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Memorandum

March 25, 2019

TO: Members of the Colorado General Assembly

FROM: Legislative Council Staff, 303-866-3521

SUBJECT: 2019 Capital Construction Projects Included in Introduced Long Bill

Summary

This memorandum summarizes the capital construction, controlled maintenance, and capital information technology (IT) project recommendations made by the Capital Development Committee and the Joint Technology Committee for FY 2019-20. It also describes the Joint Budget Committee action with regard to these recommendations. Finally, it details the capital projects and associated costs included in Senate Bill 19-207, the 2019 Long Bill, as introduced. SB 19-207 includes appropriations for 82 capital projects totaling \$249.6 million.

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Prioritized Funding Recommendations

Capital Development Committee Recommendations

Over the course of several months, the Capital Development Committee (CDC) reviewed the capital construction budget requests submitted for funding consideration by the Governor's Office of State Planning and Budgeting (OSPB) and the Colorado Commission on Higher Education (CCHE). After deliberation, the CDC submitted its prioritized funding recommendation for FY 2019-20 capital projects to the Joint Budget Committee on February 19, 2019. It made subsequent modifications to its prioritized recommendation on March 18, 2019. The CDC prioritized funding recommendations can be found here: <http://leg.colorado.gov/node/1445921/>.

The CDC recommendations encompassed many of the projects recommended for funding by OSPB; however, the CDC's recommendations also made a number of modifications to the list submitted by OSPB in November 2018. The CDC divided its funding recommendation into three tiers, with tier 1

comprised of 71 projects totaling \$213.8 million in state funds, an amount intended to align with OSPB's FY 2019-20 capital funding recommendation of \$213.6 million. The tier 1 recommendation includes 13 projects recommended for funding by OSPB; the CDC lowered the priorities of four projects recommended for funding by OSPB while moving four projects not recommended for funding by OSPB into tier 1. The CDC also recommended funding for tiers 2 and 3 should additional moneys become available for capital construction. After meeting with the JBC on March 14, 2019, the CDC reordered some priorities within tiers 2 and 3 and moved level 3 controlled maintenance up to tier 3 in an effort to maintain aging facilities and thus avoid loss of use. As a result, tiers 2 and 3 consist of 71 projects plus additional funding for a tier 1 project, totaling \$156.2 million in state funds. In total, across three tiers, the CDC recommended state funding for 142 projects — 13 state department capital construction projects, 18 higher education capital construction projects, 28 level 1 controlled maintenance projects, 51 level 2 controlled maintenance projects, 31 level 3 controlled maintenance projects, and 1 lease-purchase payment. The CDC also recommended cash funds spending authority for five projects.

Joint Technology Committee Recommendations

The Joint Technology Committee (JTC) reviewed the capital construction IT budget requests submitted for funding consideration by OSPB and CCHE. After deliberation, the JTC submitted its prioritized funding recommendation for FY 2019-20 capital IT projects to the Joint Budget Committee on February 25, 2019. The full text of the JTC recommendation can be found here: <http://leg.colorado.gov/node/1445926/>. The JTC recommendation includes the full list of projects recommended for funding by OSPB and CCHE. The JTC also recommended cash funds spending authority for two projects.

Joint Budget Committee Action

The Joint Budget Committee included the first 13 of the 17 tier 1 priorities in the Long Bill; none of the projects in tiers 2 and 3 are in the Long Bill.

The Joint Budget Committee followed the JTC prioritized funding recommendation, but did not fully fund the recommended list of projects. Specifically, eight projects recommended by the JTC are not included in the introduced Long Bill. The additional state cost to fund these projects is \$8.9 million.

FY 2019-20 Capital Construction Projects Included in Introduced Long Bill

The Long Bill includes 82 capital projects with a total FY 2019-20 cost of \$249.6 million. Of this amount, \$166.3 million (66.6 percent) is from state funds and \$83.3 million (33.4 percent) is from cash and federal funds. Of the \$166.3 million recommended in state funds, \$101.6 million (61.1 percent) is allocated to capital construction, \$54.6 million (32.8 percent) to controlled maintenance, and \$10.1 million (6.1 percent) to capital IT projects. Figure 1 provides a summary of the recommended projects by funding category. Figure 3 is a summary of the cost and total number of capital construction, controlled maintenance, and capital IT projects appropriated to each department and

higher education institution included in the Long Bill. Figures 1 and 3 includes state- and cash-funded projects.

**Figure 1
FY 2019-20 Capital Projects in Long Bill**

Project Type	#	Fund Source	Amount
Controlled Maintenance Projects	56	Capital Construction Fund	\$54,561,688
		Cash Funds	\$2,135,115
		Federal Funds	\$397,370
		Subtotal	\$57,094,173
		Percent of Total	22.9 %
Capital Renewal and Recapitalization Projects	13	Capital Construction Fund	\$67,930,018
		Cash Funds	\$13,916,654
		Subtotal	\$81,846,672
		Percent of Total	32.8 %
Capital Expansion Projects	5	Capital Construction Fund	\$33,631,151
		Cash Funds	\$52,041,005
		Subtotal	\$85,672,156
		Percent of Total	34.3 %
Information Technology Projects	8	Capital Construction Fund	\$10,137,676
		Cash Funds	\$4,597,441
		Federal Funds	\$10,267,500
		Subtotal	\$25,002,617
		Percent of Total	10.0 %
Totals	82	Capital Construction Fund	\$166,260,533
		Cash Funds	\$72,690,215
		Federal Funds	\$10,664,870
		Grand Total	\$249,615,618

Source: Legislative Council Staff.

Revenue for FY 2019-20 Capital Projects Included in 2019 Long Bill

As shown in Figure 1, the cost to fully fund the capital projects included in the 2019 Long Bill is \$249.6 million. Figure 2 summarizes the sources of revenue identified to fully fund these projects, including \$102.3 million in transfers included in Senate Bill 19-214, as introduced.

Figure 2
Source of Revenue for FY 2019-20 Capital Construction Projects

Amount	Source
\$1,362,463	Capital Construction Fund available balance
2,300,000	Capital Construction Fund projected FY 2018-19 interest earnings
264,405	Depreciation lease-equivalent payments
60,000,000	Statutory transfer pursuant to Senate Bill 17-262
	Transfers for capital construction included in SB 19-214:
102,333,665	100,833,665 General Fund
	500,000 General Fund Exempt Account
	1,000,000 State Historical Fund
72,690,215	Cash match for various projects
10,664,870	Federal funds
\$249,615,618	Total

Source: Legislative Council Staff.

