



# Parks & Open Space

5201 St. Vrain Road • Longmont, Colorado 80503  
303.678.6200 • Fax: 303.678.6177 • [www.BoulderCountyOpenSpace.org](http://www.BoulderCountyOpenSpace.org)

## MINUTES AND PROCEEDINGS OF THE PARKS AND OPEN SPACE ADVISORY COMMITTEE November 15, 2018

The meeting was called to order at 6:30 p.m. by John Nibarger in the Hearing Room of the Board of Commissioners, Third Floor, Boulder County Courthouse, Boulder, Colorado.

### **POSAC Members in Attendance**

Present: Sue Anderson, Jenn Archuleta, Kira Pasquesi, John Nibarger, Scott Miller [arrived 6:45], and Heather Williams

Excused: Cathy Comstock, Gordon Pedrow, and Jim Krug

### **Staff in Attendance**

Renata Frye, Jeff Moline, Tina Nielsen, Mary Olson, Al Hardy, Justin Atherton-Wood, Therese Glowacki, Vivienne Jannatpour, and Eric Lane

### **Approval of the October 25, 2018 Meeting Minutes**

Action Taken: Jenn Archuleta moved to accept the October 25 minutes. Sue Anderson seconded the motion. Motion carried unanimously. [John Nibarger abstained because he was not at the October meeting.]

### **Public Participation - Items not on the Agenda**

- Marcus Popetz, 2197 Jordan Pl., Boulder. He spoke about the Indian Peaks Traverse.

### **Anne U White Trail Management Plan Amendment for Parking Area Expansion**

*Staff Presenter: Justin Atherton-Wood - Senior Planner*

Public Comments: None

Action Taken: John Nibarger moved to accept staff recommendation for the management plan amendment as presented, and Jenn Archuleta seconded the motion. After discussion, motion carried unanimously.

## **Boulder County Parks & Open Space 2019-2024**

### **Capital Improvement Projects**

*Staff Presenter: Tina Nielsen - Special Projects Manager*

Public Comments: None

Action Taken: Jenn Archuleta moved to accept staff recommendation for the Capital Improvement Projects as presented, and Scott Miller seconded the motion. After discussion, motion carried unanimously.

### **Staff Updates**

At the request of POSAC, Jeff Moline gave a brief update to the Prairie Dog Management Plan process and the Eldorado Canyon to Walker Ranch Connection.

### **Director's Update**

- This year, a total of 349 surveys were collected from visitors to the Agricultural Heritage Center. The goal of the study is to better understand visitation patterns, demographics, amenity and exhibit preferences, and overall visitor experience.
- Last week, the BOCC accepted the staff recommendation to allow a one year pilot study allowing e-bikes on most plains trails where bikes are currently allowed, beginning Jan. 1. The exceptions are Walden Ponds and the three trails requested by the City of Boulder: the Boulder Canyon Trail, Mayhoffer Singletree Trail, and Coalton Trail.
- In-house forestry operations continue at Williams Merlin, 8 + acres have been completed and have yielded more than 1000 fence rails for future use.
- Reynolds Ranch forestry project is about 30% complete and the chips from this project are currently heating POS and the jail.
- Shortly after Thanksgiving, we expect to bring to the BOCC the recommendation to allow Superior to build a trailhead/parking lot at the Chu property. This was a recommendation advanced unanimously by POSAC on August 23.
- Our annual stakeholders meeting on prairie dogs will be held on Tuesday, Dec. 18, at POS in Longmont.
- If all continues as currently scheduled, we will be testing the new hearing room online streaming software at January's meeting.

### **Adjournment**

The meeting adjourned at 8:18 p.m.

Available staff memos and related materials for this meeting can be found on our website: [www.BoulderCountyOpenSpace.org/POSAC](http://www.BoulderCountyOpenSpace.org/POSAC)



# Parks & Open Space

5201 St. Vrain Road • Longmont, Colorado 80503  
303.678.6200 • Fax: 303.678.6177 • [www.bouldercounty.org](http://www.bouldercounty.org)

## PARKS & OPEN SPACE ADVISORY COMMITTEE MEETING

**DATE:** Thursday, November 15, 2018  
**TIME:** 6:30 pm  
**PLACE:** Commissioners' Hearing Room, Third Floor, Boulder County Courthouse,  
1325 Pearl Street, Boulder, CO

### AGENDA

#### *Suggested Timetable*

- 6:30 1. **Approval of the October 25, 2018 Meeting Minutes**
- 6:35 2. **Public Participation - Items not on the Agenda**
- 6:40 3. **Anne U White Trail Management Plan Amendment  
for Parking Area Expansion**  
*Staff Presenter: Justin Atherton-Wood - Senior Planner*  
**Action Requested: Recommendation to BOCC**
- 7:20 4. **Boulder County Parks & Open Space 2019-2024  
Capital Improvement Projects**  
*Staff Presenter: Tina Nielsen - Special Projects Manager*  
**Action Requested: Recommendation to BOCC**
- 8:05 5. **Director's Update**
- 8:15 6. **Adjourn**

Available staff memos & related materials for this meeting may  
be viewed on our website:

[www.BoulderCountyOpenSpace.org/POSAC](http://www.BoulderCountyOpenSpace.org/POSAC)



# Parks & Open Space

5201 St. Vrain Road • Longmont, Colorado 80503  
303.678.6200 • Fax: 303.678.6177 • [www.bouldercounty.org](http://www.bouldercounty.org)

## PARKS & OPEN SPACE ADVISORY COMMITTEE

<b>TO:</b>	Parks & Open Space Advisory Committee
<b>DATE/TIME:</b>	Thursday, November 15, 6:30 p.m.
<b>LOCATION:</b>	Commissioners Hearing Room, 3 <sup>rd</sup> floor, Boulder County Courthouse, 1325 Pearl Street, Boulder, CO
<b>AGENDA ITEM:</b>	<b>Anne U. White Trail Management Plan Amendment for Parking Area Expansion</b>
<b>PRESENTER:</b>	Justin Atherton-Wood, Senior Planner
<b>ACTION REQUESTED:</b>	Recommendation to the BOCC

The Anne U. White Trail is a unique natural surface hiking trail about 1 ¾ miles in length that traverses up a narrow canyon by hop-scotching back-and-forth across Fourmile Canyon Creek. The trail is located west of North Boulder near Lee Hill Road. The trail was significantly damaged by the September 2013 flood. Because of safety and access concerns, it is the only trail in the county's system affected by the disaster that remains closed. However, the flood recovery process is presenting opportunities for Parks & Open Space to find new solutions to parking issues that have been a concern for many years. The property will remain closed until a new parking area can be constructed and the remaining trail repairs can be completed. Here is the web page for the project: <https://www.bouldercounty.org/open-space/parks-and-trails/anne-u-white-trail/>

The popularity of the Anne U. White trail has grown over the years and with that so has the need for additional parking when the former five-car parking area located at the end of Pinto Drive had been insufficient during periods of high visitation. During those busy times, overflow parking occurred on the shoulder of Wagonwheel Gap Road. Congestion on the road has created safety concerns for vehicles, pedestrians, and emergency responders, and illegal parking has also negatively impacted neighbors.

