



STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

FISCAL YEAR 2021-22
BUDGET REQUEST SUBMISSION & ANNUAL FACILITY MANAGEMENT REPORTING TRANSMITTAL
OSA T (for institutions of higher education)

To:	OFFICE of the STATE ARCHITECT/Copy to OSPB
(A) Agency/Institution:	Colorado State University Fort Collins
(B) Date Submitted:	July 6,2020
(C) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> <small>JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)</small>
(D) Preparer Name:	Shelly Carroll

A. CAPITAL CONSTRUCTION/CAPITAL RENEWAL BUDGET REQUEST FORMS ⁽¹⁾:

CC/CR-5P	Capital Construction/Capital Renewal Project Request - Five Year Plan <i>(Required to be submitted to OSA annually, even if there are no current year CC/CR project requests being submitted)</i>	Required ⁽³⁾	X
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B. CONTROLLED MAINTENANCE BUDGET REQUEST FORMS ⁽¹⁾:

			Yes, No. or N/A
CM-5P	Controlled Maintenance Project Request - Five Year Plan	Required ⁽³⁾	Y
CM-S	Controlled Maintenance Project Request - Summary	Required ⁽³⁾	Y
CM-N	Controlled Maintenance Project Request - Narrative	Quantity ⁽²⁾	9
CM-CS	Controlled Maintenance Project Request - Cost Summary	Attached to CM-N	9
Photographs	Photographs shall be submitted individually in one of the formats listed	Quantity ⁽²⁾	many

C. ANNUAL FACILITY MANAGEMENT REPORTING FORMS ^{(1), (3)}:

			Yes, No. or N/A
OSA AMSP	Asset Management Strategy Plan	Required	Y
OSA CC/CR-SR	Capital Construction/Capital Renewal Project - Status Report	Required	Y
OSA CM-SR	Controlled Maintenance Project - Status Report	Required	Y
OSA BI	Building Inventory Report	Required	Y
OSA K	Action Plan for Code Compliance, Exhibit K	Required	Y
OSA VFMP	Vacant Facility Management Plan(s)	Quantity ⁽²⁾	Y
OSA A/D	Acquisitions and Dispositions Report	As Applicable	Y
OSA EPC	Energy Performance Contract Report	As Applicable	N/A
OSA HPCP	High Performance Certification Program	As Applicable	Y
Photographs	Photographs shall be submitted individually in one of the formats listed	Quantity ⁽²⁾	

⁽¹⁾ Electronic submission required for all documents.

⁽²⁾ Provide project request pictures/drawings in separate JPEG, PDF, or TIFF format, even if the photographs/drawings are embedded in request narrative.

⁽³⁾ Documents are to be submitted in the annual budget request submittal process to OSA, whether or not CC/CR/CM projects are requested.



FY 2021-22 Capital Construction/Capital Renewal Project - Status Report (OSA CC/CR-SR)

(A) Agency/Institution: Colorado State University Fort Collins (B) OSA Delegate Signature/Date: JONATHAN MIKE RUSH 07/02/20 Date

(1) Project Number	(2) Project Description, Phase	(3) CCF Appropriation (\$)	(4) Other Funds (\$)	(5) Date Funds Available	(6) Dollars Committed/Contract Totals (\$)	(7) Percent of Dollars Committed to Appropriation (%)	(8) Dollars Approved /Pay Application Totals (\$)	(9) Percent of Dollars Approved to Appropriation (%)	(10) HPCP Registration Date	(11) Date of Notice of Substantial Completion (SBP-07)	(12) Exhibit L1 Code Compliance Date	(13) Exhibit L2 (SC-4.1) Date	(14) Comments /Status	CSU Notes
2008-071P18	Shepardson Building Renovation and Addition, Ph 1 of 3	\$ 4,527,223		July-18	\$ 3,839,419	85%	\$ 738,174	16%	Jul-18	NA	NA	23-Dec	Construction	
2008-071P18	Shepardson Building Renovation and Addition, Ph 2 of 3	\$ 13,482,700	\$9,000,000	July-19	\$ -	0%	\$ -	0%		22-Dec	23-Mar	23-Dec	Construction	
17-042	Equine Veterinary Teaching Hospital		\$ 65,258,627	June-17	\$ 8,714,216	13%	\$ 2,086,842	3%	Jun-17	Apr-21	Aug-21	Apr-22	Construction	
170717C	ECRC - CSU HIGH PLAINS CAMPUS (CSU HPC)		\$ 2,000,000	Sep-18	\$ 2,171,361	109%	\$ 1,973,791	99%		Sep-19	Jan-20	Sep-20	Closeout	L1 and L2 submitted June 2020
170717E	WCRC - CSU WESTERN CAMPUS (CSU WC)		\$ 9,650,000	Sep-18	\$ 10,608,872	110%	\$ 10,600,772	110%		Sep-19	Jan-20	Sep-20	Closeout	L1 and L2 submitted June 2020
17-017	CTR FOR VECTOR BORNE INFECTIOUS DISEASES (CVID)		\$ 25,000,000	Sep-18	\$ 10,348,903	41%	\$ 2,218,110	9%	Sep-18	Oct-20	Mar-21	Oct-21	Construction	
18-010	TEMPLE GRANDIN EQUINE CENTER		\$ 8,500,000	Sep-18	\$ 300,464	4%	\$ 51,844	1%	Sep-18	Dec-20	Mar-21	Dec-21	Construction	
18-036	South Campus Animal Research Facility		\$ 6,250,295	Feb-19	\$ 387,515	6%	\$ -	0%	Waived	Jul-21	Dec-21	Jul-22	Bidding	
18-008	Lory Student Center Ph3 Revitalization & ALVS addition		\$ 24,000,000	Sep-19	\$ 1,599,701	7%	\$ 345,865	1%	Sep-19	TBD	TBD	TBD	Project On-Hold	
17-044	Meridian Village Ph1		\$ 140,000,000	Sep-19	\$ 5,675,184	4%	\$ 3,239,822	2%	Sep-19	TBD	TBD	TBD	Project On-Hold	
18-001	CU-CSU Medical School Branch Campus		\$ 10,000,000	Sep-19	\$ 8,259,971	83%	\$ 3,491,844	35%	NA	Apr-20	Sep-20	Apr-21	Closeout	
17-074	GeoExchange System		\$ 21,300,000	Sep-19	\$ 620,250	3%	\$ 109,244	1%	NA	Dec-20	Mar-21	Dec-21	Construction	
17-068	Mountain Campus Experiential Learning Center		\$ 3,700,000	Sep-19	\$ 1,184	0%	\$ -	0%	Sep-19	Jul-21	Dec-21	Jul-22	Design	
18-034	South Campus Infrastructure		\$ 7,150,000	Feb-19	\$ 2,377,583	33%	\$ 1,044,924	15%	NA	Apr-21	Aug-21	Apr-22	Construction	
17-001	NWC Water Resources		\$ 91,512,205	May-18	\$ 9,861,549	11%	\$ 2,948,792	3%	May-18	Oct-22	Mar-23	Oct-23	Design	
17-002	NWC Animal Health Building		\$ 60,018,401	May-19	\$ 7,420,758	12%	\$ 2,656,847	4%	May-19	Oct-21	Mar-23	Oct-22	Construction	
17-003	NWC CSU Center		\$ 48,503,374	May-19	\$ 5,707,706	12%	\$ 1,413,387	3%	May-19	Oct-22	Mar-23	Oct-23	Design	
11-059	Multipurpose Stadium, Ph 1 of 1		\$ 238,200,000	Apr-15	\$ 243,170,243	102%	\$ 243,170,243	102%		Jun-17	Jan-20	Jan-20	Closeout	L1 & L2 submitted Jan 2020
14-016	Global Food Innovation Center, Ph 1 of 1		\$ 20,000,000	June-17	\$ 18,014,703	90%	\$ 18,014,703	90%		Jan-19	Sep-19	Sep-19	Closeout	L1 & L2 submitted Sept 2019
16-003	Health Education Outreach Center, Ph 1 of 1		\$ 23,200,000	June-17	\$ 23,669,618	102%	\$ 23,669,618	102%		Jan-19	Sep-19	Sep-19	Closeout	L1 & L2 submitted Sept 2019
16-006	Corbett-Parmelee Dining Center Renovation, Ph 1 of 1		\$ 10,500,000	June-17	\$ 12,007,881	114%	\$ 12,007,881	114%		Aug-18	Dec-18:A	Sep-19	Closeout	L2 submitted Sept 2019
16-010	Richardson Design Center, Ph 1 of 1		\$ 19,100,000	May-17	\$ 19,137,322	100%	\$ 19,137,322	100%		Jan-19	Sep-19	Sep-19	Closeout	L1 & L2 submitted Sept 2019
16-014	Translational Medicine Institute, Ph 1 of 1		\$ 77,800,000	Apr-17	\$ 77,090,938	99%	\$ 77,090,938	99%		Mar-19	Jan-20	Mar-20	Closeout	L1 & L2 submitted Nov 2019
16-016	Michael Smith Addition to WCNR, Ph 1 of 1		\$ 20,200,000	May-17	\$ 21,379,783	106%	\$ 21,379,783	106%		Aug-18	Sep-19	Sep-19	Closeout	L1 & L2 submitted Sept 2019
2009-020P14	Chemistry Building Addition, Ph 1 of 3	\$ 15,000,000	\$ -	Sept-14	\$ 15,000,000	100%	\$ 15,000,000	100%		N/A	N/A	N/A	Closeout	
2009-020P14	Chemistry Building Addition, Ph 2 of 3	\$ 23,694,678	\$ 5,400,000	July-15	\$ 29,094,678	100%	\$ 29,094,678	100%		N/A	N/A	N/A	Closeout	
2009-020P14	Chemistry Building Addition, Ph 3 of 3	\$ 12,471,940	\$ -	July-16	\$ 12,471,940	100%	\$ 12,471,940	100%		Oct-17	Jan-19A	Sep-19	Closeout	L2 Sent Sept 2019



FY 2021-22 Controlled Maintenance Project - Status Report (OSA CM-SR)

