



UCSUI.9/8/2015-16

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FY 2015-2016

INTENANCE





Official Document

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#### OFFICE OF THE STATE ARCHITECT AGENCY CONTROLLED MAINTENANCE SUBMITTAL/TRANSMITTAL STATE BUILDINGS PROGRAMS

То:	Rod Vanderwall
From:	CSU Fort Collins
Name:	Shelly Carroll
Phone No:	970-491-0167
Email address:	Shelly.carroll@colostate.edu

Form Number a	nd Name. (Electronic version required)	Required / Optional	Submitted Yes or N/A
SBP CM-1	Controlled Maintenance Request Summary	Required	Х
SBP CM-2	Five-Year Controlled Maintenance Program Plan	Required	Х
SBP CM-2.1	Agency Asset Management Maintenance Strategy	Required	Х
SBP CM-3	Controlled Maintenance Project Request(s)	If applicable	Х
SBP CM-4	Controlled Maintenance Project Status Report	Required	X
SBP CC-1	Capital Construction Project Status Report	Required	Х
SBP CM-5	Agency's Building Inventory Report	Required	Х
SBP CM-6	Vacant Facility Management Plan(s)	If applicable	X
EMP EPC-1	Energy Performance Contract Report	If applicable	
EMP HPCP-1	High Performance Certification Program	If applicable	Х
	Agency's Code Compliance Action Plan	Required	Х
	Pictures in either JPEG or TIFF format	If applicable	Х
	Drawings in either JPEG, TIFF, or PDF format	If applicable	×

#### AGENCY APPROVAL

Printed (typed) Name Authorized Signature

Mike Rush

3800

Date

				Agency Priority # AP	Operational Criteria x OC	Criticality Index x Cl	Projec Score = PS
4) Project M#	4) Agency ID NO.	5) PROJECT TITLE and PHASE	6) PROJ. ESTIMATE \$	7) Nos. 1-5	8) Nos. 1-3	9)	10)
2015- 073M14	1-2016	Replace Obsolete Fire Alarms Phase 2_of 2_					
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,745,136 \$753,948 \$ 991,188 \$0	1	1		
	2-2016	Replace deteriorated domestic water lines, Main Campus Phase <u>1</u> of <u>1</u>			. 1		
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 761,381 \$ 0 \$ 761,381 \$ 0	1	1		
	3-2016	Painter Center West Roof Replacement Phase <u>1</u> of <u>1</u>					
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 157,351 \$ 0 \$ 157,351 \$ 0	1	1		
	4-2016	Chemistry HVAC Upgrade Phase <u>1</u> of <u>1</u>					
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 800,703 \$ 0 \$ 800,703 \$ 0	1	1		
	5-2016	Shepardson Steam Heating Replacement Phase <u>1</u> of <u>1</u>		ſ			
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 917,911 \$ 0 \$ 917,911 \$ 0	1	1		
	6-2016	Moby Arena HVAC upgrade Phase <u>1</u> of <u>3</u>					
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,992,774 \$ 0 \$ 996,388 \$ 996,386	1	2		

7-2016	Engineering Building A and B Wing Roof Replacement Phase <u>1</u> of <u>1</u>					
-	Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 555,580 \$ 0 \$ 555,580 \$ 0	1	2	•	
8-2016	Replace deteriorated storm water lines, Main Campus Phase <u>1</u> of <u>1</u>					
	Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 1,017,178 \$ 0 \$ 1,017,178 \$ 0	1	1		
9-2016	Replace obsolete Building Automation Control System Phase <u>1</u> of <u>1</u>			· ·		
	Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,020,133 \$ 0 \$ 1,020,133 \$	1	2		
10-2016	Underground electric service, Foothills Campus Phase <u>1</u> of <u>1</u>					
	Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 991,928 \$ 0 \$ 991,928 \$ 0	1	2		

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#### OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2015/201

#### OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2015/2016 STATE BUILDINGS PROGRAMS

, Agency 3) Date	CSU Fort 9/4/2014		Department <u>Hi</u>		to and material		
0) Date	0/1/2014			Agency Priority # AP	Operational Criteria x OC	Criticality Index x CI	Project Score = PS
4) Project M#	4) Agency ID NO.	5) PROJECT TITLE and PHASE	6) PROJ. ESTIMATE \$	7) Nos. 1-5	8) Nos. 1-3	9)	10)
2015- 073M14	1-2016	Replace Obsolete Fire Alarms Phase <u>2</u> of <u>2</u>					
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,745,136 \$753,948 \$ 991,188 \$0	1		ý	
	2-2016	Replace deteriorated domestic water lines, Main Campus Phase <u>1</u> of <u>1</u>	,	M	1		
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 761,381 \$ 0 \$ 761,381 \$ 0	10)	alland	CP	5
	3-2016	Painter Center West Roof Replacement Phase <u>1</u> of <u>1</u>	and i	tom	by the	Phas	EO
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 157,351 \$ 0 \$ 157,351 \$ 0			Per	
	4-2016	Chemistry HVAC Upgrade Phase 1_of 1_	A 000 700			N	
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 800,703 \$ 0 \$ 800,703 \$ 0	1			
	5-2016	Shepardson Steam Heating Replacement Phase <u>1</u> of <u>1</u>					
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 917,911	1	1		
	6-2016	Moby Arena HVAC upgrade Phase <u>1</u> of <u>1</u>					
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 0 \$ 1,992,774	1	2		

OFFICE OF THE STATE ARCHITECT	
CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2015/2016	
STATE BUILDINGS PROGRAMS	

7-2016	Engineering Building A and B Wing Roof Replacement Phase <u>1</u> of <u>1</u>				
	Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 555,580 \$ 0 \$ 555,580 \$ 0	1	2	
8-2016	Replace deteriorated storm water lines, Main Campus Phase <u>1</u> of <u>1</u>	•			
	Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,017,178 \$ 0 \$ 1,017,178 \$ 0	1	1	
9-2016	Replace obsolete Building Automation Control System Phase <u>1</u> of <u>1</u>				
	Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 1,020,133 \$ 0 \$ 1,020,133 \$	1	2	
10-2016	Underground electric service, Foothills Campus Phase <u>1</u> of <u>1</u>		- parts		
	Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 991,928 \$ 0 \$ 991,928 \$ 0	1	2	
	<sup>A</sup> Current-Year Request TOTAL \$	\$ 9,206,127			

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#### OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2015/2016 STATE BUILDINGS PROGRAMS

3) Date	CSU Fort Collins 2) Department Higher Ed										
U) Date	01712017			Agency Priority # AP	Operational Criteria x OC	Criticality Index x Cl	Projec Score = PS				
4) Project M#	4) Agency ID NO.	5) PROJECT TITLE and PHASE	6) PROJ. ESTIMATE \$	7) Nos. 1-5	8) Nos. 1-3	9)	10)				
2015- 073M14	1-2016	Replace Obsolete Fire Alarms Phase 2_of 2_									
		Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,745,136 \$753,948 \$ 991,188 \$0	1º	1						
	2-2016	Replace deteriorated domestic water lines, Main Campus Phase <u>1</u> of <u>1</u>	GY	A A	1						
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance	\$ 778,893 \$ 0 \$ 778,893 \$ 0	Rond	4						
	3-2016	Painter Center West Roof Replacement Phase <u>1</u> of <u>1</u> Total Project Cost:	\$ 157,351	1	1						
		Prior Appropriation: Current Year Request: Project Balance:	\$ 0 \$ 157,351 \$ 0								
	4-2016	Chemistry HVAC Upgrade Phase <u>1</u> of <u>1</u> Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 819,119 \$ 0 \$ 819,119 \$ 0	1	1						
	5-2016	Shepardson Steam Heating Replacement Phase <u>1</u> of <u>1</u>	\$ 917,911	1	1						
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 0 \$ 917,911								
	6-2016	Moby Arena HVAC upgrade Phase <u>1</u> of <u>1</u>									
		Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 0 \$ 1,992,774	1	2						

	INTENANCE REQUEST SUMM	ARY FY 2015	2016		
7-2016	S PROGRAMS Engineering Building A and B Wing Roof Replacement Phase <u>1</u> of <u>1</u>				
	Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 555,580 \$ 0 \$ 555,580 \$ 0	1	2	
8-2016	Replace deteriorated storm water lines, Main Campus Phase <u>1</u> of <u>1</u>				
	Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,017,178 \$ 0 \$ 1,017,178 \$ 0	1	1	
9-2016	Replace obsolete Building Automation Control System Phase <u>1</u> of <u>1</u>	1		1997 	
	Total Project Cost: Prior Appropriation: <b>Current Year Request:</b> Project Balance:	\$ 1,020,133 \$ 0 \$ 1,020,133 \$	1	2	
10-2016	Underground electric service, Foothills Campus Phase <u>1</u> of <u>1</u>				
	Total Project Cost: Prior Appropriation: Current Year Request: Project Balance:	\$ 991,928 \$ 0 \$ 991,928 \$ 0	1	2	
A	Current-Year Request TOTAL \$	\$ 9,242,055	Ale and		

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# **OFFICE OF THE STATE ARCHITECT**

SBP CM-1, Rev 5/14

(1)	(2)	(3)	(4)	(5)	)	(6)		(7)	(8)	(9)	(10)	(11) FY 19/20
	Project M#	CM	Project Title - Number of Phases	Total P	roject	Prior	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	FY 15/16	FY 16/17	FY 17/18	FY 18/19	
gency Priority	FIOJOCEIVIII	Category		Cos	st	Appropriatio	100 C	Budget	Budget	Budget	Budget	Budget
Number		Calegory				n	in the second second	Request	Request	Request	Request	Request
1	2015-076M14	FS	Replace Obsolete Fire Alarms phase 2	\$ 1,74	5,136	\$ 753,948	\$	991,188				
		Carles States	Replace deteriorated domestic water lines Main			E.S. Market		704 004				
1		1	Campus		1,381		\$	761,381				
1		RF	Painter Center West Roof replacement		57,351		\$	157,351				
1		HVAC	Chemistry HVAC upgrade	-	0,703		\$	800,703 917,911				
1	and the second	HVAC	Shepardson steam heating system replacement		2,774		\$	996,388	996386			
1		HVAC	Moby Arena HVAC upgrade	\$ 1,99	02,114		\$	990,000	550500			
Sale Sale		-	Engineering Building A & B Wings Roof	\$ 55	55,580		\$	555,580				
1		RF	Replacement Replace deteriorated Storm Water lines Main	\$ 00	5,500		-	000,000				
				\$ 1,01	17 178		\$	1,017,178				
1			Campus Replace obsolete Building Automation Control	φ 1,01	1,110		Ť					
		111/10	System	\$ 1.02	20.133		\$	1,020,133				
1		HVAC	Underground Electric Service-Foothills Campus	<b>\$</b> 1,0								
4			XCEL substation to west meter point	\$ 99	91,928		\$	991,928				
1		-	Underground Electric Service-Foothills Campus									
			west meter point to Engineering Research Center	\$ 1,12	25,276			A PARTY AND	1125276			100 M
			IDRC phase 1 (BHRB mechanical upgrade)	\$ 2,00					1000000	1000000	1000000	400000
			Rekey campus buildings-phase 1 of 4	\$ 4,00					1000000	1000000	1000000	100000
1			Sanitary Sewer upgrades-3 sections	\$ 2,00					750000	750000	500000	
			Flood protection in tunnels and heating plant	\$ 3,00			-		1500000	1500000		
			Moby B&C wings primary HVAC replacement	\$ 2,00			-		2000000			
1. 11 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	1.000		Fum McGraw primary HVAC replacement	\$ 2,00	00,000	and the second	-		2000000			
			Replace Deteriorated Lighting, Main Campus, 4								500000	50000
			Phases	\$ 2,00		\$0			500000	500000	500000	50000
			Chemistry Air Handler Replacements	\$ 2,00	00,000					1000000	1000000	1
			Repair/Replace Roofs, Various Buildings, 3 Phases	\$ 3,00	000 000	\$0				1000000	1000000	100000
			Replace Deteriorated Mechanical Systems,	\$ 0,00	00,000	4.	-				San States	
				C 201	00,000	\$0					1500000	15000
			Engineering Research Center, 2 Phases	\$ 3,0	00,000	, , ,	1-					
			Replace Deteriorated Mechanical Systems,	0.05	00 000	Ś				1500000	1000000	10000
			Anatomy Zoology, 3 Phases	\$ 3,5	00,000	51	-	,		1000000	1000000	10000
			Replace Deteriorated Mechanical Systems,							1500000	1000000	10000
			Microbiology, 3 Phases	\$ 3,5	00,000	\$(	0			1500000	1000000	10000
			Repair/Replace Deteriorated Roads and									10750
			Sidewalks, Main Campus, 1 Phase	\$ 1,2	75,600	\$1	0		The Man In the			12756
Constanting of the			Replace Deteriorated Mechanical Systems,			D. C. State						10000
			Painter, 1 Phase	\$ 3,5	500,000	\$1	0			1500000	1000000	10000
		-	Replace Deteriorated Mechanical Systems,									
			Physiology, 3 Phases	\$ 3,5	500,000	\$	0			1500000	1000000	10000
			Repairs to the Steam and Condensate Utility									
			Systems, 2 Phases	\$ 3.0	000,000	\$	0				1500000	15000
			Replace Deteriorated Mechanical Systems,			C. C. Sauth						
			Pathology, 2 Phases	\$ 2.0	000,000	Ś	0			Carlo Carlo	1000000	10000
			rationegy, 2 mases			+		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		The second second		
				12) Total	ls for ea	ch Fiscal Yea	ar	\$8,209,741	\$10,871,662	\$12,750,000	\$12,000,000	\$11,775,6
				17.1	1 - 6 11		-	\$FE 607 000	The subscription of the su			THE REAL PROPERTY OF
			(13) Gra	and Iotal	or the	Five Year Pla		\$55,607,003	Street Street Street			

SBP CM-2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Agency	Project M#	CM	Project Title - Number of Phases	Total Project	Prior	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20
Priority		Category		Cost	Appropriatio	Budget	Budget	Budget	Budget	Budget
Number				>	n	Request	Request	Request	Request	Request
1	2015-076M14	FS	Replace Obsolete Fire Alarms phase 2	\$ 1,745,136	\$ 753,948	\$ 991,188				
			Replace deteriorated domestic water lines Main							
1		1	Campus	\$ 761,381		\$ 761,381				
1		RF	Painter Center West Roof replacement	\$ 157,351		\$ 157,351				
1		HVAC	Chemistry HVAC upgrade	\$ 800,703	2	\$ 800,703		-		
1		HVAC	Shepardson steam heating system replacement	\$ 917,911	2-	\$ 917,911	/			
1		HVAC	Moby Arena HVAC upgrade	\$ 1,992,774	2	\$ 1,992,774	1			
			Engineering Building A & B Wings Roof	-			-			
1		RF	Replacement	\$ 555,580		\$ 555,580	3			
			Replace deteriorated Storm Water lines Main		-	0 1017 176	Sol			
1		1	Campus	\$ 1,017,178		\$ 1,017,178				
			Replace obsolete Building Automation Control		3		/			
1		HVAC	System	\$ 1,020,133		\$ 1,020,133	5			100
			Underground Electric Service-Foothills Campus		7		X	-		
1		1	XCEL substation to west meter point	\$ 991,928		\$ 991,928	Ca	-		
			Underground Electric Service-Foothills Campus	1 100070	-	A CONTRACTOR OF THE	1105070			
			west meter point to Engineering Research Center			<b>b</b>	1125276	1000000		
			IDRC phase 1 (BHRB mechanical upgrade)	\$ 2,000,000	,C		1000000	1000000	4000000	400000
			Rekey campus buildings-phase 1 of 4	\$ 4,000,000			1000000		1000000	100000
		12.33	Sanitary Sewer upgrades-3 sections	\$ 2,000,000		a	750000	750000	500000	
			Flood protection in tunnels and heating plant	\$ 3,000,000	1		1500000	1500000		
			Moby B&C wings primary HVAC replacement	\$ 2,000,000		100	2000000			
			Fum McGraw primary HVAC replacement	\$ 2,000,000	1 -	1, (	2000000			
			Replace Deteriorated Lighting, Main Campus, 4			XY	3			
			Phases	\$ 2,000,000	\$0		500000	500000	500000	50000
			Chemistry Air Handler Replacements	\$ 2,000,000		2	5	1000000	1000000	
			Pennin (Penlago Peofs Various Puildings 2 Phases	¢ 2000.000	\$0		$( \  \  )$	1000000	1000000	100000
			Repair/Replace Roofs, Various Buildings, 3 Phases Replace Deteriorated Mechanical Systems,	\$ 3,000,000			- 1	1000000	1000000	100000
				0 0000		()	112	-	1500000	150000
			Engineering Research Center, 2 Phases	\$ 3,000,000	\$(		FA		1500000	150000
			Replace Deteriorated Mechanical Systems,	1 -		110				
			Anatomy Zoology, 3 Phases	\$ 3,500,000	\$0		al and the	1500000	1000000	100000
			Replace Deteriorated Mechanical Systems,				alter of the second			
			Microbiology, 3 Phases	\$ 3,500,000	\$0			1500000	1000000	100000
1			Repair/Replace Deteriorated Roads and	a strength and set		1				
			Sidewalks, Main Campus, 1 Phase	\$ 1,275,600	Ś					127560
			Replace Deteriorated Mechanical Systems,	+ .,						
			Painter, 1 Phase	\$ 3,500,000	\$			1500000	1000000	100000
			Replace Deteriorated Mechanical Systems,	\$ 3,300,000	, ,			1300000	1000000	100000
				A 0 500 000	-		1	1500000	1000000	
			Physiology, 3 Phases	\$ 3,500,000	\$1	<u></u>		1500000	1000000	100000
			Repairs to the Steam and Condensate Utility							
			Systems, 2 Phases	\$ 3,000,000	\$1	0			1500000	15000
			Replace Deteriorated Mechanical Systems,							
			Pathology, 2 Phases	\$ 2,000,000	\$	D			1000000	10000
New York										
							1	/		
			(1	2) Totals for ea	ch Fiscal Yea	rl \$9,206,127	\$9.875.276	\$ \$12,750,000	\$12,000,000	\$11 775 6
			1.			+0,200,121		1.2,.00,000	\$12,000,000	¢11,710,0
				and the second state of th	the second s					

1 of 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) FY 18/19	(11) FY 19/20
gency	Project M#	CM	Project Title - Number of Phases	Total Proje		FY 15/16	FY 16/17	FY 17/18	Budget	Budget
Priority		Category		Cost	Appropriatio		Budget	Budget	•	Request
lumber					n	Request	Request	Request	Request	Request
1	2015-070M14	FS	Replace Obsolete Fire Alarms phase 2	\$ 1,745,13	6 \$ 753,948	\$ 991,188				
			Replace deteriorated domestic water lines Main	A 770 0		C 770 000				
1		1	Campus	\$ 778,8		\$ 778,893				
1		RF	Painter Center West Roof replacement	\$ 157,3		\$ 157,351 \$ 819,119		1		
1		HVAC	Chemistry HVAC upgrade	\$ 819,1		\$ 917,911				
1		HVAC	Shepardson steam heating system replacement	\$ 917,9		\$ 1,992,774				
1		HVAC	Moby Arena HVAC upgrade	\$ 1,992,7	4	\$ 1,332,114	-			
S. S. Star			Engineering Building A & B Wings Roof	\$ 555,5		\$ 555,580				
1		RF	Replacement	\$ 555,5	50	\$ 000,000	m			
			Replace deteriorated Storm Water lines Main	\$ 1,017,1	70	\$ 1,017,178	(1)			
1		1	Campus	φ 1,017,1	0	1,017,170	114	1		
			Replace obsolete Building Automation Control	\$ 1,020,1	23	\$ 1,020,133	1	$\mathcal{D}($		
1		HVAC	System Underground Electric Service Foothills Campus	φ 1,020,1		\$1,020,100		the		
			XCEL substation to west meter point	\$ 991,9	8	\$ 991,928	1			
1		1	Underground Electric Service-Foothills Campus	ψ 331,3		1001,024	5/1	11		
			west meter point to Engineering Research Center	\$ 1,125,2	76	I IF	1125276	11-		
			IDRC phase 1 (BHRB mechanical upgrade)	\$ 2,000,0			1000000	1000000		
			Rekey campus buildings-phase 1 of 4	\$ 4,000,0		1	1000000	1000000	1000000	1000
			Sanitary Sewer upgrades-3 sections	\$ 2,000,0			750000	750000	500000	
			Flood protection in tunnels and heating plant	\$ 3,000,0	20	1	1500000	1500000		
			Moby B&C wings primary HVAC replacement	\$ 2,000,0		1	2000000			
			Fum McGraw primary HVAC replacement	\$ 2,000,0			2000000			
			Replace Deteriorated Lighting, Main Campus, 4		- CAX					
			Phases	\$ 2,000,0	00 5	00	500000	500000	500000	500
			Chemistry Air Handler Replacements	\$ 2,000,0		12		1000000	1000000	Nigola I
						T		1000000	1000000	4000
			Repair/Replace Roofs, Various Buildings, 3 Phases	\$ 3,000,0	00 \$	0	1	1000000	1000000	1000
		1	Replace Deteriorated Mechanical Systems,	E BERNELSE		///			100000	100
			Engineering Research Center, 2 Phases	\$ 3,000,0	00 \$	0///			1500000	1500
			Replace Deteriorated Mechanical Systems,	1.		1 1/				
			Anatomy Zoology, 3 Phases	\$ 3,500,0	00 \$	0		1500000	1000000	1000
			Replace Deteriorated Mechanical Systems,			-				
			Microbiology, 3 Phases	\$ 3,500,0	00 \$	0		1500000	1000000	1000
			Repair/Replace Deteriorated Roads and							
			Sidewalks, Main Campus, 1 Phase	\$ 1,275,6	00 \$	0				127
-			Replace Deteriorated Mechanical Systems,	- · · · · · · · · · · · · · · · · · · ·						
				\$ 3,500,0	000	0		1500000	1000000	100
			Painter, 1 Phase Replace Deteriorated Mechanical Systems,	φ 0,000,1	4			100000		
				¢ 2500		50		1500000	1000000	100
			Physiology, 3 Phases	\$ 3,500,0	100 Ş		-	1500000	1000000	100
			Repairs to the Steam and Condensate Utility						1500000	150
			Systems, 2 Phases	\$ 3,000,	\$ 000	50	_		1500000	150
			Replace Deteriorated Mechanical Systems,						10000000	100
			Pathology, 2 Phases	\$ 2,000,	000	50	_		1000000	100
			(*	12) Totals fo	each Fiscal Ye	ar \$9,242,05	5 \$9,875,270	6 \$12,750,000	\$12,000,000	\$11,775
							and the second			