The 2013 flood created significant devastation in the area and flood recovery has been multi-faceted. In addition to the trail and parking repair project, the Wagonwheel Gap Road repair project and adjacent stream restoration projects are essentially complete. Boulder County has also acquired property on Pinto Drive adjacent to the Anne U White Trail through the flood buyout program. In addition, staff members are working with another neighbor to potentially acquire property adjacent to the buyout parcels. When combined, these properties—along with the right-of-way at the end of Pinto Drive—provide an opportunity to create additional parking capacity and other trailhead amenities.

The existing management plan for the trail area is the *Fourmile Canyon Creek Park Management Plan*. It was adopted in 1985 after public opposition to the idea of a road being constructed in the canyon resulted in the county's acquisition of sufficient property interests to secure the right to manage and maintain the trail that is present today. It was during this time that Gilbert and Anne U. White donated a parcel of land to the county that was key to the success of the trail. Gilbert White is

known for his prominent contributions to floodplain management policy. Anne U. White, for whom the trail is named, was an early member of POSAC.

The management plan recommended that the existing informal trail be maintained as a foot-trail. However, horse travel was discouraged since the trail is extremely narrow in places and since the riparian habitat and creek are relatively pristine. These conditions remain true today. The management plan also recognized that if a loop trail to Eldorado Canyon State Park were to be completed the foot trail should be improved for equestrian use. Such a loop trail is not currently in any stage of planning. While the trail is currently designated for pedestrian and equestrian use, staff recommends that the trail be designated only for pedestrian use to protect the unique riparian resource values.

A planning area has been identified for study for a potential trailhead that is made up of Pinto Drive, a portion of the buyout lands, and the potential acquisition from the neighbor. Consistent with the general description of the lands described in the management plan, physical and spatial considerations influencing the design and extent of the potential parking area include a steep, erodible slope generally to the north; and, Fourmile Canyon Creek and its associated floodplain and valuable riparian habitat generally to the south. To the west, the planning area is limited by a pinch point where the creek turns south from the toe of the steep slope. The area of Pinto Drive where parking occurred prior to the flood occupies the eastern portion of the planning area.

An engineering analysis is currently being conducted to determine a viable footprint within which a new, expanded parking area can be designed and constructed. Preliminary information from the engineering analysis is being used by a multi-disciplinary team of county staff to develop conceptual designs for the parking area, along with a stream restoration component, that would expand parking capacity and also enhance natural resource values associated with the riparian corridor. These concepts will be posted on the project web page next week, shared at the neighborhood meeting on Tuesday, and also presented at the POSAC meeting on Thursday. While the information is still very preliminary, it appears that capacity for 15 to 20 vehicles is most feasible though additional capacity will be evaluated once better topographic information is available and the turning radius for necessary snow plows is better defined.

Staff have received input over the years about the desire for a restroom in this area. Staff believes that this would be an appropriate amenity to provide here given the extent of visitation and proximity to the creek. Almost all of the proposed trailhead area is in the floodplain. This is a permitting constraint that may limit the size and location of such a facility. Funding is also a concern so a permanent restroom facility may be part of a second phase of construction after the parking area is opened.

Trail visitation data from 2013 has been evaluated by staff to confirm assumptions about parking demand. Data compiled on six weekends in 2013 has been evaluated. It demonstrates that on pleasant weekend mornings there is a consistent demand to accommodate at least 30 vehicles and often more. This is consistent with anecdotal information from ranger staff, neighbors, and others who have reported the 20 to 30 vehicles, and sometimes more, consistently parking along Wagonwheel Gap Road with varying degrees of compliance with posted No Parking signs in the years prior to the flood.

Staff have been coordinating with Transportation staff in an on-going manner as part of the flood recovery process for this area. This coordination will continue as the trailhead design is developed. Given the constraints in the planning area, it does not appear feasible to accommodate the likely demand during the highest periods of visitation at the expanded parking area. We are working with Transportation staff and Ranger staff to identify methods for managing this concern and will have a plan in place by the time the property is reopened next year.

## **Public Process**

A public process for the amending the existing management plan amendment is underway. A web page with information about the project is available and provides a means to comment on the proposed parking area expansion.

A neighborhood meeting is scheduled to occur on Tuesday, November 13 at 7:00 p.m. at the Baltic Room on the located at the Boulder County North Broadway Campus (3450 Broadway Street). This meeting will be geared toward sharing the information about the project with neighbors and getting their input. All are welcome. Input from online and from the neighborhood meeting will be shared with POSAC at your November 15th meeting.

A proposed management plan amendment will come before the Board of County Commissioners for approval on Thursday, Dec. 13, 11 a.m. Public comment will continue to be accepted online until Tuesday, December 11th. All comments will be shared with BOCC.

The final design for the parking area and trailhead will be developed in 2019 based on the scope and scale of the facility that is approved by BOCC in the management plan amendment. We are striving to construct the parking area next spring in order to reopen the Anne U White Trail in the summer.