(A) Agency/Institution: Colorado State University-Fort Collins		(B) OSA Delegate Signature/Date: JONATHANMIKE RUSH 07/02/20 ⁹ <small>JONATHANMIKE.RUSH@STATE.CO.US (Sat 7, 2020 12:44 MDT)</small>											
(1) Project Number	(2) Project Description, Phase	(3) CCF Appropriation (\$)	(4) Other Funds (\$)	(5) Date Funds Available	(6) Dollars Committed/Contract Totals (\$)	(7) Percent of Dollars Committed to Appropriation (%)	(8) Dollars Approved /Pay Application Totals (\$)	(9) Percent of Dollars Approved to Appropriation (%)	(10) Date of Notice of Substantial Completion (SBP-07)	(11) Exhibit L1 Code Compliance Date	(12) Exhibit L2 (SC-4.1) Date	(13) Comments /Status	Notes from CSU
2017-086M19	SB267 Repair Failing Walls, Pickett Center, Ph 1 - 2	\$ 2,258,024		Sep-18	\$2,258,024	100%	\$ 2,258,024	100%	May-20	Dec-20	Dec-20	Closeout	
2017-095M17	Replace Bio-hazard HVAC System, Bioenvironmental Research Building, Ph 1 of 1	\$ 1,939,959		July-17	\$1,939,959	100%	\$ 1,939,959	100%	May-20	Dec-20	Dec-20	Closeout	L1 & L2 submitted June 2020
2015-107M16	HVAC Upgrades, Chemistry Building, Ph 1 of 1	\$ 800,865		July-16	\$ 800,865	100%	\$ 800,865	100%	Oct-18	Jan-19:A	May-19	Closeout	Revised L2 sent May 2019
2018-044M17	Install Sprinklers and Repair Emergency Lighting, Administration Building, Ph 1 of 1	\$ 431,481		July-17	\$ 431,481	100%	\$ 431,481	100%	Jul-19	Oct-19	Oct-19	Closeout	L1 & L2 submitted Oct 2019
2018-051M19	SB267 Replace Roof above Auditorium, Engineering Building, Ph 1 of 1	\$ 145,896		Sep-18	\$ 145,896	100%	\$ 145,896	100%	May-20	Dec-20	Dec-20	Closeout	L1 & L2 submitted March 2020
2018-054M19	SB267 Replace Roof, Glover Building, Ph 1 of 1	\$ 524,316		Sep-18	\$ 75,485	14%	\$ -	0%	May-21	Aug-21	May-22	Construction	partial reallocation Aug 2019 to 2017-086M19
2018-070M19	SB267 Repair/Remove, Engineering Bridge, Ph 1 of 1	\$ 363,383		Sep-18	\$ 40,153	11%	\$ -	0%	May-21	Dec-21	Dec-21	Bidding	
2018-071M19	SB267 Repair Exterior Enclosure Industrial Sciences Building, Ph 1 of 1	\$ 1,992,564		Sep-18	\$ 162,158	8%	\$ 853	0%	May-21	Dec-21	Dec-21	Construction	
2019-031M18	Replacement of Wastewater Treatment Plant, Mountain Campus, Ph 1 of 2	\$ 562,075		July-18	\$ 562,075	100%	\$ 122,324	22%	NA	NA	NA	Construction	
2019-031M18	Replacement of Wastewater Treatment Plant, Mountain Campus, Ph 2 of 2	\$ 1,845,608		July-19	\$ 161,937	9%	\$ -	0%	Oct-21	Feb-22	Feb-22	Construction	
2019-033M18	Install Fire Sprinkler, Industrial Sciences Lab, Ph 1 of 1	\$ 217,810		July-18	\$ 187,140	86%	\$ 173,061	79%	Aug-20	Nov-20	Aug-21	Closeout	L1 & L2 submitted June 2020
2019-036M18	Install Fire Sprinkler, Forestry Building, Ph 1 of 1	\$ 262,131		July-18	\$ 28,181	11%	\$ 6,600	3%	Aug-20	Nov-20	Aug-21	Bidding	
2019-039M18	Sprinkler Installation, Danforth Chapel, Ph 1 of 1	\$ 109,068		July-18	\$ 8,964	8%	\$ -	0%	21-Aug	21-Nov	22-Aug	Design	Additional funds requested in FY 21-22 CMBR
2020-069M19	Replace Emergency Generator, CSU Police Services Building, Ph 1 of 1	\$ 190,635		July-19	\$ 14,213	32%	\$ -	0%	Aug-21	Nov-21	Aug-22	Bidding	
2020-070M19	Replace Domestic Water Line, University Avenue, Ph 1 of 1	\$ 537,676		July-19	\$ 15,000	34%	\$ -	0%	Aug-21	Nov-21	Aug-22	Construction	
2020-082M19	Modernize Elevators, Atmospheric Science and Eddy Hall, Ph 1 of 1	\$ 281,930		July-19	\$ 116,480	265%	\$ -	0%	Aug-21	Nov-21	Aug-22	Construction	
2020-084M19	Replace Multiple Primary Electric Switchgears, Main Campus, Ph 1 of 1	\$ 588,904		July-19	\$ 15,106	34%	\$ -	0%	Aug-21	Nov-21	Aug-22	Bidding	
2020-088M19	Replace ARDEC Farm Bridge, Ph 1 of 1	\$ 349,872		July-19	\$ 36,400	83%	\$ 3,400	1%	Aug-21	Nov-21	Aug-22	Construction	



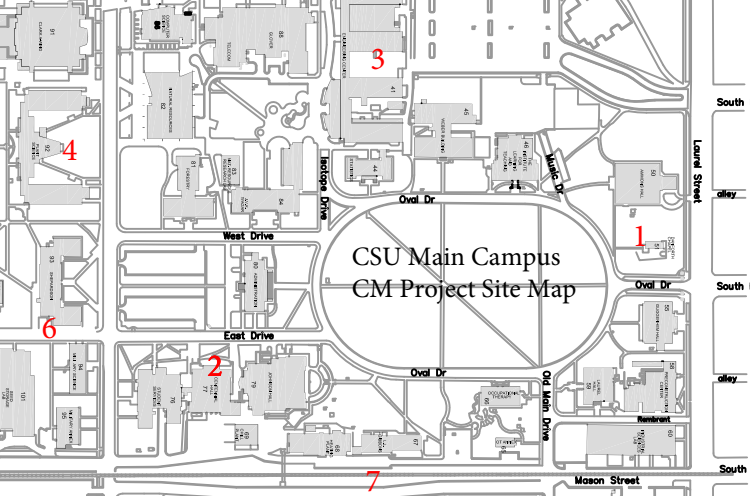
Controlled Maintenance Project Request - Five Year Plan FY 2021-22 to FY 2025-26 (CM-5P)

(A) Agency/Institution:	Colorado State University - Ft Collins	(B) Agency/Institution Signature Approval:	<i>M. Battersby</i>	07/02/20	Date
(C) OSA Delegate Signature:	<u>JONATHAN MIKE RUSH</u>	07/02/20	Date	(D) OSA Review Signature:	Date

(1) Agency / Institution Priority #	(2) Project M # (if continuation)	(3) CM Category	(4) Project Title - # of Phases	(5) Total Project Cost	(6) Prior Appropriation	(7) FY21/22 Budget Request	(8) FY22/23 Budget Request	(9) FY23/24 Budget Request	(10) FY24/25 Budget Request	(11) FY25/26 Budget Request
1	2019-039M18	FS	Danforth Chapel Sprinkler Installation Ph 2 of 2	\$233,262	\$109,068	\$124,194				
2		RF	Centennial Hall roof replacement	\$484,382		\$484,382				
3		RF	Engineering B wing roof replacement	\$538,891		\$538,891				
4		HVAC	Plant Sciences Building-separate domestic and Industrial Plumbing Systems	\$514,553		\$514,553				
5		FS	ADA accessibility improvements-main campus	\$377,862		\$377,862				
6		I	Libby Coy Way Domestic Water Line Replacement	\$504,134		\$504,134				
7		I	Replace Sanitary Sewer C basin Outfall	\$517,012		\$517,012				
8		I	ARDEC Wells Rehabilitation	\$1,090,497		\$1,090,497				
9		I	Exterior lighting LED upgrade	\$580,152		\$580,152				
		FS	Campus Accessibility Infrastructure needs-north of Transit Center, SW of Gibbons,	\$300,000			\$300,000			
		FS	ADA Interior accessibility improvements-various buildings, 4 phases	\$1,400,000			\$350,000	\$350,000	\$350,000	\$350,000
		MISC	Elevator Upgrades: various buildings 4 phases	\$900,000			\$225,000	\$225,000	\$225,000	\$225,000
		I	Mountain Campus Sanitary Sewer repair	\$95,000			\$95,000			
		RF	Replace Roof, A & C Wings, Engineering Building, 2 Phase	\$1,040,000			\$520,000	\$520,000		
		I	Upgrade Sanitary Sewer Lines, 3 Phases	\$2,250,000			\$0	\$750,000	\$750,000	\$750,000
		FS	Upgrade Campus Door Locking System, 4 Phases	\$4,000,000			\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
		HVAC	Replace Primary HVAC System, Fum McGraw, 1 Phase	\$2,000,000			\$2,000,000			
		RF	Repair/Replace Roofs, Various Buildings, 4 Phases	\$7,000,000			\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000
		HVAC	Replace Air Handlers, Physiology, 2 Phases	\$3,600,000			\$1,800,000	\$1,800,000		
		HVAC	Replace Deteriorated Mechanical Systems, Anatomy Zoology, 3 Phases	\$4,000,000			\$1,500,000	\$1,500,000	\$1,000,000	
		HVAC	Replace Deteriorated Mechanical Systems, Microbiology, 3 Phases	\$4,500,000				\$1,500,000	\$1,500,000	\$1,500,000
		HVAC	Replace Deteriorated Mechanical Systems, Chemistry, 3 Phases	\$4,500,000				\$1,500,000	\$1,500,000	\$1,500,000
		HVAC	Replace Deteriorated Mechanical Systems, Painter, 3 Phases	\$4,500,000				\$1,500,000	\$1,500,000	\$1,500,000
		HVAC	Replace Deteriorated Mechanical Systems, Pathology, 2 Phases	\$2,000,000					\$1,000,000	\$1,000,000
		I	Repairs to the Steam and Condensate Utility Systems, 2 Phases	\$3,000,000					\$1,500,000	\$1,500,000
		HVAC	Replace Deteriorated Mechanical Systems, Engineering Research Center, 2 Phases	\$3,000,000					\$1,500,000	\$1,500,000
		I	Repair/Replace Deteriorated Roads and Sidewalks, Main Campus, 4 phases	\$1,600,000			\$400,000	\$400,000	\$400,000	\$400,000
			\$ -							
			\$ -							
(12) Totals for each Fiscal Year						\$4,731,677	\$9,940,000	\$12,795,000	\$13,975,000	\$12,975,000
(13) Grand Total of the Five Year Plan						\$54,416,677				