1 of 1

Office	of the State Architect
State	Buildings Programs

FY 15-16 CSU Spreadsheet 9-4.xls CM Project Status

9/4/2014

## Controlled Maintonance Forms

	d Maintenance Forms (2)	(3)	(4)	(5)	(6a)	(6b)	(7a)	(7b)	(8)	(9)	(10)	(11)
(1)	(2)	(-)	(.)	(-)		Percent of	Dollars	Percent of	Date of		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
					Dollars	Dollars	Approved	Dollars	Notice of	Exhibit L1		
		CCFE		Date	Committed/	Committed to	/Pay	Approved to	Substantial	Code	Exhibit L2	
Project		Appropriation		Funds	Contract	Appropriation	Application	Appropriation	Completion	Compliance		Comments /Statu
Number	Project Description, Phase	(\$)	Funds (\$)	Available	Totals (\$)	(%)	Totals (\$)	(%)	(SBP-07)	Date	5C-4.1 Date	Comments /Otato
M12007	Fire Alarm Installation, Five Buildings, Ph 1 of 1	\$507,523	\$0	7/1/2012	\$507,523	100%	\$507,523	100%	5/1/2014	12/5/2013	12/1/2014	complete
112001	Install Fire Sprinkler System,	-			No							
112008	Engineering South/Glover Building, Ph 1 of 1	\$441,000	\$0	7/1/2012	\$418,944	95%	\$418,944	95%	6/1/2014	12/5/2013	12/1/2014	complete
M12033	Install Fire Sprinkler System, Microbiology, Ph 1 of 1	\$566,087	\$0	7/1/2012	\$566,087	100%	\$566,087	100%	6/1/2014	12/5/2013	12/1/2014	complete
M13015	Fire Suppression Modifications, Visual Arts, Ph 1 of 1	\$817,670	\$0	7/1/2013	\$805,096	98%	\$633,744	78%	8/1/2015	8/1/2015	2/1/2016	construction
V13016	Repair College Lake Dam, Ph 1 of 1	\$352,000	\$0	7/1/2013	\$15,200	4%	\$1,000	0%	8/1/2015	8/1/2015	2/1/2016	Design
	Install Fire Sprinkler System, Moby B Wing, Ph 1 of 1	\$1,193,849	\$0	7/1/2013	\$1,146,684	96%	\$1,031,450	86%	and the second sec	8/1/2015		construction
M13017 2015-073M14		\$753,948		7/1/2014		and a subscription of the	\$0	0%	8/8/2016	12/1/2016	12/1/2016	contracting
2015-073M14	Replace deteriorated natural	\$592,150		7/1/2014				0%				contracting
2015-070M14	Life safety elevator upgrades	\$616,463		7/1/2014	\$0	0%		0%	8/8/2016	12/1/2016	12/1/2016	contracting

	the State Architect uildings Programs			FY 15-1	6 CSU Spreadsheet 9-4(	1).xls CC Project S	status					9/17/2014
Controlle	ed Maintenance Forms	(3)	(4)	(5)	(6a)	(6b)	(7a)	(7b)	(8)	(9)	(10)	(11)
(1) Project Jumber	(2) Project Description, Phase	CCFE Appropriation (\$)	Other Funds (\$)		Dollars Committed/Contra ct Totals (\$)		Dollars Approved /Pay Application Totals (\$)	Percent of Dollars Approved to Appropriation (%)	Date of Notice of Substantial Completion (SBP-07)	Exhibit L1 Code Compliance Date	Exhibit L2 SC-4.1 Date	Comments /Sta
	Respectrum information Center	The second	85,2 DEE EEE			istsWa						
	Research hindvetion can end		Steer 7(101, 101)		SS 1978 7-16	51%	55 - 178 7 16	5.1%				
177892	Sughriff Lake Straer Paralities Celtrice		is 2 - Acta and		\$21 ( Se Berl	a)::44/7	152 × 1848 848 1		4 12011			
	Pri Mil		1921 - 616195191919									
	Administrative Canter Administration	:36)	B. (6. c) 6(0), 6(0)	711,70035		9.9 <sup>9</sup> 6	Barry War 1966					
	Brancle in Alain Alain Anno ann a' a' a'		18/12/ 9/00 7/8/2	124026101	ાર હતું નહેલના દાદાર		15 (11 -12) AL (18 F	10.0727				
	can Dilutent Center The Iter Renovation: Phill on Co		କ୍ର ମହାର ହାଇଥି	124/2010	<b>36, 170, 80</b> 15		No: 1913 0.218					
	Parmelee Hall, Min Plater Phil	SC	site (199) 2113	12/12010	N 845 1 517 91916	10/3926	# 14 (19)2.530		S(12012	1261/2061-1		
				11/1/2011	841,4632,3874	919 <i>1</i> /1	341-42[54,318]5	487	3/15/2012		2/120/13	202 Project, Ir
	Contract Address Medicing Allor Lory Student Center				\$67,029,822	103%	\$57,723,293	89%	10/15/2014	10/15/2014	10/15/2015	Construction
	Revitalization Academic Village North	\$0			\$55,248,185		\$53,424,588	3 94%	6/1/2014	10/15/2014	10/15/2015	202 Project, In Construction
	(Laurel Village) Morgan Lineary Expansion, Pr	\$0					Ener Ca		- 3-25-20-12			Calif Meter
	1 of 3 Equine Reproduction	He.	3 13 30101.0101		\$17,233,669			7.29		12/11/201-5	10/0/2015	
	e altraitationy	A							- 257 [20]1			
	Moby Arena Addition & Renovation	31	5.4) 3100 Cloid	7/41/2011	\$4,488,69					12/1/2014	12/1/2014	Complete
	Engineering II, Ph 1 of 1	\$0		) <u>12/1/2010</u> ) <u>3/2/2012</u>	\$65,952,459 \$12,946,065				8/1/2014 12/1/2014	6/1/2015	12/1/2014	In Construction
	Animal Sciences Renovation	\$0			\$41,483,663				5 77341/24)14	1/1/2014		្រុតកេទ្ធរមុខ
	EXIDENTIAL	\$0	\$9,500,000 \$9,500,000		\$9,032,359	9 95%	\$8,977,848	8 95%	6 11/20/2013 6 5/20/2015	12/1/2014 6/1/2015	12/1/2014 6/1/2015	Complete Construction
	BSB Building Addition Eddy Hall Revitalization	\$0		the second se	\$11,246,60	1 90%	\$2,755,373	5 227	012012013	0/1/2010	1	

FY 15-16 CSU Spreadsheet 9-4(1).xls CC Project Status

Office of the State Architect State Buildings Programs Controlled Maintenance Forms 

						Percent of		Percent of	Date of			
						Dollars	Dollars	Dollars	Notice of	Exhibit L1		
		CCFE			Dollars	Committed to	Approved /Pay	Approved to	Substantial	Code	Exhibit L2	
Decient		Appropriation		Date Funds	Committed/Contra			Appropriation	Completion	Compliance	SC-4.1	
Project Number	Project Description, Phase	(\$)	Other Funds (\$)		ct Totals (\$)	(%)	Totals (\$)	(%)	(SBP-07)	Date	Date	Comments /Statu
Number	I Tojeot Description, t											
	Avenir Gallery Addition	\$0	\$10,000,000	11/2/2012	\$5,355,674	54%	\$3,594,525	36%	1	6/1/2015	6/1/2015	
	Advanced Beam Lab	\$0					\$3,802,874	76%	6/1/2014	Lange and the second se		Complete
	UCA Fine Arts Addition	\$0				18%	\$34,149	1%	5/5/2016	12/1/2016	12/1/2016	Design
	Agricultural Education Center	\$0		6/1/2014	\$4,172	. 0%	\$347	0%	12/1/2015	6/1/2016	6/1/2016	Design
	Aggie Village North Redevelopment	\$0				8%	\$5,019,729	4%	9/1/2016	3/1/2017	3/1/2017	Design
2009-020P14	Chemistry Building Addition	\$15,000,000		9/15/2014	\$0	0%	6 \$0	0%	10/1/2018	12/1/2018	6/1/2019	Startup

9/17/2014

9/4/2014

FY 15-16 CSU Spreadsheet 9-4.xls CC Project Status

Office of the State Architect State Buildings Programs Controlled Maintenance Forms

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Controlled Maintenance Form	(3)	(4)	(5)	(6a)	(6b)	(7a)	(7b)	(8)	(9)	(10)	(11)	(12)
(2)	(3)		(-)		Percent of		Percent of	Date of	Exhibit L1			
					Dollars	Dollars	Dollars	Notice of	Code	Exhibit L2	10.01	
	CCFE			Dollars		Approved /Pay	Approved to	Substantial	Compliance	SC-4.1		
	Appropriation					Application	Appropriation	Completion (SBP-07)	Date		Comments /Status	HPCP stat
Project Description, Phase	(\$)	Other Funds (\$)	Available	ct Totals (\$)	(%)	Totals (\$)	(%)	(367-07)	Date	Date	Commonie / Clarate	LEED-NC,
Research Innovation Center, Ph 1 of 1	\$0	\$52,000,000	7/1/2007	\$52,000,000	100%	\$52,000,000	100%	10/1/2010	2/21/2014	2/21/2014	Complete	Gold-Cert
Research Innovation Center, Suplt #1	\$0	\$10,700,000	9/15/2010	\$5,478,736	51%	\$5,478,736	51%	4/1/2014	2/21/2014	2/21/2014	Complete 202 Project, Project	N/A LEED-NC,
Lake Street Parking Garage, Ph 1 of 1	- \$0	\$21,600,000	2 7/1/2008	\$21,164,841	98%	\$21,164,841	98%	4/1/2011	12/1/2013	12/1/2013	Completed	Gold-Cert
Student Recreation Center Addition/Renovation, Ph 1 of 1	\$(	\$36,000,000	11/2008	\$35,775,339	99%	\$35,775,339	99%	8/1/2011	12/1/2013	12/1/2013	202 Project, Project Completed 202 Project, Project	Gold-Cert
Braiden Hall, 4th Floor, Ph 1 of	\$(	\$12,900,782	12/1/2010	\$14,494,665	112%	\$14,494,665	112%	6/25/2013	1/1/2014	1/1/2014	Completed 202 Project, Project	N/A
Lory Student Center Theater Renovation, Ph 1 of 1	\$(		12/1/2010	\$6,170,805	103%	\$6,168,038	103%	5/8/2012	12/1/2013	12/1/2013	Completed 202 Project, Project	Cert
Parmelee Hall, 4th Floor, Ph 1 of 1	\$(	\$13,099,218	12/1/2010	\$14,157,996	5 (108%	\$14,092,530	108%	6/1/2012	12/1/2013	12/1/2013	Completed 202 Project,	N/A
Corbett Exterior Modernization	\$(	\$4,500,000	11/1/2011	\$4,432,874	99%	\$4,425,380	98%	8/15/2012	12/1/2013	12/1/2013	Complete 202 Project, In	N/A LEED-NC,
Lory Student Center	\$(		3/2/2012	\$67,029,822	103%	\$57,723,293	89%	10/15/2014	10/15/2014	10/15/2015	Construction	Gold -Reg
Revitalization Academic Village North				\$55,248,185		\$53,424,588	94%	6/1/2014	10/15/2014	10/15/2015	202 Project, In Construction	LEED-NC, Gold -Reg
(Laurel Village) Morgan Library Expansion, Ph	\$(			\$17,233,669				4/25/2012	1/1/2014	1/1/2014	Complete	LEED-NC, Silver-Cert
1 of 1 Equine Reproduction Laboratory	\$			\$4,057,323	72%	\$4,057,323	3 72%	3/1/2013	12/1/2013	12/1/2013	Complete	Waiver
Moby Arena Addition & Renovation	\$	\$4,500,000	7/1/2011	\$4,433,637	99%	\$4,433,637	99%	2/7/2013	1/1/2014	1/1/2014	Complete	Waiver LEED-NC,
Engineering II, Ph 1 of 1	\$		12/1/2010	\$65,952,459 \$12,946,065		and the second sec	and the second s	8/1/2014 12/1/2014	12/1/2014 6/1/2015		Complete In Construction	Gold -Reg Waiver
Animal Sciences Renovation Moby Training Room				\$4,433,637		\$4,433,637	99%	7/31/2013	1/1/2014	1/1/2014	Complete	Waiver
Expansion	\$		Construction of the second s	\$9,032,359	A CALIFORNIA CONTRACTOR OF A CALIFORNIA CONTRACTOR OF A CALIFORNIA CONTRACTOR OF A CALIFORNIA CONTRACTOR AND A	2 Superstanting when we have a second of the	and the second of the second se	11/20/2013	12/1/2014		Complete	Waiver
BSB Building Addition	\$			\$9,032,338				5/20/2015	6/1/2015	6/1/2015	Construction	Waiver
Eddy Hall Revitalization	\$	12 500		···;;-								1 of 2

FY 15-16 CSU Spreadsheet 9-4.xls CC Project Status

Office of the State Architect State Buildings Programs Controlled Maintenance Forms 

				The states of the states	Percent of		Percent of	Date of				
					Dollars	Dollars	Dollars	Notice of	Exhibit L1			
	CCFE			Dollars	Committed to	Approved /Pay	Approved to	Substantial	Code	Exhibit L2		
	Appropriation		Date Funds	Committed/Contra	Appropriation	Application	Appropriation	Completion	Compliance	SC-4.1	All Marine Mar	1 States &
Project Description, Phase	(\$)	Other Funds (\$)	Available	ct Totals (\$)	(%)	Totals (\$)	(%)	(SBP-07)	Date	Date	Comments /Status	HPCP stat
110,000										Service and		LEED-NC,
Avenir Gallery Addition	\$0	\$10,000,000	11/2/2012	\$5,355,674	54%	\$3,594,525	36%	1/1/2015	6/1/2015	6/1/2015	Design	Cerfified -R
Advanced Beam Lab	\$0	\$5,000,000	12/1/2010	\$3,910,568	78%	\$3,802,874	76%	6/1/2014	12/1/2014	12/1/2014	Complete	Waiver
UCA Fine Arts Addition	\$0	\$3,000,000	3/1/2014	\$540,721	18%	\$34,149	1%	5/5/2016	12/1/2016	12/1/2016	Design	TBD
Agricultural Education Center	\$0	\$3,300,000	6/1/2014	\$4,172	0%	\$347	0%	12/1/2015	6/1/2016	6/1/2016	Design	TBD
Aggie Village North		£114.000.000	40/47/0040	<b>©</b> 000 504	00/	¢E 040 700	40/	0/4/2016	2/4/2047	2/1/2017	Design	LEED-NC, Gold -Reg
Redevelopment	\$0	\$114,000,000	12/17/2013	\$9,382,534	8%	\$5,019,729	4%	9/1/2016	3/1/2017	3/1/2017	Design	Gold -Rey

9/4/2014

FY 15-16 CSU Spreadsheet 9-4.xls Building Inventory

#### Office of the State Architect State Buildings Programs Controlled Maintenance Forms

		(2)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11) (21) Total B	(12) Juilding Est	(13) imated Deficiencies	(14)	(15) \$ 324,394,023	(16)	(17)
(1)	(2)	(3)	(+)	(-)						NUCE.	unding Lot					
			and the second							Projects indentified in						
										the 5 year						1.4
										plan should have						
									and the second	correspondin						1928
										g building deficiencies						
										indicated in						
									and the state of the state of the state of the	the actual FCI (column-						
										11) and						
									Contraction of the second second	building targeted						
										deficiency						
										value (column-15)						1.3%
										as indentified						
										through the facility audit						
										process.						
				Rod. I left	t this part of the	report up here										
				so you don't hav	e to scroll through	ugh 787 entries!										
									and the state	(00) Codo (	Compliance	e Estimated Deficie	ncies =	\$ -		-
										(22) Code (	ructure De	ficiencies - Above G	Bround =	\$ -		
										(24) Infrast	ructure De	ficiencies - Below G	round =	\$ 177,130,127		
										(25) Other	(define)	asbestos removal	all campuses	\$ 13,300,000		-
												hannan Maada		\$ 514,824,150		-
										Note: Total Ma	ajor Maintena	tenance Needs nce Needs is the sum of	items 21 through			
						Agency Reported	Data Ruilt	Date	Date of	F.C.I.	F.C.I.	CRV x (1-A/FCI)	CRV X (1-	A/DET-T/DET =	Code	ager
ding Name	CSU Building	Occupancy Type	Agency Reported	Agency Reported Non-Academic or	Vacant/ Not utilitzed gsf	C.R.V.	Date Duit	Acquired	Facility	(Actual)	(Target)	= A/DET	T/FCI) = T/DET	Targeted Deficiencies	Projects	
	Number		General Fund	Non-General					Audit	A/FCI	T/FCI		IDET	Dendendes		
			G.S.F.	Fund G.S.F.												
															-	
NFERENCE	0001	Office	4,001			\$605,311.29	7/1/1946	7/1/1946			100					CSU CSU
RVICES				17,671		\$2,669,027.84	7/1/1967	7/1/1967	-		100			•		CSU
MER CENTER	0004	Office Dormitory		104,898		\$15,843,793.92	7/1/1967	7/1/1967			100					1
RRELL				46,268		\$6,988,318.72	7/1/1967	7/1/1967			100					CSU
NTER	0006	Dormitory		104,898		\$15,843,793.92	7/1/1967	7/1/1967			100					CSU CSU
RWARD HALL	0007	Dormitory		223,334		\$29,799,455.62	7/1/1965	7/1/1965			100					CSU
RBETT HALL	0010	Dormitory Dormitory		148,740		\$32,154,613.20	7/1/1962	7/1/1962	-		100 100					CSU
EEN HALL	0013	Office	21,891			\$2,893,333.47 \$12,955,699.91	7/1/1953	7/1/1953			100					CSU
ISON HALL	0014	Dormitory	00 503	98,023		\$12,955,699.91	7/1/1940	7/1/1940	Sept 2014	1 76		\$3,453,482	\$0	\$3,453,482		CSU
	0015	Classroom/Office	60,567			\$20,805.40					100	\$8,322	\$0	\$8,322		CSU
CKWELL HALL											11111	770.042				(successive statements)
CKWELL HALL FTBALL GOUTS	0016	Athletic or PE	386			φ20,000.10			Sept 2014	4 60	100					

(1) Initial / Updated Subr	mittal Initia	al		(2) Date	8/21/2014
(3) Agency / Institution	Colorado S	tate University			
(4) Facility Name	Solar Energ	gy House 3			
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)		
	Unused / V	lacant (in who	ole or in par	t)	
(6) Gross Square Foot (	GSF) (total)	3630	(7) GSI	Unoccupied/Unused	3630
(8) Estimated Market Va	ilue		Sec. 2		\$0
(9) Justification on Mark	et Valuation			4	Condemned
(10) Site Description		Lo	cated on Foo	othills Campus Atmos	pheric Science area
(11) Risk Management	Number	3580	(12) Ager	cy Building Number	1124
(13) Current Replaceme	ent Value	678,883	(1	4) Eligible for Historic	al Listing No
(15) General Fund or Au	xiliary/Acade	emic or Non-Ad	cademic faci	lity General Fund	ł
(16) Year Built 1975	(17)	Year Acquired	d – if differer	t from year built	
(18) Current Occupancy	Туре О	ffice			
(19) Proposed Alternativ	e or Future F	Plan for the Fa	cility (list all	considered)	
Demolition					
(20) What is the current hazardous materials.	condition of	the building?	ndicate if the	ere is any life threater	ling conditions or
Condemned			Stand manufactor		
(21) What is the Facility	Condition Inc	dex number?		(22) Date of Audit	
(23) Reason for unoccuj	pied or unuse	ed?			
Condemned					
(24) Annual Cost to Mai	ntain Facility	in its Current	Condition?		
\$0					

(1) Initial / Updated Subr	nittal			(2) Date	8/2/2014
(3) Agency / Institution	Sarah Garahoun Garona and	ate University			
(4) Facility Name	Cattle Barn				
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)		
	Unused / V	acant (in who	le or in part)		
(6) Gross Square Foot (	GSF) (total)	1742	(7) GSF Unoco	cupied/Unused	1742
(8) Estimated Market Va					0
(9) Justification on Mark					Property of no value
(10) Site Description				ELC	- Grout Homestead
(11) Risk Management I	Number	8005	(12) Agency Build	ding Number	2423
(13) Current Replaceme	ent Value	63.03	(14) Eligil	ble for Historic	al Listing Yes
(15) General Fund or Au		emic or Non-Ad	cademic facility	GF	
(16) Year Built 1930	(17)	Year Acquired	d – if different from	year built 1	988
(18) Current Occupancy	Type N	A			
(19) Proposed Alternativ		Plan for the Fa	cility (list all conside	ered)	
None					
(20) What is the current hazardous materials.	condition of	the building?	Indicate if there is a	ny life threater	ning conditions or
Demolition					
(21) What is the Facility	Condition In	dex number?	(22)	Date of Audit	
(23) Reason for unoccu	pied or unus	ed?			
Never used by CSU					
(24) Annual Cost to Ma	intain Facility	in its Current	Condition?		
0					

(1) Initial / Updated Subr	mittal	The second second			(2) Date		8/2/2014
(3) Agency / Institution	Colorado Si	tate University			1111		
(4) Facility Name	Original Bar	'n					
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)				
	Unused / V	acant (in who	ole or in p	art)			
(6) Gross Square Foot (	GSF) (total)	609	(7) G	SF Unoco	cupied/Unused	609	
(8) Estimated Market Va	lue						0
(9) Justification on Marke	et Valuation					Property of	
(10) Site Description					ELC -	- Grout Ho	omestead
(11) Risk Management N	lumber	8006	(12) Ag	ency Buil	ding Number		2427
(13) Current Replaceme	nt Value	63.03		(14) Eligil	ole for Historica	al Listing	Yes
(15) General Fund or Au	xiliary/Acade	mic or Non-Ac	cademic fa	acility	GF		
(16) Year Built 1870	(17)	Year Acquired	1 — if differ	ent from y	year built 19	88	
(18) Current Occupancy	Type N/	4					
(19) Proposed Alternativ	e or Future F	Plan for the Fac	cility (list a	all conside	ered)		
None							
(20) What is the current hazardous materials.	condition of t	he building? I	ndicate if	there is a	ny life threaten	ing conditi	ions or
Demolition				Kappinadownati			
(21) What is the Facility	Condition Inc	lex number?		(22) ا	Date of Audit		
(23) Reason for unoccup	bied or unuse	d?					
Never used by CSU							
(24) Annual Cost to Main	ntain Facility	in its Current (	Condition?	<b>)</b>			
0							

(1) Initial / Updated Subr	mittal			(2) Date		8/2/2014
(3) Agency / Institution	Colorado S	tate University				
(4) Facility Name	Boxcar				A CONTRACTOR OF THE OWNER AND THE	
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)			
	Unused / V	acant (in who	le or in part)			
(6) Gross Square Foot (	GSF) (total)	596	(7) GSF	Unoccupied/Unuse	d 596	
(8) Estimated Market Va	lue					0
(9) Justification on Mark	et Valuation				Property of	no value
(10) Site Description		Seattle file		ELC	- Grout Ho	mestead
(11) Risk Management I	Number	8007	(12) Agenc	y Building Number		2428
(13) Current Replaceme	ent Value	28.01	(14)	Eligible for Historio	cal Listing	Yes
(15) General Fund or Au	uxiliary/Acade	emic or Non-Ac	ademic facilit	y GF		
(16) Year Built 1930	(17)	Year Acquired	I – if different	from year built 1	988	
(18) Current Occupancy	/ Type N	A				
(19) Proposed Alternativ	ve or Future I	Plan for the Fa	cility (list all co	onsidered)		
None						
(20) What is the current hazardous materials.	condition of	the building? I	ndicate if ther	e is any life threate	ening conditi	ons or
Demolition						
(21) What is the Facility	Condition In	dex number?		(22) Date of Audit		
(23) Reason for unoccu	pied or unus	ed?				
Never used by CSU		a la ha ha ha				
(24) Annual Cost to Mai	intain Facility	in its Current	Condition?			
0						

I

(1) Initial / Updated Sub	omittal			(2) Date	and the second	8/2/2014
(3) Agency / Institution	Colorado	State University				
(4) Facility Name	Outhouse					
(5) <u>Current Use</u> X	Unoccupi	ed / Vacant (in	whole)			
	Unused /	Vacant (in who	le or in part)			
(6) Gross Square Foot	(GSF) (total)	20	(7) GSF Unoc	cupied/Unused	20	
(8) Estimated Market V	alue					0
(9) Justification on Mar	ket Valuation				Property of	
(10) Site Description					- Grout Ho	mestead
(11) Risk Management	Number	8008	(12) Agency Buil	Contraction of A second second		2429
(13) Current Replacem	ent Value	78.79	(14) Eligi	ble for Historica	al Listing	Yes
(15) General Fund or A	A second s			GF		
(16) Year Built 1870	(17	7) Year Acquired	I – if different from	year built 19	988	
(18) Current Occupanc	у Туре	A				
(19) Proposed Alternati	ive or Future	Plan for the Fa	cility (list all conside	ered)		
None						
(20) What is the curren hazardous materials.	t condition of	the building?	ndicate if there is a	ny life threaten	iing conditi	ons or
Demolition						
(21) What is the Facility	Condition Ir	ndex number?	(22)	Date of Audit		
(23) Reason for unoccu	upied or unus	sed?				
Never used by CSU						
(24) Annual Cost to Ma	intain Facilit	y in its Current	Condition?			
0				17		