Of the \$102.3 million transferred from the General Fund to the Capital Construction Fund in SB 19-214, \$10.1 million will be transferred to the IT Capital Account to pay costs associated with capital IT projects.

FY 2019-20 Capital Project Totals by Agency

Figure 3 shows the total number of projects appropriated to each state department and higher education institution in SB 19-207, as introduced. The projects are sorted by category. Attachment A includes short descriptions of each of the capital projects included in the Long Bill and recommended for funding by the JBC.

Figure 3
FY 2019-20 Summary of Capital Projects by Agency or Institution

Department or Institution	#	CCF	CF*	Total
Adams State University				
Controlled Maintenance Projects	1	\$1,037,625	-	\$1,037,625
Totals	1	\$1,037,625	-	\$1,037,625

**Figure 3 (Cont.)
FY 2019-20 Summary of Capital Projects by Agency or Institution**

Department or Institution	#	CCF	CF*	Total
Agriculture				
Controlled Maintenance Projects	1	\$1,527,448	-	\$1,527,448
Totals	1	\$1,527,448	-	\$1,527,448
Arapahoe Community College				
Controlled Maintenance Projects	1	\$1,692,460	-	\$1,692,460
Totals	1	\$1,692,460	-	\$1,692,460
Auraria Higher Education Center				
Capital Renewal and Recapitalization Projects	1	\$18,488,778	\$200,000	\$18,688,778
Totals	1	\$18,488,778	\$200,000	\$18,688,778
Colorado Community Colleges — Lowry				
Controlled Maintenance Projects	2	\$1,316,448	-	\$1,316,448
Totals	2	\$1,316,448	-	\$1,316,448
Colorado Mesa University				
Controlled Maintenance Projects	1	\$556,973	-	\$556,973
Totals	1	\$556,973	-	\$556,973
Colorado Northwestern Community College				
Controlled Maintenance Projects	1	\$826,045	-	\$826,045
Totals	1	\$826,045	-	\$826,045
Colorado School of Mines				
Controlled Maintenance Projects	4	\$2,275,759	-	\$2,275,759
Capital Expansion Projects	1	\$1,856,741	\$9,369,018	\$11,225,759
Totals	5	\$4,132,500	\$9,369,018	\$13,501,518
Colorado State University				
Controlled Maintenance Projects	6	\$3,794,625	\$2,135,115	\$5,929,740
Capital Renewal and Recapitalization Projects	1	\$13,482,700	\$9,000,000	\$22,482,700
Capital Expansion	1	-	\$16,570,927	\$16,570,927
Totals	8	\$17,277,325	\$27,706,042	\$44,983,367
Colorado State University — Pueblo				
Controlled Maintenance Projects	2	\$1,621,400	-	\$1,621,400
Totals	2	\$1,621,400	-	\$1,621,400
Corrections				
Controlled Maintenance Projects	8	\$10,950,066	-	\$10,950,066
Totals	8	\$10,950,066	-	\$10,950,066
Education				
Controlled Maintenance Projects	1	\$972,421	-	\$972,421
Totals	1	\$972,421	-	\$972,421
Fort Lewis College				
Controlled Maintenance Projects	1	\$1,638,838	-	\$1,638,838
Totals	1	\$1,638,838	-	\$1,638,838

**Figure 3 (Cont.)
FY 2019-20 Summary of Capital Projects by Agency or Institution**

Department or Institution	#	CCF	CF*	Total
Front Range Community College				
Controlled Maintenance Projects	1	\$895,427	-	\$895,427
Capital Expansion	1	\$11,927,424	\$3,696,060	\$15,623,484
Totals	2	\$12,822,851	\$3,696,060	\$16,518,911
Health Care Policy and Financing				
Information Technology Projects	1	\$1,140,833	\$10,267,500	\$11,408,333
Totals	1	\$1,140,833	\$10,267,500	\$11,408,333
History Colorado				
Controlled Maintenance Projects	1	\$475,237	-	\$475,237
Capital Renewal and Recapitalization Projects	1	-	\$700,000	\$700,000
Information Technology Projects	1	\$366,472	\$116,554	483,026
Totals	3	\$841,709	\$816,554	\$1,658,263
Human Services				
Controlled Maintenance Projects	3	\$3,323,991	-	\$3,323,991
Capital Renewal and Recapitalization Projects	4	\$20,474,778	\$1,858,564	\$22,333,342
Information Technology Projects	1	\$2,320,949	-	\$2,320,949
Totals	8	\$26,119,718	\$1,858,564	\$27,978,282
Labor and Employment				
Information Technology Projects	1	-	\$2,785,277	\$2,785,277
Totals	1	-	\$2,785,277	\$2,785,277
Lamar Community College				
Controlled Maintenance Projects	2	\$1,726,995	-	\$1,726,995
Information Technology Projects	1	\$570,422	\$15,000	\$585,422
Totals	3	\$2,297,417	\$15,000	\$2,312,417
Military and Veterans Affairs				
Controlled Maintenance Projects	1	\$397,370	\$397,370	\$794,740
Capital Renewal and Recapitalization	1	\$2,667,390	-	\$2,667,390
Totals	2	\$3,064,760	\$397,370	\$3,462,130
Morgan Community College				
Controlled Maintenance Projects	1	\$796,400	-	\$796,400
Totals	1	\$796,400	-	\$796,400
Natural Resources				
Capital Renewal and Recapitalization	1	-	\$2,158,090	\$2,158,090
Capital Expansion	1	-	\$11,000,000	\$11,000,000
Totals	2	-	\$13,158,090	\$13,158,090
Northeastern Junior College				
Controlled Maintenance Projects	1	\$522,638	-	\$522,638
Totals	1	\$522,638	-	\$522,638
Office of Information Technology				
Controlled Maintenance Projects	1	\$921,419	-	\$921,419
Capital Renewal and Recapitalization	1	\$10,316,372	-	\$10,316,372
Information Technology Projects	1	\$5,264,000	-	\$5,264,000
Totals	3	\$16,501,791	-	\$16,501,791

