved in a number of other planning projects with regional partners. Those listed in this document are projects staff is leading.