(1) Initial / Updated Su	bmittal			(2) Date	8/2/201	4	
(3) Agency / Institution	Agency / Institution Colorado State University						
(4) Facility Name	Coal Shed	Coal Shed					
(5) <u>Current Use</u> X	Unoccupi	ed / Vacant (in	whole)				
	Unused /	Vacant (in who	le or in part)				
(6) Gross Square Foot	(GSF) (total)	77	(7) GSF Unoco	cupied/Unused	d 77		
(8) Estimated Market	/alue					0	
(9) Justification on Ma	rket Valuation				Property of no valu	e	
(10) Site Description				ELC	- Grout Homestea	d	
(11) Risk Managemen	t Number	8009	(12) Agency Build	ding Number	243	0	
(13) Current Replacen	nent Value	10.23	(14) Eligit	ole for Historic	cal Listing Ye	es	
(15) General Fund or A	Auxiliary/Acad	lemic or Non-Ad	ademic facility	GF			
(16) Year Built 1900	) (17	) Year Acquired	I – if different from y	year built 1	988		
(18) Current Occupan	су Туре	A					
(19) Proposed Alterna	tive or Future	Plan for the Fa	cility (list all conside	ered)			
None						and the second	
(20) What is the curren hazardous materials.	nt condition o	f the building?	ndicate if there is a	ny life threate	ning conditions or		
Demolition					20423		
(21) What is the Facili	ty Condition I	ndex number?	(22)	Date of Audit			
(23) Reason for unoco	cupied or unus	sed?					
Never used by CSU							
(24) Annual Cost to M	laintain Facilit	y in its Current	Condition?				
0							

## VACANT FACILITY MANAGEMENT PLAN

(1) Initial / Updated Subr	mittal	1980 1 46 G		(2) Date		8/2/2014
(3) Agency / Institution	Colorado	State University				
(4) Facility Name	Run-In-B	Run-In-Barn				
(5) <u>Current Use</u> X	Unoccup	bied / Vacant (in	whole)			
	Unused	Vacant (in who	le or in part)			
(6) Gross Square Foot (	GSF) (tota	) 567	(7) GSF Unoco	cupied/Unused	567	
(8) Estimated Market Va	lue					0
(9) Justification on Mark	et Valuatio	n		P	roperty of	no value
(10) Site Description		and the second		ELC -	Grout Ho	mestead
(11) Risk Management N	Number	8011	(12) Agency Build	ding Number		2432
(13) Current Replaceme	nt Value	22.34	(14) Eligil	ble for Historical	Listing	Yes
(15) General Fund or Au	ixiliary/Aca	demic or Non-Ac	cademic facility	GF		
(16) Year Built 1870	(1	7) Year Acquired	I – if different from y	year built 198	38	1
(18) Current Occupancy	Туре	NA				
(19) Proposed Alternativ	e or Futur	e Plan for the Fa	cility (list all conside	ered)	1	
None						
(20) What is the current hazardous materials.	condition of	of the building? I	ndicate if there is a	ny life threatenii	ng conditi	ons or
Demolition						
(21) What is the Facility	Condition	Index number?	(22)	Date of Audit		
(23) Reason for unoccup	bied or unu	ised?				
Never used by CSU	and the second					
(24) Annual Cost to Main	ntain Facili	ty in its Current (	Condition?			
0						

(1) Initial / Updated Sub	omittal				(2) Date		8/2/2014
(3) Agency / Institution	Colorado S	tate University					
(4) Facility Name	Cattle Chut	Cattle Chute					
(5) <u>Current Use</u> X	Unoccupie	ed / Vacant (in	whole)				
	Unused / \	/acant (in who	le or in p	art)			
(6) Gross Square Foot	(GSF) (total)	341	(7) G	SF Unoc	cupied/Unuse	d 341	
(8) Estimated Market V	/alue						0
(9) Justification on Mar	ket Valuation				A	Property of	no value
(10) Site Description					ELC	C – Grout Ho	mestead
(11) Risk Management	Number	8012	(12) Ag	ency Buil	ding Number		2433
(13) Current Replacem	nent Value	9.26		(14) Eligi	ble for Historic	cal Listing	Yes
(15) General Fund or A	Auxiliary/Acad	emic or Non-Ac	ademic f	acility	GF		
(16) Year Built 1870		) Year Acquired			year built 1	1988	
(18) Current Occupand	су Туре	A					
(19) Proposed Alternat	tive or Future	Plan for the Fa	cility (list	all conside	ered)		
None							
(20) What is the curren hazardous materials.	nt condition of	the building? I	ndicate if	there is a	iny life threate	ening conditi	ons or
Demolition			- horsenand	Lassesser			
(21) What is the Facilit	ty Condition Ir	idex number?		(22)	Date of Audit		
(23) Reason for unocc	upied or unus	ed?					
Never used by CSU				nan chun that parts of			
(24) Annual Cost to M	aintain Facility	in its Current	Condition	?			
0							

1

(1) Initial / Updated Subr	mittal				(2) Date		8/2/2014
(3) Agency / Institution	Colorado S	tate University					
(4) Facility Name	Insectary						
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)				
	Unused / V	/acant (in who	le or in p	art)	1		
(6) Gross Square Foot (	GSF) (total)	188	(7) G	SF Unoccu	pied/Unused	188	
(8) Estimated Market Va	alue						0
(9) Justification on Mark	et Valuation						no value
(10) Site Description			Lo	ocated at A	rkansas Valley	Researc	ch Center
(11) Risk Management	Number	3849	(12) Ag	ency Buildi	ng Number	01/00-Not-00/010000-04444400-	4606
(13) Current Replaceme	ent Value	19599		(14) Eligible	e for Historical	Listing	Y
(15) General Fund or Au	xiliary/Acade	emic or Non-Ac	ademic fa	acility C	SF		
(16) Year Built 1966		Year Acquired			ar built		•
(18) Current Occupancy	Type R	esearch					
(19) Proposed Alternativ	ve or Future I	Plan for the Fac	cility (list a	all considere	ed)		
Demolition							
(20) What is the current hazardous materials.	condition of	the building? In	ndicate if	there is any	/ life threatenin	ng conditi	ons or
Remodel			Managements.		Service of the servic	2	
(21) What is the Facility	Condition In	dex number?		(22) Da	ate of Audit		
(23) Reason for unoccu	pied or unus	ed?					
Unknown							
(24) Annual Cost to Mai	ntain Facility	in its Current C	Condition?	2			
0					Martin State	1	

(1) Initial / Updated Subr	nittal ·				(2) Date		8/2/2014
(3) Agency / Institution	Colorado St	tate University					
(4) Facility Name	Storage Sho	ed					
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)				
	Unused / V	acant (in who	le or in pa	rt)			
(6) Gross Square Foot (	GSF) (total)	145	(7) GS	F Unoccu	pied/Unused	145	1.00
(8) Estimated Market Va	lue	Sector Sector			Sector Parts		0
(9) Justification on Mark	et Valuation		· · · ·		F	Property of	no value
(10) Site Description			Loc	cated at A	rkansas Valle	ey Researd	ch Center
(11) Risk Management	Number	3850	(12) Age	ncy Buildi	ng Number		4608
(13) Current Replaceme	ent Value	7558.85	(*	14) Eligible	e for Historica	al Listing	Y
(15) General Fund or Au	ixiliary/Acade	emic or Non-Ac	ademic fac	cility (	GF		
(16) Year Built 1975		Year Acquired			ear built		
(18) Current Occupancy	Type St	torage					
(19) Proposed Alternativ	ve or Future I	Plan for the Fa	cility (list all	considere	ed)		
(20) What is the current hazardous materials.	condition of	the building? I	ndicate if th	nere is any	y life threaten	ing condit	ons or
Remodel			Constant Sectors	CHARLING COLONIA MANDA			
(21) What is the Facility	Condition In	dex number?		(22) D	ate of Audit		
(23) Reason for unoccu	pied or unus	ed?					
Unknown							
(24) Annual Cost to Mai	ntain Facility	in its Current	Condition?				
0							

(1) Initial / Updated Subr	mittal				(2) Date	8	8/2/2014
(3) Agency / Institution	A CONTRACTOR OF	ate University					X
(4) Facility Name	Garage			Sec.	· · · · · · · · · · · · · · · · · · ·		
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)				
	Unused / V	acant (in who	le or in p	art)			
(6) Gross Square Foot (	GSF) (total)	1898	(7) G	SF Unoc	cupied/Unused	1898	
(8) Estimated Market Va							0
(9) Justification on Mark	et Valuation					roperty of	
(10) Site Description			L	ocated a	t San Luis Valle	y Researc	
(11) Risk Management	Number	3916	(12) Ag	ency Buil	ding Number	ADDATION CONTRACTOR	4788
(13) Current Replaceme	ent Value	92850.16		(14) Eligi	ble for Historica	I Listing	Y
(15) General Fund or Au	uxiliary/Acade	mic or Non-Ac	cademic fa	cility	GF		
(16) Year Built 1952	(17)	Year Acquired	d – if differ	ent from	year built		
(18) Current Occupancy	Type St	orage		N. 41 CONV. DB 46 DAMAS			
(19) Proposed Alternativ	ve or Future F	Plan for the Fa	cility (list a	II conside	ered)		
Demolition							
(20) What is the current hazardous materials.	condition of t	he building? I	ndicate if	there is a	ny life threateni	ing condition	ons or
Demolition							
(21) What is the Facility	Condition Inc	dex number?		(22)	Date of Audit		
(23) Reason for unoccu	pied or unuse	ed?					
Uuknown							
(24) Annual Cost to Mai	intain Facility	in its Current (	Condition	?			
0			A CONTRACT				

(1) Initial / Updated Sub	mittal	ittal (2) Date 7/12/2014				
(3) Agency / Institution	Colorado Sta	ate University				
(4) Facility Name	111 Lake Ho	11 Lake House				
(5) Current Use X	Unoccupied	noccupied / Vacant (in whole)				
	Unused / Va	sed / Vacant (in whole or in part)				
(6) Gross Square Foot (	GSF) (total)	1898 184	(7) GSF Unoccupied/Unused	1 1898 1847		
(8) Estimated Market Va	the second second second			325,755		
(9) Justification on Mark				Purchase price		
(10) Site Description			CSU Main Campus Nea	ar Central Receiving		
(11) Risk Management	Number	NA	(12) Agency Building Number	0179		
(13) Current Replaceme	and the second	325,755 (14) Eligible for Historical Listing Ye				
(15) General Fund or A		mic or Non-Ac	ademic facility GF			
(16) Year Built Unkno				011		
(18) Current Occupancy	y Type En	npty				
		lan for the Fac	cility (list all considered)			
Demolition						
	t condition of t	he building? I	ndicate if there is any life threater	ning conditions or		
Condition is poor, need	major renova	tion to be occu	ipied			
(21) What is the Facility	Condition Inc	lex number?	(22) Date of Audit			
(23) Reason for unoccupied or unused?						
Determined not worth fixing to make it usable						
(24) Annual Cost to Ma			Condition?			
0						

(1) Initial / Updated Subr	mittal				(2) Date	8	3/2/2014
(3) Agency / Institution	Colorado S	state University					and and
(4) Facility Name	Storage						
(5) <u>Current Use</u> X	Unoccupie	ed / Vacant (in	whole)				
	Unused / \	/acant (in who	le or in par	t) .			
(6) Gross Square Foot (	GSF) (total)	1037	(7) GSF	- Unoccu	pied/Unused	1037	
(8) Estimated Market Va	lue						0
(9) Justification on Mark	et Valuation					operty of	
(10) Site Description				Foothills	Campus near	CSFS Tr	
(11) Risk Management I	Number	3555	(12) Agen	icy Buildi	ng Number		1083
(13) Current Replaceme	nt Value	25.81	(1	4) Eligible	e for Historical	Listing	Yes
(15) General Fund or Au	xiliary/Acad	emic or Non-Ac	ademic faci	lity C	GF		
(16) Year Built 1915	(17)	Year Acquired	I – if differen	t from ye	ar built		
(18) Current Occupancy	Type S	torage				·	
(19) Proposed Alternativ	e or Future	Plan for the Fa	cility (list all o	considere	ed)		
Demolition		·					
(20) What is the current hazardous materials.	condition of	the building? I	ndicate if the	ere is any	/ life threatenir	ng conditio	ons or
Demolition, holes in floo	r		Sectore Sectore 4	Transfer and the			
(21) What is the Facility	Condition In	dex number?		(22) Da	ate of Audit		The second of
(23) Reason for unoccu	pied or unus	ed?					
unknown							
(24) Annual Cost to Mai	ntain Facility	in its Current (	Condition?				
0							

(1) Initial / Updated Subr	mittal			(2) Date	8/2/2014
(3) Agency / Institution		tate University			
(4) Facility Name	Storage				
(5) <u>Current Use</u> X	Unoccupie	d / Vacant (in	whole)		
in the second	Unused / V	acant (in who	le or in part)		
(6) Gross Square Foot (	GSF) (total)	287	(7) GSF Unoco	cupied/Unused	287
(8) Estimated Market Va					0
(9) Justification on Mark	et Valuation				Property of no value
(10) Site Description					oard-Rutledge Farm
(11) Risk Management	Number	3821	(12) Agency Buil		4003
(13) Current Replaceme	ent Value	7120.47	(14) Eligi	ble for Historica	al Listing Y
(15) General Fund or A	uxiliary/Acade	emic or Non-Ac	ademic facility	GF	
(16) Year Built 1925			I – if different from	year built 19	963
(18) Current Occupancy	/ Type S	torage			
(19) Proposed Alternativ	ve or Future	Plan for the Fa	cility (list all conside	ered)	
None					
(20) What is the current hazardous materials.	t condition of	the building?	ndicate if there is a	iny life threaten	ing conditions or
Demolition, Hole in roof	F				
(21) What is the Facility	Condition In	dex number?	(22)	Date of Audit	
(23) Reason for unoccu	ipied or unus	ed?			
Due to condition of stru					
(24) Annual Cost to Ma	intain Facility	in its Current	Condition?		
0					

(1) Initial / Updated Subr	nittal Initia	l			(2) Date		9/2/2014
(3) Agency / Institution	Colorado Si	Colorado State University					
(4) Facility Name	Radiation G	Radiation Genetics Building					
(5) <u>Current Use</u> X	Unoccupie	Inoccupied / Vacant (in whole)					
San Conference and an and the residence and an analysis of the second second second second second second second	Unused / V	nused / Vacant (in whole or in part)					
(6) Gross Square Foot (	GSF) (total)	1080	(7) G	SF Unoco	cupied/Unused	1080	
(8) Estimated Market Va	lue		and for the			:	\$203,914
(9) Justification on Marke	et Valuation				Current r	replacem	ent value
(10) Site Description				Foothills	Campus betwee	en CDC a	and IDRC
(11) Risk Management N	lumber	3605	(12) Ag	ency Build	ding Number		1305
(13) Current Replaceme	nt Value	188.81	AND	(14) Eligil	ole for Historical	Listing	no
(15) General Fund or Au	(15) General Fund or Auxiliary/Academic or Non-Academic facility GF						
(16) Year Built 1964	(17)	Year Acquired	- if differ	ent from y	year built		
(18) Current Occupancy	Type Ra	adiation Storag	е				
(19) Proposed Alternativ	e or Future F	Plan for the Fac	cility (list a	all conside	ered)		
Radiation Mitigation							
(20) What is the current hazardous materials.	condition of t	he building?	ndicate if	there is a	ny life threatenin	ng conditi	ons or
Poor						8	
(21) What is the Facility	Condition Inc	lex number?		(22)	Date of Audit		
(23) Reason for unoccup	pied or unuse	ed?					
EHS no longer needs bu	uilding						
(24) Annual Cost to Main	ntain Facility	in its Current C	Condition	?			
0						No. No.	

#### OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2015/2016 ENERGY MANAGEMENT PROGRAMS

## ANNUAL HIGH PERFORMANCE CERTIFICATION PROGRAM (HPCP) FORM

(Please fill out one form for every project where your agency /institution has pursued LEED registration/certification whether or not certification was required by statute, and include all form with your controlled maintenance submittal)

#### A) PROJECT INFORMATION

1) Agency/Institution: 2) Project Number / Name:	Colorado State Unive	Colorado State University Fort Collins							
3) Building Type/ Size/ Budget:	Dining Center								
4) Date Design Commenced:		5) Date Registered:	3/15/2012						
6) Date Project Completed:	8/20/2013	7) Date Project Certified:	4/28/2014						

#### **B) GENERAL QUESTIONS:**

8) What was the reason for your agency/institution pursuing LEED certification for this project?
Statute 24- 30-1305 X Voluntary Student/ fee Other requirement (explain)
9) What level of certification is being pursuing or was achieved and the number of projected or achieved points?
Level Gold-Cl Number of Points 64
10) If applicable as per statute 24-30-1305 (9) (b), what are the initial design and construction costs to be recouped from decreased operational costs over fifteen years?
NA
<ul> <li>11) What methodology was utilized to analysis the fifteen year payback and decided the LEED points to consider?</li> <li>LEED Energy Modeling</li> <li>Other (explain)</li> <li>NA for commercial interiors</li> </ul>
12) How is your agency/institution tracking the long term operational costs/ performance (in energy and water use)?
LEED-EBOM         Building Monitoring & Verification         Continuous Commissioning         Energy Star Rating
Other (explain) NA for commercial interiors
13) Now that the building is occupied, how does this building compare in utility/operation performance to typical non LEED certified buildings at your agency/institution? Per SB13-028, submit building performance information or provide a link to EPA EnergyStar Portfolio Manager.
14) What are/were the pros and cons of LEED certification on this project?
15) Has the final LEED point's checklist and any premium cost information been submitted to OSA after the

certification from USGBC? If not, submit information with the annual OSA controlled maintenance documents. Checklist attached



(2

#### **LEED** Certification Review Report

This report contains the results of the technical review of an application for LEED® certification submitted for the specified project. LEED certification is an official recognition that a project complies with the requirements prescribed within the LEED rating systems as created and maintained by the U.S. Green Building Council® (USGBC®). The LEED certification program is administered by the Green Building Certification Institute (GBCI®).

#### **CSU Durrell Center**

Project ID	
Rating system & version	
Project registration date	

1000023115 LEED-CI v2009 03/15/2012



Construction Application Decision CERTIFIED: 40-49, SILVER: 50-59, GOLD: 60-79, PLATINUM: 80+

SILVER

CERTIFIED

## LEED FOR COMMERCIAL INTERIORS (V2009)

ATTEMPTED: 69, DENIED: 8, PENDING: 0, AWARDED: 66 OF 110 POINTS

SSc1	Site Selection	2/5
	Development Density and Community Connectivity	6/6
5502	1Alternative Transportation-Public Transportation Access	6/6
5503.	2Alternative Transportation-Bicycle Storage and Changing Rooms	2/2
SSc3.	3Alternative Transportation-Parking Availability	0/2

 WEp1 Water Use Reduction-20% Reduction
 Y

 WEc1 Water Use Reduction
 8 / 11

ENERGY AND ATMOSPHERE	21 OF 37
EAp1 Fundamental Commissioning of the Building Energy Systems	Y
EAp2 Minimum Energy Performance	1/0
EAp3 Fundamental Refrigerant Mgmt	1/0
EAc1.1Optimize Energy Performance-Lighting Power	2/5
EAc1.20ptimize Energy Performance-Lighting Controls	0/3
EAc1.3Optimize Energy Performance-HVAC	5/10
EAc1.4Optimize Energy Performance-Equipment and Appliances	4/4
EAc2 Enhanced Commissioning	5/5
EAC3 Measurement and Verification	0/5
EAC4 Green Power	5/5

MATERIALS AND RESOURCES	5 OF 14
MRp1 Storage and Collection of Recyclables	Y
MRc1.1Tenant Space-Long-Term Commitment	1/1
MRc1.2Building Reuse	0/2
MRc2 Construction Waste Mgmt	2/2
MRC3.1Materials Reuse	0/2
MRc3.2Materials Reuse-Fumiture and Fumishings	0/1
MRc3.2Matchalsrices remains a second	1/2
MRc5 Regional Materials	1/2
MRC5 Regional Materials MRC6 Rapidly Renewable Materials	0/1
MRC6 Rapidly Renewable Indentation	0/1

INDOOR ENVIRONMENTAL QUALITY	9 OF 17
IEQp1 Minimum IAQ Performance	Y
IEQp2 Environmental Tobacco Smoke (ETS) Control	1/0
IEQc1 Outdoor Air Delivery Monitoring	0/1
IEQc2 Increased Ventilation	0/1
IEQc3.1Construction IAQ Mgmt Plan-During Construction	1/1
EQC3.2Construction IAQ Mgmt Plan-Before Occupancy	0/1
EOc4.1Low-Emitting Materials-Adhesives and Sealants	1/1
EQc4.2Low-Emitting Materials-Paints and Coatings	1/1
EQc4.3Low-Emitting Materials-Flooring Systems	0/1
EQc4.4Low-Emitting Materials-Composite Wood and Agrifiber Products	1/1
EQc4.5Low-Emitting Materials-Systems Furniture and Seating	1/1
EQc5 Indoor Chemical and Pollutant Source Control	0/1
EQc6.1Controllability of Systems-Lighting	1/1
EQc6.2Controllability of Systems-Thermal Comfort	1/1
IEQc7.1Thermal Comfort-Design	1/1
IEQc7.2Thermal Comfort-Verification	1/1
IEQc8.1Daylight and Views-Daylight	0/2
IEQc8.2Daylight and Views-Views for Seated Spaces	0/1
INNOVATION IN DESIGN	5 OF 6
	1/1

IDc1.1 Innovation in Design	1/1
	0/1
IDc1.1 Innovation in Design	1/1
Dc1.2 Innovation in Design	0/1
IDc1.2 Innovation in Design	
IDc1.3 Innovation in Design	0/1
IDc1.3 Innovation in Design	1/1
IDc1.4 Innovation in Design	0/1
IDc1.4 Innovation in Design	1/1
IDc1.5 Innovation in Design	0/1
IDc1.5 Innovation in Design	0/1
IDc2 LEED® Accredited Professional	1/1

NAL PRIORITY CREDITS	2 OF 4
	0/1
	1/1
Alternative Transportation-Public Transportation Access	1/1
	0/1
	0/1
	0/1
	NAL PRIORITY CREDITS Site Selection Development Density and Community Connectivity Alternative Transportation-Public Transportation Access Water Use Reduction Optimize Energy Performance-Lighting Power Materials Reuse

TOTAL

66 OF 110

Controller internet	I Building/Infrastructure Request
(on CC-A specify Colorado State University –Fort Collins	
) Agency Colorado State University –Fort Collins	in Capital Renewal Request (Y/N) / HPCP compliance)
And a second	
) Agency ID No. 1-2016	Project M # 2015-073M14
) Agency Priority # 1	
) Project Title Replace Obsolete Fire Alarms-Phase 2 of 2	
3. FACILITY PROFILE	8
Facility Type         Site (Utilities underground)           or Site (Improvements above ground)	
Admin	istration Atmospheric Science, Sage Ha
Risk Mgmt. Bldg(s) ID#	
2) Facility Location Main ASE ASE ASE ASE	Date Built
4) Facility Functional Use/Occupancy Office, classroom, lab	oratory
5) Facility Construction (Type)	Number
6) Facility Physical Condition and Facility Condition Index (FCI	Date of Last Audit
Actual FCI = Targeted FCI =	Date of Last Addit
	Days/Month, Months/Year)
24/30/12	Days/Month, Months/Year)
24/30/12 8) Facility - Current Replacement Value \$	Days/Month, Months/Year)
24/30/12 8) Facility - Current Replacement Value \$ 9) Master Plan Status - Check one or more of the following:	Days/Month, Months/Year)
24/30/12         8) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.	Days/Month, Months/Year)
24/30/12         8) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.         b)       X         Facility 'useful' life is more than five (5) years.	
24/30/12         8) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.         b)       X         Facility 'useful' life is more than five (5) years.         c)       Master Plan is obsolete; Last Date Approved (by Comparison)	SPB/CDHE)
24/30/12         8) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.         b)       X         Facility 'useful' life is more than five (5) years.	SPB/CDHE)
24/30/12         8) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.         b)       X         Facility 'useful' life is more than five (5) years.         c)       Master Plan is obsolete; Last Date Approved (by C         d)       Major facility changes, renovations, or program rev next five years, (If yes, please explain below if thes may have an impact on this CM request.)	SPB/CDHE)
24/30/12         3) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.         b)       X         Facility 'useful' life is more than five (5) years.         c)       Master Plan is obsolete; Last Date Approved (by C         d)       Major facility changes, renovations, or program rev next five years, (If yes, please explain below if thes may have an impact on this CM request.)         10) Facility Audit Survey:	SPB/CDHE) isions are ongoing or anticipated in the se facility renovations or program revisior
24/30/12         3) Facility - Current Replacement Value \$         a) Master Plan Status - Check one or more of the following:         a) Facility 'useful' life is less than five (5) years.         b) X       Facility 'useful' life is more than five (5) years.         c) Master Plan is obsolete; Last Date Approved (by C         d) Major facility changes, renovations, or program rev next five years, (If yes, please explain below if thes may have an impact on this CM request.)         10) Facility Audit Survey:         a) Facility Audit Survey concluded and submitted to SBF	SPB/CDHE) isions are ongoing or anticipated in the se facility renovations or program revision
24/30/12         8) Facility - Current Replacement Value \$         9) Master Plan Status - Check one or more of the following:         a)       Facility 'useful' life is less than five (5) years.         b)       X         Facility 'useful' life is more than five (5) years.         c)       Master Plan is obsolete; Last Date Approved (by C         d)       Major facility changes, renovations, or program rev next five years, (If yes, please explain below if thes may have an impact on this CM request.)         10) Facility Audit Survey:       a)         a)       Facility Audit Survey concluded and submitted to SBF         b)       Status of the Infrastructure Assessment.	SPB/CDHE) isions are ongoing or anticipated in the se facility renovations or program revision
<ul> <li>8) Facility - Current Replacement Value \$ </li> <li>9) Master Plan Status - Check one or more of the following: <ul> <li>a) Facility 'useful' life is less than five (5) years.</li> <li>b) X Facility 'useful' life is more than five (5) years.</li> <li>c) Master Plan is obsolete; Last Date Approved (by Construction) (by Construction), or program revenext five years, (If yes, please explain below if these may have an impact on this CM request.)</li> </ul> </li> <li>10) Facility Audit Survey: <ul> <li>a) Facility Audit Survey concluded and submitted to SBF</li> </ul> </li> </ul>	SPB/CDHE) isions are ongoing or anticipated in the se facility renovations or program revision - Date % Completed 

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Phase 2 of this project will remove and replace obsolete fire alarm system components with up-todate components consistent with Notifier Networked fire alarm notification system in four buildings. There are several code deficiencies that must be addressed to bring the systems up to current fire codes, ADA and local standards, including the addition of digital voice evacuation. Other deficiencies include: insufficient notification appliance coverage, lack of ADA required strobe lights and lack of smoke and heat detectors. Parts are unavailable and are being scavenged from systems that have already been upgraded. Without necessary parts the building alarms will become unreliable and unable to capture and report alarms. If this happens the buildings will have to be closed, resulting in loss of use until the alarms can be upgraded.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 991,188

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

Buildings and occupants are minimally protected with existing obsolete systems in the buildings, but the systems are not at current fire code standards. Specifically,

MRB has two fire alarm panels that are not connected together, one for the basement and one (primary) for the remainder of the building. If a fire happens in one section, the other will not know. Due to the age of the primary panel we can no longer buy parts, and the detectors are at an age where they need to be replaced.