## **Staff Recommendation**

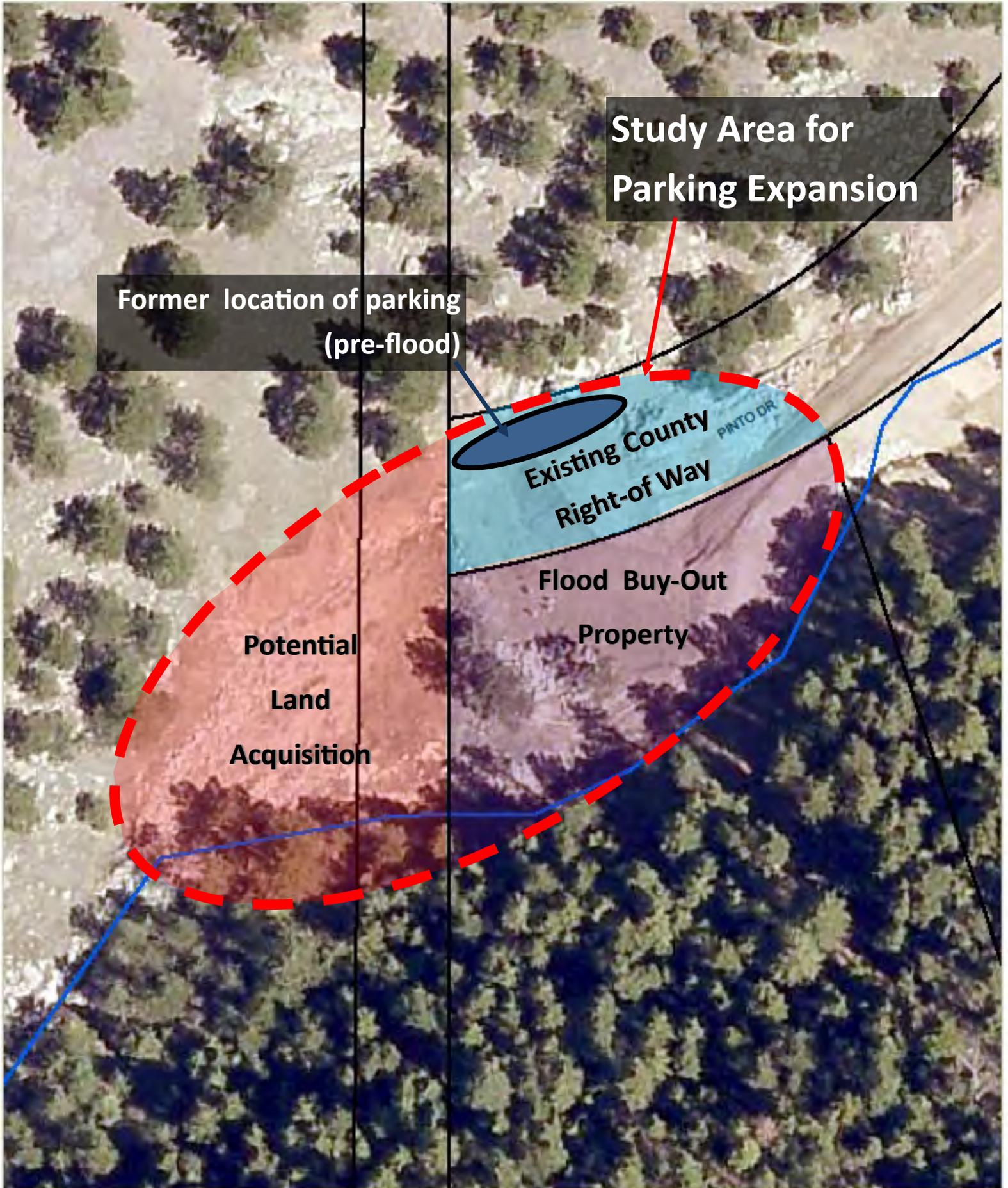
Staff are recommending that the *Anne U White Trail Management Plan (a/k/a Fourmile Canyon Creek Park Management Plan)* be amended to allow for expansion of the parking area that incorporates the following considerations:

- Parking capacity may be expanded to accommodate up to 35 vehicles, though it appears most likely that 15 to 20 vehicles is more feasible.
- Stream restoration along Fourmile Canyon Creek is an important component of any trailhead expansion that occurs. Consideration to riparian and aquatic habitat restoration, as well as wildlife movement, should be given significant weight in the trailhead design.
- A permanent restroom facility may be constructed at the trailhead assuming a suitable location can be identified and otherwise permitted.
- The Anne U White Trail shall be designated for pedestrian use only.
- In coordination with the Transportation Department, law enforcement, and the local fire district, a plan for managing parking and other safety and enforcement concerns during periods of high visitation shall be developed prior to reopening the trail.

### **POSAC Action Requested**

Recommendation to the Boulder County Commissioners for approval of the *Amendment to Anne U White Trail Management Plan (a/k/a Fourmile Canyon Creek Park Management Plan)*, as described above and as further described by staff at the POSAC meeting.

Suggested motion language: I move approval of the *Amendment to Anne U White Trail Management Plan (a/k/a Fourmile Canyon Creek Park Management Plan)*, project as staff has described.



**Study Area for  
Parking Expansion**

**Former location of parking  
(pre-flood)**

**Existing County  
Right-of-Way**  
PINTO DR

**Flood Buy-Out  
Property**

**Potential  
Land  
Acquisition**



# Parks and Open Space

5201 St. Vrain Road • Longmont, Colorado 80503  
 303.678.6200 • Fax: 303.678.6177 • [www.bouldercounty.org](http://www.bouldercounty.org)

## PARKS AND OPEN SPACE ADVISORY COMMITTEE MEETING

**TO:** Parks & Open Space Advisory Committee

**DATE:** Thursday, November 15, 2018

**AGENDA ITEM TITLE:** Boulder County Parks and Open Space 2019-2024 Capital Improvement Projects

**PRESENTER:** Tina Nielsen, Special Projects Manager

**ACTION REQUESTED:** Recommend Approval

### Background

Boulder County annually approves a 5-year Capital Improvement Project plan and budget for the Parks and 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.

Five years out from the historic 2013 flood, we can finally say that much of the recovery work is close to wrapping up. Most flood recovery funding is separate from our normal capital budget; however some of that work continues to be reflected in the ecosystems CIP category.

### 2019 Capital Improvement Project Budget Summary

Category	2019				
	2018 Carryover	Grants	Partner/ Other	CIP	Total
Recreation & Facilities	\$92,000	\$0	\$0	\$89,750	\$181,750
Historic Preservation	\$33,412	\$200,000	\$0	\$55,000	\$288,412
Public Education	\$0	\$0	\$0	\$25,000	\$25,000
Agriculture	\$0	\$72,069	\$92,330	\$81,805	\$212,204
Forestry	\$0	\$960,000	\$0	\$161,500	\$1,121,500
Ecosystems	\$98,000	\$0	\$498,000	\$146,400	\$742,400
<b>CIP Total</b>	<b>\$223,412</b>	<b>\$1,232,069</b>	<b>\$590,330</b>	<b>\$559,455</b>	<b>\$2,571,266</b>
Contingency				<b>\$190,545</b>	<b>\$190,545</b>
<b>Grand Total</b>	<b>\$223,412</b>	<b>\$1,232,069</b>	<b>\$590,330</b>	<b>\$750,000</b>	<b>\$2,761,811</b>

## **Staff Discussion and Recommendation**

The \$750,000 capital improvement budget is distributed between six project categories: Recreation & Facilities; Historic Preservation; Public Education; Agricultural Resources; Ecosystems; and Forestry. Funding for all of these categories, except for a portion of the Forestry budget that comes from the county's general fund, comes from the sales tax approved by voters in 2010.

Priorities for most capital projects follow directly from management plans and master plans adopted by the Board of County Commissioners following a public process. 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 CIP budget with over \$1.8 million in grants and partnerships in the Historic Preservation, Agriculture, Forestry, and Ecosystem categories. These additional funding sources include:

- Potential grant from the State Historical Fund for the Braly Barn Phase I restoration.
- Partnerships with our Agricultural tenants and the grants they receive from the Colorado Natural Resource Conservation Service through their Environmental Quality Incentive Program.
- Grants from FEMA Pre-Disaster Mitigation, and the State Forest Service (State Fire Assistance/Wildland Urban Interface) for forestry work.
- Boulder County Certificate of Participation bond funds (flood recovery tax), Colorado Parks and Wildlife wetlands grant match funds for flood restoration, and the Urban Drainage and Flood Control District grants for riparian restoration work.