**Figure 3 (Cont.)
FY 2019-20 Summary of Capital Projects by Agency or Institution**

Department or Institution	#	CCF	CF*	Total
Otero Junior College				
Controlled Maintenance Projects	1	\$719,565	-	\$719,565
Information Technology Projects	1	\$475,000	\$75,000	\$550,000
Totals	2	\$1,194,565	\$75,000	\$1,269,565
Personnel and Administration				
Controlled Maintenance Projects	4	\$5,295,323	-	\$5,295,323
Capital Renewal and Recapitalization	2	\$2,000,000	-	\$2,000,000
Information Technology Projects	1	-	\$1,605,610	\$1,605,610
Totals	7	\$7,295,323	\$1,605,610	\$8,900,933
Pikes Peak Community College				
Controlled Maintenance Projects	1	\$1,252,375	-	\$1,252,375
Totals	1	\$1,252,375	-	\$1,252,375
Public Safety				
Controlled Maintenance Projects	1	\$728,106	-	\$728,106
Totals	1	\$728,106	-	\$728,106
Pueblo Community College				
Controlled Maintenance Projects	1	\$864,246	-	\$864,246
Totals	1	\$864,246	-	\$864,246
Red Rocks Community College				
Controlled Maintenance Projects	1	\$1,566,978	-	\$1,566,978
Totals	1	\$1,566,978	-	\$1,566,978
Transportation				
Capital Renewal and Recapitalization	1	\$500,000	-	\$500,000
Totals	1	\$500,000	-	\$500,000
Trinidad State Junior College				
Controlled Maintenance Projects	1	\$1,281,211	-	\$1,281,211
Totals	1	\$1,281,211	-	\$1,281,211
University of Colorado at Boulder				
Controlled Maintenance Projects	2	\$2,162,921	-	\$2,162,921
Totals	2	\$2,162,921	-	\$2,162,921
University of Colorado at Colorado Springs				
Controlled Maintenance Projects	1	\$870,802	-	\$870,802
Totals	1	\$870,802	-	\$870,802
University of Colorado Denver (Anschutz)				
Controlled Maintenance Projects	1	\$727,427	-	\$727,427
Capital Expansion Projects	1	\$19,846,986	\$11,405,000	\$31,251,986
Totals	2	\$20,574,413	\$11,405,000	\$31,979,413
University of Northern Colorado				
Controlled Maintenance Projects	1	\$489,672	-	\$489,672
Totals	1	\$489,672	-	\$489,672

**Figure 3 (Cont.)
FY 2019-20 Summary of Capital Projects by Agency or Institution**

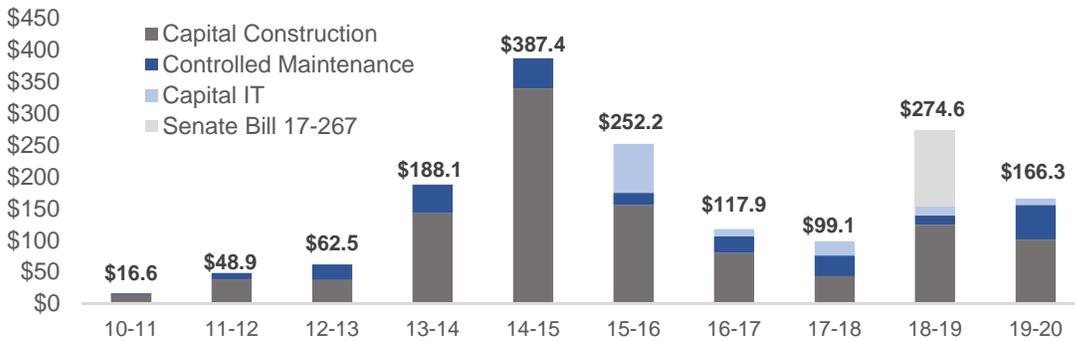
Department or Institution	#	CCF	CF*	Total
Western State Colorado University				
Controlled Maintenance Projects	1	\$1,333,477	-	\$1,333,477
Totals	1	\$1,333,477	-	\$1,333,477
Grand Totals	82	\$166,260,533	\$83,355,085	\$249,615,618

Source: Legislative Council Staff.
*Includes cash and federal funds.

Funding History

Figure 4 provides a ten-year history of state funding from the CCF for capital construction, controlled maintenance, and capital IT projects. The FY 2019-20 recommendation for state-funded capital construction, controlled maintenance, and capital IT projects is about \$11.7 million, or 7.5 percent, more than the amount funded in FY 2018-19, notwithstanding about \$120.0 million in projects authorized through Senate Bill 17-267 and reflected in the FY 2018-19 totals below.

**Figure 4
History of State Funding for Capital Construction Projects
(dollars in millions)**



Source: Legislative Council Staff.
Note: Prior to FY 2015-16, capital IT projects were requested through the regular capital construction budget. The Figure 4 capital construction appropriation totals include funding for capital IT projects for FY 2010-11 through FY 2014-15.