FY 2021-22 Controlled Maintenance Project Request - Summary (CM-S)							
(A1) Agency/Institution		Colorado State University - Ft Collins			(A2) Agency/IHE GSF		12512524
(B) OSA Delegate Signature:		<u>JONATHAN MIKE RUSH</u> <small>(APPROPRIATION CONTROL, 2019-2024)</small>			07/02/20		Date
(C) OSA Delegate Name:		Mike Rush					
(D) Agency/Institution Signature Approval:		<i>[Signature]</i>			07/02/20		Date
(1) Agency / Institution Priority #	(2) Project M# (if continuation)	(3) PROJECT TITLE and PHASE	(4) Project Cost \$	(5) Operational Criteria (OC)	(6) Priority Multiplier (PM)	(7) Critical Index (CI)	(8) Project Score (PS)
1	2019-039M18	Danforth Chapel Sprinkler Installation Ph 2 of 2		1	1		
		(b) Phase 2 of 2					
		(c) Total Project Cost:	\$ 233,262				
		(d) Prior Appropriation:	\$ 109,068				
		(e) Current Year Request:	\$ 124,194				
		(f) Project Balance:	\$ -				
2		Centennial Hall roof replacement		1	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 484,382				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 484,382				
		(f) Project Balance:	\$ -				
3		Engineering B wing roof replacement		1	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 538,891				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 538,891				
		(f) Project Balance:	\$ -				
4		Plant Sciences Building-separate Domestic and Industrial Plumbing Systems		1	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 514,553				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 514,553				
		(f) Project Balance:	\$ -				
5		ADA accessibility improvements-main campus		1	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 377,862				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 377,862				
		(f) Project Balance:	\$ -				
6		Libby Coy Way Domestic Water Line Replacement		2	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 504,134				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 504,134				
		(f) Project Balance:	\$ -				
7		Replace Sanitary Sewer C basin Outfall		2	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 517,012				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 517,012				
		(f) Project Balance:	\$ -				
8		ARDEC Wells Rehabilitation		2	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 1,090,497				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 1,090,497				
		(f) Project Balance:	\$ -				
9		Exterior lighting LED upgrade		2	1		
		(b) Phase 1 of 1					
		(c) Total Project Cost:	\$ 580,152				
		(d) Prior Appropriation:	\$ -				
		(e) Current Year Request:	\$ 580,152				
		(f) Project Balance:	\$ -				
(g) Current-Year CM Total			\$ 4,731,677				



CSU Main Campus
CM Project Site Map

3

4

1

6

2

7

South

alley

South

alley

South

Laurel Street

Mason Street

Oval Dr

Oval Dr

Oval Dr

Old Main Drive

Isotope Drive

West Drive

East Drive

Rembrandt

Music Dr

91

90

88

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STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Danforth Chapel Sprinkler Installation	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): Ph 2 of 2
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation): 2019-039M18
D	(1) Agency/Institution Signature Approval:	<i>J. B. Bartholomew</i>	(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	1	(2) Revision Date:
F	(1) Total Project Cost:	\$233,262	(2) Cost of Current Year: \$124,194

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI
Danforth Chapel	3227	1068	\$24,650,300	70	70

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status
2019-039M18	Danforth Chapel Sprinkler Installation Ph 1 of 2	\$109,068	In design

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

The existing Danforth Chapel (built in 1954) is not sprinklered. The non-denominational gathering place features copper doors, stained glass, walnut pews and many other unique features. It has hosted thousands of weddings, memorial services and other events, and is a favorite spot of students, faculty and community members for quiet contemplation. The doors remain open during the day to allow for spontaneous use by the campus community.

It is an historically significant structure—only 24 “Danforth Chapels” were built in the US : 15 chapels on college and university campuses and nine other locations. The **Danforth Chapel Program** was funded by the Danforth Foundation, an organization created in 1927 by William H. Danforth, founder of the Ralston Purina Company, and his wife.

Sprinkler installation in this building is complicated by the small size and historic nature.

2) Description of CM Solution, by Phase:

Phase 1 funds--design and sprinkler installation in a non-intrusive, aesthetically pleasing manner consistent with the historic nature of the building.

Phase 2 funds--3" HDPE fire line to building and data line from flow switch to fire alarm panel

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

A fire in this building would cause loss of use of the facility, and loss of an important, historically significant structure.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

There is currently no sprinkler in the building so this project will improve occupant safety as well as protect the building and contents from loss. We would expect the FCA to improve to 68 when the project is complete.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

No energy consuming systems affected.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information:
Explain method of establishing cost estimate, and Date of the Cost Estimate:
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase:

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
2019-039M18	FY 2018/2019	Ph 1 of 2	109,068
	FY 2019/2020		
	FY 2020/2021		
			(Subtotal) \$109,068

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	Ph 2 of 2	\$124,194

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
			(Subtotal) \$

TOTAL PROJECT DOLLAR AMOUNT

\$ 233,262

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)		
3) Construction (Insert Dates)	July 2021	Dec 2021
4) Project Close-out/Final Completion (Insert Dates)	Jan 2022	



FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)

A	Project Title:	Danforth Chapel Sprinkler Installation		
B	Agency/Institution:	Colorado State University - Ft Collins		
C	(1) Project Phase	Ph 2 of 2	(2) State Controller Project #	2019-039M18
D	Revision Date:	Date		

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$7,600
3	Code Review/Inspection:			\$804
4	Other (Explain): Project Management			\$9,500
5	Inflation Percentage/dollar amount: (This Phase)		0%	
6	Total of Professional Services:			\$17,904

Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)

	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	3" HDPE fire line to building	1	\$63,750	\$63,750
12	(Specify)			\$0
13	Structure/Systems/Components			
14	Data line from fire flow switch	1	\$17,000	\$17,000
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		8%	\$7,600
22	Contractor's Overhead & Profit:		7%	\$6,650
23	Inflation Percentage/Dollar Amount: (This Phase)		%	\$0
24	Total of Construction Improvement Costs:			\$95,000

Miscellaneous Costs: (List Items)

25				
26	(Specify)			
27	Total of Miscellaneous Costs			\$0

Project Contingency

28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$11,290
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Cost of Current Phase

29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$124,194
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Project Summary

30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$124,194

Note: Agency or Contractor Cost Estimates shall accompany this page.

FACILITIES MANAGEMENT

AT COLORADO STATE UNIVERSITY

REMODEL SERVICES CHANGE ORDER

To: Shelly Carroll
Facilities
491-0167
Facilities

Date: 06/16/20
Project #: 170626A
Customer ID#: 6030
Expiration Date: 9/14/2020
Change Order #: 001

P.M.	Phone #	Project title
Barry Willier	567-6709	Danforth Chapel Fire Sprinkler

Quantity	Labor/Material	Description	Unit Price	Less received	Line Total
1.00	Fire Line	Project shortage to install 3" HDPE fire line to building. Fire line to be bored from 8" main in street.	\$ 75,000.00		\$ 75,000.00
1.00	Fiber line	Fiber communication line to be installed so that fire riser flow and tamper switch can report to CSU PD. There is no current communication line to building. Fiber line to be run in 1" PV conduit under ground to building.	20,000.00		20,000.00
			Construction Subtotal		95,000.00
			Contingency		9,500.00
			Design Fees	\$	7,600.00
			Third Party Code Review Fees		804.00
			Project Management Fees	\$	9,500.00
				Total	\$ 122,404.00

This is a quote for this project only subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included
2. Asbestos or Lead hazard assessment or abatement is not covered unless stated
3. This quote does not cover the activation of phone and data lines; customer will need to contact Telecom to activate lines

To accept this quote, submit a Kuali Transfer of Funds document. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please process a Kuali WOA.

Thank You For Your Business



STATE OF COLORADO
 DEPARTMENT OF PERSONNEL & ADMINISTRATION
 OFFICE OF THE STATE ARCHITECT

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Centennial Hall Roof Replacement	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> <small>JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)</small>	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:		(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	2	(2) Revision Date:
F	(1) Total Project Cost:	\$484,382	(2) Cost of Current Year: \$484,382

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI
Centennial Hall	3255	44,047	15,090,955	78	80

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

Centennial Hall was built in 1950 and we have no records of the last roof replacement. The roof has had numerous leaks dating back to 2008 and at least 2 projects to repair interior damage due to the roof leaking. Admission, Financial Aid and Registrar staff have had to vacate their work space until repairs were made.

The roof is constructed of modified bitumen that is very worn, with many tar patches at seams and around drains. About 50% of the roof has had a rolled roof coating applied to help stop leakage into the building, with limited success. The roof is beyond useful life and has numerous issues (leaks, deteriorated roof drains, etc.) that cannot be resolved through continual patching.

Without records drawings we cannot verify the extent of roof insulation but expect that the existing roof has very little insulation. This roof has been on our internal project list for many years. With the recent completion of other roof replacements it has risen to the top priority.

2) Description of CM Solution, by Phase:

Remove roof down to concrete deck, supply and install new white TPO roofing system to meet current building and energy codes.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

Continued roof deterioration with increasing roof leaks will result in loss of use of affected areas and increasing need for significant interior repair projects to address damage. Programs affected by loss of use include student services such as Admissions, Registrar and Financial Aid.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

The roof makes up approximately 3% of the facility condition index. We expect the FCI of the project to increase to 80 after roof replacement.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

Recently completed LEED certified buildings have analyzed various materials and determined that white TPO roofs are the most energy efficient choice.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information: Centennial Hall Roof.pdf
Explain method of establishing cost estimate, and Date of the Cost Estimate: Remodel and Construction services estimate
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase:

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	484,382

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
(Subtotal)			\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 484,382

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	March 2022
3) Construction (Insert Dates)	May 2022	Aug 2022
4) Project Close-out/Final Completion (Insert Dates)	Sept 2022	



FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)			
A	Project Title:	Centennial Hall Roof Replacement	
B	Agency/Institution:	Colorado State University - Ft Collins	
C	(1) Project Phase	1 of 1	(2) State Controller Project #
D	Revision Date:	Date	

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$37,950
3	Code Review/Inspection:			\$1,928
4	Other (Explain): Project management			\$34,500
5	Inflation Percentage/dollar amount: (This Phase)		5%	\$3,719
6	Total of Professional Services:			\$78,097
Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)				
	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	(Specify)			\$0
12	(Specify)			\$0
13	Structure/Systems/Components			
14	Roof	15000	\$20	\$293,250
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		8%	\$27,600
22	Contractor's Overhead & Profit:		7%	\$24,150
23	Inflation Percentage/Dollar Amount: (This Phase)		5%	\$17,250
24	Total of Construction Improvement Costs:			\$362,250
Miscellaneous Costs: (List Items)				
25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0
Project Contingency				
28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$44,035
Cost of Current Phase				
29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$484,382
Project Summary				
30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			15000
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			\$32
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$484,382

Note: Agency or Contractor Cost Estimates shall accompany this page.