The CIP 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 CIP 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 Requested**

Recommend BOCC approval of the Boulder County Parks and Open Space 2019-2024 CIP.

## **Attachments** (available at [www.BoulderCountyOpenSpace.org/POSAC](http://www.BoulderCountyOpenSpace.org/POSAC))

- A. Boulder County Parks and Open Space Proposed 2019-2024 CIP Spreadsheets
- B. Capital Improvement Project Descriptions for 2019-2024 CIP

## Summary of 2019 Capital Improvement Projects

		2019				Total
		2018 Carryover	Grants	Partner/ Other	CIP	
<b>Recreation &amp; Facilities</b>						
1	Heil 2 Improvements	\$36,000	\$0	\$0	\$55,000	\$91,000
2	Construction & Maintenance Guidelines	\$50,000	\$0	\$0	\$19,750	\$69,750
3	Ag Heritage Center Improvements	\$6,000	\$0	\$0	\$15,000	\$21,000
4	Anne U. White Trailhead	\$0	\$0	\$0	\$\$\$	\$\$\$
<b>Recreation &amp; Facilities CIP Subtotal</b>		<b>\$92,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$89,750</b>	<b>\$181,750</b>
<b>Historic Preservation</b>						
1	Braly Barn Phase I	\$3,488	\$200,000	\$0	\$0	\$203,488
2	Cultural Resource Survey	\$0	\$0	\$0	\$30,000	\$30,000
3	Tumbleson House	\$29,924	\$0	\$0	\$0	\$29,924
4	Heil 2 Caboose 2199	\$0	\$0	\$0	\$25,000	\$25,000
5	Major Maintenance	\$0	\$0	\$0	\$\$	\$\$
<b>Historic Preservation Subtotal</b>		<b>\$33,412</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$55,000</b>	<b>\$288,412</b>
<b>Public Education</b>						
1	Cardinal Mill	\$0	\$0	\$0	\$25,000	\$25,000
<b>Public Education CIP Subtotal</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$25,000</b>
<b>Agricultural Resources</b>						
1	Becky - Lateral sprinkler	\$0	\$50,693	\$68,841	\$38,774	\$158,308
2	Boulder County Land Venture - electric service to pivot	\$0	\$0	\$0	\$34,000	\$0
3	Cherry Creek Tree Farm - center pivot	\$0	\$21,376	\$23,489	\$9,031	\$53,896
<b>Ag CIP Subtotal</b>		<b>\$0</b>	<b>\$72,069</b>	<b>\$92,330</b>	<b>\$81,805</b>	<b>\$212,204</b>
<b>Forestry/Fire CIP</b>						
1	Heil: Lichen Loop PA1 (U1, U2) (162 Acres)	\$0	\$960,000	\$0	\$61,500	\$1,021,500
2	Heil Valley Ranch (Ingersol Rx) 260 Acres Target	\$0	\$0	\$0	\$100,000	\$100,000
<b>Forestry CIP Subtotal</b>		<b>\$0</b>	<b>\$960,000</b>	<b>\$0</b>	<b>\$161,500</b>	<b>\$1,121,500</b>
<b>Ecosystems</b>						
1	Flood Restoration 6354510	\$86,000	\$0	\$398,000	\$46,400	\$530,400
2	Wildlife Habitat Restoration 6354508	\$0	\$0	\$0	\$40,000	\$40,000
3	Grassland Restoration 6354502	\$12,000	\$0	\$0	\$30,000	\$42,000
4	Native Plant Propagation 6354503	\$0	\$0	\$0	\$15,000	\$15,000
5	Riparian Restoration 6354506	\$0	\$0	\$100,000	\$15,000	\$115,000
6	Reclamation/Revegetation 6354505	\$0	\$0	\$0	\$0	\$0
<b>Ecosystems CIP Subtotal</b>		<b>\$98,000</b>	<b>\$0</b>	<b>\$498,000</b>	<b>\$146,400</b>	<b>\$742,400</b>
<b>CIP Total</b>		<b>\$223,412</b>	<b>\$1,232,069</b>	<b>\$590,330</b>	<b>\$559,455</b>	<b>\$2,571,266</b>
<b>Contingency Fund</b>					<b>\$190,545</b>	<b>\$190,545</b>
<b>Grand Total</b>		<b>\$223,412</b>	<b>\$1,232,069</b>	<b>\$590,330</b>	<b>\$750,000</b>	<b>\$2,761,811</b>

Recreation & Facilities Capital Improvement Projects 2019-2024

RAF CIP	2018 Expected Carryover	2019				2020	2021	2022	2023	2024	Project Descriptions
		Grants	Partner/ Other	CIP	Total 2019						
1	Heil 2 Improvements	\$36,000			\$55,000	\$91,000					Implementation of Heil 2 Small Area Plan infrastructure. Complete Eastside Trail, School House Loop Trail, Corral Trailhead. Altona School site development. Install restroom and equestrian parking.
2	Construction & Maintenance Guidelines	\$50,000			\$19,750	\$69,750					B-06: Create construction and maintenance guidelines for POS facilities
3	Aq Heritage Center Improvements	\$6,000			\$15,000	\$21,000					Complete Phase 2 implementation of irrigation and site improvements at AHC utilizing in-house labor. ADA Access for MacIntosh Barn. Building Permit will require Architect/Engineer plans.
4	Anne U. White Trailhead		\$		\$	\$					Scope and cost TBD. Build in 2019.
5	Lagerman Agricultural Preserve						\$130,000				Expand and modify trailhead as necessary based on demand, with particular attention horse trailers and boat trailers. In-house construction.
6	Betasso Parking Expansion						\$130,000				The 2009 Betasso Management Plan provides for expansion of current trailhead capacity if increase in visitor use warrants, as a medium priority based on long term >5 years review.
7	Walker Ranch Management Plan Implementation						\$40,000				Implement Management Plan improvements: Redesign and build Ethel Harold parking lot. Natural play area design and installation at Meyers Trailhead.
8	Braly Loop Trail, Parking Lot, Trailhead					Grant Application	\$15,000	\$			Potential Fishing is Fun grant. Development or site dependent on flood restoration. Transportation funding of regional restroom. CIL funding of 48k available for R & F.
9	Tolland Ranch Trail					Grant Application	\$5,000	\$	\$		Submit 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 fund. Trail needs to be open to the public no later than 2024.
10	Castle Rock Site Improvements							\$			Completion of Planning process related to Climbing Management could identify recreation site improvements for Castle Rock area
11	Parking Lot Expansions								\$	\$	Consider additional expansion of park facilities such as: Mud Lake, Caribou, Hall Ranch, Walden, and Walker.
12	Rock Creek Spur - 104th Street							\$	\$		Trail link from Lafayette and Louisville to Rock Creek Farm and its trail system; identified as high priority by Louisville and Lafayette
13	Reynolds Ranch/Rogers/Castle Rock Improvements									\$	Start implementation of any approved recommendations from management plan process.
<b>Recreation &amp; Facilities CIP Subtotal</b>		<b>\$92,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$89,750</b>	<b>\$181,750</b>	<b>\$320,000</b>	<b>\$0</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
<b>Recreation &amp; Facilities other funding</b>											
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.
<b>Other Recreation &amp; Facilities Funding Subtotal</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>Recreation &amp; Facilities CIP Subtotal</b>		<b>\$92,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$89,750</b>	<b>\$181,750</b>	<b>\$320,000</b>	<b>\$0</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