Sage Hall, Atmospheric Science and Administration are older conventional non-addressable fire alarm panels that are not compatible with the Notifier Network reporting lines. They have no (or very limited) automatic detection coverage. In the event of a fire it is highly likely that the fire alarm system would not activate until the building was a complete loss. Due to the age of these panels we can no longer purchase parts, which is becoming a critical problem. None of these buildings meet current NFPA, IFC, or ADA requirements.

4) Mandatory - Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.

5) Optional - Include photographs and any other supporting documents.

6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This project will upgrade fire alarms to current code requirements, tie into the campus-wide Notifier system and improve detection and notification in the buildings. This will improve safety for the building occupants and protect buildings from loss of use in the event of an undetected fire, or loss of fire alarm notification.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase? 1 of 2
3) Method and Date of Estimate	CSU estimate 7/12/13, with 2.3% inflation adjustment allowed
	by OSPB

#### 4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	\$80,154
Code Review/Inspection:	\$3,000
Other (Explain): PM Services as allowed by HB14-1387	16,386
Total of Professional Services:	\$99,540

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	sf, cf, lf, etc.	in the second	
Infrastructure	and the standard		
a) Utility Services:			
b) Site Improvements:			
Structure/Systems/Components			
MRB	86,440	4.33	374,285
Administration	30,622	4.66	142,699
Atmospheric Science	33,503	4.66	156,124
Sage Hall	5,516	4.33	23,884
Other(explain):			
Contractor's General Conditions:			48,789
Contractor's Overhead & Profit:			55,759
Total of Construction Improvement Costs:		自由 静脉脉 (目前多	\$801,540

5a) Total square feet/lineal feet of Construction Improvement area:156,0815b) Overall cost per square foot/lineal foot of construction Improvement:5.14

6) Miscellaneous (explain)

Total of Miscellaneous Costs: \$

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$90.1
	+
improvements, and miscellaneous costs.)	

\$90,108

8) Total Cost of the Project (single phase) or Total for this specific Phase of all	\$991,188
professional services (4), construction improvements(5), miscellaneous	20
costs(6), and project contingency(7)	

Note: Agency formatted cost estimates may accompany this page.

## E. PROPOSED PHASING

# PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		
	FY 2012/2013		
	FY 2013/2014		
	FY 2014/2015	Phase 1	753,948
	2	(Subtotal	\$753,948

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount
M#	Assent network?	No. A sportuel incompositioned	(Per Detailed Budget)
	FY 2015/2016	Phase 2 of 2	\$991,188

# FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017		\$
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	CARL A CONTRACT	(Subtotal)	\$

(Subiolar)

\$ 1,745,136

# TOTAL PROJECT DOLLAR AMOUNT

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

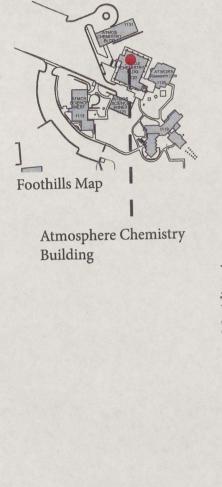
<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount. <sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate

subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)	7/1/2015	10/1/2015
2. Design (Insert Dates)	11/1/2015	3/1/2016
3. Construction (Insert Dates)	4/1/2016	4/1/2017
4. Project Close-out/Final Completion	5/1/2017	8/1/2017

# Colorado State University- Main Campus Replace Obsolete Fire Alarms



Molecular and Radiological Biosciences



Building Name:Mol. & Rad. Biosci.Number:0155Construction Date:1989Gross Square Feet:87,670Net Square Feet:79,244Date of Audit:02/23/2009Cycle:6Phase:3No. of Stories:4Classification:M150College, LaboratorySBP Class:11Science

Replacement Cost:	\$17,932,486.45	Cost Per SF:	\$204.55	
Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.1000	0.07	0.0070	\$125,527.41
Ext Walls	0.1000	0.06	0.0060	\$107,594.92
Floors	0.2000	0.07	0.0140	\$251,054.82
Roof	0.1400	0.06	0.0084	\$150,632.88
Ceiling	0.0300	0.03	0.0009	\$16,139.24
Int Walls	0.0350	0.09	0.0032	\$56,487.33
Windows	0.0300	0.02	0.0006	\$10,759.49
Doors	0.0850	0.02	0.0017	\$30,485.23
Cool Vent	0.2100	0.07	0.0147	\$263,607.54
Heat	0.1500	0.06	0.0090	\$161,392.36
Plumbing	0.1600	0.14	0.0224	\$401,687.69
	0.0650	0.07	0.0045	\$81,592.81
Electrical	0.2700	0.01	0.0027	\$48,417.71
Convey	0.0200	0.01	0.0002	\$3,586.50
Safety AE/OP	0.0953	0.18	0.0172	\$307,613.88

**Component Deficiency Total:** 

Outstanding Maintenance: \$2,016,579.82

Facilities Condition Index (FCI): 88.75

0.1125

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013

Building Name: Administration Number: 0080						
Construction Date: 1924 Gross Square Feet: 32,172 Net Square Feet: 29,311						
Date of Audit: 11/03	2008 Cycle: 6	Phase: 3 No. o	f Stories: 3			
Classification: M460	Office Building	SBP Cla	ss: 16 Office			
Replacement Cost:	\$4,004,603.27	Cost Per SF:	\$124.47			
Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost		
Foundation	0.2000	0.02	0.0040	\$16,018.41		
Ext Walls	0.1500	0.09	0.0135	\$54,062.15		
Floors	0.1500	0.16	0.0240	\$96,110.48		
Roof	0.1000	0.03	0.0030	\$12,013.81		
Ceiling	0.1000	0.05	0.0050	\$20,023.02		
Int Walls	0.2000	0.05	0.0100	\$40,046.03		
Windows	0.3000	0.02	0.0060	\$24,027.62		
Doors	0.2500	0.05	0.0125	\$50,057.54		
Cool Vent	0.0900	0.07	0.0063	\$25,229.00		
Heat	0.0900	0.08	0.0072	\$28,833.14		
Plumbing	0.2000	0.02	0.0040	\$16,018.41		
Electrical	0.1500	0.12	0.0180	\$72,082.85		
Convey	0.3500	0.03	0.0105	\$42,048.33		
Safety	0.4000	0.01	0.0040	\$16,018.41		
AE/OP	0.1280	0.18	0.0230	\$92,266.06		

0.1510 **Component Deficiency Total:** 

\$604,855.28 **Outstanding Maintenance:** Facilities Condition Index (FCI):

84.90

FCI = (1-Component Deficiency Total) x 100 AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013

Building Name: Atmospher	ic Science	Number: 1120
Construction Date: 1967	Gross Square Feet: 37,079	Net Square Feet: 31,042
Date of Audit: 02/22/2010	Cycle: 7 Phase: 1 No. o	f Stories: 4
Classification: M460 Office	Building SBP Cla	ss: 11 Science
Replacement Cost: \$4,594	4,410.69 · Cost Per SF:	\$123.91

Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.2000	0.02	0.0040	\$18,377.64
Ext Walls	0.0500	0.09	0.0045	\$20,674.85
Floors	0.0500	0.16	0.0080	\$36,755.29
Roof	0.0200	0.03	0.0006	\$2,756.65
Ceiling	0.3500	0.05	0.0175	\$80,402.19
Int Walls	0.4500	0.05	0.0225	\$103,374.24
Windows	0.4000	0.02	0.0080	\$36,755.29
Doors	0.3000	0.05	0.0150	\$68,916.16
Cool Vent	0.2000	0.09	0.0180	\$82,699.40
Heat	0.2100	0.09	0.0189	\$86,834.36
Plumbing	0.2500	0.02	0.0050	\$22,972.05
Electrical	0.4760	0.12	0.0571	\$262,432.73
Convey	0.2000	0.03	0.0060	\$27,566.46
Safety	0.3000	0.01	0.0030	\$13,783.23
AE/OP	0.1881	0.18	0.0339	\$155,574.11

Component Deficiency Total:

Outstanding Maintenance:\$1,019,874.66Facilities Condition Index (FCI):77.80

0.2220

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013

			Number: 0063			
Building Name: Sa						
Construction Date:	1985 Gross Squar	re Feet: 5,873	Net Square Feet:	4,646		
Date of Audit: 10/01/2007 Cycle: 6 Phase: 2 No. of Stories: 1						
Classification: M15	50 College, Laboratory	SBP Cla	ss: 11 Science			
Replacement Cost:	\$1,124,850.99	Cost Per SF:	\$191.53			
Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost		
Foundation	0.1500	0.07	0.0105	\$11,810.94		
Ext Walls	0.1500	0.06	0.0090	\$10,123.66		
Floors	0.2500	0.07	0.0175	\$19,684.89		
Roof	0.6500	0.06	0.0390	\$43,869.19		
Ceiling	0.1000	0.03	0.0030	\$3,374.55		
Int Walls	0.0500	0.09	0.0045	\$5,061.83		
Windows	0.0500	0.02	0.0010	\$1,124.85		
Doors	0.1000	0.02	0.0020	\$2,249.70		
Cool Vent	0.1200	0.07	0.0084	\$9,448.75		
Heat	0.1200	0.06	0.0072	\$8,098.93		
Plumbing	0.1800	0.14	0.0252	\$28,346.24		
Electrical	0.4400	0.07	0.0308	\$34,645.41		
Safety	0.3000	0.02	0.0060	\$6,749.11		
AE/OP	0.1641	0.18	0.0295	\$33,225.85		

**Component Deficiency Total:** 

0.1936

**Outstanding Maintenance:** \$217,813.89 80.64 Facilities Condition Index (FCI):

FCI = (1-Component Deficiency Total) x 100 AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013



To: Steve Hultin Facilities 491-0006 132 Fac North

**Remodel Services** 

110 T

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3

**Facilities Service Center North** 

# **Budget** Opinion

This is only for Budgetary consideration only. Price may change after design is completed · Customer ID#

Date: 07/12/13 Project #: CMFY15001 6030 Expiration Date: 10/10/2013

Tony Flores	491-0589	Campus Multi buildings fire alarm upgrades		nga nagalannyan sa ana ana ana ana ana ana ana ana an		er and a second
	S Preservation and		UA CAR		17	Total
86440.00	Labor/Material	Upgrade MRB fire alarm system to campus voice	\$ 5.	IØ		440,844.00
	* ·····	activated standard, code, and ADA requirements		and and a second s	1	n ongen granden van de sender sonder sonde fan en eenen open
30622.00	Labor/Material	Upgrade Administration fire alarm system to campus	5.	50		168,421.00
		voice activated standard, code, and ADA requirements			aprillan an	a Anna an
62750.00	Labor/Material	Upgrade Pathology fire alarm system to campus	51	50		345,125.00
· · · · · · · · · · · · · · · · · · ·	S or an operation of the second second	voice activated standard, code, and ADA requirements			Con surveyer	an yana ku
5516.00	Labor/Material	Upgrade Sage Hall fire alarm system to campus	5.1	10		28,131.60
•		voice activated standard, code, and ADA requirements				C. House and a second second
10840.00	Labor/Material	Upgrade Voc Ed fire alarm system to campus	54	25		56,910.00
		voice activated standard, code, and ADA requirements				
33503.00	Labor/Material	Upgrade Atmospheric Sci. fire alarm system to campus	5.2	25		175,890.75
	A	voice activated standard, code, and ADA requirements				
•		1				
				and the second second		
			Co	nstruction Subtotal		1,215,322.35
Alternative Constant		₩ ••••• ••••• ••••• ••••• •••••		Contingency		36,459.67
	A company company	Design fees	4	ann ge seileite Africa Balling, saaren "'' ''''''	\$	60,766.12
		Third Party Code review				3,266.77
		Code Inspections			\$	607,66
			PM Fees	-	\$	38,282.65

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

This is a cost opinion on the Project named, subject to the conditions noted below: 1. Packing of book shelves or files priory to moving is not included. 2. Aubertos or Lead hazard seessment or abatement is not-inverted uives stated 3. This quote does not cover the activation of phone and Data lines the customer

State Purchasing Regulations require all single Purchase orders over \$50,000

will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager.

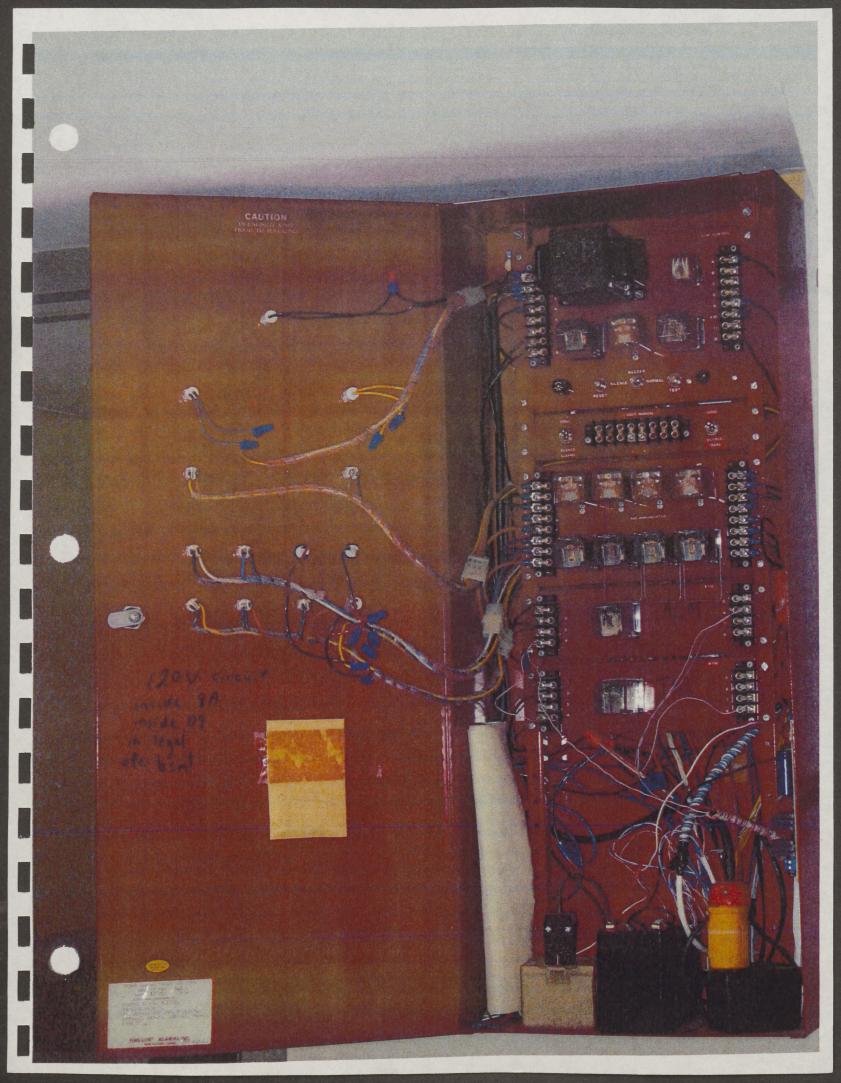
\$ 83,174.22

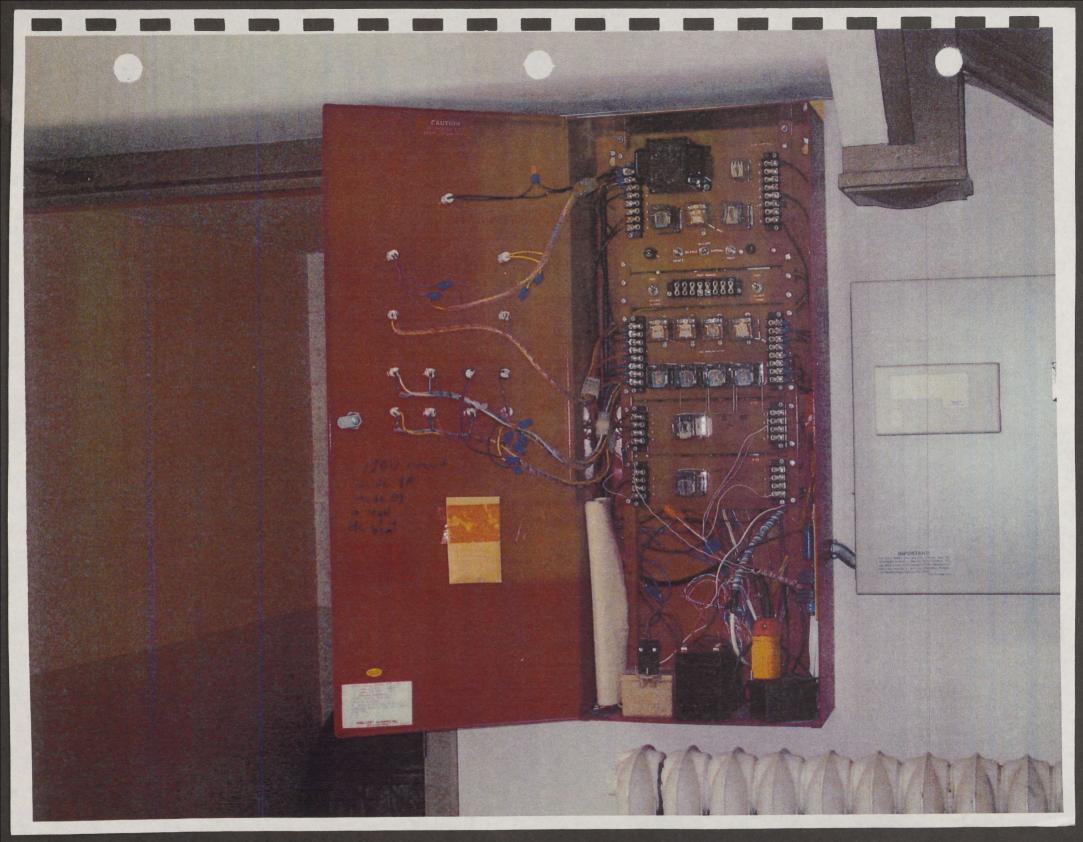
1,354,705.23

Total \$

251 Edison Dr., Fort Collins, CO 80523-6030

Thank you for your business!





	Controlled Maintenance Request	HPCP required in Capi	ing/Infrastructure Request ital Renewal Request (Y/N)
		(on CC-A specify HPCP	compliance)
1) Ao	ency Colorado State Univer		
and the second	partment Higher Education		· · · · ·
Chapter Carlo Mala	ency ID No. 2-2016	P	roject M #
1961 200	ency Priority # 1		
5) Pr	oject Title Replace deteriorated	domestic water lines Main Cam	ipus
BE	ACILITY PROFILE		
	cility Type X Site (Utilities und	lerground) AO asker a	
.,		ments above ground)	
	or Building Name	e (s)	
	Risk Mgmt. Bldg	(s) ID#	
2) Fa	cility Location Main Campus	100-00 00144 004-0-99	
3) Fa	cility Area/Age GSF	ASF	Date Built
4) Fa	cility Functional Use/Occupancy		
	cility Construction (Type)		
o) ⊦a			
5) Fa 6) Fa	cility Physical Condition and Facility	y Condition Index (FCI) Numbe	realized and a sub-states of the second seco
6) Fa	cility Physical Condition and Facility	y Condition Index (FCI) Numbe sted FCI =	nr Date of Last Audit
6) Fa Act	cility Physical Condition and Facility tual FCI = Targe escribe)	eted FCI =	Date of Last Audit
6) Fa Act (De (De 7) Fa 24/	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of 0	eted FCI = Operation: (Hours/Day, Days/M	Date of Last Audit
6) Fa Act (De (De 7) Fa 24/	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of C	eted FCI = Operation: (Hours/Day, Days/M	Date of Last Audit
6) Fa Ac (De (De 7) Fa 24/ 8) Fa	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of 0 /30/12 cility - Current Replacement Value	eted FCI = Operation: (Hours/Day, Days/M	Date of Last Audit
6) Fa Ac (De (De 7) Fa 24/ 8) Fa	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of 0	operation: (Hours/Day, Days/M \$ ore of the following:	Date of Last Audit
6) Fa Act (De (De 7) Fa 24/ 8) Fa	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of C /30/12 cility - Current Replacement Value aster Plan Status - Check one or mo Facility 'useful' life is less tha X Facility 'useful' life is more th	<pre>pited FCI = Dperation: (Hours/Day, Days/M \$</pre>	Date of Last Audit onth, Months/Year)
6) Fa Act (De (De 7) Fa 24/ 8) Fa 9) Ma a)	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of 0 (30/12 cility - Current Replacement Value aster Plan Status - Check one or mo Facility 'useful' life is less tha X Facility 'useful' life is more th Master Plan is obsolete; Las	Deperation: (Hours/Day, Days/M S ore of the following: an five (5) years. tan five (5) years. t Date Approved (by OSPB/CD	Date of Last Audit onth, Months/Year) HE)
5) Fa Act (De (De 24/ 3) Fa 23) Fa a) Ma a) b)	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of 0 /30/12 cility - Current Replacement Value aster Plan Status - Check one or me Facility 'useful' life is less tha X Facility 'useful' life is more th Master Plan is obsolete; Las	Dperation: (Hours/Day, Days/M	Date of Last Audit onth, Months/Year) HE) e ongoing or anticipated in the
5) Fa Act (De (De 24/ 3) Fa a) Ma a) Ma a) b) C) d)	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of Q (30/12 cility - Current Replacement Value aster Plan Status - Check one or me Facility 'useful' life is less that X Facility 'useful' life is nore the Master Plan is obsolete; Lass Major facility changes, renov next five years, (If yes, pleas may have an impact on this of	Dperation: (Hours/Day, Days/M	Date of Last Audit onth, Months/Year) HE) e ongoing or anticipated in the
5) Fa Act (De (De (De 24/ 3) Fa 24/ 3) Fa a) Ma a) b) C) c) d)	cility Physical Condition and Facility tual FCI = Targe escribe) cility - Intensity of Use, Time(s) of C '30/12 cility - Current Replacement Value aster Plan Status - Check one or mo Facility 'useful' life is less tha X Facility 'useful' life is more th Master Plan is obsolete; Las Major facility changes, renov next five years, (If yes, pleas may have an impact on this of facility Audit Survey:	Deperation: (Hours/Day, Days/M Coperation: (Hours/Day, Days/M s ore of the following: an five (5) years. tan five (5) years. t Date Approved (by OSPB/CD rations, or program revisions ar se explain below if these facility CM request.)	Date of Last Audit onth, Months/Year) HE) e ongoing or anticipated in the
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N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Install approximately 2,200 linear feet of water main under the Colorado State University Oval. Existing lines date from the founding of the University in the late 1800's. The original lining of these mains has eroded away and all show significant tuberculation growth, reducing both capacity and water quality. CSU has to constantly flush these lines to maintain acceptable water quality.