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Adams State University <i>Replace Campus Boilers, Five Buildings</i> <p>The project replaces boilers in five buildings that experience a variety of maintenance issues. Each boiler was installed between 1996 and 2001 and boiler failure is a concern during subzero winter conditions. The affected buildings are McDaniel Hall, Performing Arts, Library, Facilities, and Business and Economics.</p>	CCF	\$1,037,625
Arapahoe Community College <i>Replace HVAC Primary Equipment, Main Building</i> <p>The project addresses deterioration of the cooling, heating, and air handling systems in the Main and Annex buildings. Phase I replaces the chiller, which was manufactured in 1973, is beyond its life expectancy, and has no redundancy system. Phase II will replace the cooling tower, which is nearing the end of its life cycle and should be moved onto the roof for ease of access. Phase III will replace a steam boiler, also manufactured in 1973, and the associated air handling units.</p>	CCF	\$1,692,460
Auraria Higher Education Center <i>Replace Heating and Hot Water System (Capital Renewal)</i> <p>The project replaces Auraria Higher Education Center's campus-wide heating and hot water system. Most of the buildings on the AHEC campus are currently served by Xcel Energy's steam system, which serves the heating and hot water needs for hundreds of buildings in downtown Denver.</p>	CCF CF	\$18,488,778 \$200,000
Colorado Community Colleges — Lowry <i>Upgrade Controls and Replace Boilers and Air Handling Units, Building 753</i> <p>The project replaces boilers, chillers, pumps, air handling units, and associated piping and controls in Building 753. The existing equipment is original to the building and some components are beyond their useful life.</p>	CCF	\$800,359
Colorado Community Colleges — Lowry <i>Upgrade Security Systems</i> <p>The three-phase project installs door hardware, door controllers, and cameras and provides an integrated electronic security system for the campus. Several buildings on campus are manually locked and others are on a separate security system that is outdated. This year's request for Phase II replaces existing electronic locks and installs new cameras, while Phase III will complete the new system and replace additional cameras. Phase I replaced manual locks with new electronic locks.</p>	CCF	\$516,089
Colorado Historical Society (History Colorado) <i>Fire Mitigation, Georgetown Railway Loop Area C</i> <p>The three-phase project addresses fire risk on 349 acres by removing, de-limbing, or chipping forest fuel. The dead and overgrown live trees, if ignited, pose a serious threat to property and personnel at the railroad. Each phase will address about 116 acres. Previous efforts have mitigated 177 acres, including through the use of controlled maintenance funding in FY 2015-16 and FY 2016-17.</p>	CCF	\$475,237
Colorado Historical Society (History Colorado) <i>Office of Archeology and Historic Preservation Database and Systems Modernization</i> <p>The project implements a new cloud-based and customized web application for the Office of Archeology and Historic Preservation (OAHP). According to History Colorado, the new system will integrate the three current systems used by OAHP (Site Files, GIS, and Compass) and allow for paperless electronic submissions and payment.</p>	CCF CF	\$366,472 \$116,554

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Colorado Historical Society (History Colorado) <i>Regional Museum Preservation Projects</i> The project addresses a number of historic preservation issues at the state's regional museums. Specifically, the project repairs, restores, and upgrades historic sites and museums around Colorado. This is an annual request to preserve regional museums and support the business operations of History Colorado.	CF	\$700,000
Colorado Mesa University <i>Upgrade HVAC and Controls, Heiny Hall</i> The project replaces the HVAC system in Heiny Hall with a new system that uses variable refrigerant flow equipment and controls. The existing system is 48 years old and at the end of its useful life. It has limited control over heating and cooling and does not circulate air effectively.	CCF	\$556,973
Colorado Northwestern Community College <i>Refurbish Hydronic Heat System, Johnson Building, Rangely Campus</i> The project improves the heat system in the Johnson Building by cleaning/replacing baseboard supply and return lines, replacing three boilers, and replacing the heating/cooling coils within air handling units. Poor water quality has led to plugged lines entering baseboards and coils, non-existent water treatment, and damaged heat exchangers requiring 5-15 hours of service per week to protect buildings.	CCF	\$826,045
Colorado School of Mines <i>Remediate Campus Fall Hazards</i> The three-phase project installs fall hazard mitigation systems in 15 buildings on campus. The new systems improve safety conditions by providing secure attachment points, ladders, self-closing gates, guardrail extensions, steps, and grab bars for maintenance workers. This year's request for Phase II installs systems in six buildings. Phase I installed systems in six buildings and Phase III will install systems in three more buildings.	CCF	\$527,474
Colorado School of Mines <i>Replace Obsolete Controls, Lakes Library</i> The project replaces obsolete temperature controls in the building. The existing controls are outdated, require manual operation, and are difficult to calibrate.	CCF	\$339,744
Colorado School of Mines <i>Replace Primary Power Transformers</i> The project replaces primary electrical transformers at five buildings on campus. The existing transformers show indications of overheated insulation and are at risk of electrical fault.	CCF	\$737,163
Colorado School of Mines <i>Subsurface Frontiers Building</i> The project constructs an interdisciplinary research facility called the Subsurface Frontiers Building. In partnership with the United States Geological Survey, the building will house both organizations' mineral exploration and subsurface mineral economics programs. The project constructs a 155,189-GSF, five-story building to house research laboratories, imaging labs, classrooms, conference rooms, offices, and associated spaces.	CCF	\$1,856,741
Colorado School of Mines <i>Upgrade Fire Alarm Mass Notification</i> The four-phase project upgrades the fire alarm mass notification systems in 12 buildings on campus. The campus fire alarm network needs to be upgraded to support modern fire alarm panel functions and enable campus notification in the event of a dangerous situation, which is critical to the health and life safety of students, faculty, and staff. This year's request for Phase II upgrades the Brown, Chauvenet, Coolbaugh, and CTLM buildings. Phase I upgraded systems in three buildings, and Phases III and IV will upgrade systems in five more buildings.	CCF	\$671,378

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Colorado State Fair <i>Replace HVAC Systems, Event Center</i> <p>The project replaces five rooftop air handlers to address HVAC systems that are past their useful life. One unit is inoperable and the remaining units do not provide adequate heating, cooling, or ventilation of dust and vehicle exhaust. The new system will be programmable so it can operate on a limited schedule when the facility is unoccupied.</p>	CCF	\$1,527,448
Colorado State University <i>Modernize Elevators, Atmospheric Science and Eddy Hall</i> <p>The project makes various upgrades to the elevators in two buildings to improve reliability, reduce entrapment, meet current code, and integrate the elevators with fire alarm monitoring systems. The elevator in Atmospheric Science requires installation of a controller, a pump unit, and door equipment; the project replaces the hydraulic jack for the Eddy Hall elevator.</p>	CCF	\$281,930
Colorado State University <i>National Western Center Lease Payments</i> <p>The request makes an annual lease payment for the first tranche of certificates of participation (COPs) issued to finance the construction of buildings on the National Western Center campus and affiliated buildings on the main Colorado State University campus.</p>	CF	\$16,570,927
Colorado State University <i>Replace Domestic Water Line, University Avenue</i> <p>The project installs 1,050 linear feet of water line along University Avenue to provide water to 12 buildings on the main campus. The lining of the existing water line has eroded and the university routinely flushes the line in order to maintain acceptable water quality. The project will be coordinated with the repaving of University Avenue in summer 2019.</p>	CCF	\$537,676
Colorado State University <i>Replace Emergency Generator, Police Services Building</i> <p>The project replaces an emergency electrical backup system with an emergency generator that can power the entire Police Services Building. The existing back-up system only serves the dispatch and telecom room.</p>	CCF	\$190,635
Colorado State University <i>Replace Farm Bridge, Agricultural Research Development and Education Center</i> <p>The project replaces a bridge over a water-supply ditch on the central access road to the Agricultural Research Development and Education Center farm in Wellington. The bridge has no defined load rating. The university reroutes heavy farm equipment onto a busy frontage road in order to avoid overloading the bridge.</p>	CCF	\$349,872
Colorado State University <i>Replace Multiple Switchgears, Main Campus</i> <p>The project replaces 21 high-voltage submersible switches on the main campus that are more than 50 years old and that have experienced several failures in recent years, including an explosion that blew the lid off a switchgear's stainless steel housing. Failures could cause the closure of multiple campus buildings.</p>	CCF	\$588,904
Colorado State University <i>Replace Wastewater Treatment Plant, Mountain Campus</i> <p>The two-phase project replaces the wastewater treatment plant at the Mountain Campus, located 50 miles west of Fort Collins. The existing plant requires upgrades to meet discharge limits and increase plant capacity, thus bringing the system into regulatory compliance. This year's request for Phase II replaces the existing water purification equipment and tanks. Phase I included design, acquiring necessary permits, and replacing the lift station.</p>	CCF CF	\$1,845,608 \$2,135,115

