Colorado State University

Clark Building Renovation and Addition

PROGRAM PLAN STATUS

2020-019

Approved Program Plan

Yes

Date Approved:

May 30, 2020

PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
CSU	Not Prioritized	Continuation project.
CCHE	1 of 29	
OSPB	9 of 62	Recommended for funding.

PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2024-25	FY 2025-26	Future Requests	<u>Total Costs</u>
CCF	\$31,933,782	\$23,814,757	\$25,798,175	\$0	\$81,546,714
CF	\$39,000,000	\$8,000,000	\$8,000,000	\$0	\$55,000,000
Total	\$70,933,782	\$31,814,757	\$33,798,175	\$0	\$136,546,714

ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2024-25	FY 2025-26	<u>Future Requests</u>	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$10,740,266	\$718,051	\$750,805	\$0	\$12,209,122
Construction	\$52,797,739	\$27,828,074	\$29,092,988	\$0	\$109,718,801
Equipment	\$1,301,400	\$0	\$1,385,750	\$0	\$2,687,150
Miscellaneous	\$1,011,507	\$867,930	\$167,930	\$0	\$2,047,367
Contingency	\$5,082,870	\$2,400,702	\$2,400,702	\$0	\$9,884,274
Total	\$70,933,782	\$31,814,757	\$33,798,175	\$0	\$136,546,714

PROJECT STATUS

This is a continuation project. Funding was first requested on behalf of the project for FY 2021-22. Phase I of the project was funded in FY 2022-23; and Phase II was funded in FY 2023-24. This request is for Phase III of IV. Colorado State University's (CSU) initial request was for a two-phase project. In each of the past two years, the project has been partially funded. As a result, the project now has four phases.

Colorado State University

Clark Building Renovation and Addition

PROJECT DESCRIPTION / SCOPE OF WORK

CSU is requesting a combination of state funds and cash funds spending authority for the third phase of a four-phase project to renovate 222,000 GSF in the Clark Building, add 100,000 GSF to the A and C wings of the building, and demolish the B wing of the building. The additions focus on building general assignment classrooms and research space.

The renovation work will focus on:

- improving wayfinding;
- · increasing natural light;
- updating mechanical, electrical, and plumbing systems;
- improving the building's envelope;
- · consolidating and rebuilding fire sprinklers;
- · asbestos abatement; and
- improving accessibility, including adding two elevators.

Cost assumption. The cost assumption was determined through the planning process, and accounts for future inflation. The cost per GSF is \$530. The project includes funding for the Art in Public Places program, but below the required threshold, and it complies with High Performance Certification Program requirements.

PROJECT JUSTIFICATION

According to the university, the heavy use and large size of the building have combined to create maintenance challenges. It has received infrequent updates since it was built, and the result is an overall poor condition that is often the subject of negative commentary from students, faculty, and staff. Roof leaks have caused damage and mold intrusion. Spaces within the building do not foster learning; for instance, there are no flexible meeting spaces for small-group discussion. Wayfinding in the building is difficult. In addition, the university states it lacks enough general assignment classrooms, and that current availability in such classrooms (at 8:00 am and after 3:00 pm) does not conform to the university's existing schedule blocks. If the project does not receive funding, current life, health, safety, and accessibility issues will not be addressed; scheduling conflicts will continue; and the cost of deferred maintenance will escalate.

The project moves the TRIO Student Support Services Academic Advancement Center, which serves students from low-income, first-generation, and disability backgrounds, to the renovated Clark Building. This move will allow the program to serve an additional 275-325 students. It will also provide additional capacity for the Psychology Department, the third largest department by undergraduate enrollment, which is at capacity due to limitations in lecture hall availability and laboratory teaching space.

PROGRAM INFORMATION

The 255,000-GSF Clark Building was built in 1968 and currently houses the liberal arts program, the psychology program, and a large number of the university's general assignment classrooms. Seven out of eight CSU colleges teach classes in the building and over 95 percent of students take a course in the building at some point during their degree courses, with 70 percent of undergraduates taking a course in Clark in any given year.

PROJECT SCHEDULE

	Start Date	Completion Date
Design		
Construction	July 2024	November 2027
Equipment	December 2027	January 2028
Occupancy	January 2028	

Colorado State University

Clark Building Renovation and Addition

SOURCE OF CASH FUNDS

The source of cash funds for this project is the university's General Fund and donations.

OPERATING BUDGET

Operating expenses are paid from institutional sources.