STATE OF COLORADO
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OFFICE OF THE STATE ARCHITECT

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Engineering B wing roof replacement	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:		(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	3	(2) Revision Date:
F	(1) Total Project Cost:	\$520,258	(2) Cost of Current Year: \$538,891

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI
Engineering	3217	232,514	\$112,840,648	69	70

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status
2018-051M19	Engineering Auditorium Roof Replacement	\$145,896	Complete

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

The Engineering Building was built in 1957. B-wing roof consists of insulated modified bitumen roof membrane with granule surfacing. The roof appears to be 20 years old and has repeatedly failed, with multiple patches. In addition, the roof does not have proper drainage due to low areas and damaged insulation and HVAC roof curbs must be raised to meet current code requirements. This is a high roof replacement priority for main campus.

2) Description of CM Solution, by Phase:

Remove existing B-wing roof to concrete deck. Supply and install new white TPO roof and insulation to meet current code. The new roof would have minimum thermal insulation value of R-30 and it will also have to incorporate tapered insulation.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

B-wing houses engineering classrooms and laboratories with high value engineering research projects and extremely expensive research equipment. Roof leaks have damaged laboratory equipment in the past. Continued deterioration will result in loss of use and relocation of classrooms and research until repairs can be made.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

Roofs are approximately 3% of the overall FCA score. We would expect the FCA to improve to 70.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

Recently completed LEED certified buildings have analyzed various materials and determined that white TPO roofs are the most energy efficient choice.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information: RCS budget-Engineering B wing.pdf
Explain method of establishing cost estimate, and Date of the Cost Estimate: In-house budget estimate from Remodel and Construction Services dated 4/29/19
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortenson and Turner Construction Cost reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	\$538,891

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
(Subtotal)			\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 538,891

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	Nov 2021
3) Construction (Insert Dates)	May 2022	Sept 2022
4) Project Close-out/Final Completion (Insert Dates)	Oct 2022	



STATE OF COLORADO
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6/23/2020

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)

A	Project Title:	Engineering B wing roof replacement		
B	Agency/Institution:	Colorado State University - Ft Collins		
C	(1) Project Phase	1 of 1	(2) State Controller Project #	
D	Revision Date:	Date		

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$38,720
3	Code Review/Inspection:			\$4,916
4	Other (Explain):			\$39,072
5	Inflation Percentage/dollar amount: (This Phase)			\$10,500
6	Total of Professional Services:			\$93,208

Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)

	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	(Specify)			\$0
12	(Specify)			\$0
13	Structure/Systems/Components			
14	Remove and install new roof system	17600	\$17	\$299,200
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		8%	\$28,160
22	Contractor's Overhead & Profit:		7%	\$24,640
23	Inflation Percentage/Dollar Amount: (This Phase)		9%	\$44,693
24	Total of Construction Improvement Costs:			\$396,693

Miscellaneous Costs: (List Items)			
25	(Specify)		
26	(Specify)		
27	Total of Miscellaneous Costs		\$0

Project Contingency			
28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.		\$48,990

Cost of Current Phase			
29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)		\$538,891

Project Summary			
30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:		17600
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:		\$30.62
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)		\$538,891

Note: Agency or Contractor Cost Estimates shall accompany this page.



STATE OF COLORADO
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FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Plant Sciences Industrial/Domestic plumbing separation	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:	<i>J. Satterly</i>	(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	4	(2) Revision Date:
F	(1) Total Project Cost:	\$514,553	(2) Cost of Current Year: \$514,553

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI
Plant Sciences	3278	85,323	41,407,841	73	77

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

Laboratories in the Plant Science building (built in 1959) have evolved over time into intensive research areas that utilize hazardous chemicals including pesticides, fertilizers and extraction solvents. Most of the laboratories in the building now have hazardous materials notices on the doors. The hazardous nature of the laboratory operations represents a potential cross-connection situation; lab sinks are often equipped with hoses clamped to the faucets thereby eliminating the air-gap protection of the water system.

CSU has determined that separate industrial and domestic plumbing systems are the most effective long-term risk management strategy for building water quality in lab-intensive buildings, due to occupant changeover and evolution of use in the lab spaces over time. This is combined with educational outreach and contaminant control programs through Environmental Health Services. CSU's standards currently require separate industrial and domestic plumbing systems in new buildings which have labs.

2) Description of CM Solution, by Phase:

The scope of this project is to provide a dedicated industrial service to end use fixtures that are not intended for human or animal consumption, separated by backflow devices from the domestic service in order to protect drinking water from potential back-siphonage or backflow from laboratories and industrial processes. This will require that we relocate existing backflow preventers inside the building and install domestic (potable) hot, cold and recirculating piping.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

Current plumbing system risks potential contamination of potable water locations such as drinking fountains and restrooms.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

This is primarily a Health and Safety project, however with new plumbing in the building we would expect the FCI to improve to 77.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

No energy consuming systems affected.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information: Plant Science Plumbing Separation Cost estimate.xls
Explain method of establishing cost estimate, and Date of the Cost Estimate: CSU Engineering Department Estimate
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortenson and Turner Cost Index reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	514,553

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
(Subtotal)			\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 514,553

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	Feb 2022
3) Construction (Insert Dates)	May 2022	Aug 2023
4) Project Close-out/Final Completion (Insert Dates)	Sept 2023	



STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

6/23/2020

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)			
A	Project Title:	Plant Sciences Industrial/Domestic Plumbing Separation	
B	Agency/Institution:	Colorado State University - Ft Collins	
C	(1) Project Phase	1 of 1	(2) State Controller Project #
D	Revision Date:	Date	

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$33,000
3	Code Review/Inspection:			\$16,500
4	Other (Explain): Project Management			\$66,000
5	Inflation Percentage/dollar amount: (This Phase)		5%	\$5,775
6	Total of Professional Services:			\$121,275
Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)				
	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	Relocate existing backflow preventers to inside building	1	\$93,500	\$93,500
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	(Specify)			\$0
12	(Specify)			\$0
13	Structure/Systems/Components			
14	new domestic (potable) cold, hot and recirculation piping	1	\$187,000	\$187,000
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		8%	\$26,400
22	Contractor's Overhead & Profit:		7%	\$23,100
23	Inflation Percentage/Dollar Amount: (This Phase)		5%	\$16,500
24	Total of Construction Improvement Costs:			\$346,500
Miscellaneous Costs: (List Items)				
25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0
Project Contingency				
28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$46,778
Cost of Current Phase				
29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$514,553
Project Summary				
30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$514,553

Note: Agency or Contractor Cost Estimates shall accompany this page.

Plant Science Building
Plumbing Separation - Domestic/Industrial
Budgetary Cost Estimate (Rough Order of Magnitude)
7/3/2019

Description:	Unit	Qty.	Unit cost	Total
Relocate existing BFP devices to inside building	LS	1	\$ 110,000.00	\$ 110,000.00
Add new domestic (potable) cold hot and recirculation piping	LS	1	\$ 220,000.00	\$ 220,000.00
Design by consultant	%	10		\$ 33,000.00
PM fees	%	20		\$ 66,000.00
Code review	%	5		\$ 16,500.00
Contingency	%	10		\$ 33,000.00
TOTAL:				\$ 478,500.00

Sources:
Concept and discussion by P.E.'s in CSU's Engineering Group
See emails of June and July 2019



STATE OF COLORADO
 DEPARTMENT OF PERSONNEL & ADMINISTRATION
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FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	ADA Accessibility Improvements	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:	<i>J. B. Battenby</i>	(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	5	(2) Revision Date:
F	(1) Total Project Cost:	\$377,862	(2) Cost of Current Year: \$377,862

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

Multiple locations on CSU's main campus have identified ADA accessibility issues as assessed during a site walk with Resources for Disabled Students staff. The projects range from missing/deficient sidewalks to curb cut ramps. Ammons and Spruce Halls in particular have extremely difficult access routes that push people in wheelchairs out to the street and/or cause them to take a very circuitous route to the handicapped entrances. Ammons Hall is the university's Welcome Center and should be easily accessible to student and parent visitors. The TILT building houses Resources for Disabled Students, generating a lot of student visits and handicapped movement along the Oval. The attached project listing and map identifies 17 locations in need of improvement.

2) Description of CM Solution, by Phase:

Add sidewalks, ramps and/or curb cuts to 17 locations.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

CSU has self-funded some ADA accessibility improvements with various projects, but addressing the top priorities for ADA accessibility will take many years with the budgets that are available. Unsafe access routes that rely on using the street will continue to be hazardous to disabled students.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

ADA accessibility upgrades will improve the existing sidewalk and ramp infrastructure. We have not established FCI criteria for this type of infrastructure.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

No energy consuming systems are affected.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information: 2019 Campus Accessibility Inf Needs_Funding.pdf
Explain method of establishing cost estimate, and Date of the Cost Estimate: CSU Landscape Architect estimate
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortenson and Turner Construction Cost reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):**PRIOR FUNDED PHASES¹**

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	377,862

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
(Subtotal)			\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 377,862

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	Dec 2021
3) Construction (Insert Dates)	May 2022	Aug 2022
4) Project Close-out/Final Completion (Insert Dates)	Sept 2022	Sept 2022



STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

6/23/2020






FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)			
A	Project Title:	ADA Accessibility Improvements	
B	Agency/Institution:	Colorado State University - Ft Collins	
C	(1) Project Phase	1 of 1	(2) State Controller Project #
D	Revision Date:	Date	






Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$20,294
3	Code Review/Inspection:			\$2,500
4	Other (Explain):			\$20,294
5	Inflation Percentage/dollar amount: (This Phase)			\$6,788
6	Total of Professional Services:			\$49,876
Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)				
	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	Sidewalk and ramps			\$215,620
12	(Specify)			\$0
13	Structure/Systems/Components			
14	(Specify)			\$0
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:			8% \$20,294
22	Contractor's Overhead & Profit:			7% \$17,756
23	Inflation Percentage/Dollar Amount: (This Phase)			\$39,965
24	Total of Construction Improvement Costs:			\$293,635
Miscellaneous Costs: (List Items)				
25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0
Project Contingency				
28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$34,351
Cost of Current Phase				
29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$377,862
Project Summary				
30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$377,862







Note: Agency or Contractor Cost Estimates shall accompany this page.