**Historic Preservation Capital Improvement Projects 2019-2024**

Historic Preservation: \$100K	2019					2020	2021	2022	2023	2024	Project Descriptions
	2018 Carryover	Grants	Partner/ Other	CIP	Total 2019						
1 Braly Barn Phase I	\$3,488	\$200,000		\$0	\$203,488	\$100,000					Complete 2018 construction documents in order to prepare construction documents for April 1 2019 SHF grant application. Grant announcement Aug 1, 2019. If awarded, grant contract executed late fall 2019. Develop RFP winter 2019. Out to bid early 2020. Cash match not required until project start. Construction summer/fall 2020. Phase I scope limited to structural repairs and include architectural fees for project oversight to meet grant requirements. Estimated cost to be refined over winter 2018-2019.
2 Cultural Resource Survey				\$30,000	\$30,000		\$	\$	\$	\$	2019 - Indian Mountain cultural resource survey. 2021-2024 - Walker Ranch re-survey or other high priority that ties into a department wide effort or project.
3 Tumbleson House	\$29,924			\$0	\$29,924	\$			\$	\$	2019 - Contract out crack stitching construction documents with 2018 carryover funds. Crack stitching cost estimate to be developed in 2019. 2020 - Possible crack stitching project to be out to bid. 2023-2024 - Contract out installation of septic, restroom, water service, interior plastering, electrical, plumbing and parking needs for future use as determined by the N. Foothills Open Space Management Plan.
4 Heil 2 Caboose 2199				\$25,000	\$25,000						2019 - Caboose facelift and asbestos abatement. High Plains Railroad Preservation Association will provide guidance for appropriate repairs and techniques.
5 Major Maintenance				\$	\$			\$	\$		2019 - RFP to determine cost estimate (1st Q 2019) for Carolyn Holmberg Preserve at Rock Creek Farm spring/summer outbuilding painting. 2022- Reshingling the Agricultural Heritage Center Lohr McIntosh barn. 2023 - Reshingling the Walker wagon barn, cabin or well house.
6 Braly Garage						\$35,000					2019 - AI will get a cost estimate together during fall/winter 2018-2019 to revise current placeholder. 2020 - Buildings and Historic Preservation to complete repairs.
7 Olivieri House, Garage, Office								\$	\$	\$	2022-2024 - Buildings & Historic Preservation rehabilitation of cabin, garage and office building. Remove collapsed bunkhouse and contract out site stabilization work.
8 Reynolds Ranch Log House								\$	\$	\$	2022-2024 Buildings & Historic Preservation to begin repairs for future use determined by the Platt Rogers/Reynolds Ranch Open Space Management Plan.
9 Henning Barn				\$							2019 - assess and estimate cost
<b>Historic Preservation Subtotal</b>	<b>\$33,412</b>	<b>\$200,000</b>		<b>\$55,000</b>	<b>\$288,412</b>	<b>\$135,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	

**Public Education Capital Improvement Projects 2019-2024**

	Public Education	2019					2020	2021	2022	2023	2024	Project Descriptions
		2018 Carryover	Grants	Partner/ Other	CIP	Total 2019						
1	Cardinal Mill				\$25,000	\$25,000						Interior exhibits for the top and bottom of mill
2	Ag Heritage Center						\$125,000			\$		2020 or 2021: 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
3	Braly & Ramey Interpretive Opportunities							\$10,000			\$	2020/2021: Trailside panels along Braly trails (series) and possibly Ramey property (1 panel) 2024: Braly Environmental Center
4	Nederland Mining Museum									\$25,000		Interpretive plan for hard rock mining sites, and begin updating Nederland Mining Museum exhibits
	<b>Subtotal</b>	\$0	\$0	\$0	\$25,000	\$25,000	\$125,000	\$10,000	\$0	\$25,000	\$0	

**Agricultural Resources Capital Improvement Projects 2019-2024**

Agricultural Resources	2018 Carryover	2019				2020	2021	2022	2023	2024	Project Descriptions
		Grants	Partner/ Other	CIP	Total 2019						
<b>1. Center Pivot &amp; Lateral Sprinklers - Conventional</b>											
a.	Becky - Lateral sprinkler	\$50,693	\$68,841	\$38,774	\$158,308						Center pivot irrigation sprinkler (EQIP)
b.	G. Anderson - center pivot					\$35,000					Full center pivot sprinkler
c.	Henry & Ross- 2 center pivots							\$200,000	\$175,000		Two full center pivot with swing arm (no EQIP, tenant cost share)
<b>2. Center Pivot &amp; Lateral Sprinklers - Organic</b>											
a.	Boulder County Land Venture - electric service to pivot			\$34,000							Currently using diesel generator
b.	Cherry Creek Tree Farm - center pivot	\$21,376	\$23,489	\$9,031	\$53,896						Wiper center pivot (EQIP)
c.	Haley - install irrigation system									\$175,000	Lateral or pivot irrigation sprinkler for organic farm
<b>3. Organic Farm Stand Projects</b>											
a.	Hygiene Dairy/Bishop - produce storage and processing facility					\$20,000	\$130,000				Food Safety Act - will have guidelines for washing and storage facility in the coming years 2020- architect
<b>4. Other Projects</b>											
a.	John Clark - boundary fence & irrigation					\$25,565					5-strand barbed wire along N. 95th St. And north boundary. Safety issue with livestock excaping and getting hit by cars
<b>Ag CIP Total</b>		<b>\$72,069</b>	<b>\$92,330</b>	<b>\$81,805</b>	<b>\$212,204</b>	<b>\$80,565</b>	<b>\$130,000</b>	<b>\$200,000</b>	<b>\$175,000</b>	<b>\$175,000</b>	