New lines will be directionally bored under Oval Drive in order to minimize the impact of construction to the historic elms growing throughout this area, and additional valving will be installed at all interconnections. New line will be extended to current dead leg at the Glover Building.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 761,381

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

Water line breakage will shut down 12 buildings on Main Campus until repairs can be made. Drinking water quality will continue to deteriorate, requiring more frequent flushing of the system in order to meet regulations. If water quality cannot be maintained buildings may need to be vacated.

4) Mandatory - Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.

- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

These new lines will improve water quality as well as system reliability, operability, and pressure. This project will also install valves to isolate the branch lines, which the current water main lacks.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By 2) Phase? 1 of 1

3) Method and Date of Estimate CSU estimate 7/22/13

4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	129,955
Code Review/Inspection:	2,060
Other (Explain):	
Total of Professional Services:	\$132,015

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	sf, cf, lf, etc.		
Infrastructure			
a) Utility Services:	2,200	\$228.70	417,615
b) Site Improvements:			and and a second
Structure/Systems/Components		and the second second	
Admin Building service connection	1 ea	\$26,560	26,560
Other(explain):			
Allowance for repair/relocate adjacent utilities	1 ea	\$20,750	20,750
Contractor's General Conditions:			44,812
Contractor's Overhead & Profit:			50,413
Total of Construction Improvement Costs:		ng Base daa waa	\$560,150

5a) Total square feet/lineal feet of Construction Improvement area:2,3405b) Overall cost per square foot/lineal foot of construction Improvement:239.38

6) Miscellaneous (explain)

	all in the second	
Total of Miscellaneous Costs:		\$

7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$69,216
improvements, and miscellaneous costs.)	

 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7)
 \$761,381

Note: Agency formatted cost estimates may accompany this page.

### E. PROPOSED PHASING

# PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2010/2011		
	FY 2011/2012		
	FY 2012/2013		
	FY 2013/2014		
		(Subtotal)	\$

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount
M#	A Alexandre		(Per Detailed Budget)
	FY 2014/2015	Phase 1 of 1	\$761,381

# FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed
IVI#	and the second second		Budget)
	FY 2015/2016		
	FY 2016/2017	P.	
	FY 2017/2018		
20 7-27 11	FY 2018/2019		
*		(Subtotal)	\$

(Sublolal)

\$ 761,381

# TOTAL PROJECT DOLLAR AMOUNT

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

- <sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
- <sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)	7/1/2014	10/1/2014
2. Design (Insert Dates)	11/1/2014	3/1/2015
3. Construction (Insert Dates)	4/1/2015	4/1/2016
4. Project Close-out/Final Completion	5/1/2016	8/1/2016

A. A	GENCY BAS	SIC DATA:			
X	W - Burrent - Warrent - Barrent - Ba	d Maintenance		Capital Renewal Building	/Infrastructure Request
	Request			HPCP required in Capital	Renewal Request (Y/N)
				(on CC-A specify HPCP co	mpliance)
1) Ac	jency	Colorado State Un	iversi	ty –Fort Collins	
P. C. P. LEWIS	epartment	Higher Education			
3) Ag	ency ID No.	2-2016		Proje	ect M #
4) Ac	gency Priority	/ # 1			
	oject Title	Replace deteriorat	ed do	omestic water lines Main Campu	s
					, ) /
A. Contraction	ACILITY PF		unde	(hannad)	Y
1) Fa	acility Type	X Site (Utilities			V/
				ents above ground)	
		or Building N		$\wedge$	
		Risk Mgmt. E		) ID#	
No. Contraction of the	acility Locatio			ASF	Date Built
	acility Area/A				
- Constant of the second second		onal Use/Occupancy	/		
5) Fa	acility Constr	uction (Type)	cility	Condition Index (FCI) Number	
	acility Physic stual FCI =		argete	ed FCI =	ate of Last Audit
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	escribe)			a pr- 14	$\varphi$ //
				2400	or U
		ſ	1	NT CAL	X
L			all	tions (Hours (Day Days (Mon	th Months/Year)
		sity of Use, Time(s)	OFO	peration: (Hours/Day, Days/Mon	
	4/30/12		-	<u></u>	
		ent Replacement Va			
9) N	laster Plan S	tatus - Check one o	mo	re of the following.	
a	Facili	ity 'useful' life is less	than	Tive (5) years.	
b	) X Facili	ity 'useful' life is more	e tha	n five (5) years.	=)
C)	Mast	er Plan is obsolete;	Last	Date Approved (by OSPB/CDHI ations, or program revisions are of	-/
d	) Majo	r facility changes, re	ease	explain below if these facility re	novations or program revisions
	max	have an impact on	his C	CM request.)	
	and the second second second				
	Facility Audit	t Survey	hed :	and submitted to SBP -	Date
		of the Infrastructure			% Completed
			ASSE	Sillent	
44)	List all the ou	Audit Survey Cycle	ice c	apital construction, and emerger	ncy projects completed within
11)	the last five	vears or ongoing pr	oject	s that can be associated with eit	her this CM building or
	infrastructur	e request.			
		Desire et Title			Completion date or status
Pro	ject No.	Project Title			

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Install approximately 2,200 linear feet of water main under the Colorado State University Oval. Existing lines date from the founding of the University in the late 1800's. The original lining of these mains has eroded away and all show significant tuberculation growth, reducing both capacity and water quality. CSU has to constantly flush these lines to maintain acceptable water quality.

New lines will be directionally bored under Oval Drive in order to minimize the impact of construction to the historic elms growing throughout this area, and additional valving will be installed at all interconnections. New line will be extended to current dead leg at the Glover Building.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 778,893

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

Water line breakage will shut down 12 buildings on Main Campus until repairs can be made. Drinking water quality will continue to deteriorate, requiring more frequent flushing of the system in order to meet regulations. If water quality cannot be maintained buildings may need to be vacated, resulting in loss of use. Potential for cross contamination of water lines, which is a health and life safety issus.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

These new lines will improve water quality as well as system reliability, operability, and pressure. This project will also install valves to isolate the branch lines, which the current water main lacks.

D. <u>DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)</u>

1) Approved By	2) Phase? 1 of 1
3) Method and Date of Estimate	CSU estimate 7/22/13 increased by 2.3% inflation as allowed
	by OSPB

#### 4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	49,000
Code Review/Inspection:	3,000
Other (Explain):PM services as allowed under HB14-1387	8,427
Total of Professional Services:	\$60,427

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	sf, cf, lf, etc.	LANT BUILT	
Infrastructure		The second second	
a) Utility Services:	2,200	\$233.96	514,712
		Constant and	
b) Site Improvements:			
Structure/Systems/Components		and the second sec	
Admin Building service connection	1 ea	\$27,171	27,171
Other(explain):			
Allowance for repair/relocate adjacent utilities	1 ea	\$21,227	21,227
Contractor's General Conditions:			39,418
Contractor's Overhead & Profit:			45,048
Total of Construction Improvement Costs:			\$647,577

5a) Total square feet/lineal feet of Construction Improvement area: 2,3	340
5b) Overall cost per square foot/lineal foot of construction Improvement: 27	76.74

6) Miscellaneous (explain)

		Section and the section of the	States and States		
Total of Mi	scellaneous	Costs:	PROPERTY AND A STREET		\$

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$70,889
improvements, and miscellaneous costs.)	

Note: Agency formatted cost estimates may accompany this page.

# E. PROPOSED PHASING

# PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		
	FY 2012/2013		
	FY 2013/2014		
	FY 2014/2015		

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proi	Fiscal Year	Phase of Work	Dollar Amount
Proj. M#	Listan databas	Last south an include (OS)	(Per Detailed
	ACTAR REPERT		Budget)
an a	FY 2015/2016	Phase 1 of 1	\$778,893
	FT 2013/2010	1110001011	

# FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
- to the second second	and the second second second	(Subtotal)	\$

(Subtotal)

\$ 778,893

# TOTAL PROJECT DOLLAR AMOUNT

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

- <sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
- <sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

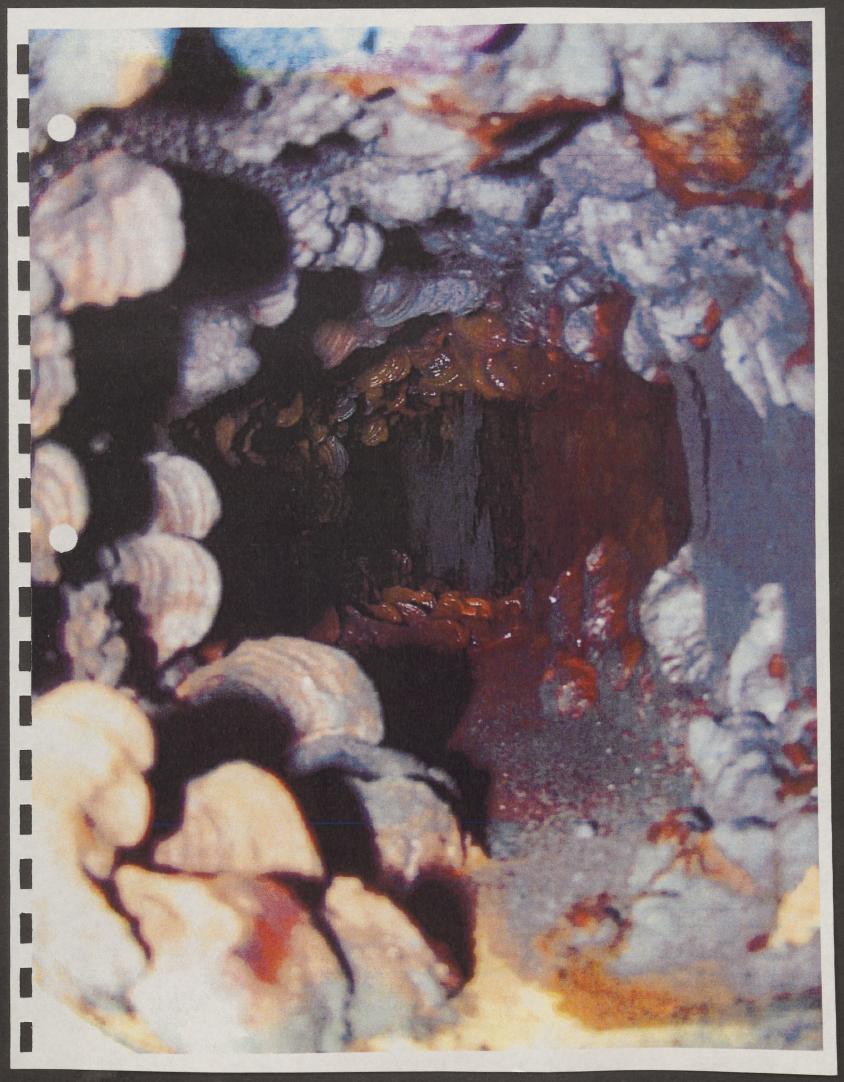
PHASE	FROM	TO
1. Pre-Design (Insert Dates)	7/1/2015	10/1/2015
2. Design (Insert Dates)	11/1/2015	3/1/2016
3. Construction (Insert Dates)	4/1/2016	4/1/2017
4. Project Close-out/Final Completion	5/1/2017	8/1/2017



Water System

PROPOSED WATER LINE PROPOSED WATER VALVE







Steve Hultin Facilities 491-0006

Remodel Services Facilities Service Center North Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed 
 Date:
 07/22/13

 Project #:
 CMFY15005

 Customer ID#
 6030

 Expiration Date:
 10/20/2013

Keven Carroll	491-6234	CMFY15005 Domestic Water Utility Replacement		
[:		Install 2200 linear feet of water main around the Oval. Install 2800 feet of 6" HDPE waterline via directional bore method. Connect to existing, install valve as required. Includes connecting to service feeding the Adminstation building.		
1.00	Contractor	6" HDPE Pipe, materail, install, directional boring, fitting fittings, valves and connections. Includes, mobilization locates, potholes, BT testing, hard and soft scapes repairs/replacements, traffic and pedestrain control.	503,150.00	503,150.00
1.00	Contractor	Add for Administration building service/connection	32,000.00	32,000.00
1.00	Contractor	Repair/reroute as required for other utilitys	25,000.00	25,000.00

	Construction Subtotal	560,150.00
	Contingency	56,015.00
Design fee	s	\$ 67,218.00
Third Party Code review	N	1,694.36
Code Inspection	15	\$ 365.75
	PM Fees	\$ 62,736.80
This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.	Advertisement fees Total	\$ 748,179.91
This is a cost opinion on the Project named, subject to the conditions noted below: 1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer will need to contact. Telecom to activate lines		

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of Sherry McElwain.

\$100,280.76

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

To:

						ding/Infractructure Dequest
100000000000000000000000000000000000000			intenance		Capital Renewal Buil	
	Reque	est			HPCP required in Ca (on CC-A specify HPC	pital Renewal Request (Y/N) CP compliance)
1) Age	nev	Cold	orado State U	niversit	ty –Fort Collins	
Contraction of the second second	bartme	and the second s	ner Education			
and the second	ency ID	La Contraction	2016			Project M #
	A Designation	the second second	48.	1000		
Par Allar Che of	A CONTRACTOR OF A		1	ost Do	of Replacement	
5) Proj	ject Tit	e Pail	iter Ceriter w	651110	orreplacement	
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Rad Children and Server			or Site (Imp	oveme	ents above ground)	
		X	or Building I	lame (	s) Painter Center	
			Risk Mgmt.	Bldg(s)	) ID#	
2) Fac	ility Lo	cation	Main Campu	S		
3) Fac	cility Ar	ea/Age	GSF		ASF	Date Built
4) Fac	ility Fu	nctional L	Jse/Occupan	cy V	ivarium, office	and the second
5) Fac	ility Co	onstruction	n (Type)			
6) Fac	ility Ph	vsical Co	ndition and F	acility (	Condition Index (FCI) Num	ber and subserve the set of the second
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SBP CM-3, updated 5-2013

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Remove and replace deteriorated roofing components with up-to- date roofing systems. The project will include design and replacement of materials to facilitate better drainage and reduced water pooling. Replace insulation that has been damaged by previous leaks and/or does not meet current energy code. Dry in the roof with 20 mil membrane per engineered specifications to meet an 80 mph wind lift and a twenty year material warranty.

- 2) Total Project Cost Estimate (From Cost Breakdown) \$ 157,351
- 3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The Painter Center is a BSL3 laboratory facility and vivarium experiencing multiple roof leaks. The roof requires increasing amounts of time and resources to repair leaks, and is in need of replacement. Extensive roof leaks can compromise the BSL3 laboratories, which is a health and life safety concern. Since the Painter Center is the main vivarium for research animals on main campus, roof leaks could require relocation of animals to the Foothills campus, resulting in loss of research.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This work will completely replace the West Roof section on the Painter Center.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase? 1 of 1
3) Method and Date of Estimate	CSU estimate 7/17/2013 escalated by 2.3% as allowed by
A CONCERNMENT OF THE PARTY OF T	OSBP

#### 4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	26,700
Code Review/Inspection:	1,258
Other (Explain):	
Total of Professional Services:	\$27,958

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	sf, cf, lf, etc.	and the pass	MALE I
Infrastructure			
a) Utility Services:			,
b) Site Improvements:			
Structure/Systems/Components	7500 sf	12.74/sf	95,523
Other(explain):			
Contractor's General Conditions:			9,207
Contractor's Overhead & Profit:			10,358
Total of Construction Improvement Costs:			\$115,088

5a) Total square feet/lineal feet of Construction Improvement area:	7500
5b) Overall cost per square foot/lineal foot of construction Improvement:	15.35

6) Miscellaneous (explain)

	and the second second	and an and a second
	and the second	
Total of Miscellaneous Costs:		\$

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$14,305
improvements, and miscellaneous costs.)	Alter Statistics

o) Total Cost of the Troject (Single phace) of Total for the operation	\$157,351	
professional services (4), construction improvements(5), miscellaneous		
costs(6), and project contingency(7)		

Note: Agency formatted cost estimates may accompany this page.

# E. PROPOSED PHASING

# PRIOR PHASING<sup>1</sup>

Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
FY 2011/2012		
FY 2012/2013		
- FY 2013/2014		
FY 2014/2015		
	FY 2011/2012 FY 2012/2013 FY 2013/2014	

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proi.	Fiscal Year	Phase of Work	Dollar Amount
Proj. M#			(Per Detailed
A SCHOOL ST			Budget) \$157.351
	FY 2015/2016	Phase 1 of 1	\$157,351

# FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
		(Subtotal)	\$

(Subtotal)

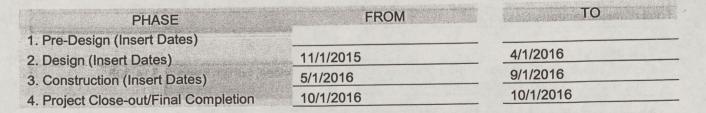
\$ 157,351

# TOTAL PROJECT DOLLAR AMOUNT

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

- <sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
- <sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):



\$

Building Name:John E. Painter Center for Lab AnimalsNumber:0144Construction Date:1980Gross Square Feet:31,139Net Square Feet:27,591Date of Audit:01/02/2008Cycle:6Phase:2No. of Stories:1Classification:M330Hospital,1-3StorySBP Class:11ScienceReplacement Cost:\$4,257,641.70Cost Per SF:\$136.73

Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.0500	0.02	0.0010	\$4,257.64
Ext Walls	0.0500	0.08	0.0040	\$17,030.57
Floors	0.0500	0.12	0.0060	\$25,545.85
Roof	0.3300	0.04	0.0132	\$56,200.87
Ceiling	0.4000	0.03	0.0120	\$51,091.70
Int Walls	0.1000	0.08	0.0080	\$34,061.13
Windows	0.2000	0.01	0.0020	\$8,515.28
Doors	0.2500	0.05	0.0125	\$53,220.52
Cool Vent	0.4500	0.07	0.0315	\$134,115.71
Heat	0.6400	0.02	0.0128	\$54,497.81
Plumbing	0.2900	0.12	0.0348	\$148,165.92
Electrical	0.2490	0.07	0.0174	\$74,210.69
Safety	0.2500	0.03	0.0075	\$31,932.31
AE/OP	0.1627	0.20	0.0325	\$138,569.21

Component Deficiency Total: 0.1953

53

Outstanding Maintenance:\$831,415.22Facilities Condition Index (FCI):80.47

 $FCI = (1-Component Deficiency Total) \ge 100$ AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013



To:

# Budget Opinion

Remodel Services Facilities Service Center North

> Mike Rice Facilities Management 491-0032

This is only for Budgetary consideration only. Price may change atter design is completed 
 Date:
 07/17/13

 Project #:
 CMFY 15008

 Customer ID#
 6030

 Expiration Dat 10/15/2013

\$ 20,430.00

P.M.	Phone #	Project title			
Barry Willier	567-6709	Painter building West Roof Section Replacment			
Ouantity	Labor/Material	Description	Unit Price	Less received	Line Total
1.00	Roof	Remove exisitng and install new roof. Includes	\$ 112,500.00		112,500.00
	West	reomval of roof membrane, roof insulation down to			
	Section	roof substructure. Install and attach new roof insulation			
		to provide pitch for water drainage and install new 60			
		mill EPDM roof membrane with 20 year warranty.			
		Roof size is approx. 7500 sq.ft.			