2019 Main Campus Accessibility Infrastructure Needs: Funding Request



6/7/2019




Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
Phase 1: Exterior accessible maintenance issues on Main Campus							
<i>QUADRANT 1: NORTHEAST CAMPUS</i>							
Deficient existing ramps and sidewalks							
1	Between Ammons and Danforth Chapel	Replace sidewalk as the sidewalk is slumping at the curb edge.	The sidewalk is slumping at curb edge AND is also sloped so wheelchair users often feel like they are going to tip over edge of walk. This is a heavily used sidewalk as many students live north of campus and enter campus at Howes Dr; visitors often walk along here near Ammons (Admissions). This is also a major pedestrian connecting between this campus entry and the Student Disability Ctr. in the TILT Building.		450 SF	\$17,710.00	\$17,710.00
2	Danforth Chapel	Danforth ramp – put a steel plate edging along the south side of the ramp.	It is hard to see where the ramp is due to shrubs and no hard edge. Wheelchair users don't feel safe next to the edge of ramp without edge protection.		NA	\$1,725.00	\$19,435.00
3	Occupational Therapy Building - North building entry area	Move existing drain and repour concrete ramp and patio. Relocate bike parking from this area. Move drainage and drain away from entry door. Replace existing ADA push button with push plate.	This is the only accessible entry to the building, which serves a large population of people with disabilities. This entry walk is sloped and on the north side and contains a drain that isn't working well. In combination with an immediate evergreen tree, this area is continuously icy throughout the winter.		NA	\$34,500.00	\$53,935.00
4	Occupational Therapy Building - west of building next to ADA parking space	Replace concrete sidewalk and curb and gutter.	Concrete sidewalk is cracked and does not meet ADA compliance, immediately adjacent to the ADA parking space for the building (serves a large population of people with disabilities)		120 SF/20 LF curb and gutter	\$3,250.00	\$57,185.00
5a - 5i	Ramps around the Oval	Replace ramps to meet ADA compliance	Ramps are too narrow and too steep. Need truncated dome surfaces. The Oval is a major destination on campus for the campus community and visitors.		9 ramps	\$49,500.00	\$106,685.00

Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
							
6	Administration ramp area at NW corner	Replace ramp to meet ADA compliance. Regrade for less slope, will require replacing sidewalk length and adding curb at back of walk.	Ramp is too steep and sidewalk is not wide enough to easily replace just the ramp. Cross slope is too steep. Dangerous ramp situation that many wheelchair users avoid. Need truncated dome surfaces. This is a major pedestrian route around the Oval and to the Administration Building. there is no sidewalk across the street at the Oval and this is one of the most severely slopes ramped areas on campus.		NA	\$17,700.00	\$124,385.00
7	West side of Johnson Hall and Centennial Hall along East Drive	Remove driveway curb cuts (no longer in use) and replace with sidewalk and curb/gutter.	Sidewalks slope too much in these areas, not in ADA compliance, and there isn't any other non-sloped pavement around. Difficult for wheelchairs to maneuver. Across the street is the same condition but much more difficult to replace due to driveway, mature trees and sidewalk condition. One of these sides of the streets needs to be fixed to at least have one safe and accessible route along this street adjacent to Student Services, Financial Aid and the Administration Building.		NA	\$17,300.00	\$141,685.00
8	Southeast of Administration building along East Drive.	Replace ramp and add truncated dome surfaces.	Existing ramp does not meet ADA compliance and this ramp is adjacent to one of the few informational kiosks on campus - heavily used by visitors at the Admin. Building.		1 ramp	\$5,000.00	\$146,685.00
9	Rouff Hall	Replace existing stone path on east side with concrete sidewalk. Widen path to match 8 feet width of sidewalk where existing stone path ends at Spruce. Add handrails to stairway on east side of Rouff (no handrails). Widening walk will allow for the ADA required extension of handrails. Replace ADA ramp with a more radial ramp at ADA entrance to Rouff on west side.	Existing path of large stones east side of Rouff Hall from Laurel Street. does not meet ADA compliance. Laurel Street is a major campus sidewalk edge and this sidewalk not being in ADA compliance means wheelchair users have to go all the way around to the west into the alley to enter the ADA entrance of Rouff (west side of Rouff). Existing ADA ramp to ADA entrance of Rouff is too steep and is obstructed by ADA parking spaces. Replace ADA ramp.			\$25,200.00	\$171,885.00

Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
							
10	Spruce Hall	<p>Replace existing sidewalk and stoop on north side of Spruce with ramp to ADA entrance at NW building entry (so pedestrians coming south from Laurel no longer have to go all the way around the south side of Spruce to get to the only ADA entrance at the northwest entry of Spruce.) Create new ADA accessible paved entrance at NW entry of Spruce. This requires a new concrete entrance to doors and ramp on west side, removing one loading zone space. Current 2 ADA spaces do not have the required striped ADA loading zone. Move parking spaces further south. To keep access to ADA parking spaces at Sage Hall parking lot as well, a ramped bulb out will be built into the alley from the sidewalk along the west side of Spruce. This bulb out ramp will have bollards to protect from alley traffic. Remove large stone path south of Spruce Hall with new sidewalk west to alley so anyone from the south or southeast can access the northwest ADA entrance of Spruce.</p>	<p>Existing path of large stones does not meet ADA compliance. Laurel Street is a major campus sidewalk edge and this sidewalk not being in ADA compliance means wheelchair users have to go all the way around to the west into the alley to enter the ADA entrances of both Spruce and Routt. Some Occupational Therapy programs for people with disabilities are moving into Spruce Hall in Jan. 2020.</p>	    		\$77,200.00	\$249,085.00

Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
11	Intersection of Old Main Drive and alley west of Spruce Hall	Rebuild 3 existing receiving ramps at intersection of Spruce alley and Old Main. Build new receiving ramp at northwest side of Spruce Alley and Old Main.	Existing ramps are too steep and too narrow. No truncated domes. Lack of ramp on nw corner means people are having to cross the street at a diagonal.		3 ramps to be rebuilt. 1 new radial ramp on northwest corner.	\$22,500.00	\$271,585.00
Missing ramps & sidewalks							
12	Missing sidewalk connection between Ammons and Oval Drive.	Create sidewalk that hooks into the existing sidewalk, put it at the curb and rebuild the ramp. Adjust irrigation.	This is a dangerous because it makes you go into the road just to turn the corner to go to the adjacent Ammons Building (Admissions). This is a heavily traveled sidewalk as it connects people coming into campus from Howes Dr to Admissions and across the street to the Student Disability Center in the TILT building.		NA	\$22,300.00	\$293,885.00
13	West side of Howes Drive approaching the Oval, east of Danforth.	Build new, gracious ramp system - this is the historic entry to campus. Will need to include retaining walls and a radial ramp to intersection of Oval Drive.	Howes Drive is steep - dangerous issue for wheelchair users on both sides. East side has less slope, more space for a ramp. This is a heavily used pedestrian sidewalk entrance to campus as many students live in the neighborhoods north of this entrance. This also the route to the Admissions Building and to the Student Disability Center in the TILT Building.		NA	\$65,000.00	\$358,885.00

Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
							
14	On east side of Meridian Ave. across from the Rec. Center near climbing wall	Need curb cut ramp near fire hydrant	<p>Curb cut exists on Meridian at the Rec Center but not across the street - forcing people in a wheelchair to go into the street along Meridian for a considerable distance. Many pedestrians cross to/from the Rec Center towards the east across Meridian to the Lory Student Center, the Lagoon and concert/event area and towards the major academic portion of campus.</p>		1 ramp	\$3,500.00	\$362,385.00

Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
QUADRANT 2: SOUTHEAST CAMPUS							
Deficient existing ramps and sidewalks							
15	Edison & East Drive - northeast corner	Replace ramp and add truncated dome surfaces.	ADA ramp at NE corner does not meet ADA compliance. Ramp is too steep		1 ramp	\$3,500.00	\$365,885.00
16	Physiology Building - northwest building entry.	Widen exterior concrete slab at this entrance. Adjust irrigation.	People in wheelchairs don't have enough space to get out of the way if someone is coming out of the building as they are going in (and vice versa)		40 SF (and irrigation adjustments)	\$520.00	\$366,405.00
17	Northeast side of Gifford	Remove cracked asphalt sidewalk and replace as a concrete sidewalk	Asphalt path is severally cracked and continually needs repaving		1110 SF (and irrigation adjustments)	\$12,210.00	\$385,635.00

Project #	Location	Action Item	Concern	Photo of area	SF area (where applicable)	Estimated TOTAL COSTS (Includes Design, Engineering fees and Contingency)	Cumulative Cost
COMPLETED ITEMS							
NA	Bikeway between Visual Arts and Chemistry, just south of Pitkin	Fix concrete that is very cracked		Completed Mar. 2019	NA	NA	NA
NA	North of Gifford in alley way	Need separation between pedestrians and bikes		Completed Fall 2019 with Richardson Design Center	NA	NA	NA
NA					NA	NA	NA
NA	Animal Sciences Building Parking Lot	Need crosswalk at Pitkin into and out of parking lot.		Completed Spring 2019 (as part of Animal Sciences Addition)	NA	NA	NA
NA	Northeast side of Gifford	Parking spaces for ADA parking need to be deeper, shift some to the south for more room			NA	NA	NA
NA	Yates Underpass	Subsided pavers creating wheelchair tipping over hazard.		Completed Fall 2018 (With A-Z project)	NA	NA	NA
NA	South of Visual Arts and the unnamed alley, across from the north side parking	Redo curb cut	Curb cut is steep and not smooth	\$5,000.00	NA	NA	NA
NA	Pitkin between Visual Arts and Lot 470	The Stadium project needs to clean out the inlet, so the water can drain	Wheelchairs have to go through the gunk in the gutter or navigate around by going in the street	Completed - Fall 2017	NA	NA	NA
NA	Various locations across Main Campus	21 pedestrian ramps at intersections replaced.	Ramps did not meet ADA compliance.	Completed Summer 2017	NA	NA	NA
NA	Various locations across Main Campus	Almost 15,000 SF of sidewalk replacement or addition.	Sidewalks were too narrow, in poor condition, or did not exist where pedestrian access was needed	Completed Summer 2017	NA	NA	NA



STATE OF COLORADO
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FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Libby Coy Way Domestic Water Line Replacement	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:	<i>J. B. Battenby</i>	(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	6	(2) Revision Date:
F	(1) Total Project Cost:	\$504,134	(2) Cost of Current Year: \$504,134

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status
2015-103M14	Replace deteriorated domestic water line-Oval Drive	761,381	Jan 2017
2020-070M19	Replace deteriorated domestic water line-University Ave.	537,676	Construction

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

Replace approximately 700 lf of 4" cast iron water line dating from the 1940's. Line is well beyond useful life and is undersized for current need. The original lining has eroded away and shows significant tuberculation growth, reducing both water quality and line capacity. Line is routinely flushed to maintain acceptable water quality.