**Forestry-Fire CIP 2019-2024**

1	Forestry/Fire CIP	2019				2020	2021	2022	2023	2024	Project Descriptions	
		2018 Carryover	Grants	Partner/Other	CIP							Total 2019
1	<b>Forest Thinning Treatments</b>										<b>Forest ID Team will work out Details</b>	
a.	Heil: Lichen Loop PA1 (U1, U2) (162 Acres)		\$960,000		\$61,500	\$1,021,500	\$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. <b>Has Approved ID Team Prescription.</b>	
b.	Caribou and Sherwood Gulch (PA1 U2 & U3) (100 acres)						\$102,500	\$102,500			Applied for a 2019 Grant for \$245,000, match to complete project would be \$205,000 possibly over two years. Additional match from staff time. Should know by April of 2019. Project could possibly be pushed until 2021/2022 if CIP dollars needed elsewhere. 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. <b>Will Have Approved SOW by Early 2019. Could be interchanged with Caribou project.</b>	
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. <b>Has Approved Prescription.</b>	
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. <b>Will Have Approved Prescription by Early 2018.</b>	
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)	
2	<b>Prescribed-Fire/Activity Fuels Projects</b>										<b>Burning activity fuels from completed mechanical operations, or burning to maintain open forest structure. All of the following listed projects may be burned at any one time, meaning that if they have approved PRF and Burn Plan they can be burned.</b>	
a.	Heil Valley Ranch (Ingersol Rx) 260 Acres Target				\$100,000	\$100,000					This all depends on what can be completed by the BCSO. Typical first entries can cost \$500 per acre. We estimate that we can complete at least 250 acres each year. <b>Approved PRF, Burn Plan Almost Complete. Money identified for property may be shifted to other location due to conditions.</b>	
b.	Rabbit Mountain (Arapaho Rx) 350 Acre Target (3444 Total)						\$100,000				Based on a 250 acre year at \$500 per acre. <b>PRF and Burn Plan Approved</b>	
c.	Betasso (Arkansas RX) 262 Acres							\$100,000			Based on a 250 acre year at \$500 per acre. <b>PRF Approved.</b>	
d.	Hall Ranch (Nelson Loop Rx) 860 Acres							\$100,000			Based on a 250 acre year at \$500 per acre. <b>PRF Approval Early 2018</b>	
e.	Walker: (Walker Rx) 1056 Acres								\$100,000		Based on a 250 acre year at \$500 per acre. <b>PRF Approval Early 2018</b>	
f.	Heil: (Wapiti/Wapiti2) 440 Acres									\$100,000	Based on a 250 acre year at \$500 per acre. <b>Approved PRF and Burn Plan</b>	
<b>Forestry/Fire CIP Subtotal</b>		<b>\$0</b>	<b>\$960,000</b>	<b>\$0</b>	<b>\$161,500</b>	<b>\$1,121,500</b>	<b>\$264,000</b>	<b>\$202,500</b>	<b>\$200,000</b>	<b>\$380,000</b>	<b>\$250,000</b>	

**Ecosystems CIP 2019-2024**

Ecosystems	2019					2020	2021	2022	2023	2024	Project Descriptions
	2018 Carryover	Grants	Partner/ Other	CIP	Total 2019						
<b>1 Flood Restoration 6354510</b>											
a. Brewbaker	\$86,000		\$398,000	\$31,400	\$515,400						Post-flood stream restoration funded by COPS and CIP Ecosystems. Postponed due to CLOMR
b. Golden Fredstrom			\$\$\$	\$15,000	\$15,000	\$11,325					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.
<b>2 Wildlife Habitat Restoration</b>											
b. Black Footed Ferret Reintro				\$23,000	\$23,000	\$23,000					Dust, SPV, and staff time for plague control on pdog towns for future
c. Loukonen Dairy Farm, Parcel F				\$12,000	\$12,000						Fencing off portions of the Lake Ditch/ephemeral drainage for PMJM habitat.
a. Ag Wildlife Habitat				\$5,000	\$5,000	\$8,000	\$12,000				Wildlife habitat and pollinator projects on ag properties: Swanson, Ertl, Puma, Montgomery Farms, AHI
d. South Branch Ditch/St. Vrain						\$8,000					Fencing off portions of the South Branch Ditch at Braly and Sadar for PMJM habitat
e. US36 Wildlife Crossing									\$150,000		Underpass or fencing for possible US36 wildlife crossing
<b>3 Grassland Restoration 6354502</b>											
a. Mowing: Various Properties				\$30,000	\$30,000	\$30,000					Mowing for restoration on Rock Creek Grasslands, Egg Farm, CEMEX, et. al.
b. CEMEX	\$12,000				\$12,000	\$10,000					Weed control and additional forb seeding on 140 acres of Cemex
c. Cheatgrass Restoration						\$20,000	\$20,000	\$20,000			400 acres of treatment for cheatgrass infestation usign Esplanade
<b>4 Native Plant Propagation 6354503</b>											
a. Native Seed Collection and Increase				\$15,000	\$15,000	\$15,000	\$15,000	\$15,000			Seed collection & increase of local ecotypes not available on commercial market, including seed increase at Peck.
<b>5 Riparian Restoration 6354506</b>											
a. Bailey Ponds/Kenosha			\$100,000	\$10,000	\$110,000	\$10,000					\$400,000 from UDFCD by 2020 (\$100K a year) for construction. UD also covering design costs
b. Lower Boulder Creek				\$5,000	\$5,000						Kenosha East and West Ponds reclamation & wetland planting. Post-LBC construction maintenance.
c. Zapf						\$15,000					Plantings and/or fencing along South Branch for PMJM habitat at Zapf property
d. Sherwood Creek							\$50,000				Assessment of Sherwood Gulch stream daylight through mine area.
<b>6 Reclamation/Revegetation 6354505</b>											
a. Conger Mine (Sherwood Gulch)						\$7,000					2019 - Reclaim the bare areas of the Conger Mine at the Sherwood Gulch property; 2020 funds to assess and plan for daylighting Sherwood Creek through mine.
b. Hall 2 Mine Reclamation							\$6,000	\$6,000			Maintenance of reclamation, post-bond, in conjunction with management plan implementation.
<b>7 Road/Social Trail Closure</b>											
a. Reynolds Rogers						\$15,000	\$12,000				Closing social trails/roads in conjunction with trail building on the Reynolds property.
<b>Ecosystems Subtotal</b>	<b>\$98,000</b>	<b>\$0</b>	<b>\$498,000</b>	<b>\$146,400</b>	<b>\$742,400</b>	<b>\$172,325</b>	<b>\$165,000</b>	<b>\$101,000</b>	<b>\$150,000</b>	<b>\$0</b>	

# Boulder County Parks and Open Space Capital Improvement Project Descriptions 2019-2024

POSAC Meeting, November 15, 2018

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

## Contents

RECREATION AND FACILITIES Projects.....	1
HISTORIC PRESERVATION Projects.....	2
PUBLIC EDUCATION Projects .....	4
AGRICULTURAL RESOURCES Projects.....	4
FORESTRY Projects.....	5
ECOSYSTEMS Projects .....	6

### RECREATION AND FACILITIES Projects: CIP Funds

1. **Heil 2 Improvements:** 2019 CIP. 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. CIP funds are earmarked for completing the improvements adopted in the Heil Valley Ranch 2 Small Area Plan. See also HP #4.
  