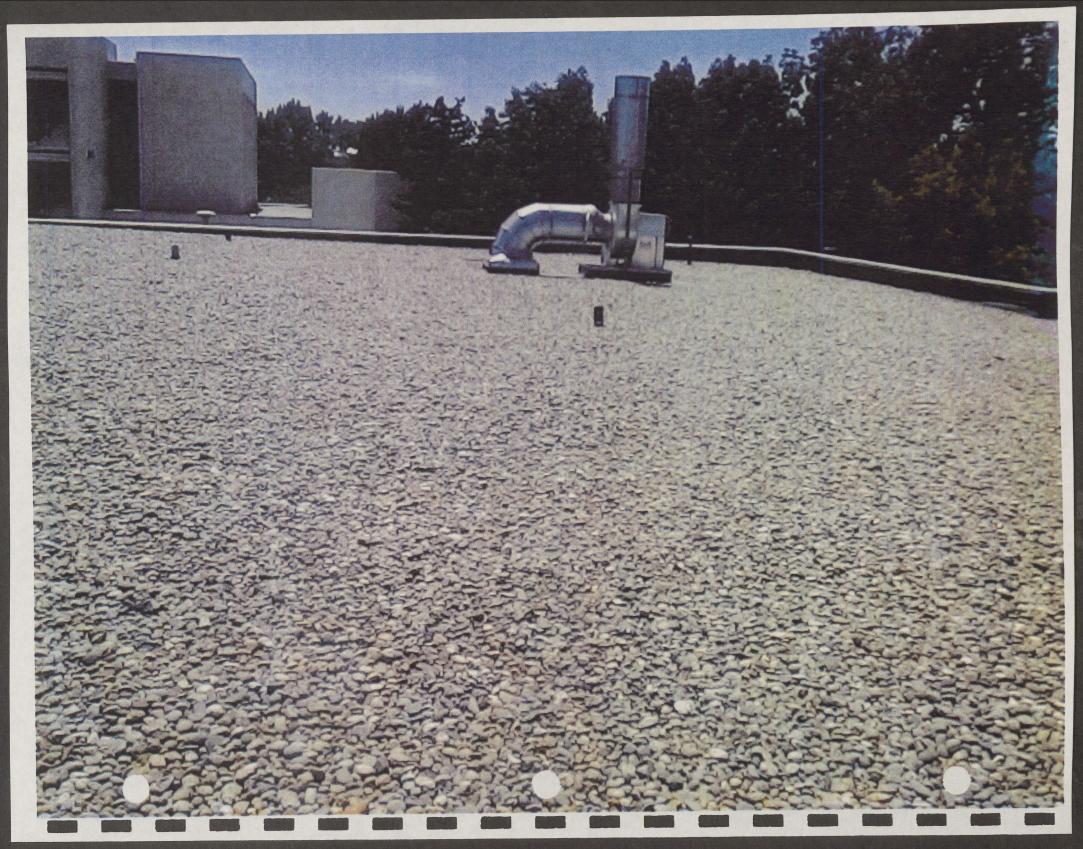
		and from the the same training	a stand, see "
	Construction Subto	tal 112,	500.00
	Contingen	cy 11,	250.00
Design fee	S	\$ 13,	500.00
Third Party Code review	v	No and Anna	630.00
Code Inspection	s	\$	600.00
	PM Fees	\$ 12,	600.00
This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.	Advertisement fees	otal <b>\$ 151,</b>	080.00
This is a cost opinion on the Project named, subject to the conditions noted below: 1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer will need to contact Telecom to activate lines If you wish to proceed submit a Kuali Transfer of Funds document for the			

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030





Controlled Maintenan Request	ce Capital I	Renewal Building/Infrastructure Request
Request		
		equired in Capital Renewal Request (Y/N) A specify HPCP compliance)
) Agency Colorado Sta	e University –Fort Coll	lins
2) Department Higher Educa	tion	医生产的 医磷酸化物 医甲基苯基酸 建二化
3) Agency ID No.		Project M #
4) Agency Priority # 4-2016		4 (1.) (1.)
5) Project Title Chemistry H	AC upgrade	
B. FACILITY PROFILE	ities underground)	all and the
	mprovements above g	
	and the second of the second o	emistry A, B and C wings
	mt. Bldg(s) ID#	
2) Facility Location Main Ca		
3) Facility Area/Age GSF	AS	F Date Built
4) Facility Functional Use/Occu	Consideration in the second se	
5) Facility Construction (Type)		Joint, laboratory
6) Facility Physical Condition a	d Eacility Condition In	dex (ECI) Number
Actual FCI = 71.23	Targeted FCI = 90	
(Describe)		
7) Facility - Intensity of Use, Tir	1e(s) of Operation: (Ho	ours/Day, Days/Month, Months/Year)
7) Facility - Intensity of Use, Tir 24/30/12		ours/Day, Days/Month, Months/Year)
7) Facility - Intensity of Use, Tir 24/30/12 8) Facility - Current Replaceme	nt Value \$	
7) Facility - Intensity of Use, Tir 24/30/12 8) Facility - Current Replaceme 9) Master Plan Status - Check	nt Value \$ one or more of the follo	wing:
<ol> <li>7) Facility - Intensity of Use, Tin 24/30/12</li> <li>8) Facility - Current Replacement</li> <li>9) Master Plan Status - Check</li> <li>a) Facility 'useful' life in</li> </ol>	nt Value \$ one or more of the follo less than five (5) year	owing:
<ul> <li>7) Facility - Intensity of Use, Tir 24/30/12</li> <li>8) Facility - Current Replacement</li> <li>9) Master Plan Status - Check <ul> <li>a) Facility 'useful' life is</li> <li>b) X Facility 'useful' life is</li> </ul> </li> </ul>	nt Value \$ one or more of the follo less than five (5) year more than five (5) yea	owing:
<ul> <li>7) Facility - Intensity of Use, Tir 24/30/12</li> <li>8) Facility - Current Replacements</li> <li>9) Master Plan Status - Check <ul> <li>a) Facility 'useful' life is</li> <li>b) X Facility 'useful' life is</li> <li>c) Master Plan is obsolved</li> <li>d) Major facility chang next five years, (If years)</li> </ul> </li> </ul>	nt Value \$ one or more of the follo less than five (5) year more than five (5) yea lete; Last Date Approv	owing:
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<ul> <li>7) Facility - Intensity of Use, Tin 24/30/12</li> <li>8) Facility - Current Replacements</li> <li>9) Master Plan Status - Check</li> <li>a) Facility 'useful' life is</li> <li>b) X Facility 'useful' life is</li> <li>c) Master Plan is obsoling</li> <li>d) Major facility chang next five years, (If y may have an impact</li> <li>10) Facility Audit Survey:</li> <li>a) Facility Audit Survey of b) Status of the Infrastructor</li> <li>c) Facility Audit Survey Of</li> </ul>	nt Value \$ one or more of the follo a less than five (5) year a more than five (5) year a	owing: rs. ars. red (by OSPB/CDHE) gram revisions are ongoing or anticipated in the ow if these facility renovations or program revision ed to SBP - Date

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace 1969 vintage mechanical equipment in the Chemistry Building. Equipment is well past its useful life and energy inefficient. Replacement parts are difficult to find and maintenance personnel are spending increasing amounts of time to keep the system operating. Existing equipment is not able to meet the cooling demand. The Chemistry Building is currently the largest energy user on campus on a square foot basis.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 800,703

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

The Chemistry Building is a heavily utilized research, office and classroom building that requires 100% outside air. System failure will result in the shut down of the Chemistry Building until repairs are made. It will require increasing amounts of time and resources to keep the old systems operational. At some point the system will be beyond repair. Failure of basement sump pumps will result in basement flooding.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

Primary HVAC components in the building will be replaced, improving energy efficiency and capacity. Constant volume systems will be replaced with variable volume equipment, further improving energy use in this building.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

- 2) Phase? 1 of 1 1) Approved By 3) Method and Date of Estimate CSU Estimate 7/19/13
- 4) Professional Services

Site Surveys, Investigations, and Reports:	A second a second second
Arch/Eng/Basic Services:	136,648
Code Review/Inspection:	2,264
Other (Explain):	
Total of Professional Services:	\$138,912

# 5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT sf, cf, lf, etc.	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	<u>SI, OI, II, OIO.</u>	a and a second a few second damage you are	
Infrastructure			
a) Utility Services:			, .
b) Site Improvements:			
Structure/Systems/Components			
Tube bundles, pumps, valves, VFD	Ea	302,120	302,120
Equip installation, insulation, controls	Ea	65,570	65,570
Other(explain):		7.7.7.	
Asbestos abatement	Ea	81,340	81,340
Demo old equip	Ea	39,840	39,840
Contractor's General Conditions:	<u>الا</u>	Section Section	47,120
Contractor's Overhead & Profit:			53,010
Total of Construction Improvement Costs:	e elicitado h		\$589,000

5a) Total square feet/lineal feet of Construction Improvement area: 5b) Overall cost per square foot/lineal foot of construction Improvement:

#### 6) Miscellaneous (explain)

Total of Miscellaneous Costs:		\$

#### 7) Project Contingency

1) Treject containingently	77 701
Contingency (10% CM) (Percentage of total of professional services, construction	012,191
Contingency (10 % CM) (1 creentage of total of proceedings	
improvementa and miscellaneous costs)	
improvements, and miscellaneous costs.)	

8) Total Cost of the Project (single phase) or Total for this specific Pha	se of all \$800,703
professional services (4), construction improvements(5), miscellane	OUS
costs(6), and project contingency(7)	

Note: Agency formatted cost estimates may accompany this page.

# E. PROPOSED PHASING

# PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2010/2011		I have and a special
	FY 2011/2012		
	FY 2012/2013		
an American	FY 2013/2014		

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount
M#	ALL STOP	JVD - TRAL	(Per Detailed
			- Budget)
	FY 2014/2015	Phase 1 of 1	\$800,703

## **FUTURE PHASING<sup>2</sup>**

Proj.	Fiscal Year	Phase or Phases of	Dollar Amount
Proj. M#		Work	(Per Detailed
	and provide a second		Budget)
	FY 2015/2016		
	FY 2016/2017		
and the second	FY 2017/2018		
	FY 2018/2019		

(Subtotal)

# TOTAL PROJECT DOLLAR AMOUNT

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

<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

\$ 800,703

requested amount.
 <sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)	7/1/2014	10/1/2014
2. Design (Insert Dates)	11/1/2014	3/1/2015
3. Construction (Insert Dates)	4/1/2015	4/1/2016
4. Project Close-out/Final Completion	5/1/2016	8/1/2016

\$

OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2015/2016 STATE BUILDINGS PROGRAMS	

Page 1 of 5

X Controlled Maintenance	Capital Renewal Building/Infrastructure Request
Request	HPCP required in Capital Renewal Request (Y/N)
	(on CC-A specify HPCP compliance)
1) Agency Colorado State Ur	iversity –Fort Collins
2) Department Higher Education	
3) Agency ID No.	Project M #
4) Agency Priority # 4-2016	
5) Project Title Chemistry HVAC	upgrade
	10
B. FACILITY PROFILE	
	underground)
	ovements above ground)
	ame (s) Chemistry A, B and C wings
Risk Mgmt. E	
2) Facility Location Main Campus	
3) Facility Area/Age GSF	ASF Date Built
4) Facility Functional Use/Occupanc	y Office, classroom, laboratory
5) Facility Construction (Type)	
6) Facility Physical Condition and Fa	acility Condition Index (FCI) Number Date of Last Audit 1/7/2008
Actual FCI = 71.23 T	argeted FCI = 90 Date of Last Audit 1/7/2008
(Describe)	A N L W WO
() (	Ja Gazz
7) Facility - Intensity of Use, Time(s) 24/30/12	of Operation: (Hours/Day, Days/Month, Months/Year)
8) Facility - Current Replacement	alue \$
9) Master Plan Status - Check one of	or more of the following:
a) Facility 'useful' life is less	
b) X Facility 'useful' life is mo	re than five (5) years.
c) Master Plan is obsolete;	Last Date Approved (by OSPB/CDHE)
I) Major facility changes r	enovations, or program revisions are ongoing or anticipated in the lease explain below if these facility renovations or program revisions
10) Facility Audit Survey:	
a) Facility Audit Survey conclu	Ided and submitted to SBP - Date
b) Status of the Infrastructure	
a) Eacility Audit Survey Cycle	
11) List all the controlled maintenar the last five years or ongoing pr	ce, capital construction, and emergency projects completed within ojects that can be associated with either this CM building or
infrastructure request.	Completion
Project No. Project Title	date or status
SBP CM-3, updated 5-2013	

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace 1969 vintage mechanical equipment in the Chemistry Building. Equipment is well past its useful life and energy inefficient. Replacement parts are difficult to find and maintenance personnel are spending increasing amounts of time to keep the system operating. Existing equipment is not able to meet the cooling demand. The Chemistry Building is currently the largest energy user on campus on a square foot basis.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 819,119

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

The Chemistry Building is a heavily utilized research, office and classroom building that requires 100% outside air. System failure will result in the shut down of the Chemistry Building resulting in loss of use of classrooms and laboratories. It already requires increasing amounts of time and resources to keep the old systems operational, and at some point the system will be beyond repair. Failure of basement sump pumps will result in basement flooding.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

Primary HVAC components in the building will be replaced, improving energy efficiency and capacity. Constant volume systems will be replaced with variable volume equipment, further improving energy use in this building.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase? 1 of 1
3) Method and Date of Estimate	CSU Estimate 7/19/13 escalated by 2.3% as allowed by OSPB

4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	109,791
Code Review/Inspection:	2,316
Other (Explain):PM fee as allowed by HB14-1387	30,000
Total of Professional Services:	\$142,107

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

<u>WORK ITEM</u> (Labor/Material/Equipment)	<u>UNIT</u> <u>sf, cf, lf, etc.</u>	UNIT COST	EXTENDED COST
Infrastructure			
a) Utility Services:			
b) Site Improvements:			
Structure/Systems/Components			
Tube bundles	5 Ea	8,184	40,920
Expansion tank	3 Ea	3,069	9,207
Motor w/ vfd drive	5 Ea	10,537	52,685
JCI control panel	1 Ea	9,279	9,279
Sump pump	1 Ea	4,118	4,118
Misc fittings, flanges, hangars, etc	900 lf	52.06/lf	46,854
Control valves	12 Ea	4,604	55,248
Equip installation, insulation, controls	1 Ea	63,768	63,768
Pipe	900 lf	16.69/lf	15,021
Insulation	2500 sf	4.91/sf	12,275
Control actuators, sensors, switches, relays	1 Ea	32,787	67,078
Other(explain):			
Asbestos abatement	2500 sf	33.29/sf	83,225
Demo old equip	1 Ea	40,756	40,756
Contractor's General Conditions:			48,204
Contractor's Overhead & Profit:			54,229
Total of Construction Improvement Costs:			\$602,867

 5a) Total square feet/lineal feet of Construction Improvement area:

 5b) Overall cost per square foot/lineal foot of construction Improvement:

6) Miscellaneous (explain)

The Lot of the American Constant		\$	
Total of Miscellaneous Costs:		Ψ.	

7) Project Contingency

Page 4 of 5

## OFFICE OF THE STATE ARCHITECT **CONTROLLED MAINTENANCE PROJECT REQUEST FY 2015/2016** STATE BUILDINGS PROGRAMS

Contingency (10% CM) (Percentage of total of professional services, construction improvements, and miscellaneous costs.)	\$74,145
8) Total Cost of the Project (single phase) or Total for this specific Phase of all	\$819,119
professional services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7)	L. C. States

2 Alexandra da Bartistana

Note: Agency formatted cost estimates may accompany this page.

#### E. PROPOSED PHASING

## PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		
	FY 2012/2013		
	FY 2013/2014		
	FY 2014/2015		
		(Subtotal)	\$

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proj. M#	Fiscal Year	Phase of Work	Dollar Amount (Per Detailed Budget)
	FY 2015/2016	Phase 1 of 1	\$819,119

## FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
	Carlo Antonio de Carlo	(Subtotal)	\$

# TOTAL PROJECT DOLLAR AMOUNT

\$ 819,119

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

<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)	7/1/2015	10/1/2015
2. Design (Insert Dates)	11/1/2015	3/1/2016
3. Construction (Insert Dates)	4/1/2016	4/1/2017
4. Project Close-out/Final Completion	5/1/2017	8/1/2017

# Facilities Audit Program **Building Summary**

Number: 0150 Building Name: Chemistry Net Square Feet: 153,007 Gross Square Feet: 168,037 Construction Date: 1971 Date of Audit: 01/07/2008 Cycle: 6 Phase: 2 No. of Stories: 3 Classification: M150 College, Laboratory SBP Class: 11 Science Cost Per SF: \$185.86

\$31,230,735.08

Replacement Cost:

Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.2000	0.07	0.0140	\$437,230.30
Ext Walls	0.1000	0.06	0:0060	\$187,384.41
Floors	0.2000	0.07	0.0140	\$437,230.30
Roof	0.4000	0.06	0.0240	\$749,537.64
Ceiling	0.4000	0.03	0.0120	\$374,768.82
Int Walls	0.2000	0.09	0.0180	\$562,153.26
Windows	0.4000	0.02	0.0080	\$249,845.88
Doors	0.3000	0.02	0.0060	\$187,384.41
Cool Vent	0.2300	0.06	0.0138	\$430,984.11
Heat	0.2600	0.07	0.0182	\$568,399.36
Plumbing	0.4000	0.14	0.0560	\$1,748,921.20
Electrical	0.7127	0.07	0.0499	\$1,558,070.17
Convey	0.3500	0.01	0.0035	\$109,307.57
Safety	0.0200	0.02	0.0004	\$12,492.29
AE/OP	0.2438	0.18	0.0439	\$1,370,467.82

**Component Deficiency Total:** 

0.2877

**Outstanding Maintenance:** \$8,984,177.66 71.23 Facilities Condition Index (FCI):

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013



# Budget Opinion

**Remodel Services** Facilities Service Center North This is only for Budgetary consideration only. Price may change atter design is completed Date: 07/19/13 Project #: CMFY15006 6030 Cust. ID# Expires on: 10/17/2013

To:	Steve Hultin
	Office of the Director Facilities Management
	491-0006
	Chemistry HVAC Equipment replacement

P.M.	Phone #	Project title		
Tony DeKrey	491-3637	Chemistry	Page 1 of 3	
Ouantity	Labor/Material	Description	Unit Price L	ess receiv Line Total
1.00	Asbestos	Contain 2500 square feet of equipment room for	\$ 98,000.00	98,000.00
		abatement of all asbestos in space. Approx. 400 feet of		p2
		8" steam line and 6" condensate lines. Expansion tanks,		81. 1
		180 valves and fittings. This space is filled with pipe		
		and access to all the pipe will be difficult. Crew of 10		165
		at \$480 per hour for 4 weeks and \$21200 for materials		06.8
		and disposal costs		ALL
1.00	Demo	Demo approx. 300 ft of 8" pipe, 220 ft of 6" pipe, 400'	39,040.00	39,040.00
		of 1 1/4" or smaller pipe. Remove 7 tube bundles, 3		Chi ta/
		expansion tank, 10 pumps with motors, 5 concrete		323.64
		vibration pads, remove old electrical motor control		
		panels. Crew of 6 at \$252 per hour for 3.5 weeks,		<u>6</u> 6.
		\$2750 for dump fees, gas for cutting torches and		
and an		materials		199.
160.00	Electrical	Disconnect power from all motors and pull wiring out	56.00	8,960.00
		of electrical control center. Remove conduit from		
		equipment being removed and not replaced. Crew		
		of 4 Electricains 40 hours at \$56		<b>00</b> .

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount

This is a cost opinion on the Project named, subject to the conditions noted below: 1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right , covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

\$ And Shi -m

Page 1 Sub Total \$ 146,000.00



**Remodel Services** 

Facilities Service Center North

# Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed

07/19/13 Date: Project #: CMFY15006 6030 Cust. ID# Expires on: 10/17/2013

Steve Hultin To: Office of the Director Facilities Management 491-0006 Chemistry HVAC Equipment replacement

P.M.	Phone #	Project title	
Tony DeKrey	491-3637	Chemistry	Page 2 of 3

Quantity	Labor/Material	Description	Unit Price	Less receiv Line Total
Толановникаталистическовногости	NECOLOUS AUXILIANS AND	Subtotal from page 1		146,000.00
5.00	Equipment	5 tube bundles	8,000.00	40,000.00
5.00		5 - 10 HP motors	8,500.00	42,500.00
5.00		3 expansion tank	3,500.00	17,500.00
12.00		Control valves	6,500.00	78,000.00
34.00		System valves 6"and 4"	450.00	15,300.00
200.00		6" steel pipe	32.00	6,400.00
200.00		4" steel pipe	16.00	3,200.00
300.00		1 1/4" steel pipe	10.15	3,045.00
200.00		3/4" steel pipe	10.15	2,030.00
1.00		Misc. fittings, valves, flanges, hangers, anchors	30,500.00	30,500.00
1.00		JCI Control panel	12,500.00	12,500.00
1.00		Control actuators, sensors, switches, relays	78,000.00	78,000.00
1.00		Insulation for tube bundles, pipe, valve, and	12,000.00	12,000.00
		expansion tanks.		11 34280
1.00		New sump pump in north east corner of equipment	\$ 4,025.00	4,025.00
		room		
5.00		VFDs for new motors	3,800.00	19,000.00

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

This is a cost opinion on the Project named, subject to the conditions noted below:

1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right , covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

510,000.00

Page 2 Sub Total \$

19,000.00 \$



**Remodel Services** 

Facilities Service Center North

# Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed 
 Date:
 07/19/13

 Project #:
 CMFY15006

 Cust. ID#
 6030

 Expires on:
 10/17/2013

To: Steve Hultin Office of the Director Facilities Management 491-0006 Chemistry HVAC Equipment replacement

P.M. Tony DeKrey	Phone # 491-3637	Project title Chemistry	Page 3 of 3		
			11 's n.'	-	Fotal
Quantity	Labor/Material	Description	Unit Price Less receiv	Linte	510,000.00
		Subtotal from page 2	260.00		31,200.00
120.00	Pipe	Weld new steel pipe and flanges in place. Set valves	200.00		01,200.00
		tube bundles, expansion tanks, pumps and control			
		ports crew 4 at \$260 per hour for 3 weeks.			
96.00	Electrical	Run conduit to new motors from new control panel	112.00		10,752.00
20100		and from new controls and valves. Connect power			
		for motors and VFDs a crew of 2 at \$112 per hour for			
		12 days			
1.00		Electrical materials for work above	5,900.00		5,900.00
120.00	Controls	Install all controls, sensors, relays and actuators on	260.00		31,200.00
120.00	Conditions	system and programs system to interface with CSU			
		backnet system. Crew of four at \$260 an hour for three			
		weeks			<u>.</u>
			Construction Subtotal		589,052.00
			Contingency		58,905.20
		Design fees		\$	70,686.24
		Third Party Code review			1,763.72
		Code Inspections		\$	350.00
		•	PM Fees	\$	65,973.82
This magnitude o	of cost is based on	information which is now known and reasonably apparent from our	Advertisement fees		
investigation. It is process could cau	s possible that unk use substantial cha	nown conditions, a more detailed analysis, changes in scope and the bidding nges in the estimate. This is a preliminary cost opinion; do not send an WOA for	Total	\$	786,730.99
This is a cost opir 1. Packing of boo 2. Asbestos or Le 3. This quote doe will need to conta If you wish amount sho	k shelves or files p ad hazard assessm s not cover the acc act Telecom to act to proceed own in red t	named, subject to the conditions noted below: priory to moving is not included. tent or abatement is not covered unless stated tivation of phone and Data lines the customer		\$	105,436.88

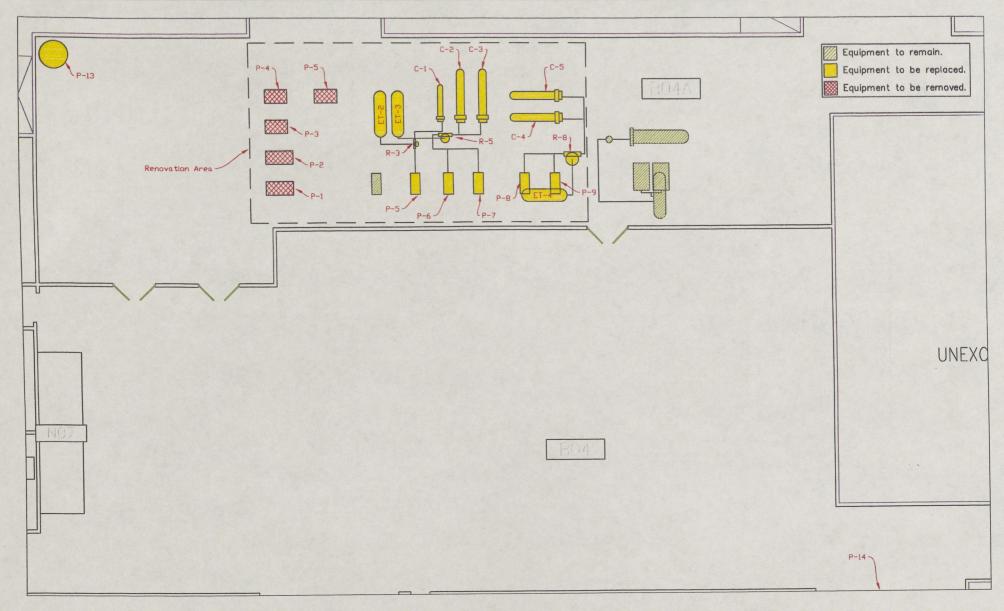
the project manager

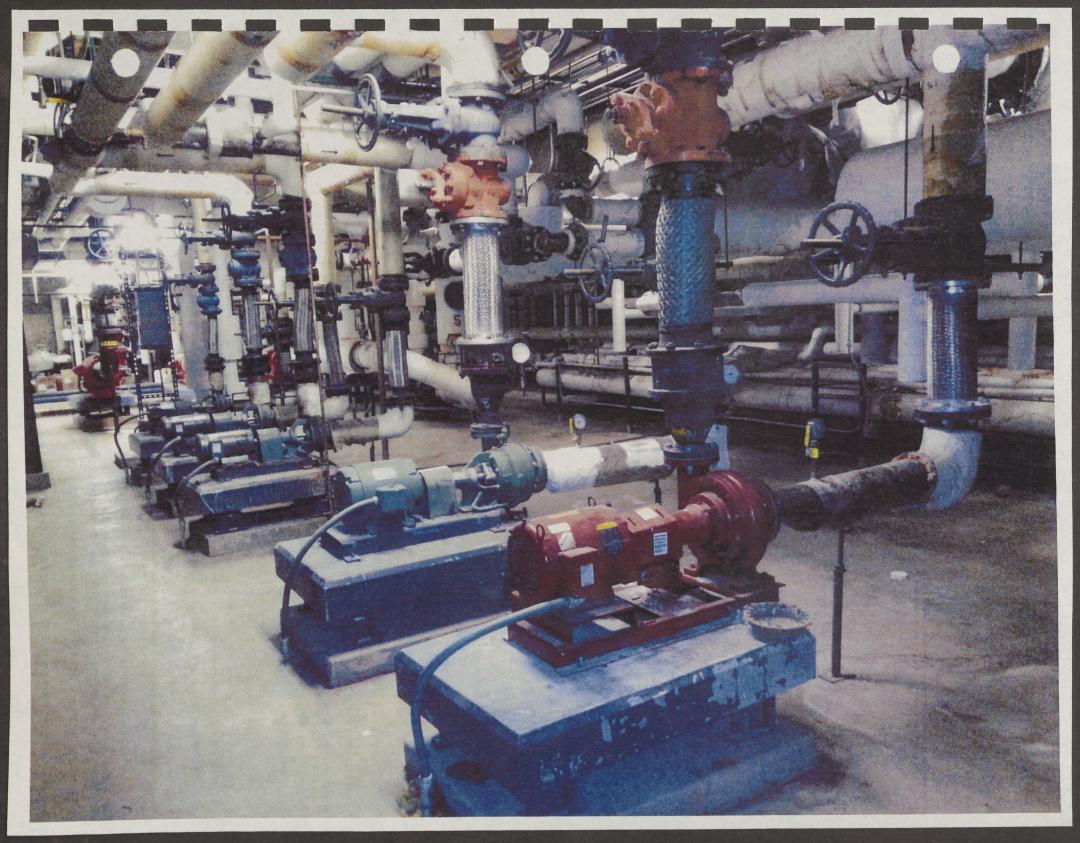
State Purchasing Regulations require all single Purchase orders over \$50,000

### Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

# Chemistry Controlled Maintenance Request - Auxiliary Equipment







### Auxiliary Equipment Sizing

#### Chemistry

K:\PLANNING\Controlled Maintenance\CM Report for Rod FY 15-16\CMBR docs\Chemistry HVAC\[Chemistry A-B-C-Wing Equipment Replacement Sizing.xlsx]Chemistry Aux Eqpt 7/8/2013

PUMPS						
Tag	Location	Service	Flow Rate (GPM)	Head (ft.)	Motor H.P.	Remarks
P-5	Center Mechanical Room B-01	Radiant Heating	85	40		
P-6	Center Mechanical Room B-01	Hot Deck A,B,C Wings	305	38		
P-7	Center Mechanical Room B-01	Hot Deck A,B,C Wings	305	38	10. 11 Mar	
P-8	South Mechanical Room B-01	Pre-Heat B&C Wings	507	45	No. of the second	30% Propylene Glycol
P-9	South Mechanical Room B-01	Pre-Heat B&C Wings	507	45		30% Propylene Glycol
P-13	North Mechanical Room B-01	Duplex Sump Pump	100	26		Submersible, Two pumps in set
P-13	Mechanical Shaft C	Duplex Sump Pump	150	26		Submersible, Two pumps in set
P-14	South Mechanical Room B-01	Heating Coil D Wing	382	60		Redundant with P-2DB, 30% Propylene Glycol
P-2DB	South Mechanical Room B-01	Heating Coil D Wing	382	60		Redundant with P-2DA, 30% Propylene Glycol

All hydronic pumps - B&G vertical centrifugal, inline.