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Colorado State University	CCF	\$13,482,700
	CF	\$9,000,000
<i>Shepardson Building Renovation and Addition</i>		
The project renovates the existing 46,800-GSF Shepardson Building, which houses the Departments of Horticulture and Landscape Architecture, and constructs additions to the north and south of the building totaling 47,998 GSF. The university says current demand for the programs housed in the Shepardson Building is not being met due to space limitations and outdated facilities.		
Colorado State University — Pueblo	CCF	\$900,680
<i>Replace Campus Water Lines</i>		
The three-phase project replaces domestic and irrigation water lines on the campus. The water lines are deteriorating and many of the isolation valves are inoperable. This year's request for Phase I designs the project, replaces six main loop isolation valves, and increases the size of a main water line.		
Colorado State University — Pueblo	CCF	\$720,720
<i>Replace Roof and Windows, Hasan School of Business</i>		
The project replaces the roof and windows in the Hasan Business building. Cracks and failures in the roof have resulted in water damage and disruption of programming. The windows are failing, and water infiltrates them during high-wind events. Costly repairs to both systems are proving ineffective.		
Corrections	CCF	\$1,978,510
<i>Improve Accessibility, Fremont Correctional Facility</i>		
The five-phase project updates cell fixtures, beds, and doors to meet ADA accessibility requirements. There is a shortage of accessible beds in the system due to an aging offender population and more offenders with disabilities entering the system. This year's request for Phase I updates processing, community, and work spaces and 10 cells in cell houses 1, 4, and 5.		
Corrections	CCF	\$1,205,969
<i>Improve Perimeter Security, Denver Reception and Diagnostic Center and Women's Correctional Facility</i>		
The two-phase project replaces the existing perimeter security detection system with a non-lethal electrified perimeter fence deterrent system, upgrades the communication wiring, and improves microwave detection zones at three sally ports. Phase I, funded in FY 2016-17, replaced damaged fence fabric, chain link fencing, and concrete. This year's request for Phase II completes the project.		
Corrections	CCF	\$1,457,417
<i>Replace Deaeration Tank, Sterling Correctional Facility</i>		
The project replaces the deaeration tank, a critical component of the steam heating system that removes dissolved gasses from the boiler water feed. A tank failure would allow the introduction of carbonic acid into the boiler lines, which would further spread corrosion and cause potential failure within the lines.		
Corrections	CCF	\$1,998,638
<i>Replace Electronic Security System, Denver Women's Correctional Facility</i>		
The project replaces the existing electronic security system in 15 buildings and installs new door controls, uninterruptable power supplies, an intercom system, and a fiber-optic backbone. The existing electronic security system is over 20 years old and increasingly fails, and parts are unavailable. System failures present a risk for staff, offenders, and the general public.		
Corrections	CCF	\$1,092,787
<i>Replace Fire Alarm System and Improve Fire Suppression, Limon Correctional Facility</i>		
The two-phase project replaces the fire alarm systems in the Administration, Gatehouse/Tower, Tower 2, Support, Recreation, Central Plant, and Vehicle Service Center buildings. The existing systems are 25 years old. The system is not addressable, so the exact location of an alarm cannot be immediately determined. Phase I upgraded Living Units 1-6. This year's request for Phase II completes the project.		

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Corrections <i>Replace Fire Alarm System, San Carlos Correctional Facility</i> <p>The project replaces an obsolete fire alarm system, including all control panels, notification components, and smoke detectors. The existing system has exceeded its useful life and is increasingly difficult to maintain because of the outdated technology.</p>	CCF	\$1,180,268
Corrections <i>Replace Fire Alarm System, Sterling Correctional Facility</i> <p>The two-phase project replaces fire alarm systems in 31 buildings at the Sterling Correctional Facility. The existing fire alarm systems are nearly 20 years old and replacement parts are difficult to obtain. Phase I addressed control panels, pull boxes, notification devices, and smoke detectors in six buildings; this year's request for Phase II addresses the systems in an additional 25 buildings.</p>	CCF	\$998,336
Corrections <i>Replace Roof, Infirmary, Colorado Territorial Correctional Facility</i> <p>The project installs a new, low slope, built-up roof over an R-30 tapered insulation system over the infirmary, chapel, and morgue. The existing roof is more than 20 years old and roof damage has caused substantial leakage inside the infirmary.</p>	CCF	\$1,038,141
Education <i>Replace Campus Domestic Hot Water System, Colorado School for the Deaf and the Blind</i> <p>The project evaluates, designs, and installs a new campus domestic hot water system to replace an existing tank, heat exchanger, hot water distribution system, and other associated components. The existing system is deteriorating and lacks sufficient temperature control.</p>	CCF	\$972,421
Fort Lewis College <i>Replace North Campus Heating and Cooling Line</i> <p>The two-phase project replaces a heating and cooling line on the north side of campus. There have been several leaks in the existing piping system in recent years, which have required emergency repair. This year's request for Phase I designs the new piping, replaces the existing piping, removes existing sidewalks, and installs new valves and piping mains in the area of the Art Hall building. Phase II will install new valves and piping near Jones Hall, the Concert Hall, and the Center for Southwest Studies.</p>	CCF	\$1,638,838
Front Range Community College <i>Health Care Career Center, Larimer Campus</i> <p>The two-phase project constructs a 55,333-GSF facility to house Allied Health and Nursing programs. The project constructs classroom, lab, office, and public spaces. Phase I included foundation work, site work, utilities, and structural work. This year's request for Phase II completes the project.</p>	CCF CF	\$11,927,424 \$3,696,060
Front Range Community College <i>Replace Chiller #2, Westminster Campus</i> <p>The project replaces the second of two campus chillers and associated equipment. A previous controlled maintenance project replaced the first chiller. Because of increased enrollment, the existing chiller is no longer adequate for the building.</p>	CCF	\$895,427