2. **Construction & Maintenance Guidelines:** 2018 carryover + 2019 CIP. Vision 2020 includes the goal of the creating construction and maintenance guidelines for parks related facilities. The RFP was awarded in late 2018 and work will be completed in 2019.
  
3. **AG Heritage Center Improvements:** 2019 CIP 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 culvert intercept by corrals. Phase 2 work includes additional irrigation and plantings to entry and central yard area.
  
4. **Anne U. White Trailhead:** 2019 CIP. The Anne U. White trail has been closed since the devastation of the 2013 flood. Work on the trail is essentially completed, and has benefitted from the help of numerous volunteer days. The two homes closest to the trailhead were a part of the buyout through the FEMA process, and the county Transportation Department is working on the road and access into 2019. Trailhead design options will be evaluated and finalized by first quarter 2019, and construction is expected to be completed in 2019.

5. **Lagerman Agricultural Preserve:** 2020 CIP. 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.
6. **Betasso Parking Expansion:** 2020 CIP. The 2009 Betasso Preserve Management Plan calls out expansion of current trailhead capacity as a medium priority based on visitor use and demand.
7. **Walker Ranch Management Plan Implementation:** 2020 CIP. The management plan update for Walker Ranch was completed in 2013. 2020 CIP funds will be used for upgrade of Ethel Harrold Trailhead.
8. **Braly Loop Trail, Parking Lot, Trailhead:** 2020-2021 CIP. Apply for Fishing-is-fun grant or GOCO trails grant in 2019. 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.
9. **Toll Property Trail:** 2019-2021 CIP. 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. Plan is to apply for a trail construction grant in 2019 with trail construction in 2020-2022 as needed.
10. **Castle Rock Site Improvements:** 2021 CIP. Castle Rock is a popular climbing and picnicking site in Boulder Canyon. A planning process is underway to determine recreation site improvements the Castle Rock area.
11. **Parking Lot Expansions:** 2022, 2024 CIP. Consider additional expansion of park facilities at various parks, including Mud Lake, Caribou Ranch, Hall Ranch, Walden Ponds, and Walker Ranch.
12. **Rock Creek Spur – 104<sup>th</sup> St.:** 2022-2023 CIP. 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.
13. **Reynolds Ranch/Rogers/Castle Rock Improvements:** 2022-2023 CIP. Master planning will be occurring for improvements. Funds are earmarked for implementing the approved improvements.

#### **RECREATION AND FACILITIES Projects: Other Funds**

14. **St Vrain Trail Construction to Pella** (Boulder County Transportation). The St. Vrain Trail Master Plan was completed in 2006 in collaboration with the City of Longmont and Town of Lyons. Construction timing of the trail segment from Airport Road to Pella Ponds depends on real estate acquisitions.

## **HISTORIC PRESERVATION CIP Projects:**

1. **Braly Barn Phase I:** 2019-2020 CIP. 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 ~~are nearly complete~~, allowing plans for public access on the proposed St. Vrain trail which crosses through the property to resume (see RAF #13). In 2018, the barn's construction documents were updated in anticipation of applying for a 2019 State Historical Fund grant. If awarded, the 2019 CIP 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. Cost estimate to be refined over winter 2018-2019.
2. **Cultural Resource Survey:** 2019 CIP. In 2019, CIP funds will be used to conduct a cultural resource survey at Indian Mountain in anticipation of the increased visitor use on the property by Amerian Indian groups and individuals. 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.
3. **Tumbleson House:** 2018 CIP carryover; 2020, 2023-2024 CIP. 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 2019, the plan is to contract out the crack stitching construction documents with 2018 CIP carryover funds, in order to develop a cost estimate for work, anticipated to go to bid and be completed in 2020. Additional restoration work is on the CIP in 2023-2024. The repair work will ensure that the house remains viable for future uses to be determined through the North Foothills Open Space Management Plan update.
4. **Heil 2 Caboose 2199:** 2019 CIP. Complete the 1891 caboose facelift and asbestos abatement as part of Heil 2 Trailhead preparations. High Plains Railroad Preservation Association will provide guidance for appropriate repairs and techniques.
5. **Major Maintenance:** 2019, 2022-2023 CIP. Funding is allocated for high cost projects that extend beyond the operation and maintenance budget capability. Projects include painting outbuildings at the Carolyn Holmberg Preserve at Rock Creek Farm, re-shingling the Agricultural Heritage Center Lohr McIntosh barn, and work on the Walker Ranch wagon barn, cabin and well house.
6. **Henning Barn: 2019 CIP cost estimate.** Recreation and Facilities will obtain a cost estimate to complete the barn repairs. Located on the Western Mobile property, the 1905 barn is one of last remaining features of the Henning Farm, an early 20<sup>th</sup> century farm that incorporated dairy into their operation in the 1950s. A silo and loafing shed also remain on the property. Once a complete farm complex with over 10 buildings and structures, the large hay barn is a a historic icon on the landscape that is visible while driving on Hygiene Road.
7. **Braly Garage:** 2020 CIP. Continuing work at the Braly property in preparation for public access (see HP #1), 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 Management Plan .

8. **Olivieri House, Garage, and Office:** 2022-2024 CIP. 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 20<sup>th</sup> century through their simplicity of design and use of readily available natural materials. The Buildings and Historic Preservation crew will removed the collapsed bunkhouse, rehabilitate the cabin, garage and stone office building.
9. **Reynolds Ranch Log House:** 2022-2024 CIP. 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. Operations and maintenance funds will cover any small necessary repairs until 2021. See also RAF #13.

#### **PUBLIC EDUCATION CIP Projects:**

1. **Cardinal Mill Exhibits:** 2019 CIP. Interior exhibit themes for the top and bottom of the mill will include Old Cardinal and current Cardinal site, life in a mining town, and how a mill works. This is the final step in a years-long restoration effort to bring the mill to life for public interpretation.
2. **Ag Heritage Center Exhibits:** 2020 CIP. Due to wear and tear, a number of exhibits installed in 2000 will be replaced: "Faces of Boulder County," "Food," and "Tools of the Trade" exhibit.
3. **Braly & Ramey Interpretive Opportunities:** 2021 CIP. Trailside panels will installed at Braly and Ramey properties highlighting the natural and cultural resources. See also RAF #9; HP #4.
4. **Nederland Mining Museum Exhibits:** 2023 CIP. 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 CIP Projects:**