Capital Renewal Building/Infrastructure Request
HPCP required in Capital Renewal Request (Y/N)
(on CC-A specify HPCP compliance)
ty –Fort Collins
Project M #
ting System Replacement
ground)
ents above ground)
s) Shepardson Building
) ID#
ASF Date Built 1939
lassroom, office, laboratory
Condition Index (FCI) Number
d FCI = 90 Date of Last Audit 12/14/2009
eration: (Hours/Day, Days/Month, Months/Year)
eration: (Hours/Day, Days/Month, Months/Year)
eration: (Hours/Day, Days/Month, Months/Year)
e of the following:
e of the following: five (5) years.
e of the following: five (5) years. n five (5) years.
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE)
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE) ions or program revisions are ongoing or anticipated in the
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE) ions or program revisions are ongoing or anticipated in the
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.)
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.) nd submitted to SBP - Date
e of the following: five (5) years. n five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.)
e of the following: five (5) years. a five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.) and submitted to SBP - Date sment. Date
e of the following: five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.) and submitted to SBP - Date sment. Date bital construction, and emergency projects completed within
e of the following: five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.) and submitted to SBP - Date sment. Date bital construction, and emergency projects completed within that can be associated with either this CM building or
e of the following: five (5) years. Date Approved (by OSPB/CDHE) ions, or program revisions are ongoing or anticipated in the explain below if these facility renovations or program revisions A request.) and submitted to SBP - Date sment. Date bital construction, and emergency projects completed within

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace original steam heating system in the Shepardson Building. System consists of direct steam radiators and distributed piping, and is original to the 1939 building. There is little ability for temperature control, resulting in wide variations in room temperature. Occupant comfort is poor and the system is not energy efficient. This project will install a new hot water hydronic system, including building-wide piping distribution, steam to water heat exchangers, pumping, constrols and individual fan-coil units (FCU's) in spaces. Some spaces already have new FCU's for cooling that were ordered with a heating coil to anticipate this renovation.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 917,911

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

The Shepardson Building is a heavily utilized classroom, office and laboratory building. The 1939 steam heating system is inefficient and it requires increasing amounts of time and resources to keep operational. Failure of the steam heating system will require closure of the building and loss of use.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

The original heating system in the building will be replaced with a more efficient and controllable system, improving occupant comfort and energy use.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	_2) Phase? 1 of 1
3) Method and Date of Estimate	7/17/2013 escalated by 2.3% as allowed by OSPB
of Michild and Date of Lething	

4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	138,642
Code Review/Inspection:	2,643
Other (Explain):PM services as allowed by HB14-1387	18,000
Total of Professional Services:	\$159,285

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

<u>WORK ITEM</u> (Labor/Material/Equipment)	UNIT sf, cf, lf, etc.	UNIT COST	EXTENDED COST
Infrastructure			
a) Utility Services:		and an all	
b) Site Improvements:		and the second	
Structure/Systems/Components			444.007
Heat exchanger, pumps, valves, fan coils units	and the second second		114,627
Water line from main to new heat exchanger, new hot water supply/return lines, demo radiators		A. W. St.	312,465
Electric power to new equipment			28,020
Install controls/program			55,191
Modify Drop ceilings for new fan coils			20,378
Other(explain):		and the second	March Strates Strates
Asbestos abatement at radiators			29,718
Contractor's General Conditions:			54,014
Contractor's Overhead & Profit:	P	Maria Maria	60,766
Total of Construction Improvement Costs:	and the second sec	an and a second and	\$675,179

5a) Total square feet/lineal feet of Construction Improvement area: 47,354	
5a) Total square feet/lineal feet of Construction Improvement area:47,3545b) Overall cost per square foot/lineal foot of construction Improvement:14.26	

6) Miscellaneous (explain)

The second second	States and States	\$
Total of Miscellaneous Costs:		

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction \$	83,447
Contingency (1038 CM) (1 crochadge of total of prove	
improvements, and miscellaneous costs.)	

8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7)

\$917,911

Note: Agency formatted cost estimates may accompany this page.

#### E. PROPOSED PHASING

### PRIOR PHASING<sup>1</sup>

Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
FY 2011/2012		
FY 2012/2013		
FY 2013/2014		
FY 2014/2015		
	FY 2011/2012 FY 2012/2013 FY 2013/2014	Work           FY 2011/2012           FY 2012/2013           FY 2013/2014

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount
Proj. M#		and an a	(Per Detailed Budget)
	FY 2015/2016	Phase 1 of 1	\$917,911

### FUTURE PHASING<sup>2</sup>

Proj.	Fiscal Year	Phase or Phases of	Dollar Amount
M#		Work	(Per Detailed Budget)
	FY 2016/2017		Aller Martin Contract
	FY 2017/2018		
	FY 2018/2019		
a la ser al	FY 2019/2020		
		(Subtotal)	\$

(Subtotal)

\$ 917,911

# TOTAL PROJECT DOLLAR AMOUNT

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

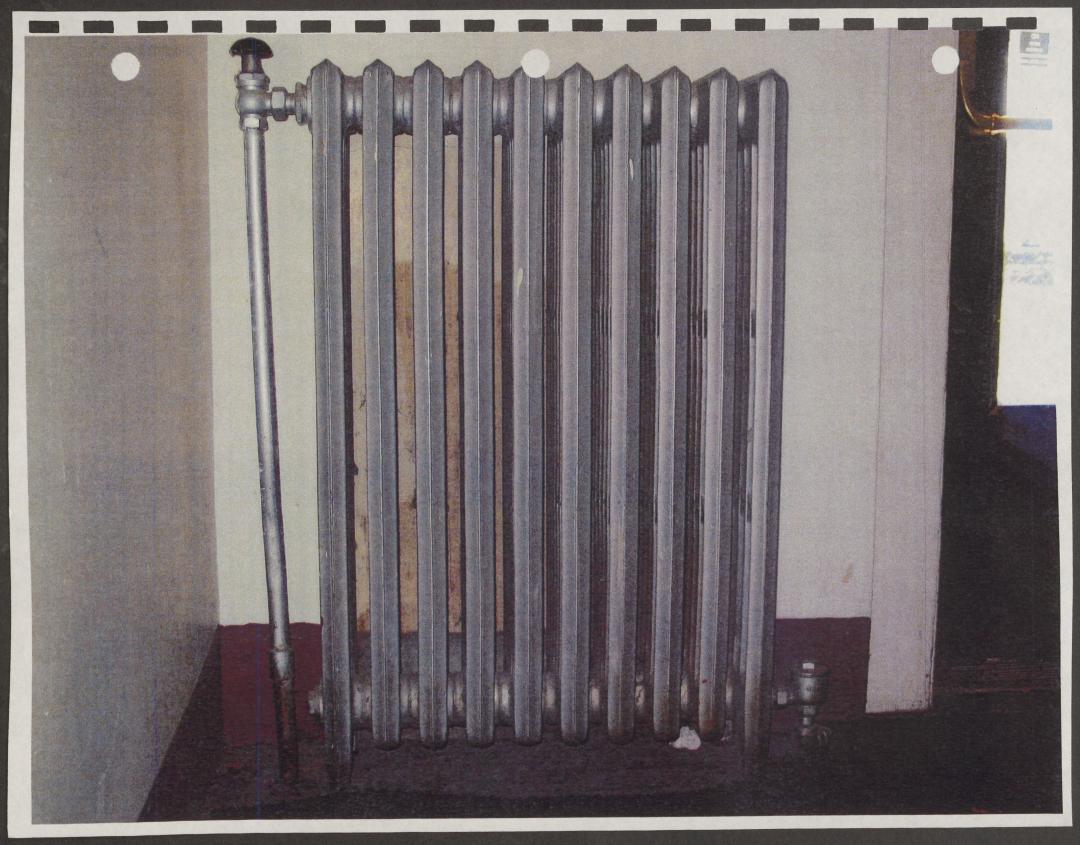
<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	TO
1. Pre-Design (Insert Dates)	7/1/2015	10/1/2015
2. Design (Insert Dates)	11/1/2015	3/1/2016
3. Construction (Insert Dates)	4/1/2016	4/1/2017
4. Project Close-out/Final Completion	5/1/2017	8/1/2018

\$



# Facilities Audit Program **Building Summary**

Building Name: Shepards	on		<i>Number:</i> 0093	and a second of the Manual Constants of Manual Constants of the Second Second Second Second Second Second Second
Construction Date: 1939	Gross Squar	e Feet: 47,354	Net Square Feet:	44,236
Date of Audit: 12/14/2009	Cycle: 7	Phase: 1 No. of	Stories: 3	
Classification: M120 Class	sroom, 2-3 Sto	ry SBP Class	s: 10 Classroom/	Office
Replacement Cost: \$6,60	01,280.19	Cost Per SF: \$	139.40	
Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.3000	0.02	0.0060	\$39,607.68
Ext Walls	0.2500	0.04	0.0100	\$66,012.80
Floors	0.3000	0.12	0.0360	\$237,646.09
Roof	0.2600	0.05	0.0130	\$85,816.64
Ceiling	0.1000	0.04	0.0040	\$26,405.12
Int Walls	0.1500	0.06	0.0090	\$59,411.52
Windows	0.2500	0.03	0.0075	\$49,509.60
Doors	0.1500	0.04	0.0060	\$39,607.68
Cool Vent	0.6400	0.17	0.1088	\$718,219.28
Heat	0.8200	0.11	0.0902	\$595,435.46
Plumbing	0.4200	0.07	0.0294	\$194,077.65
Electrical	1.0010	0.11	0.1101	\$726,866.99
Convey	0.3000	0.01	0.0030	\$19,803.84
Safety	0.4000	0.01	0.0040	\$26,405.12
AE/OP	0.4370	0.18	0.0787	\$519,268.62

0.5157 **Component Deficiency Total:** 

> **Outstanding Maintenance:** \$3,404,094.17 48.43

Facilities Condition Index (FCI):

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Wednesday, September 03, 2014



# Budget Opinion

**Remodel Services** 

Facilities Service Center North

This is only for Budgetary consideration only. Price may change atter design is completed

07/17/13 Date: CMFY15007 Project #: Customer ID 6030 Expiration D 10/15/2013

To:	Steve Hultin
	Office of the Director Facilities Managemen
	491-0006
	Shepardson heat conversiion

Tony DeKrey 491-3637

Shepardson change over from old steam heat system to hot water

1.00	Vendor	Provide heat exchanger, pumps and valves for project	\$ 13	5,000.00	135,000.00
		Provide fan coil units for rooms that do not have them.			
1.00	Contractor	Run water line from main to new heat exchanger, run	36	8,000.00	368,000.00
		new hot water supply and return main lines through			
		basement, 1st and 2nd floors. Provide taps for existing			
		fan coil units that supply classrooms and taps for			
		offices. Install new fan coils in areas that do not have			
		them. Remove existing radiators after abatement has			
		been completed and recycle.			
1.00	Contractor	Run power to new pumps, fan coils, and controls	:	33,000.00	33,000.00
1.00	Contractor	Install controls and program to existing JCI controls	(	55,000.00	65,000.00
1.00	Contractor	Modify and install drop ceilings in rooms for new fan	1	24,000.00	24,000.00
		coils			
1.00	Contractor	Spot abate TSI at each radiator to allow for removal of		35,000.00	35,000.00
		the radiators.			
				Construction Subtotal	660,000.00
				Contingency	66,000.00
		Design fee	es		\$ 79,200.00
		Third Party Code review	W		1,934.00
		Code Inspectior			\$ 650.00
			PM Fe	es	\$ 73,920.00

Advertisement fees

Total \$

881,704.00

This is a cost opinion on the Project named, subject to the conditions noted below:

construction based upon this amount.

- Packing of book shelves or files priory to moving is not included.
   Asbestos or Lead hazard assessment or abatement is not covered unless stated
- 3. This quote does not cover the acctivation of phone and Data lines the customer will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

A. AGEN	ICY BASI					- france De anno of
		Maintenance		apital Renewal B		
Re	quest		H (c	PCP required in on CC-A specify H	Capital Renewa	al Request (Y/N) e)
1) Agency	v c	olorado State Un	iversity -F	Fort Collins	And the second second	
2) Depart	and the state of the	ligher Education				
And the second sec	and the second s	7-2015			Project M #	weekan
	y Priority #	1			and the second	
5) Project	A	loby Arena HVAC	C upgrade			LAT IN I MOUNT
B. FACIL	LITY PRO	FILE				
1) Facility	「日本のない」のなどので		undergrou	und) the state of the		and the second second
an a		or Site (Impro	ovements	above ground)		
	X	or Building N	ame (s)	Moby Arena A w	ving	
		Risk Mgmt. E	Bldg(s) ID#	£ª		
2) Facility	/ Location	Main Campus		a the second second	100 Line 100	No. of Tanada Sta
3) Facility	Area/Age	GSF		ASF	Date	Sandonean anno ar
4) Facility	Functiona	al Use/Occupanc	y Auxill	iary gymnasium, cla	assroom, office, a	thletics
		tion (Type)				
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N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace selected mechanical equipment in the Moby Gymnasium A-Wing, which houses the arena and supporting spaces. The equipment in this wing is original to the 1964 building construction. Replace internal components of air handling equipment, controls, coils, and pumps, to include necessary asbestos abatement. The current equipment is beyond its useful life and requires increasing time and resources to maintain. In addition, the west end of campus needs to be taken off the existing Central Steam system in order to free up capacity for future growth on the densely populated east side of campus. New boilers to support these buildings would encroach on the regulatory cap for NOx emissions, decreasing the capacity of a future new heating plant on main campus. The intention is to invest in a geothermal system to heat and cool these west-side buildings.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 1,992,774

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

This work will replace aging equipment at the end of its useful life, as well as provide equipment that will be correctly sized to accommodate a future geothermal heating and cooling system that will serve the entire Moby Complex. If this work is not accomplished Moby A wing will require increasing amounts of time and resources to keep the old system operational. In addition, the existing coils are not adequate for the needs of the proposed geothermal system. Moby A wing is a heavily used indoor arena, hosting multiple sports and other events.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This work will not only replace aging equipment at end of life, but the new equipment will be correctly sized to accommodate a future geothermal heating and cooling system intended to serve the entire Moby complex. The geothermal system will be much more energy efficient than the current distribution of steam to the sparsely populated west side of campus, decreasing energy costs in the long run.

A. AG	ENCY BASIC DATA:		
	<b>Controlled Maintenance</b>		ling/Infrastructure Request
	Request	HPCP required in Cap	ital Renewal Request (Y/N)
au 9-000 1000-05 0000/200	2014-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	(on CC-A specify HPCF	compliance)
I) Age		niversity –Fort Collins	
2) Dep	artment Higher Education		
3) Age	ncy ID No. 7-2015		Project M #
4) Age	ncy Priority # 1		
5) Proj	ect Title Moby Arena HVA	C upgrade Phase 1 of 2	
THE REAL PROPERTY OF	CILITY PROFILE	s underground)	
I) Fac		rovements above ground)	Contraction of the second s
		Name (s) Moby Arena A wing	
		Bldg(s) ID#	
	ility Location Main Campu		
and the second second	cility Area/Age GSF	ASF	Date Built
March Strates	cility Functional Use/Occupan	AND	oom, office, athletics
Charles and a street	cility Construction (Type)		
	mily construction (Type)		The local sector and the sector
	lity Dhysical Condition and F	acility Condition Index (EU) NUMP	
6) Fac	ility Physical Condition and F Jal FCI = scribe)	acility Condition Index (FCI) Numb	Date of Last Audit
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N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace selected mechanical equipment in the Moby Gymnasium A-Wing, which houses the arena and supporting spaces. The equipment in this wing is original to the 1964 building construction. Replace internal components of air handling equipment, controls, coils, and pumps, to include necessary asbestos abatement. The current equipment is beyond its useful life and requires increasing time and resources to maintain. In addition, the west end of campus needs to be taken off the existing Central Steam system in order to free up capacity for future growth on the densely populated east side of campus. New boilers to support these buildings would encroach on the regulatory cap for NOx emissions, decreasing the capacity of a future new heating plant on main campus. The intention is to invest in a geothermal system to heat and cool these west-side buildings.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 996,388

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

This work will replace aging equipment at the end of its useful life, as well as provide equipment that will be correctly sized to accommodate a future geothermal heating and cooling system that will serve the entire Moby Complex. If this work is not accomplished Moby A wing will require increasing amounts of time and resources to keep the old system operational. In addition, the existing coils are not adequate for the needs of the proposed geothermal system. Moby A wing is a heavily used indoor arena, hosting multiple sports and other events.

- Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This work will not only replace aging equipment at end of life, but the new equipment will be correctly sized to accommodate a future geothermal heating and cooling system intended to serve the entire Moby complex. The geothermal system will be much more energy efficient than the current distribution of steam to the sparsely populated west side of campus, decreasing energy costs in the long run.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase? 1 of 2	-
3) Method and Date of Estimate	CSU Estimate escalated by 2.3% as allowed by OSPB	

4) Professional Services	
Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	147,690
Code Review/Inspection:	5,269
Other (Explain): PM services as allowed by HB14-1387	19,000
Total of Professional Services:	\$171,959

# 5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	<u>sf, cf, lf, etc.</u>		
Infrastructure			
a) Utility Services:			
b) Site Improvements:			
Structure/Systems/Components			
Demo old fan units	16 ea	3,342	53,472
New coils and motors for supply fans	8 ea	17,686	141,488
New exhaust fans	8 ea	7,348	58,784
VFDs for new motors	5 ea	5,165	25,825
Chilled water piping	1200 lf	111	133,200
New pumps	2 ea	17,217	34,434
New control valves	16 ea	6956	111,296
Other(explain):			
Asbestos abatement at fan units	16 ea	3,237	51,792
Contractor's General Conditions:			58,843
Contractor's Overhead & Profit:			66,199
Total of Construction Improvement Costs:			\$735,333

5a) Total square feet/lineal feet of Construction Improvement area:5b) Overall cost per square foot/lineal foot of construction Improvement:

#### 6) Miscellaneous (explain)

Total of Miscellaneous Costs:		\$

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$89,096
improvements, and miscellaneous costs.)	