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Health Care Policy and Financing	CCF	\$1,140,833
	FF	\$10,267,500
<i>Health IT Roadmap Initiatives</i>		
<p>The four-year project implements nine initiatives of Colorado's Health IT Roadmap to support health delivery reform and payment reform, improve care coordination, reduce costs, and ultimately improve value. The department says that the initiatives will build upon the current health information infrastructure to broadly share health information regardless of location, insurer, or system; thereby, improving health care delivery and payment models.</p>		
Human Services	CF	\$757,405
<i>Capital Improvements at Regional Centers</i>		
<p>The project makes ongoing capital improvements at three regional centers, including both on- and off-campus homes, in order to address the wear and tear of continuous use and to improve resident quality of life.</p>		
Human Services	CCF	\$17,835,851
<i>F2 and F3 Cottage Renovation</i>		
<p>The project renovates 17,532 GSF in two housing units at the Colorado Mental Health Institute at Fort Logan, and constructs additions to the units totaling 2,059 GSF. The renovations will add 44 inpatient psychiatric beds to the department's inventory, helping to alleviate a bed shortage driven by an increase in court referrals and a settlement agreement stemming from a lawsuit against the department concerning the wait times that pretrial detainees in Colorado jails experience before receiving competency evaluations or restorative treatment.</p>		
Human Services	CF	\$1,101,159
<i>Facility Master Plan, Department-Wide</i>		
<p>The three-phase project prepares a department-wide facility master plan. The master planning process will conduct a comprehensive analysis of the department's programmatic needs, and establish a direction for and define the department's future capital construction program. This year's request for Phase I studies the Fort Logan campus – with the exception of 15 buildings assessed under a separate planning effort – and many of the Denver Metro area facilities, including the department's headquarters building.</p>		
Human Services	CCF	\$2,638,927
<i>Facility Refurbishment for Safety, Risk Mitigation, and Modernization, Division of Youth Services</i>		
<p>The six-phase project addresses safety and self-harm risks in 12 Division of Youth Services facilities. This year's request for the final phase makes improvements to seven facilities: Mount View (Lakewood), Gilliam (Denver), Marvin W. Foote (Centennial), Spring Creek (Colorado Springs), Platte Valley (Greeley), Grand Mesa (Grand Junction), and Lookout Mountain (Golden).</p>		
Human Services	CCF	\$2,320,949
<i>Joint Agency Interoperability</i>		
<p>The five-phase project creates a new system for an interoperable environment, which improves communication and the exchange of data across multiple, disparate applications or systems. DHS says this shared information environment will provide better coordinated services to improve the lives of children, youth, and families in Colorado.</p>		
Human Services	CCF	\$1,291,687
<i>Refurbish HVAC Systems, B Building, CMHIFL</i>		
<p>The two-phase project replaces two air handlers and associated equipment in the building. The existing equipment is no longer able to maintain adequate air distribution or water temperatures and does not meet current code for air quality standards. This year's request for Phase I replaces the first air handler, piping, and controls, and installs a temporary air handler system for both phases. Phase II will replace the second air handler, piping, and controls.</p>		

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Human Services <i>Repair/Replace Fire Protection Systems, Gilliam and Lookout Mountain Youth Services Centers</i> The three-phase project upgrades the fire alarm systems at the Lookout Mountain Youth Services Center (LMYSC) and the Gilliam Youth Services Center (GYSC). The existing systems are original to the buildings and are approximately 30 years old. This year's request for Phase II addresses head panels, alarm detection, and monitoring systems in ten facilities at LMYSC. Phase III will address three facilities at GYSC and Phase I addressed 11 facilities at LMYSC.	CCF	\$1,343,338
Human Services <i>Replace Fire Alarm Control Panels, CMHIP, RVYSC</i> The project replaces obsolete fire alarm panels at the Colorado Mental Health Institute at Pueblo and at Ridgeview Academy Youth Services Center, which no longer comply with code. The project replaces 61 network panels and 61 support panels between the two facilities.	CCF	\$688,966
Labor and Employment <i>COSTIS System Replacement</i> The project replaces the Division of Oil and Public Safety's Colorado Storage Tank Information System, which houses data related to the regulation of petroleum storage tank facilities in the state.	CF	\$2,785,277
Lamar Community College <i>Replace Boiler Piping, Bowman and Trustees Buildings</i> The project replaces 250 feet of main boiler lines serving the Bowman and Trustees buildings. The underground piping has deteriorated to the point of regular leaks, resulting in boiler low water warnings and bypass of the boiler pressure-reducing valve.	CCF	\$425,750
Lamar Community College <i>Technology Infrastructure</i> The project upgrades technology infrastructure, including both instructional technology and computer systems. According to the college, many of its IT systems do not support current technologies that improve productivity, data availability, or campus communications.	CCF CF	\$570,422 \$15,000
Lamar Community College <i>Upgrade Interior and Exterior Building Access Control, Campuswide</i> The two-phase project upgrades interior and exterior doors and locks for three buildings on campus. The existing building access controls are almost 50 years old. This year's request for Phase I replaces the exterior doors and locks with an electronic locking system. Phase II will replace interior doors and locks.	CCF	\$1,301,245
Military and Veterans Affairs <i>Upgrade Restrooms for Code Compliance, Longmont Readiness Center</i> The project constructs new men's and women's restrooms, including new ventilation and plumbing, at the Longmont Readiness Center to meet accessibility and building code requirements. In addition to not meeting code, the restrooms, which are original to the circa 1979 facility, are undersized and comprised of one bathroom and one shower; up to 140 soldiers, including 40 female soldiers, must use the restrooms during training periods.	CCF FF	\$397,370 \$397,370