**Center Pivot and Lateral Sprinklers:** We install 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. Becky lateral sprinkler – 2019
  - Ag tenant will apply for EQIP program and cost share
  - Powered by new electric powerline from Wasson project
- b. Goldamay Anderson center pivot sprinkler – 2020
  - Assume Ag tenant will be approved for EQIP program
  - Also powered by electric powerline from Wasson project
- c. Henry & Ross: 2022-2023 (2 full circle with swing arm pivots planned over 2 years)
  - Approximately 300 acres
  - No cost share from Ag tenant no EQIP funds for these pivots

### **2. Center Pivot—Organic Farms**

- a. Boulder County Land Venture center pivot upgrade: 2019
  - Install new electric service to operate existing center pivot
  - Currently operation with diesel powered generator
- b. Cherry Creek Tree Farm – center pivot wiper: 2019
  - Will use existing irrigation pond and powerline
  - Relative inexpensive to add to existing system to expand irrigation to east half of farm
- c. Haley subsurface drip irrigation with precision Ag technologies: 2024
  - Much more efficient than sprinkler irrigation systems, but also more expensive

### **3. Organic Farm Stand Projects.**

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

### **4. Other Projects.**

- b. John Clark – boundary fence and irrigation: 2020
  - a. The west boundary is currently without a fence. A fence will be constructed on west boundary to allow for livestock grazing in the winter months
  - b. This fence installation will interfere with the current irrigation system, so a new gated pipe irrigation system would be the best solution to be able to continue to irrigate this farm

## **FORESTRY CIP Projects:**

1. **Forest thinning treatments:** 2019-2020 CIP. 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.
  - a. 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).

- b. Caribou and Sherwood Gulch (100 ac.)
  - c. Hall: Button Rock PA5 U1, U3-6
  - d. Walker Ranch/Myers Gulch (355 ac.)
  - e. Hall: Button Rock PA6 U3-4
  - f. Hal PA7U5 Stands 1-3 (12.5 ac.) Nelson donut
2. **Prescribed Fire/Activity Fuels Projects:** 2019 CIP. After BCPOS has completed mechanically thinning some of our forests, the ideal next step for ecological process is to reintroduce fire. Our Prescribed Fire Interdisciplinary team (Fire ID Team) identifies appropriate areas to use this management practice. It can include areas of grassland and shrub land, as well as forests that have been thinned in the last several years. The Fire ID Team prioritizes projects based on preparedness and opportunity, therefore may complete work in other locations as needed
- a. 2019 Heil Valley Ranch, Ingersol RX (260 acres): This project area was treated in 2013 utilizing mastication equipment due to the steep slopes and accessibility. Mastication works leaves behind activity fuels, which we hope to remove/consume through prescribed fire operations in the project area. This will be a first entry reintroduction of fire into the area. It will be a very complex prescribed burn project.
  - b. 2020 Rabbit Mountain, Arapaho RX (350 acres): There is the need to carry over money for this project due to the delay in invoicing by the State for utilizing the Juniper Valley hot shot jail crew out of Buena Vista. Additionally, Rabbit Mountain in the second priority for continued prescribed fire activity, with a maximum of 350 acres being burned each year.
  - c. 2021 Betasso (Arkansas RX) 262 ac.
  - d. 2022 Hall Ranch (Nelson Loop RX) 262 ac.
  - e. 2023 Walker Ranch 1.056 ac.
  - f. 2024 Heil (Wapiti/Wapiti2) 440 ac.

### **ECOSYSTEMS CIP Projects:**

1. **Flood:** 2018 carryover + 2019 CIP. Funds from CIP will be used to restore streams and floodplains that are not funded by other grant sources.
  - a. Brewbaker: 2019 CIP. 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. Golden Fredstrom: 2019-2020 CIP. 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: Post flood stream restoration funded by COPS and CIP will target priority areas needing stabilization and habitat improvements.
  
2. **Wildlife Habitat Restoration Projects:**
  - a. Black Footed Ferret Reintroduction: 2019-2020 CIP. Meet 2020 Vison Goal to reintroduce Black Footed Ferrets by 2020. In order to do this, funds are needed to purchase plague vaccine and flea dust for plague prevention to help increase prairie dog populations that have been negatively affected by plague.
  - b. Loukonen Dairy Farm, Parcel F: 2019 CIP. Fence off portions of the Dake Ditch/ephemeral drainage for Prebles meadow jumping mouse habitat.

- c. Ag Wildlife Habitat: 2019-2021 CIP. Wildlife habitat and pollinator projects on agricultural properties: Swanson, Ertl, Puma, Montgomery Farms, AHI.
  - d. South Branch Ditch, St. Vrain Creek: 2020 CIP. 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.
  - e. US 36 Wildlife Crossing: 2023
3. **Grassland Restoration Projects:**
- a. **Mowing:** 2019-2020 CIP. Because of all the mowing maintenance needed on multiple grassland restoration properties, a separate category was created for this need. Funds are used to rent a tractor and hire a seasonal mower, enabling more efficient and effective mowing on Rock Creek Grasslands, Egg Farm, CEMEX and others.
  - b. **CEMEX Restoration:** 2019-2020 CIP. Restoration efforts began in 2004 and will continue through 2019. The southern approximately 160 acres will be planted to perennial natives in 2019.
  - c. **Cheatgrass Restoration:** 2020-2022 CIP. BCPOS has been using an exciting new tool for restoring areas invaded by the annual grass, cheatgrass (*Bromus tectorum*), also called downy brome (*Bromus japonicus*). Research using the herbicide Esplanade has released native vegetation suppressed by cheatgrass dominance. Applications will be made on a larger scale of up to 400 acres with this funding.
4. **Native Plant Propagation:** 2019-2022 CIP. POS is collecting local, native ecotypes of seed that are not available commercially. These funds are used to support the following: 1) our volunteer native seed collection program, 2) the Native Seed Garden at the Peck property, and 3) additional seed increase from commercial farms operations. The local native seed we generate will be available for current and future flood recovery and ecological restoration projects.
5. **Riparian Restoration Projects:**
- a. Bailey Ponds/Kenosha: 2019-2020 CIP. 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.
  - b. Lower Boulder Creek: 2020 CIP. Maintenance funds post-Army Corps of Engineers project completion.
  - c. Zapf: 2020. Plantings and/or fencing along the South Branch of St. Vrain Creek for Prebles meadow jumping mouse habitat improvements.
  - d. Sherwood Creek 2021 CIP. A portion of the creek buried in mine tailings at Sherwood Gulch will be daylighted and restored.
6. **Reclamation/Revegetation Projects:**
- a. Conger Mine at Sherwood Gulch: 2020 CIP. Illegal shooting has become a problem at the Conger Mine. Bare areas will be reclaimed and large piles of woody debris will be moved so that they are not used as shooting targets.
  - b. Hall 2 Mine Reclamation: 2021-2022 CIP. Maintenance of reclamation, post-bond, in conjunction with management plan implementation.
7. **Road/Social Trail Closure:** 2020-2021 CIP. 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.