STAFF QUESTIONS AND ISSUES

Colorado State University

San Luis Valley Potato Research and Storage Facility

PROGRAM PLAN STATUS

2024-001

Approved Program Plan

Yes

Date Approved:

October 31, 2022

PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
CSU	2 of 4	
CCHE	11 of 29	
OSPB	58 of 62	Not recommended for funding.

PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2024-25	FY 2025-26	Future Requests	<u>Total Costs</u>
CCF	\$0	\$7,001,594	\$0	\$0	\$7,001,594
Total	\$0	\$7,001,594	\$0	\$0	\$7,001,594

ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2024-25	FY 2025-26	Future Requests	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$0	\$653,895	\$0	\$0	\$653,895
Construction	\$0	\$5,356,035	\$0	\$0	\$5,356,035
Equipment	\$0	\$613,800	\$0	\$0	\$613,800
Miscellaneous	\$0	\$44,455	\$0	\$0	\$44,455
Contingency	\$0	\$333,409	\$0	\$0	\$333,409
Total	\$0	\$7,001,594	\$0	\$0	\$7,001,594

PROJECT STATUS

This project was requested for funding in FY 2023-24. This is its second request for funding.

Colorado State University

San Luis Valley Potato Research and Storage Facility

PROJECT DESCRIPTION / SCOPE OF WORK

Colorado State University (CSU) is requesting a combination of state funds and cash funds spending authority to construct a 15,700-GSF potato research, breeding, and certified seed and production storage building on its San Luis Valley Research Center site. The project will provide up-to-date, quality storage for potatoes and seeds up to the standards necessary for academic research and community partnerships. The new storage facility will also have the capacity to store other crops as needed for the university's research purposes. The facility will be able to adjust to handle multiple crops and enterprises requiring climate-controlled storage.

The building is expected to be a pre-engineered metal building on a three-foot stem wall foundation with additional interior insulation. The building will be divided into several different areas, including:

- a horizontal macro potato storage area with temperature, humidity, and ventilation control;
- a pallet potato storage area with temperature, humidity, and ventilation control;
- open workspace;
- research bulk storage;
- · additional bulk storage with water misters; and
- a shipment room and loading dock.

The project scope has been revised from its initial submission to reflect a reduction in bulk storage area due to changing business practices, simplified structural requirements, and the purchase of equipment from the prior scope.

Cost assumption. Project costs were based on a conceptual cost estimate from a contractor. The project cost is \$446 per GSF. The estimate accounts for inflation. The project meets the Art in Public Places and High Performance Certification Program requirements.

PROJECT JUSTIFICATION

The center's previous potato storage facility was destroyed by an 80-mph windstorm in 2017 and the program has since been leasing low-quality space nine miles from the rest of the center. Alternative rental space options are also inadequate for the research needs of the facility and would threaten the center's potato seed crop program. Daily travel to and from the rented storage facility diverts employee time and resources away from the main research site. The university says that upgrading the potato facility is crucial to the mission of the center and is also necessary to attract talented employees and provide basic services.

The university believes that an investment in the San Luis Valley Research Center site is also an investment in the economic development of the San Luis Valley as a whole. Building a state-of-the-art potato storage facility will help serve CSU's commitment to rural Colorado. The Colorado potato industry contributes an estimated \$600 million to the state's economy and the San Luis Valley represents an estimated 97 percent of that market share. Approximately 120 farms with over 4,000 jobs support the San Luis Valley potato industry, making it the region's largest employer. The industry requires the viable storage of over 2.1 billion pounds of potatoes annually. The Colorado Potato Administrative Committee annually allocates \$250,000 to the facility from assessments on potato sales. These funds help CSU participate in national research collaboration and win federal grants.

PROGRAM INFORMATION

The potato research program helps the Colorado potato industry with the breeding of potatoes adapted to the needs of the San Luis Valley, long-term storage strategies, and maintaining quality for new lines of certified seeds. The San Luis Valley Research Center has 29 FTE and educates over 30 CSU graduate students, Adams State University undergraduates, and local high school students.

Colorado State University

San Luis Valley Potato Research and Storage Facility

PROJECT SCHEDULE

	Start Date	Completion Date
Design	July 2024	December 2024
Construction	March 2025	November 2025
Equipment	December 2025	
Occupancy	December 2025	

SOURCE OF CASH FUNDS

The source of cash funds for this project is CSU general funds. Funds do not come from student fees.

OPERATING BUDGET

Operating costs are paid from institutional sources. Any increase in operating expenses will be offset by a reduction in leased space.