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
Military and Veterans Affairs <i>Veterans Memorial Cemetery Columbaria and Steam Filter System</i> <p>The project constructs eight new columbaria and performs infrastructure upgrades at the Veterans Memorial Cemetery in Grand Junction. The project includes site improvements for an upgraded silt trap structure, existing silt removal, and new liners within the irrigation ponds and stream system. The request also includes funds for the one-time purchase of new equipment for ongoing maintenance of cemetery grounds.</p>	CCF	\$2,667,390
Morgan Community College <i>Replace RTUs and Upgrade Controls, Aspen, Elm, and Spruce Halls</i> <p>The project replaces rooftop HVAC units and upgrades the control system to be compatible with the existing system. Current units are near the end of useful life and beginning to fail, and the outdated control system no longer communicates with at least 20 of the 32 units.</p>	CCF	\$796,400
Natural Resources — Parks and Wildlife <i>Infrastructure and Real Property Maintenance</i> <p>The project rehabilitates and improves infrastructure and facilities at state wildlife areas, state fishing units, and a state administrative area. This project includes maintenance, enhancement, or replacement of a variety of existing physical assets.</p>	CF HUTF	\$1,858,090 \$300,000
Natural Resources — Parks and Wildlife <i>Property Acquisition and Improvements</i> <p>The project allows CPW to acquire interests in real property through a competitive bidding process. In addition to protecting critical wildlife habitat for game species, CPW's efforts also include protecting the habitat of species of concern, preserving wildlife diversity, and acquiring public access for wildlife-related recreation.</p>	CF	\$11,000,000
Northeastern Junior College <i>Upgrade Emergency Vehicle Access</i> <p>The project redesigns the ES French west parking lot and constructs a companion access road for emergency and delivery vehicle access, and installs new lights in the parking lot for security. An access road was recently closed by a private owner, and the current configuration results in blockage of an access point by delivery vehicles, which presents an impediment for emergency responders.</p>	CCF	\$522,638
Office of Information Technology <i>Data Center Strategic IT Infrastructure Needs</i> <p>The project replaces or upgrades critical infrastructure and hardware at the Lakewood Data Center (LDC), adds LDC public cloud integration, and improves security. According to the department, these changes will also improve LDC's server power, temperature, and humidity controls.</p>	CCF	\$5,264,000
Office of Information Technology <i>Public Safety Communications Network Microwave Infrastructure Replacement</i> <p>The multi-year project replaces the statewide microwave public safety communications system with a system that creates more communication safeguards through redundancies. The microwave system provides connectivity between the Digital Trunked Radio System transmitter sites. The request addresses all of the equipment associated with the operation of the microwave transmitter system. The project is financed through a lease-purchase agreement and includes out-year equipment upgrades. The funding included in this year's request completes system upgrades.</p>	CCF	\$10,316,372
Office of Information Technology <i>Replace Microwave Towers, Group E</i> <p>The project replaces microwave towers that form a critical communications background for communications equipment that supports public safety and other programs. This year's request replaces towers in La Monte and Buffalo Pass in Phase I; Phase II will replace towers in Kenosha Pass and Monarch. The department says that the towers are over thirty-five years old, are under severe stress due to age and weather, house critical equipment, and are located in extreme climate conditions on top of mountain passes.</p>	CCF	\$921,419

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Listed by department or institution.

Project Title	Fund Source	Amount
Otero Junior College <i>Repair/Replace Roofs, Kiva, McBride, and Wheeler Buildings</i> The project replaces the roofs of three buildings on campus with built-up or modified bitumen roofs, and adds additional tapered insulation where needed. The existing roofs are leaking, which has caused water damage and ceiling tiles to fall.	CCF	\$719,565
Otero Junior College <i>Technology and Communications Upgrades</i> The project updates computers in computer laboratories, the library, and classrooms. The college states that these upgrades will help provide effective campus instruction and communication.	CCF CF	\$475,000 \$75,000
Personnel and Administration <i>CARS System Replacement</i> The project replaces the Fleet Management Program's Colorado Automotive System with a commercial-of-the-shelf Fleet Information Management System to manage and track the state's light-duty fleet vehicles.	CF	\$1,605,610
Personnel and Administration <i>Controlled Maintenance Emergency Account</i> The project funds the Controlled Maintenance Emergency Account, which is administered by the Office of the State Architect for emergency projects on an as-needed basis throughout the fiscal year. Criteria for requests for emergency funding are: (1) a need that is immediate in nature; and (2) a problem that directly affects the health, safety, and welfare of the public and day-to-day operations of the agencies. Requests may involve systems and fixed equipment critical to the functionality of a facility, but cannot involve movable equipment, furniture, and fixtures related to the programmatic activities conducted in the facility.	CCF	\$2,110,216
Personnel and Administration <i>Historical Property Rehabilitation</i> The project makes electrical, plumbing, drainage, and flooring repairs at the Governor's Mansion, including replacing electrical panels, original plumbing pipes and fixtures, and site lighting. A 2014 facilities assessment identified several outstanding maintenance needs for the mansion.	CCF	\$1,000,000
Personnel and Administration <i>Refurbish Elevators, 1570 Grant Building</i> This project refurbishes two 49-year-old elevators which have been shutting down on a frequent basis. Improvements include refurbishing or replacing new operating panels, push button stations, signal fixtures, cab interiors, machine room equipment, hoistway doors, and new lighting, and asbestos abatement in the penthouse.	CCF	\$714,120
Personnel and Administration <i>Repaint Interior Dome, State Capitol</i> The project repaints the interior of the main dome in the State Capitol building and makes associated repairs to the plaster walls. The project addresses deferred maintenance in the space and restores the historic appearance of the interior dome.	CF	\$1,000,000
Personnel and Administration <i>Replace Fire Suppression Water Lines, Centennial Building</i> The project replaces the fire suppression water lines in the Centennial Building, which houses the State Archives. The project is identified as one of the top five life-safety projects in the Capitol Complex. Most of the piping is original to the 1976 building and has degraded. The existing system was built without isolation valves so the work cannot be completed in phases.	CCF	\$1,623,335