2) Description of CM Solution, by Phase:

Replace existing domestic water line and upsize to 8" to improve fire protection flows for this area of campus.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

Water line breakage will shut down 2 buildings until repairs are made. One of the buildings is the Plant Growth Facilities, with active plant research projects requiring large amounts of water. That research would be jeopardized. Fire flow to the Federal Seed Storage lab would also be compromised. Drinking water quality will continue to deteriorate, requiring more frequent flushing of the system in order to meet regulations.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

CSU has not assigned an FCI to this infrastructure system, however the new line will improve water quality, reliability, pressure and fire flows to this area of campus.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

No energy consuming systems are affected.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information:
Explain method of establishing cost estimate, and Date of the Cost Estimate: : In-house cost estimate from Utility engineering dated 6/2019.
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortensen and Turner Cost reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	504,134

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
(Subtotal)			\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 504,134

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	Dec 2021
3) Construction (Insert Dates)	April 2022	Aug 2022
4) Project Close-out/Final Completion (Insert Dates)	Sept 2022	



STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

6/23/2020

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)

A	Project Title:	Libby Coy Way Domestic Water Line Replacement		
B	Agency/Institution:	Colorado State University - Ft Collins		
C	(1) Project Phase	1 of 1	(2) State Controller Project #	
D	Revision Date:			

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$29,100
3	Code Review/Inspection:			\$3,500
4	Other (Explain):			\$38,000
5	Inflation Percentage/dollar amount: (This Phase)			\$12,418
6	Total of Professional Services:			\$83,018

Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)

	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	8" cast iron water line	700 LF	\$395	\$276,500
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	(Specify)			\$0
12	(Specify)			\$0
13	Structure/Systems/Components			
14	(Specify)			\$0
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		8%	\$23,280
22	Contractor's Overhead & Profit:		7%	\$20,370
23	Inflation Percentage/Dollar Amount: (This Phase)		0%	\$55,136
24	Total of Construction Improvement Costs:			\$375,286

Miscellaneous Costs: (List Items)

25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0

Project Contingency

28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$45,830
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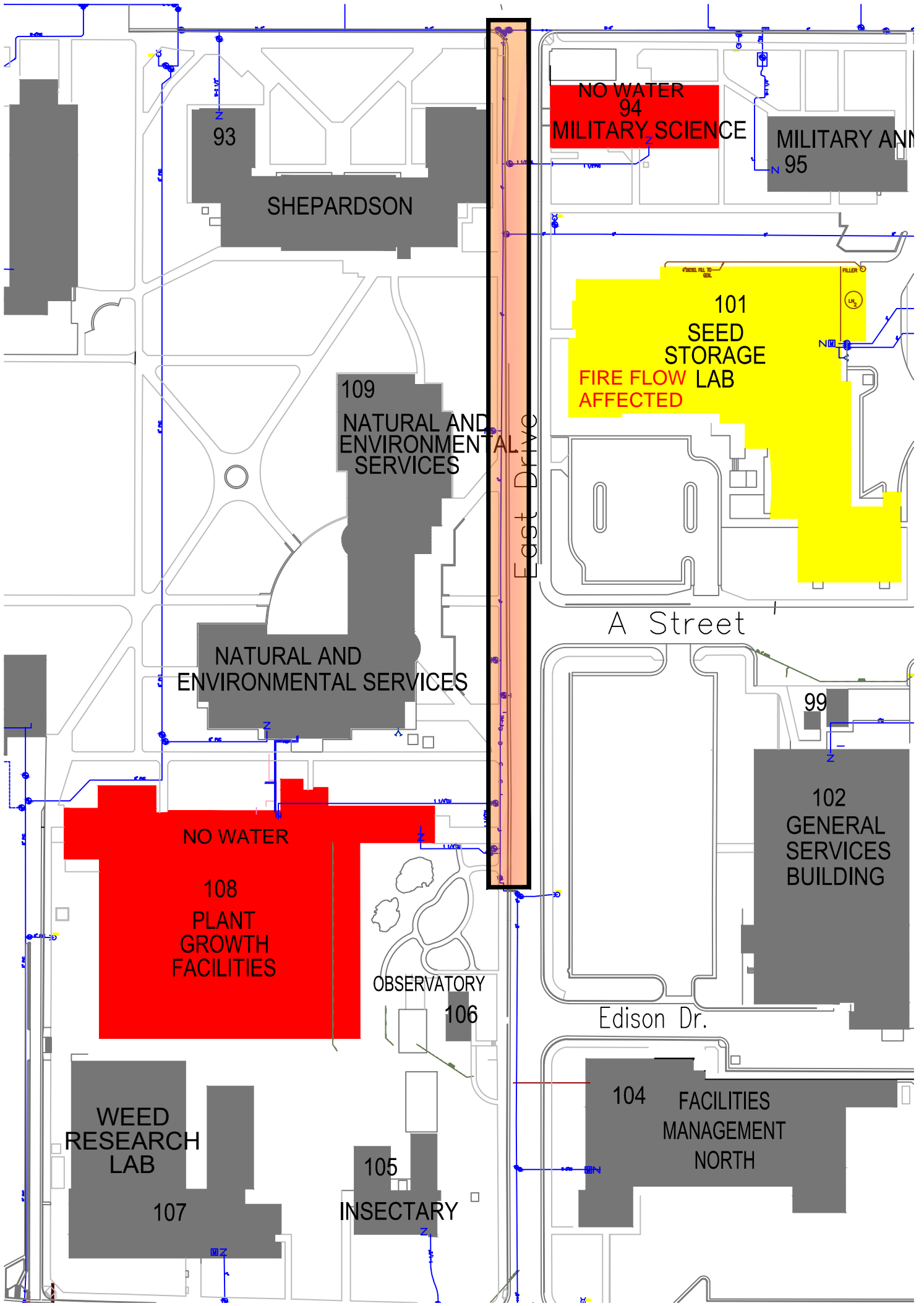
Cost of Current Phase

29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$504,134
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Project Summary

30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			700
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			\$720.19
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$504,134

Note: Agency or Contractor Cost Estimates shall accompany this page.



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SHEPARDSON

109

NATURAL AND ENVIRONMENTAL SERVICES

NATURAL AND ENVIRONMENTAL SERVICES

NO WATER

108
PLANT GROWTH FACILITIES

OBSERVATORY
106

WEED RESEARCH LAB
107

105
INSECTARY

NO WATER
94
MILITARY SCIENCE

MILITARY ANN
95

101
SEED STORAGE
FIRE FLOW LAB AFFECTED

East Drive

A Street

99

102
GENERAL SERVICES BUILDING

Edison Dr.

104
FACILITIES MANAGEMENT NORTH



STATE OF COLORADO
 DEPARTMENT OF PERSONNEL & ADMINISTRATION
 OFFICE OF THE STATE ARCHITECT

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Replace Sanitary Sewer C basin outfall	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:	<i>J. Satterly</i>	(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	7	(2) Revision Date:
F	(1) Total Project Cost:	\$517,012	(2) Cost of Current Year: \$517,012

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status
M07026	Sanitary sewer improvements-2 out of 3 phases funded	\$1,337,692	6-2012

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

Sanitary main and brick manholes dating from the 1920's at the end of its useful life. This is a central trunk serving approximately half of Main Campus. Recently completed survey and modeling results show that the line is currently at capacity.

2) Description of CM Solution, by Phase:

Replace approximately 600 linear feet of clay sanitary sewer line and brick manholes dating from the 1920's.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

Failure of this sanitary main will necessitate the closure of up to 50 buildings on Main Campus, including the Moby complex, residence halls, Lory Student Center, Morgan Library, and multiple research facilities.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

CSU has not assigned an FCI for this utility. The replacement of this final section of C basin sewer will improve overall condition and reliability of the system for this large section of campus.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

No energy consuming systems are affected.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information:
Explain method of establishing cost estimate, and Date of the Cost Estimate: In-house cost estimate from Utility engineering dated 6/2019.
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortensen and Turner Cost reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
			(Subtotal) \$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	517,012

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
			(Subtotal) \$

TOTAL PROJECT DOLLAR AMOUNT

\$ 517,012

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	Dec 2021
3) Construction (Insert Dates)	April 2022	Aug 2022
4) Project Close-out/Final Completion (Insert Dates)	Sept 2022	



STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

6/23/2020

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)

A	Project Title:	Sanitary Sewer Outfall at C-Basin		
B	Agency/Institution:	Colorado State University - Ft Collins		
C	(1) Project Phase	1 of 1	(2) State Controller Project #	
D	Revision Date:			

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$34,500
3	Code Review/Inspection:			\$8,000
4	Other (Explain):			\$35,800
5	Inflation Percentage/dollar amount: (This Phase)		0%	\$12,334
6	Total of Professional Services:			\$90,634

Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)				
	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	Sanitary sewer	600 LF	\$475	\$285,000
10	Infrastructure, Site Improvements:			
11	(Specify)			\$0
12	(Specify)			\$0
13	Structure/Systems/Components			
14	(Specify)			\$0
15	(Specify)			\$0
16	(Specify)			\$0
17	Other (Explain Below):			
18	(Specify)			\$0
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		0%	\$19,950
22	Contractor's Overhead & Profit:		0%	\$22,800
23	Inflation Percentage/Dollar Amount: (This Phase)		0%	\$51,627
24	Total of Construction Improvement Costs:			\$379,377

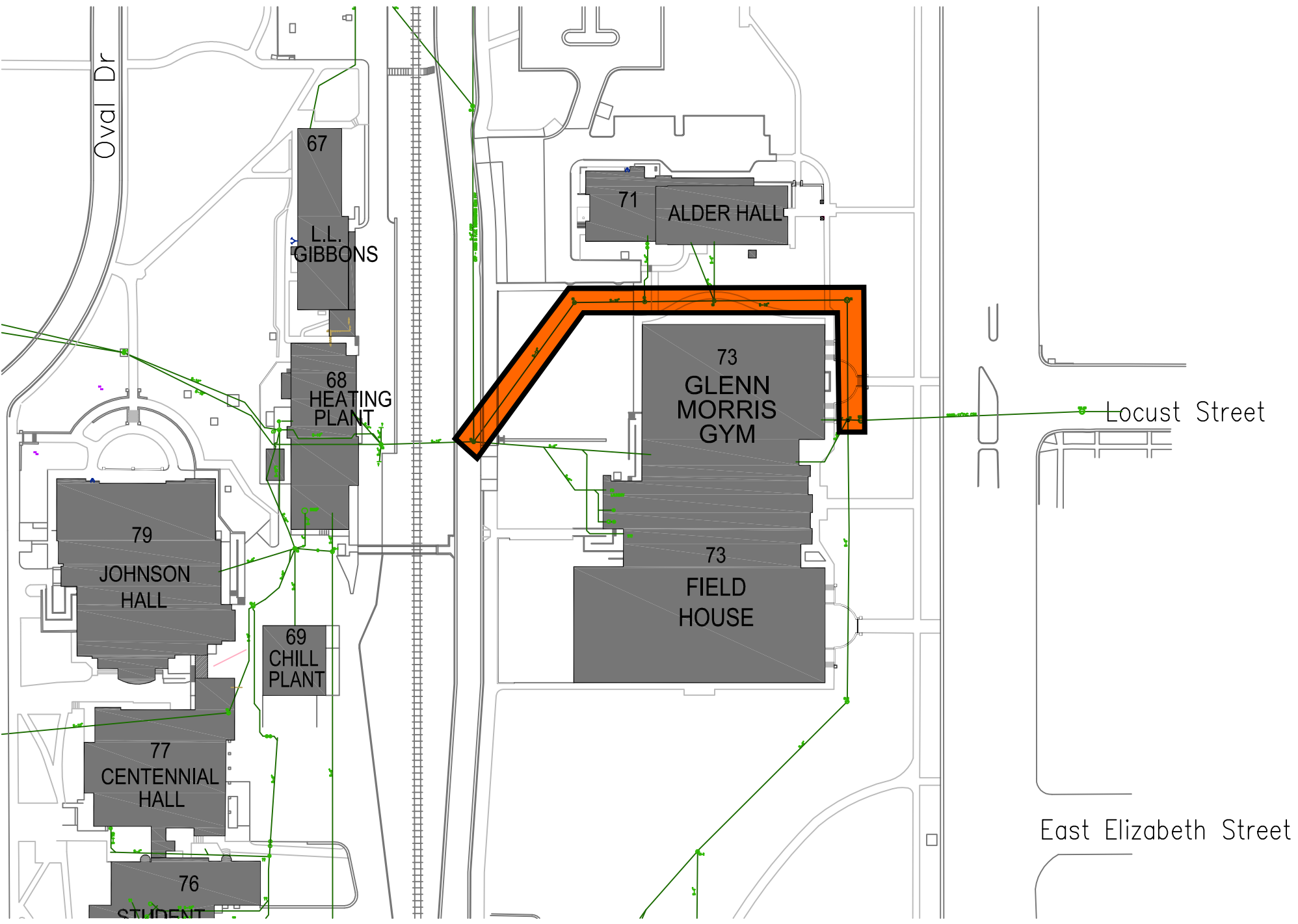
Miscellaneous Costs: (List Items)				
25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0