STAFF QUESTIONS AND ISSUES

Colorado State University

Veterinary Health and Education Center

PROGRAM PLAN STATUS

2024-066

Approved Program Plan

Yes

Date Approved:

October 26, 2023

PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
CSU	3 of 4	
CCHE	16 of 29	
OSPB	60 of 62	Not recommended for funding.

PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2024-25	FY 2025-26	Future Requests	<u>Total Costs</u>
CCF	\$0	\$25,000,000	\$25,000,000	\$0	\$50,000,000
CF	\$86,000,029	\$74,999,991	\$19,000,001	\$0	\$180,000,021
Total	\$86,000,029	\$99,999,991	\$44,000,001	\$0	\$230,000,021

ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2024-25	FY 2025-26	<u>Future Requests</u>	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$10,915,455	\$15,923,250	\$10,149,333	\$0	\$36,988,038
Construction	\$70,434,435	\$78,222,447	\$30,702,485	\$0	\$179,359,367
Equipment	\$500,000	\$870,000	\$885,400	\$0	\$2,255,400
Miscellaneous	\$54,900	\$222,389	\$167,545	\$0	\$444,834
Contingency	\$4,095,239	\$4,761,905	\$2,095,238	\$0	\$10,952,382
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Total	\$86,000,029	\$99,999,991	\$44,000,001	\$0	\$230,000,021

PROJECT STATUS

The first phase of the project was approved on Colorado State University's (CSU) two-year projection of cash need in August 2023. This is the first request for its second phase.

Colorado State University

Veterinary Health and Education Center

PROJECT DESCRIPTION / SCOPE OF WORK

CSU is requesting state funds and cash funds spending authority to construct additions to the existing James L. Voss Veterinary Teaching Hospital. The project will allow the veterinary program to consolidate on the Veterinary Health Complex on South Campus and increase the size of the veterinary student population.

The project constructs additions to the Johnson Family Equine Hospital on the South Campus in Fort Collins, along with a new shop building and associated infrastructure. The new construction totals 210,532 GSF, and will house a livestock clinic and maintenance shop for the Veterinary Health Complex. The livestock facility provides animal holding and training for veterinarians in individual animal and herd production medicine. The Veterinary Teaching Hospital offers basic livestock care, surgery, internal medicine, and field services for the community in conjunction with veterinary training.

Phase I included project design and improved the Johnson Family Equine Hospital. This request for Phase II renovates the existing veterinary hospital, deconstructs the Equine and Food Animal Barns, and completes the community practice space on the first floor. Phase III will address classroom, laboratory, and office spaces on the second and third floors.

Cost assumption. Costs derive from estimates from a CSU partner firm, and the project accounts for inflation. The cost per GSF is \$1,092 for the entire project. The project includes funding for the Art in Public Places program, but below the required threshold, and it complies with High Performance Certification Program, targeting LEED Gold.

PROJECT JUSTIFICATION

The project benefits the veterinary program by consolidating all four classes of students into a single learning environment, instead of dividing classes across CSU campuses due to lack of space in the Veterinary Health Complex. In addition, the project enables CSU to overhaul the curriculum and increase the cohort size by 30 students each year. Currently, the university receives over 4,000 applications annually and accepts 140.

PROGRAM INFORMATION

CSU's Doctor of Veterinary Medicine Program has been ranked as one of the country's top programs in recent years by U.S. News and World Report. The four-year program includes two years of biomedical education and clinical experience, followed by two years of clinical work in rotations at the university's teaching hospital. The College of Veterinary Medicine and Biomedical Sciences also hosts approximately 80 veterinary interns and residents.

PROJECT SCHEDULE

	Start Date	Completion Date
Design		
Construction	May 2024	December 2026
Equipment		
Occupancy		

SOURCE OF CASH FUNDS

The source of cash funds for the project is university resources and bonds.

OPERATING BUDGET

Operating expenses are paid from institutional sources.

STAFF QUESTIONS AND ISSUES

All responses have been incorporated into the project write-up.

Prepared by Legislative Council Staff

Colorado State University
Veterinary Health and Education Center

Colorado State University

District Heating Plant Sustainability Upgrade (Capital Renewal)

PROGRAM PLAN STATUS

2024-002

Approved Program Plan

Yes

Date Approved:

December 31, 2022

PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
CSU	4 of 4	
CCHE	27 of 29	
OSPB	59 of 62	Not recommended for funding.

PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2024-25	FY 2025-26	Future Requests	<u>Total Costs</u>
CCF	\$0	\$8,982,929	\$12,422,639	\$0	\$21,405,568
CF	\$0	\$0	\$4,384,273	\$0	\$4,384,273
Total	\$0	\$8,982,929	\$16,806,912	\$0	\$25,789,841

ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2024-25	FY 2025-26	<u>Future Requests</u>	<u>Total Cost</u>
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$0	\$3,427,071	\$0	\$0	\$3,427,071
Construction	\$0	\$4,699,750	\$15,151,736	\$0	\$19,851,486
Equipment	\$0	\$0	\$0	\$0	\$0
Miscellaneous	\$0	\$39,478	\$127,275	\$0	\$166,753
Contingency	\$0	\$816,630	\$1,527,901	\$0	\$2,344,531
Total	\$0	\$8,982,929	\$16,806,912	\$0	\$25,789,841

PROJECT STATUS

This project was requested for funding in FY 2023-24. This is its second request for funding.

Colorado State University

District Heating Plant Sustainability Upgrade (Capital Renewal)

PROJECT DESCRIPTION / SCOPE OF WORK

Colorado State University (CSU) is requesting a combination of state funds and cash funds spending authority to upgrade the 25,569-GSF district heating plant for its Fort Collins campus. The upgrades will address greenhouse gas emissions, air quality, and campus resiliency goals. This project is the onset of an eventual transition to combined heating and cooling (CHC) systems for the Fort Collins campus. This is a capital renewal project. The capital renewal approach focuses on upgrading building systems, infrastructure, and the basic building components within existing academic buildings on a building-by-building basis, rather than project by project.

The original project was a single phase; this year, the project has been phased. This year's request for Phase I includes project design, permitting, and initial structural work. Phase II will include equipment, installation, and demolition of the existing boiler.

The proposed project allows the university to move forward with the transition to an electric CHC system. The CHC system will include a hot and chilled water distribution system fueled by heat recovery chillers and backed up by two low NO and NO2 boilers, which will replace the aging Boiler #3. The new system will also include building airside energy recovery. Both the heating and the cooling loops will be connected to large multi-story insulated tanks to store energy for later use during high electricity cost times. The control room for the plant will also be reconfigured.

Cost assumption. Project costs were based on a conceptual cost estimate from a contractor. The project accounts for inflation. The project cost is \$1,009 per GSF. As a capital renewal request, the project is exempt from Art in Public Places and High Performance Certification Program requirements, however it does include funding for Art in Public Places.

PROJECT JUSTIFICATION

The project incorporates new, more efficient technologies and is intended to last well into the future. Critical areas to be addressed include:

- Boiler # 3 is past the standard end of life (60 years);
- aging steam and condensate piping require refurbishment and/or replacement; and
- the chillers in Plant #1 are reaching their end of life.

The current district heating plant is almost as old as the Fort Collins campus itself. The first coal-fired boilers were installed around 1900. In the 1960s, new natural gas boilers were installed. The district cooling system was built out in 2000 in order to phase out old refrigerants in chiller equipment across the campus. Chiller equipment has a shorter lifespan than heating equipment, and the campus' two cooling plants will reach their end of life around 2030 and 2035.

The recent Environmental Protection Agency elevation of the Front Range's air quality to "severe" means the university must meet more stringent emissions restrictions on any new sources of emissions, such as replacement boilers. Any new boilers installed on campus must have a very low NO and NO2 emissions threshold. The university explains that emissions from natural gas combustion currently account for 35 percent of CSU's total greenhouse gas emissions and the district energy plant is the university's largest emitter of natural gas-related emissions. The project will shift significant heating and hot water energy use from natural gas to electricity. The university has committed to 100 percent renewable electricity by 2030.

PROGRAM INFORMATION

The district energy system provides essential heating, cooling, hot water, and other building electrical loads to the Fort Collins campus. District systems allow for more efficient services across a campus environment due to the density of buildings and varying energy loads across buildings.

Colorado State University

District Heating Plant Sustainability Upgrade (Capital Renewal)

PROJECT SCHEDULE

	Start Date	Completion Date
Design	June 2024	May 2025
Construction		
Equipment		
Occupancy		

SOURCE OF CASH FUNDS

Phase I is not funded from cash sources. The source of cash funds for Phase II is CSU general funds. Funds do not come from student fees.

OPERATING BUDGET

Operating expenses are paid from institutional sources.

STAFF QUESTIONS AND ISSUES

Colorado State University -Pueblo

Technology Building Renovation and Addition

PROGRAM PLAN STATUS

2008-093

Approved Program Plan

Yes

Date Approved:

May 31, 2008

PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
CSU-Pueblo	1 of 1	
CCHE	23 of 29	
OSPB	43 of 62	Not recommended for funding.

PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2024-25	FY 2025-26	Future Requests	<u>Total Costs</u>
CCF	\$16,952,654	\$14,253,042	\$0	\$0	\$31,205,696
CF	\$170,000	\$449,600	\$0	\$0	\$619,600
Total	\$17,122,654	\$14,702,642	\$0	\$0	\$31,825,296

ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2024-25	FY 2025-26	<u>Future Requests</u>	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$2,400,330	\$1,847,000	\$0	\$0	\$4,247,330
Construction	\$12,524,661	\$10,308,569	\$0	\$0	\$22,833,230
Equipment	\$872,685	\$1,255,630	\$0	\$0	\$2,128,315
Miscellaneous	\$503,745	\$285,586	\$0	\$0	\$789,331
Contingency	\$821,233	\$1,005,857	\$0	\$0	\$1,827,090
Total	\$17,122,654	\$14,702,642	\$0	\$0	\$31,825,296

PROJECT STATUS

This project was funded as a single-phase project in FY 2021-22. Cost escalation required the university to value engineer the project, and this request for a new second phase completes the original project scope. This is the first request for this project phase.

Colorado State University -Pueblo

Technology Building Renovation and Addition

PROJECT DESCRIPTION / SCOPE OF WORK

Colorado State University–Pueblo is requesting state funds and cash funds spending authority for the second phase of a two-phase project to renovate the 57,654-GSF Technology Building and construct a 20,000-GSF addition. The project will remedy existing deficiencies in space and building conditions and will accommodate predicted enrollment growth. Construction inflation caused the project to be value engineered from a one-phase project to the current, two-phase project.

The building will house five departments: Teacher Education, Engineering, Civil Engineering Technology, Nursing, and Automotive Industry Management. The project upgrades the building's technological, electrical, and mechanical systems in order to meet current building codes and academic standards. It also includes the following improvements:

- organized circulation "wayfinding" within the building;
- modifications to the western entrance to improve accessibility for persons with disabilities;
- sound transmission reduction and insulation in classrooms;
- variable lighting control in classrooms;
- modernization of building exterior appearance;
- addition of data, information technology, and digital capabilities throughout the building, including wireless internet and cable television;
- installation of a fire protection system;
- asbestos abatement;
- · adequate gathering spaces; and
- clustering of departmental faculty offices, work areas for departmental support staff, and departmental conference spaces.

Phase I remodeled the building's core and south wing. Phase II addresses the north wing and accessibility needs.

Cost assumption. The cost assumption was determined through the planning process. The cost per GSF is \$542. The project accounts for inflation. The project meets the Art in Public Places and High Performance Certification Program requirements.

PROJECT JUSTIFICATION

The 39-year-old building is short on space due to increased student demand and programmatic changes, according to the university. The programs housed in the Technology Building currently have enrollment limits due to a lack of classroom and laboratory space. The university says failure to fund the project will put the faculty at an instructional disadvantage to other technologically advanced learning environments and students will not be provided the best possible education.

A building physical condition audit conducted by the university in September 2006 rated the Facility Condition Index (FCI) as 61. The FCI is a measure of the cost of remedying building deficiencies compared to a building's current replacement value, and the state architect's target FCI for all buildings is 85. The building's systems are near the end of their useful life, and the university says some of them create health and safety concerns.

PROGRAM INFORMATION

CSU-Pueblo is a four-year university that serves over 4,200 students. More than 33 percent of its students are of Hispanic descent, and the university is designated as a Hispanic-Serving Institution by the federal government. The university offers undergraduate and graduate degree programs in the College of Sciences and Mathematics; the Hasan School of Business; the College of Humanities and Social Sciences; and the College of Education, Engineering, and Professional Studies.

The Technology Building was built in 1981 and houses four departments of the College of Education, Engineering, and Professional Studies: Teacher Education, Engineering, Civil Engineering Technology, and Automotive Industry Management.

Colorado State University -Pueblo

Technology Building Renovation and Addition

PROJECT SCHEDULE

	Start Date	Completion Date
Design	July 2024	October 2024
Construction	November 2024	December 2025
Equipment	September 2025	December 2025
Occupancy	January 2026	

SOURCE OF CASH FUNDS

The source of cash funds for the project is institutional reserves.

OPERATING BUDGET

The university anticipates operating costs to increase by \$80,000 annually to cover maintenance, custodial needs, and utilities. Operating expenses are paid from institutional sources.

STAFF QUESTIONS AND ISSUES