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
<p>Personnel and Administration</p> <p><i>Replace Main Electrical Switchgear and Motor Control Center, 1881 Pierce Street Building</i></p> <p>The project replaces the existing switchgear and related breakers, switches, motor control center, and conductors. The existing control center and switchgear are almost 50 years old and past their life expectancy, and parts are no longer available. Shorts in the system are creating electrical shock hazards on cabinet surfaces, and failure of the system jeopardizes critical Department of Revenue programs.</p>	CCF	\$847,652
<p>Pikes Peak Community College</p> <p><i>Replace Sewer Vent Pipes and Upgrade Restrooms, Centennial Campus</i></p> <p>The two-phase project replaces sewer vent pipes and upgrades restrooms in two buildings to address poor air quality, deterioration due to age, and clogged toilets resulting in waste water flooding into hallways, offices, and classrooms. These issues have resulted in relocation of classes and offices. This year's request for Phase I upgrades infrastructure in the Aspen Building, while Phase II will address the Breckenridge Building.</p>	CCF	\$1,252,375
<p>Public Safety</p> <p><i>Replace HVAC System, Building 126, Camp George West</i></p> <p>The project replaces the HVAC system and the lighting system for Building 126 at Camp George West, which is used as an indoor firing range for training by the Department of Public Safety and other local law enforcement agencies, and it is no longer adequate for the type of trainings for which the facility is used. The replacement rooftop units and HVAC controls will address system and control board failures in times of high demand, which have resulted in costly repairs and range closure.</p>	CCF	\$728,106
<p>Pueblo Community College</p> <p><i>Replace Roof, Main Building, Southwest Campus</i></p> <p>The two-phase project replaces the existing roof with a new tapered insulation system and a fully adhered roofing membrane. The existing roof is shrinking and cracking at an increasing rate and the building is at risk of shutting down. This year's request for Phase I addresses the center and sloped sections of the building.</p>	CCF	\$864,246
<p>Red Rocks Community College</p> <p><i>Install Fire Sprinkler Lines and Upgrade Fire Alarm System, Main Building</i></p> <p>This two-phase project installs fire water mains and increases water capacity to fire sprinklers in the Main Building at the Lakewood Campus, which currently has limited fire sprinkler coverage. Phase I addresses the East Wing and Phase II will address the West Wing.</p>	CCF	\$1,566,978
<p>Transportation</p> <p><i>Highway Construction Projects</i></p> <p>The project funds critical state highway projects that are listed in the approved Statewide Transportation Improvement Program. The Transportation Commission is required to annually submit a capital construction request for state highway construction, repair, and maintenance projects to the CDC to be funded with capital construction funds. The commission formally requested one project for funding through the capital budget in FY 2019-20, which was not selected for funding. The JBC also recommended \$500,000 for state highway projects from monies in the General Fund Exempt Account.</p>	CCF	\$500,000
<p>Trinidad State Junior College</p> <p><i>Upgrade HVAC Air Quality and Building Safety, Alamosa Campus</i></p> <p>The project provides air conditioning and improved heating and controls throughout the original building and the addition. The addition, which houses vocational shops, the only large auditorium on campus, and the Learning Resource Center, has no air conditioning. The original building experiences inefficient heating and there are safety concerns due to the combination of unit ventilators and in operable windows. Phase I addresses the addition and full design, and Phase II will address the original building.</p>	CCF	\$1,281,211

FY 2019-20 Capital Construction Projects Included in 2019 Long Bill

Listed by department or institution.

Project Title	Fund Source	Amount
University of Colorado at Boulder <i>Replace Campus Fire Alarm Control Panels</i> <p>The three-phase project replaces fire alarm panels in nine buildings on campus. The panels are past their useful life and are no longer manufactured. This year's request for Phase II replaces the panels in the Duane, Mathematics, and Bruce Curtis buildings. Phase III replaces the panels in the Muenzinger Psychology, Cristol Chemistry, and Environmental Design buildings, and Phase I replaced the panels in the Ramaley Biology, Computer Center, and Porter buildings.</p>	CCF	\$1,108,497
University of Colorado at Boulder <i>Upgrade Campus HVAC Compressed Air Systems</i> <p>The project replaces four compressed air systems in the Electrical Engineering Wing and the Ekeley Sciences building and replaces a manual valve with a digital control valve for redundancy. The university says the compressors are past their life cycles and are needed to maintain pressure.</p>	CCF	\$1,054,424
University of Colorado at Colorado Springs <i>Replace Chillers, Engineering Building</i> <p>The project replaces the existing chillers in a 35-year-old building with quieter water-cooled centrifugal chillers. The project also replaces associated piping and electrical controls. The existing chillers, with typical life cycles of 20 years, are no longer reliable because of normal deterioration and they contain R-22 refrigerant, a banned substance due to its ozone-depleting properties.</p>	CCF	\$870,802
University of Colorado Denver <i>Colorado Center for Personalized Medicine and Behavioral Health</i> <p>The three-phase project constructs a new, ten-story, 390,914-GSF building on the Anschutz Medical Campus to house the Colorado Center for Personalized Medicine, a new data center, the Colorado Clinical and Translational Sciences Institute, the Simulation Educational HUB, office space, and other education, research, and clinical space for the School of Medicine, the Colorado School of Public Health, and the University of Colorado Hospital. This year's request for Phase II completes construction and initiates interior build-out, commissioning, and equipment.</p>	CCF CF	\$19,846,986 \$11,405,000
University of Colorado Denver <i>Improve Heating System, Building 500</i> <p>The five-phase project replaces the outdated steam system used to heat the perimeter of Building 500 with a new hot water system to address water leaks and poor environmental control. The project also installs new air terminals and automatic controls. This year's request for Phase I addresses the ground floor. The remaining phases will address the remaining floors: first floor in Phase II; second floor in Phase III; fourth, fifth, and eighth floors in Phase IV; and sixth and seventh floors in Phase V.</p>	CCF	\$727,427
University of Northern Colorado <i>Replace Chiller, McKee Hall</i> <p>The project replaces the chiller at McKee Hall to address leaks and corrosion. The chiller is operating at a reduced capacity and facility staff has determined that the chiller cannot be repaired. The project purchases a new centrifugal type electric chiller compatible with campus standards.</p>	CCF	\$489,672
Western State Colorado University <i>Mitigate Storm Water, Northeast Campus</i> <p>The project regrades a parking lot and addresses storm water collection with new curbs and gutters in order to reduce the volume of storm water flowing into a nearby channel. Storm water from major weather events has recently overflowed the channel and flooded nearby Kelly Hall.</p>	CCF	\$1,333,477