Project Contingency					
28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.				\$47,001

Cost of Current Phase					
29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)				\$517,012

Project Summary					
30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:				600
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:				\$861.69
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)				\$517,012

Note: Agency or Contractor Cost Estimates shall accompany this page.





STATE OF COLORADO
 DEPARTMENT OF PERSONNEL & ADMINISTRATION
 OFFICE OF THE STATE ARCHITECT

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	ARDEC Wells Rehabilitation	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> <small>JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)</small>	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:		(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	8	(2) Revision Date:
F	(1) Total Project Cost:	\$1,090,497	(2) Cost of Current Year: \$1,090,497

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status
2020-088M19	Replace ARDEC Farm Bridge	\$349,872	Construction

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

The Agricultural Research Development and Education Center (ARDEC) is composed of about 996 acres of cropland that is irrigated by well water. Each irrigation well is specifically decreed for both use and land on which the water can be used, with senior water rights that make them priceless. CSU moved to the site in 1993, reusing much of the existing farm infrastructure dating from the 1950-1960s. The irrigation well “parts” and infrastructure are 40-60 years old and in need of refurbishment to improve water flow and prevent complete failure. The following four projects have been identified as the top priorities:

Project 1: Lockman North Well AKA Stieben #2 (Well #68) and Distribution System

The well was first used in April 1955 with a yield of 550GPM. The well equipment is mostly original, with a depth of approximately 50 feet. This well empties into an open, concrete-lined distribution trench that runs along East County Road 58 and delivers water to individual fields for irrigation.

Project 2: ARDEC Pond Supply System

The pond located east of Interstate 25, north of East County Road 56, and just south of the Larimer County Ditch supplies water to a vast quantity of research on the ARDEC North site. Additionally, this pond is the source of the rural fire protection system serving the site and local community.

The pond is fed from a system of three wells, (Well #60, Well #61, and Well #63). There is also a diversion structure and lift station for supplying the pond using North Poudre Irrigation Company water. A 24" distribution pipe leaves the pond, supplying 89 acres of field irrigation. Moreng #3 (Well #60) was registered in 1959 with a flow rate of 800 GPM. The well equipment is approximately 27 years of age, with a depth of approximately 50 feet. Moreng #4 (Well #61) was registered in 1958 and re-drilled in 1982, 22 feet from the original well. The well equipment is approximately 35 years of age, with a depth of approximately 57 feet and a pumping rate of 830 GPM. Stroh-Ford #2 (Well #63) was registered in 1960 with a yield of 1250 GPM. The well equipment is approximately 40 years of age, with a depth of approximately 54 feet. Wells #60 and #63 are connected to the pond via an 8" supply pipe. Well #61 empties directly into the pond from the north.

Project 3: ARDEC South Well Supply System

Multiple fields on ARDEC South are served by a piping distribution system supplied by a pair of wells, both first used in 1945. West Well (Well #3) was registered in 1960 with a yield of 1,100 GPM. The well equipment is approximately 40 years of age, with a depth of approximately 33 feet. East Well (Well #5) was registered in 1960 with a yield of 600 GPM. The well equipment is approximately 40 years of age, with a depth of approximately 35 feet.

Project 4: Stroh Pivot Supply System

The large pivot irrigation system serving the fields on the east side of ARDEC North is supplied by Moreng #1 (Well #58). Moreng #1 was registered in 1959 with a yield of 1250 GPM. The well equipment is approximately 35 years of age, with a depth of approximately 45 feet.

2) Description of CM Solution, by Phase:

Project 1: Lockman North Well AKA Stieben #2 (Well #68) and Distribution System

Scope of work includes:

- Removal of existing pump house.
- Replacement of existing well casing and lining, pump, motor, electric feed from disconnect, fracture well to regenerate water flow and piping to concrete distribution ditch.
- Replacement of selected sections of concrete ditch.
- Rebedding of selected sections of concrete ditch.

Project 2: ARDEC Pond Supply System

Scope of work includes:

- Well #61, replacement of existing well casing and lining, pump, motor, electric feed and electrical gear, fracture well to regenerate water flow.
- Well #63, replacement of existing well casing and lining, pump, motor, electric feed and electrical gear, fracture well to regenerate water flow.
- Installation of new supply piping from Well #61.
- Replacement of 8" PVC well supply piping from Well #63 to pond.
- Replacement of 2 existing isolation valves on the supply piping.
- Installation of approximately 6 new isolation valves on the supply piping.
- Replacement of ditch water lift station.
- Cleaning of pond.
- Evaluation and patching of pond liner.
- Replacement of existing installation of secondary 24" system supply valve.

Project 3: ARDEC South Well Supply System

Scope of work includes:

- Removal of existing pump houses.
- Well #3, replacement of existing well casing and lining, pump, motor, electric feed and electrical gear, fracture well to regenerate water flow.
- Well #5, replacement of existing well casing and lining, pump, motor, electric feed and electrical gear, fracture well to regenerate water flow.
- Replacement of PVC distribution piping.
- Installation of new isolation valves on the distribution piping.

Project 4: Stroh Pivot Supply System

Scope of work includes:

- Removal of existing pump house
- Well #58, replacement of existing well casing and lining, pump, motor, electric feed and electrical gear, fracture well to regenerate flow.
- Replacement of PVC distribution piping.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

ARDEC supports academic programs and research related to soil, crop, horticulture, entomology, plant pathology, weed science, water, and animal sciences. There are currently 51 active research projects on the site and failure of any well would be catastrophic to academic programs and research. Due to the nature and uniqueness of the decrees, wells cannot back each other up. If any one of these wells is allowed to fail completely the only option to continue to use the water right is to "renew in place", which means drilling a new well within 200-300 feet of the failed well. This is much more costly than refurbishment, but CSU would risk losing the water rights if well water was not in continuous use. One of the wells feeds the fire suppression pond, which provides water to multiple hydrants for fire protection on the site.

The potential losses from a well failure include: loss of use, loss of multi-year research, loss of water rights, loss of fire protection and loss of agricultural jobs. For example, loss of the rotational seed wheat would severely impact the certified foundation seed availability needed by farmers throughout the region, causing a major loss of revenues for that program and stakeholders. The Conservation Tillage project currently underway is multi-year study and a shutdown would impact research that has been contracted by multiple funding agencies.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

CSU has not assigned an FCI to this infrastructure, however the intent of this project is to bring the wells back to full operational potential. CSU recently refurbished a well at ARDEC and saw flows increase from nearly 0 to 800gpm. We expect the refurbished wells to function for another 40-60 years.

7) [Life Cycle Cost Analysis \(LCCA\) Worksheet](#) - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

No energy consuming systems affected.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information: 170727AARDEC, CM, Wells and Irrigation

Explain method of establishing cost estimate, and Date of the Cost Estimate: In-house budget estimate from Remodel and Construction

Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortenson and Turner Construction Cost reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	1,090,497

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		

	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
			(Subtotal) \$

TOTAL PROJECT DOLLAR AMOUNT

\$ 1,090,497

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	7/2021	9/2021
3) Construction (Insert Dates)	10/2021	5/2022
4) Project Close-out/Final Completion (Insert Dates)	6/2022	



STATE OF COLORADO
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OFFICE OF THE STATE ARCHITECT

6/23/2020

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)

A	Project Title:	ARDEC Wells Rehabilitation		
B	Agency/Institution:	Colorado State University - Ft Collins		
C	(1) Project Phase	1 of 1	(2) State Controller Project #	
D	Revision Date:			

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$53,330
3	Code Review/Inspection:			\$2,372
4	Other (Explain):			\$55,510
5	Inflation Percentage/dollar amount: (This Phase)		0%	\$28,286
6	Total of Professional Services:			\$139,498

Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)

	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	ARDEC Pond Supply system			\$305,567
12	ARDEC South Well Supply system			\$119,247
13	Structure/Systems/Components			
14	Lockman North Well and Distribution			\$68,638
15	Moreng #1			\$83,810
16	(Specify)			
17	Other (Explain Below):			
18	(Specify)			
19	(Specify)			
20	Prevailing Wages			\$0
21	Contractor's General Conditions:			\$47,539
22	Contractor's Overhead & Profit:			\$54,330
23	Inflation Percentage/Dollar Amount: (This Phase)			\$172,733
24	Total of Construction Improvement Costs:			\$851,863

Miscellaneous Costs: (List Items)

25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0

Project Contingency

28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$99,136
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Cost of Current Phase

29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$1,090,497
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Project Summary

30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$1,090,497

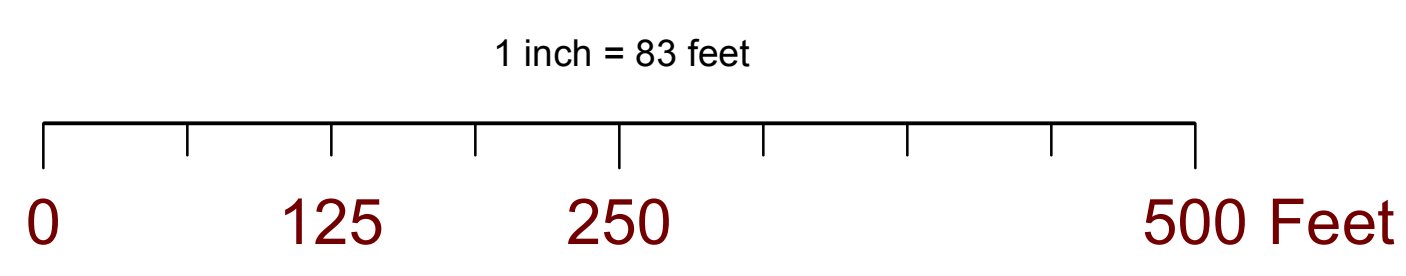
Note: Agency or Contractor Cost Estimates shall accompany this page.

ARDEC South Reference Map 2017 (Revised 01/17/2017)



Legend

	HRFC_Border		Bush
	Other_Roads		Fuel Tank
	Roads_poly		Tree



NAD_1983_StatePlane_Colorado
 Projection: Lambert_Conformal_Conic
 Linear Unit: Foot_US
 Geographic Coordinate System: GCS_North_American_1983
 Image Date: November 2009 by Digital Globe

Last Revision: 12/01/2015



STATE OF COLORADO
 DEPARTMENT OF PERSONNEL & ADMINISTRATION
 OFFICE OF THE STATE ARCHITECT

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST - NARRATIVE (CM-N)			
A	(1) Project Title:	Exterior Lighting LED upgrade	
B	(1) Agency/Institution Name:	Colorado State University Fort Collins	(2) Project Phase (Phase_of_): 1 of 1
C	(1) OSA Delegate Signature:	<u>JONATHANMIKE RUSH</u> JONATHANMIKE RUSH (Jul 2, 2020 12:44 MDT)	(2) State Controller Project #: (if continuation):
D	(1) Agency/Institution Signature Approval:	<i>J. Satterly</i>	(2) Date: 07/02/20
E	(1) Agency/Institution Priority Number:	9	(2) Revision Date:
F	(1) Total Project Cost:	\$580,152	(2) Cost of Current Year: \$580,152

A. PROJECT - BUILDING and INFRASTRUCTURE PROFILE:

1) Building – vs – Site: Building(s) Site (Utilities underground) Site (Improvements above ground)

2) Building Information:

a) Building Name	b) DPA Risk Management or IHE. Building ID#	c) Gross Square Feet (GSF)	d) Current Replacement Value (CRV)	e) Reported FCI	f) Projected FCI

3) Facility Status - Check appropriate boxes:

- a) Facility 'useful' life is more than five (5) years.
- b) Major facility changes, renovations, or program revisions are ongoing or anticipated in the next five years. If yes, please explain in the Project Request Information section below if these facility renovations or program revisions may have an impact on this CM request.

4) History of Appropriated Projects funded with controlled maintenance, capital renewal, capital construction, emergency CM repairs, or cash funds completed within the last fifteen (15) years, operational funds expended in the last five (5) years, or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.	Project Title	Project Cost \$	Completion date or status

B. PROJECT REQUEST INFORMATION:

1) Description of CM Problem:

Existing metal halide exterior light fixtures provide poor light quality, compromising safety and security in academic areas of campus at night. They also use significantly more energy than LED fixtures.

2) Description of CM Solution, by Phase:

This project will upgrade existing pole mounted metal halide exterior light fixtures with LEDs. The project does not include any residential areas of campus. LEDs are being installed to provide improved light quality, resulting in improved safety and security at night. In addition, energy use will be cut by 40-60%.

3) Consequences (cost effects, program impacts, facility impacts, etc.) of not funding and justifying this specific project request:

CSU has committed to energy efficiency and has already replaced mercury vapor lamps with LEDs. Metal halide lamps are the final exterior fixture type to be replaced. Without replacement we will not improve safety/security and will not see reduced energy use.

- 4) Facility Condition Audit (Mandatory) - Include documentation from most recent building condition audit or infrastructure assessment.
- 5) Supporting Documents (Mandatory) - Include site maps for any infrastructure project request. Include photographs, drawing, and any other supporting documents – AS SEPARATE DOCUMENTS (files).
- 6) Impact on FCI or infrastructure. Explanation of how this project will improve the building(s) facility condition index (FCI) or improve a specific infrastructure system. Provide new FCI achieved after completion of the project.

CSU has not assigned an FCI to this utility, however this project will upgrade existing exterior light fixtures to provide better light quality, improved energy efficiency and extended life.

7) Life Cycle Cost Analysis (LCCA) Worksheet - Explain the alternatives reviewed to determine the least costly total life time cost of the proposed solution. Attach CM LCCA Worksheet.

LEDs are being installed to provide improved light quality, resulting in improved safety and security at night. In addition, energy use will be cut by 40-60%.

C. DETAILED COST ESTIMATE:

(Provide details by funding phase on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet, one phase per tab, include all funding phases)

File name of spreadsheet with the Cost Estimate Information: 2017 Site Lighting Estimate without residential areas
Explain method of establishing cost estimate, and Date of the Cost Estimate: CSU Electrical Engineer estimate, dated 7/26/17
Provide justification for the inflation value as indicated on the Controlled Maintenance Project Request-Cost Summary (CM-CS) spreadsheet for each funding phase: Average of Mortenson and Turner Construction Cost Reports

D. PROJECT PHASING COST INFORMATION (from CM Cost Summary CM-CS form):

PRIOR FUNDED PHASES¹

Project Number:	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	FY 2020/2021		
(Subtotal)			\$

COST OF CURRENT PHASE²

Project Number:	Fiscal Year	Phase of Work	Cost of Current Phase (Per CM-CS)
	FY 2021/2022	1 of 1	580,152

FUTURE PHASE(S) FUNDING³

Project Number:	Fiscal Year	Phase or Phases of Work	Project (Phase) Total Cost (Per CM-CS)
	FY 2022/2023		
	FY 2023/2024		
	FY 2024/2025		
	FY 2025/2026		
(Subtotal)			\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 580,152

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous funded phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List cost of current phase estimated from the CM Cost Summary (CM-CS).

³ List all planned future phases with estimated costs as indicated in the CM Cost Summary (CM-CS).

E. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	Start Date	Completion Date
1) Pre-Design (Insert Dates)		
2) Design (Insert Dates)	July 2021	Sept 2021
3) Construction (Insert Dates)	Oct 2021	March 2022
4) Project Close-out/Final Completion (Insert Dates)	March 2022	April 2022



STATE OF COLORADO
DEPARTMENT OF PERSONNEL & ADMINISTRATION
OFFICE OF THE STATE ARCHITECT

6/23/2020

FY 2021-22 CONTROLLED MAINTENANCE PROJECT REQUEST- COST SUMMARY (CM-CS)			
A	Project Title:	Exterior Lighting LED upgrade	
B	Agency/Institution:	Colorado State University - Ft Collins	
C	(1) Project Phase	1 of 1	(2) State Controller Project #
D	Revision Date:	Date	

Professional Services				Cost (\$)
1	Site Surveys, Investigations, and Reports:			
2	Arch/Eng/Basic Services:			\$6,073
3	Code Review/Inspection:			\$4,500
4	Other (Explain):			\$15,181
5	Inflation Percentage/dollar amount: (This Phase)		0%	\$6,550
6	Total of Professional Services:			\$32,304
Construction Improvement (by CSI Division format), (insert additional rows as necessary) (attached updated detailed cost estimate)				
	WORK ITEM (Labor/Material/Equipment)	QUANTITY (sf, cf, lf, etc.)	UNIT COST (\$/unit)	EXTENDED COST (\$)
7	Infrastructure, Utility Services:			
8	(Specify)			\$0
9	(Specify)			\$0
10	Infrastructure, Site Improvements:			
11	(Specify)			\$0
12	(Specify)			\$0
13	Structure/Systems/Components			
14	Structure/Systems/Components			
15	Post Top	205	\$640	\$131,200
16	Cobrahead	12	\$850	\$10,200
17	SAR	79	\$721	\$56,959
18	AR	103	\$1,022	\$105,266
19	(Specify)			\$0
20	Prevailing Wages			
21	Contractor's General Conditions:		0%	\$45,544
22	Contractor's Overhead & Profit:		0%	\$45,544
23	Inflation Percentage/Dollar Amount: (This Phase)		0%	\$100,394
24	Total of Construction Improvement Costs:			\$495,107
Miscellaneous Costs: (List Items)				
25	(Specify)			
26	(Specify)			
27	Total of Miscellaneous Costs			\$0
Project Contingency				
28	Calculate contingency percentage for total of professional services, construction improvements, and miscellaneous costs at 10%.			\$52,741
Cost of Current Phase				
29	Total cost of the Project (or this phase if multi-phased project) = all professional services, construction improvements, miscellaneous costs, and contingency. (Copy this amount to OSA-CMPRN, Section D, Project Phasing Cost Information tables, per Fiscal Year)			\$580,152
Project Summary				
30	Total square feet/lineal feet of CONSTRUCTION IMPROVEMENT area:			
31	Overall cost per square foot/lineal foot of CONSTRUCTION IMPROVEMENT area:			
32	TOTAL PROJECT COSTS for All PHASES (Updated automatically)			\$580,152

Note: Agency or Contractor Cost Estimates shall accompany this page.



Metal Halide light replacement

Metal Halide light replacement

Metal Halide light replacement

Metal Halide light replacement

Metal Halide light replacement

Metal Halide light replacement

Metal Halide light replacement

MAIN CAMPUS SITE LIGHTING NON-RESIDENTIAL - CONVERT TO LED

Head Type	Metal Halide	Mercury Vapor	Material Cost (\$)	Instalation Time (hr)	Labor Cost/hr (\$/hr)	Total Labor Cost (\$)	Total Cost Per Replacement (\$)
Post Top	187	18	\$400.00	4.00	\$60.00	\$240.00	\$640.00
Cobrahead	8	4	\$550.00	5.00	\$60.00	\$300.00	\$850.00
SAR	79	0	\$481.00	4.00	\$60.00	\$240.00	\$721.00
AR	103	0	\$782.00	4.00	\$60.00	\$240.00	\$1,022.00
Total	377	22					
					Head Type	Cost to Replace All Metal Halide (\$)	Cost to Replace All Mercury Vapor (\$)
					Post Top	\$119,680.00	\$11,520.00
					Cobrahead	\$6,800.00	\$3,400.00
					SAR	\$56,959.00	\$0.00
					AR	\$105,266.00	\$0.00
					Total For All	\$288,705.00	\$14,920.00
					Material and Labor Total		\$303,625.00
						Overhead and Profit	\$45,543.75
						Markup	\$45,543.75
						Design Fee	\$6,072.50
						Project Management Fee	\$15,181.25
					Total		\$415,966.25