#### Page 4 of 4

## OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2015/2016 STATE BUILDINGS PROGRAMS

 Total Cost of the Project (single phase) or Total for this specific Phase of all professional services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7) \$996,388

Note: Agency formatted cost estimates may accompany this page. E. PROPOSED PHASING

#### **PRIOR PHASING<sup>1</sup>**

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		
	FY 2012/2013		
	FY 2013/2014		
	FY 2014/2015		ang pang bahar na pang pang pang pang pang pang pang p
1 4 A A A		(Subtotal)	\$

## CURRENT PHASE<sup>2</sup> REQUESTED

Proj. M#	Fiscal Year	Phase of Work	Dollar Amount (Per Detailed Budget)
	FY 2015/2016	Phase 1 of 1	\$996,388

### **FUTURE PHASING<sup>2</sup>**

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017	Phase 2 of 2	996,386
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
		(Subtotal)	¢

(Subtotal)

\$ 1,992,774

### TOTAL PROJECT DOLLAR AMOUNT

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

<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
 <sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

## F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)		
2. Design (Insert Dates)	7/1/2015	10/1/2015
3. Construction (Insert Dates)	11/1/2015	11/1/2016
4. Project Close-out/Final Completion	12/1/2016	12/1/2016

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Pt	nase? 1 of 1	and a second
3) Method and Date of Estimate CSU Estimate	escalated by 2	.3% as allowed	by OSPB
			41
4) Professional Services			1010 19
Site Surveys, Investigations, and Reports:		295,379	100
Arch/Eng/Basic Services:		10,538	
Code Review/Inspection:	1207	38,000	
Other (Explain): PM services as allowed by HB14-	1307	\$343,91	h_/
Total of Professional Services:		\$040,01	
5) Construction Improvement (by Construction Sp	ecification Institut	e (CSI) Division f	format)
WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	sf, cf, lf, etc.	0	
Infrastructure	0		1
a) Utility Services:	1/		
	-1X/	n Pr	
b) Site Improvements:	Xer V	DI	1 At
		N	n l
Structure/Systems/Components	51000	P	
Demo old fan units	32 ea	3,342 V	106,944
New coils and motors for supply fans	16 ea	17,686	282,976
New exhaust fans	16 ea	7,348	117,568
VFDs for new motors	10 ea	5,165	51,650
Chilled water piping	2400 lf	111	266,400
New pumps	4 ea	17,217	68,868
New control valves	32 ea	6956	222,592
Other(explain):			
Asbestos abatement at fan units	32 ea	3,237	103,584
Contractor's General Conditions:			117,686
Contractor's Overhead & Profit:			132,397
Total of Construction Improvement Costs:			\$1,470,665

5a) Total square feet/lineal feet of Construction Improvement area: 5b) Overall cost per square foot/lineal foot of construction Improvement:

#### 6) Miscellaneous (explain)

Total of Miscellaneous Costs:		\$

## 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$178,192	
improvements, and miscellaneous costs.)		

8) Total Cost of the Project (single phase) or Total for this specific Phase of all	\$1,992,774
professional services (4), construction improvements(5), miscellaneous	The second second
costs(6), and project contingency(7)	

Note: Agency formatted cost estimates may accompany this page. E. PROPOSED PHASING

#### PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		
	FY 2012/2013		
and the second	FY 2013/2014	1	
-	FY 2014/2015		and a second
	Provide and a second	(Subtotal)	\$

(Subtotal)

## CURRENT PHASE<sup>2</sup> REQUESTED

Proj. M#	Fiscal Year	Phase of Work	Dollar Amount (Per Detailed
	FY 2015/2016	Phase 1 of 1	Budget) \$1,992,774

## FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
and the second	FY 2019/2020		
		(Subtotal)	\$

(Subtotal)

## TOTAL PROJECT DOLLAR AMOUNT

\$ 1,992,774

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

<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	TO
1. Pre-Design (Insert Dates)		
2. Design (Insert Dates)	7/1/2015	10/1/2015
3. Construction (Insert Dates)	11/1/2015	11/1/2016
4. Project Close-out/Final Completion	12/1/2016	12/1/2016

# Facilities Audit Program **Building Summary**

Building Name: Auditorium	Gymnasium Number: 0027	
Construction Date: 1966	Gross Square Feet: 280,438 Net Square Feet: 235,973	\$
Date of Audit: 09/10/2007	Cycle: 6 Phase: 2 No. of Stories: 2	
Classification: M310 Gym	nasium, 1 Story SBP Class: 15 Physical Education	
Replacement Cost: \$34,9	07,463.96 Cost Per SF: \$124.47	

Replacement Cost:	\$34,907,463.96	Cost Per SF:	\$124.47	
Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.0800	0.04	0.0032	\$111,703.88
Ext Walls	0.2500	0.06	0.0150	\$523,611.95
Floors	0.1200	0.15	0.0180	\$628,334.36
Roof	0.3000	0.18	0.0540	\$1,885,003.20
Ceiling	0.6000	0.01	0.0060	\$209,444.79
Int Walls	0.3000	0.04	0.0120	\$418,889.57
Windows	0.3000	0.02	0.0060	\$209,444.79
Doors	0.5000	0.02	0.0100	\$349,074.63
Cool Vent	0.5000	0.06	0.0300	\$1,047,223.90
	0.4500	0.05	0.0225	\$785,417.93
Heat	0.5500	0.06	0.0330	\$1,151,946.31
Plumbing	0.6090	0.07	0.0426	\$1,488,105.12
Electrical	0.2500	0.02	0.0050	\$174,537.32
Convey	0.3500	0.03	0.0105	\$366,528.36
Safety AE/OP	0.2678	0.19	0.0509	\$1,776,360.54

**Component Deficiency Total:** 

**Outstanding Maintenance:** \$11,125,626.70 68.13 Facilities Condition Index (FCI):

0.3187

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013



**Remodel Services** 

Facilities Service Center North

# Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed

07/19/13 Date: Project #: CMFY15010 6030 Cust. ID# Expires on: 10/17/2013

245,000.00

**#VALUE!** 

Page 1 Subtotal \$

Steve Hultin Office of the Director Facilities Management 491-0006

Moby Arena A-wing

Phone # Tony DeKrey 491-3637

To:

**Project title** Renovate HVAC in A-wing

		Umi	t Price Less	receive Line Total
Quantity Lal	por/Material Description	\$	4,300.00	103,200.00
24.00	Abate asbestos wrap on duct work to each fan unit,	⊅		18,800.00
8.00	remove TSI on piping to the coils, pumps, valves and		2,350.00	18,800.00
	the vibration fabric is also ACM and needs removed			
	from all units. There are 32 total fan units, 16 supply			
	and 16 return/exhaust fans. There are 24 large fans and			
	8 smaller fans. Fans are located in hard to access			<u></u>
	locations it was figured to contain each fan and abate			
	an average cost of \$4300 per large fan and \$2350 per			
	small fan to abate.			<u></u>
24.00	Remove ductwork from vibration joint to outside air		4,500.00	108,000.00
3.00	grills. Include motors, coils and control valves back to		1,875.00	15,000.00
	each isolation valve. Large fans are in equipment			
	rooms not easy to access and will need to be cut up			<u></u>
	to get out of spaces where located there are 24 large			
	fans with a cost of \$4500 to remove and the smaller			
	fans are located in equipment rooms easy to access			
	and can be removed without cutting them up with a			
	cost of \$1875 to remove.			

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

This is a cost opinion on the Project named, subject to the conditions noted below:

1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer

will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right , covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

State Purchasing Regulations require all single Purchase orders over \$50,000

# Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030



Remodel Services Facilities Service Center North

To:

# Budget Opinion

This is only for Budgetary consideration only. Price may change after design is completed

 Date:
 07/19/13

 Project #:
 CMFY15010

 Cust. ID#
 6030

 Expires on:
 10/17/2013

:	Steve Hultin
	Office of the Director Facilities Management
	491-0006
	Moby Arena A-wing

P.M. Phone # Project title Tony DeKrey 491-3637 Renovate HVAC in A-wing

Quantity Lab	or/Material Description	Unit Price	Less receive Line Total
	Subtotal from page 1		245,000.00
16.00	Supply 16 large supply fans with dual heating and	16,000.00	256,000.00
	cooling coils, motors.	a ganta and a stranger	
16.00	Supply new exhaust fans for building	3,500.00	56,000.00
1.00	Materials to hang and connect supply fan units	23,000.00	23,000.00
16.00	Install new supply fans, connect to heating supply and	6,800.00	108,800.00
	return pipes, connect to existing duckwork,		
16.00	Install new exhaust fans connect to ductwork	3,200.00	51,200.00
1.00	Materials to hang and connect exhaust fan units	5,000.00	5,000.00
32.00	Provide 4"control valves to each air handler	5,000.00	160,000.00
1.00	Install and program new control valves into existing	30,000.00	30,000.00
	backnet controls system crew \$65 per hour 10 hours		
	to install 4 hours to program per valve. With \$880 for		
	misc. materials		
32.00	Disconnect power from existing supply and return fans	800.00	25,600.00
	at disconnect. Disconnects to be reused for new fans		· · · · · · · · · · · · · · · · · · ·
	crew at \$100 per hour for 1 day		
32.00	Reconnect power to each supply and exhaust fan	1,000.00	32,000.00
	from existing disconnects		

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

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State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

**#VALUE!** 

992,600.00

Page 2 Subtotal \$



**Remodel Services** Facilities Service Center North

# Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed

07/19/13 Date: Project #: CMFY15010 6030 Cust. ID# Expires on: 10/17/2013

To:	Steve Hultin
	Office of the Director Facilities Management
	491-0006
	Moby Arena A-wing

P.M.	Phone #	Project title		
Tony DeKrey	491-3637	Renovate HVAC in A-wing		
Q. and the	1 alaar/Matarial	Description	Unit Price	Less receive Line Total
Quantity	Labor Materian	Pretonaliza		992 600 00

2012 C. F. C. B. C.	Subtotal for page 2		992,600.00
10.00	VFDs for new motors	3,800.00	38,000.00
1.00	Hook up VFDs to motors Crew 2 men at \$ 112 per	7,000.00	7,000.00
	hour for 5 hours and \$27 for misc materials		
1.00	Run couduit and for new control wiring for fans system	8,960.00	8,960.00
	Crew 2 at \$112 per hour for 80 hours.		
1.00	Program new controls into CSU backnet system crew	5,440.00	5,440.00
	2 at \$130 per hour for 40 hours and \$240 misc materials		
2400.00	Provide AquaTherm pipe for Chilled water to the new	28.00	67,200.00
	fan systems 1 1/4" supply and returns		
Ł.00	New pumps with VFDs for chilled water system	15,800.00	63,200.00
1.00	Electrical to new pumps and control wiring to pumps	16,000.00	16,000.00
	and VFDs for chilled water		
1.00	Install Aquatherm piping and pumps to supply fans	239,600.00	239,600.00
1.00	Crew 12 at \$684 per hour for 320 hours. \$20720		
	for hangers, materails and insulation	Construction Subtotal	1,438,000.00
		Contingency	143,800.00
	Design fe	es	\$ 172,560.00

\$ Design fees Third Party Code review Code Inspections \$

**PM** Fees This magnitude of cost is based on information which is now known and reasonably apparent from our Advertisement fees investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for

1,925,717.20 Total \$

\$

3,801.20 6,500.00

161,056.00

This is a cost opinion on the Project named, subject to the conditions noted below:

1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer

will need to contact Telecom to activate lines

construction based upon this amount.

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right , covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

State Purchasing Regulations require all single Purchase orders over \$50,000

#### Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

\$ 256,889.20

Request HPCP red	enewal Building/Infrastructure Request
Request HPCP re	cilewal ballang/initiaea acta e i i
(011 CC-A	quired in Capital Renewal Request (Y/N) specify HPCP compliance)
1) Agency Colorado State University –Fort Colli	ns
2) Department Higher Education	1.0.0000.000000.000.200.2000000000
3) Agency ID No. 7-2016	Project M #
4) Agency Priority # 1	
5) Project Title Engineering Building A and B Wings	Roof Replacement
B. <u>FACILITY PROFILE</u> 1) Facility Type Site (Utilities underground)	
1) Facility Type Site (Utilities underground) or Site (Improvements above gr	ound)
X or Building Name (s) Engin	
Risk Mgmt. Bldg(s) ID#	
2) Facility Location Main Campus	
3) Facility Area/Age GSF ASF	Date Built
4) Facility Functional Use/Occupancy Laboratory, cla	assroom, office
5) Facility Construction (Type)	
6) Facility Physical Condition and Facility Condition Ind	ex (FCI) Number
Actual FCI = 85.25 Targeted FCI = 90	.00 Date of Last Audit 9/21/2009
(Describe)	
(Describe)	
(Describe)	
	urs/Day, Days/Month, Months/Year)
<ul> <li>(Describe)</li> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> </ul>	ırs/Day, Days/Month, Months/Year)
7) Facility - Intensity of Use, Time(s) of Operation: (Hor	ırs/Day, Days/Month, Months/Year)
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li> </ul>	
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li> <li>9) Master Plan Status - Check one or more of the follow</li> </ul>	ving:
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li> <li>9) Master Plan Status - Check one or more of the follow a) Facility 'useful' life is less than five (5) years b) X Facility 'useful' life is more than five (5) years</li> </ul>	ving: 3. rS.
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	ving: s. rs. ed (by OSPB/CDHE)
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	ving: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hor 24/30/12</li> <li>8) Facility - Current Replacement Value \$ </li> <li>9) Master Plan Status - Check one or more of the follow <ul> <li>a) Facility 'useful' life is less than five (5) years</li> <li>b) X Facility 'useful' life is more than five (5) years</li> <li>c) Master Plan is obsolete; Last Date Approve</li> <li>d) Major facility changes, renovations, or prognext five years, (If yes, please explain below</li> </ul></li></ul>	ving: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	ving: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	ving: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hor 24/30/12</li> <li>8) Facility - Current Replacement Value \$ </li> <li>9) Master Plan Status - Check one or more of the follow <ul> <li>a) Facility 'useful' life is less than five (5) years</li> <li>b) X Facility 'useful' life is more than five (5) years</li> <li>c) Master Plan is obsolete; Last Date Approved</li> <li>d) Major facility changes, renovations, or prognext five years, (If yes, please explain below may have an impact on this CM request.)</li> </ul> </li> <li>10) Facility Audit Survey:</li> </ul>	wing: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	wing: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	ving: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions to SBP - Date % Completed
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	wing: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions to SBP - Date % Completed tion, and emergency projects completed within
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	wing: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions to SBP - Date % Completed tion. and emergency projects completed within
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	wing: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions to SBP - Date % Completed tion. and emergency projects completed within
<ul> <li>7) Facility - Intensity of Use, Time(s) of Operation: (Hot 24/30/12</li> <li>8) Facility - Current Replacement Value \$</li></ul>	ving: s. rs. ed (by OSPB/CDHE) ram revisions are ongoing or anticipated in the w if these facility renovations or program revisions to SBP - Date % Completed ction, and emergency projects completed within associated with either this CM building or

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Remove and replace deteriorated roofing components with up-to- date roofing systems. The project will include design and replacement of materials to facilitate better drainage and reduced water pooling. Replace insulation that has been damaged by previous leaks and or does not meet current energy code. Dry in the roof with 20 mil membrane per engineered specificifications to meet an 80 mph wind lift and a twenty year material warranty.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 555,580

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

The Engineering Building A and B wing roofs are experiencing multiple leaks and are in need of replacement. It will require increasing amounts of time and resources to repair leaks. At some point the roof will be beyond repair. The Engineering Building is a heavily utilitized laboratory and classroom building on main campus.

4) Mandatory - Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.

5) Optional - Include photographs and any other supporting documents.

6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This work will completely replace the Engineering Building A and B wing roofs.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

	2) Phase?1 of 1	1) Approved By
OSPB	of Estimate CSU estimate7/17/13 escalated by 2.3% as allowed by 0	3) Method and Dat
	of Estimate CSU estimate//1//15 escalated by 2.5% as anowed by	3) Method and Date

4) Professional Services	2016/2012/048	
Site Surveys, Investigations, and Reports:		
Arch/Eng/Basic Services:	52,033	
Code Review/Inspection:	2,638	10.194
Other (Explain):PM fee as allowed by HB14-1387	10,000	
Total of Professional Services:	\$64,671	

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM	UNIT	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	sf, cf, lf, etc.		
Infrastructure			
a) Utility Services:			
b) Site Improvements:			
Structure/Systems/Components		107445	040.004
A & B wings	19,100 sf	12.74/sf	243,264
Hallway Roof	4,000 sf	12.74/sf	50,945
Arcade Classroom	5,600 sf	12.74/sf	71,324
Other(explain):			
Contractor's General Conditions:			35,272
Contractor's Overhead & Profit:			39,636
Total of Construction Improvement Costs:	syrva nousencieji	one issues the s	\$440,441

5a) Total square feet/lineal feet of Construction Improvement area:	28,700
5b) Overall cost per square foot/lineal foot of construction Improvement:	15.35

#### 6) Miscellaneous (explain)

Total of Miscellaneous Costs:	and the second second second second second		\$

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	\$50,468	I
Contingency (10% Civi) (Fercentage of total of protocolorial sectors)		-
improvements, and miscellaneous costs.)		

8)	Total Cost of the Project (single phase) or Total for this specific Phase of all	\$555,580	
-,	professional services (4), construction improvements(5), miscellaneous		
	costs(6), and project contingency(7)		

Note: Agency formatted cost estimates may accompany this page.

\$

### OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2015/2016 STATE BUILDINGS PROGRAMS

# E. PROPOSED PHASING

## PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		A CONTRACTOR OF THE OWNER
	FY 2012/2013		
	FY 2013/2014		
and the second second	FY 2014/2015		

(Subtotal)

## CURRENT PHASE<sup>2</sup> REQUESTED

Proi	Fiscal Year	Phase of Work	Dollar Amount
Proj. M#	A State of the second second		(Per Detailed
			Budget)
	FY 2015/2016	Phase 1 of 1	\$555,580

# FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed
and a strend in some stations	(a) and the construction which is because it is a second secon		Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
		(Subtotal)	\$

TOTAL PROJECT DOLLAR AMOUNT

\$ 555,580

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

<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)	7/1/2015	10/1/2015
2. Design (Insert Dates)	11/1/2015	4/1/2016
3. Construction (Insert Dates)	5/1/2016	9/1/2016
4. Project Close-out/Final Completion	10/1/2016	12/1/2016

# Facilities Audit Program **Building Summary**

Number: 0041 Building Name: Engineering Net Square Feet: 198,530 Gross Square Feet: 211,410 Construction Date: 1957 Date of Audit: 09/21/2009 Cycle: 7 Phase: 1 No. of Stories: 2 Classification: M120 Classroom, 2-3 Story SBP Class: 12 Engineering

Replacement Cost:	\$106,236,273.33	Cost Per SF:	\$502.51	
Component	Total Rating	Multiplier Used	Component Deficiency	Renewal Cost
Foundation	0.1000	0.02	0.0020	\$212,472.55
Ext Walls	0.0800	0.04	0.0032	\$339,956.06
Floors	0.2500	0.12	0.0300	\$3,187,088.13
Roof	0.4000	0.05	0.0200	\$2,124,725.53
Ceiling	0.3500	0.04	0.0140	\$1,487,307.77
Int Walls	0.2000	0.06	0.0120	\$1,274,835.27
Windows	0.1650	0.03	0.0049	\$525,869.56
Doors	0.2500	0.04	0.0100	\$1,062,362.71
Cool Vent	0.0530	0.08	0.0042	\$450,441.78
Heat	0.0280	0.09	0.0025	\$267,715.43
Plumbing	0.1500	0.07	0.0105	\$1,115,480.92
Electrical	0.0784	0.11	0.0086	\$916,181.63
Convey	0.2500	0.01	0.0025	\$265,590.68
Safety	0.0500	0.01	0.0005	\$53,118.14
AE/OP	0.1250	0.18	0.0225	\$2,390,966.43

**Component Deficiency Total:** 

0.1475

**Outstanding Maintenance:** \$15,674,112.80 Facilities Condition Index (FCI): 85.25

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013





### Remodel Services Facilities Service Center North

To:

Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed 
 Date:
 07/17/13

 Project #:
 CMFY150009

 Customer ID#
 6030

 Expiration Dat 10/15/2013

Mike Rice Facilities Management 491-0032

P.M.	Phone #	Project title		
Barry Willier	567-6709	Engineering A and B Wing Roof Replacment		
Quantity	Labor/Material	Description	Unit Price Less	received Line Total
1.00	Roof	Remove existing and install new roof. Includes	\$ 286,500.00	286,500.00
	A&B Wing	removal roof membrane, roof insulation down to roof		
	Old Roof	substructure. Install and attach new roof insulation to		
	Sections	provide pitch for water drainage and install new 60		
		mil epdm roof membrane. Provide 20 years warranty.		
		Work scope is approx. 19,100 sq. ft.		
1.00	Roof	Same scope as above to replace with new roof.	60,000.00	60,000.00
	A&B Wing	Work Scope is approx. 4000 sq. ft.		
	Hallway			
	Arcade			
1.00	Roof	Add alternate to install new roof on Arcade		
	Arcade	Classroom. Work scope is approx. 5600 sq. ft.		
	Classroom	Add \$84,000 for construction and \$23,100 to cover		
		design, PM and contingencies. Total \$107,100.00		
			Construction	n Subtotal 346,500.00
			Co	ntingency 34,650.00
		Design fee:	5	\$ 34,650.00
		Third Party Code review	1	1,378.80
		Code Inspection:	S	\$ 1,200.00
			PM Fees	\$ 25,987.50
This magnitude of	of cost is based on i	nformation which is now known and reasonably apparent from our	Advertisement fees	\$ 350.00
investigation. It i process could cau	s possible that unkr	nown conditions, a more detailed analysis, changes in scope and the bloding ages in the estimate. This is a preliminary cost opinion; do not send an WOA for		Total <b>\$ 444,716.30</b>
This is a cost opin	nion on the Project	named, subject to the conditions noted below:		
2. Asbestos or Le	ad hazard assessme	riory to moving is not included. ent or abatement is not covered unless stated		
3. This quote doe	s not cover the acct act Telecom to activ	ivation of phone and Data lines the customer		
If you wish	to proceed :	submit a Kuali Transfer of Funds document for the		
amount sho	own in red to	the right, covering Design fees, Code Review fees,		
		ds to be sent to Facilities -6030 to the attention of		\$ 49,022.55
the project		and require all ringle Burchase orders over \$50,000		
State Purcha	ising Regulatio	ons require all single Purchase orders over \$50,000 Thank you for your business!		
		mank you for your business:		
		251 Edison Dr., Fort Collins, CO 80523-60	30	

X	Cor	trolled Maintena	ance	Capital Renewal Build	and the second
	Rec	uest		HPCP required in Cap (on CC-A specify HPCF	<b>bital Renewal Request (Y/N)</b> P compliance)
) Age	ency	Colorado S	tate Univers	sity –Fort Collins	
2) De	partn	hent Higher Edu	cation	10/85	
3) Age	ency	ID No. 8-2016		F	Project M #
4) Ag	ency	Priority # 1			
5) Pro	oject	Title Replace de	eteriorated s	storm water lines Main Campu	JS
B. FA	ACIL	TY PROFILE			
CERTIFICATION CONTRACTOR	and the second		Utilities unde	erground)	
1	27.005.00×		e (Improven	nents above ground)	
		or Bu	ilding Name	(s)	
		Risk	Mgmt. Bldg(	s) ID#	
2) Fa	cility	Location Main C	ampus	100-012-000-000-000-000-000-000-000-000-	
3) Fa	cility	Area/Age GSF		ASF	Date Built
4) Fa	cility	Functional Use/Oc	cupancy _		
5) Fa	cility	Construction (Type	)		
5) Fa	cility	Physical Condition	and Facility	Condition Index (FCI) Numb	er
a hard a state	and the second		A CARLES AND A CAR		
-	Decodes of the	CI =	Target	ted FCI =	Date of Last Audit
-	tual F escrit		Target	ted FCI =	Date of Last Audit
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(De 7) Fa 24/ 8) Fa	cility 230/11	- Intensity of Use, 2 - Current Replacer	Target Time(s) of C nent Value S	bperation: (Hours/Day, Days/I	Date of Last Audit
(De 7) Fa 24/ 8) Fa 9) Ma	cility 230/11	- Intensity of Use, 2 - Current Replacer Plan Status - Chec	Target Time(s) of C nent Value S	Deperation: (Hours/Day, Days/ \$ pre of the following:	Date of Last Audit
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(De 7) Fa 24/ 8) Fa 9) Ma a) b)	cility 230/11	- Intensity of Use, 2 - Current Replacer Plan Status - Chec Facility 'useful' life Facility 'useful' life	Target Time(s) of C nent Value s k one or mo is less that is more that	Deperation: (Hours/Day, Days/ pore of the following: n five (5) years. an five (5) years.	Month, Months/Year)
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N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace approximately 1,250 linear feet of storm line starting at west side of the Oval and running to the east edge of Main Campus. New pipe will be 48" concrete and 7 manholdes will also be replaced. These lines date from the early 1950's, when the original combined storm and sanitary utilities were separated. This line has significant root intrusion issues, and the manholes are brick and losing structural strength. It is only capable of handling a 2-year storm event, but storm sewers should be capable of handling a 10-20 year storm event.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 1,017,178

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

The storm sewer line that this project addresses does not have sufficient capacity. In the event of a 10-20 year storm we will experience backup of the storm sewer into Engineering, Morgan Library and the Student Center, resulting in loss of use of those facilities.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

These new lines will be 48" concrete which will alleviate the root infiltration problems and insufficient capacity problems in the current system.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase? 1 of 1
3) Method and Date of Estimate	CSU estimate 7/22/13 escalated by 2.3% as allowed by OSPB

4) Professional Services

Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	89,543
Code Review/Inspection:	2,692
Other (Explain): PM fee as allowed by HB14-1387	20,000
Total of Professional Services:	\$112,235

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

<u>WORK ITEM</u> (Labor/Material/Equipment)	UNIT sf, cf, lf, etc.	UNIT COST	EXTENDED COST
Infrastructure		and the set	
a) Utility Services:	1,250	\$234	292,500
b) Site Improvements:	1,250	\$ 65	81,250
Structure/Systems/Components			
Manhole replacement	7	\$12,736	89,152
Railroad track pipe jack	1	\$152,836	152,836
Other(explain):			
Allowance for repair/relocate adjacent utilities			63,682
Contractor's General Conditions:			59,871
Contractor's Overhead & Profit:			67,355
Total of Construction Improvement Costs:			\$806,646

5a) Total square feet/lineal feet of Construction Improvement area:1,2505b) Overall cost per square foot/lineal foot of construction Improvement:645.32

6) Miscellaneous (explain)

	and the second second	Same States and	
Total of Miscellaneous Costs:			\$

#### 7) Project Contingency

Contingency (10% CM) (Percentage of total of professional services, construction	598,297
improvements, and miscellaneous costs.)	

al folar cost of the Florect (single phase) of rotation the epectine	\$1,017,178	
professional services (4), construction improvements(5), miscellaneous	a start and a start and a start a	
costs(6), and project contingency(7)		

Note: Agency formatted cost estimates may accompany this page.

#### E. PROPOSED PHASING

#### PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
	FY 2011/2012		
	FY 2012/2013		
	FY 2013/2014		L **
and the set	FY 2014/2015		
and the second second		(Subtotal)	\$

(Subtotal)

### CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount
M#			(Per Detailed Budget)
	FY 2015/2016	Phase 1 of 1	1,017,178

# FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Per Detailed Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
		(0.14-4-1)	¢

(Subtotal)

\$ 1,017,178

### TOTAL PROJECT DOLLAR AMOUNT

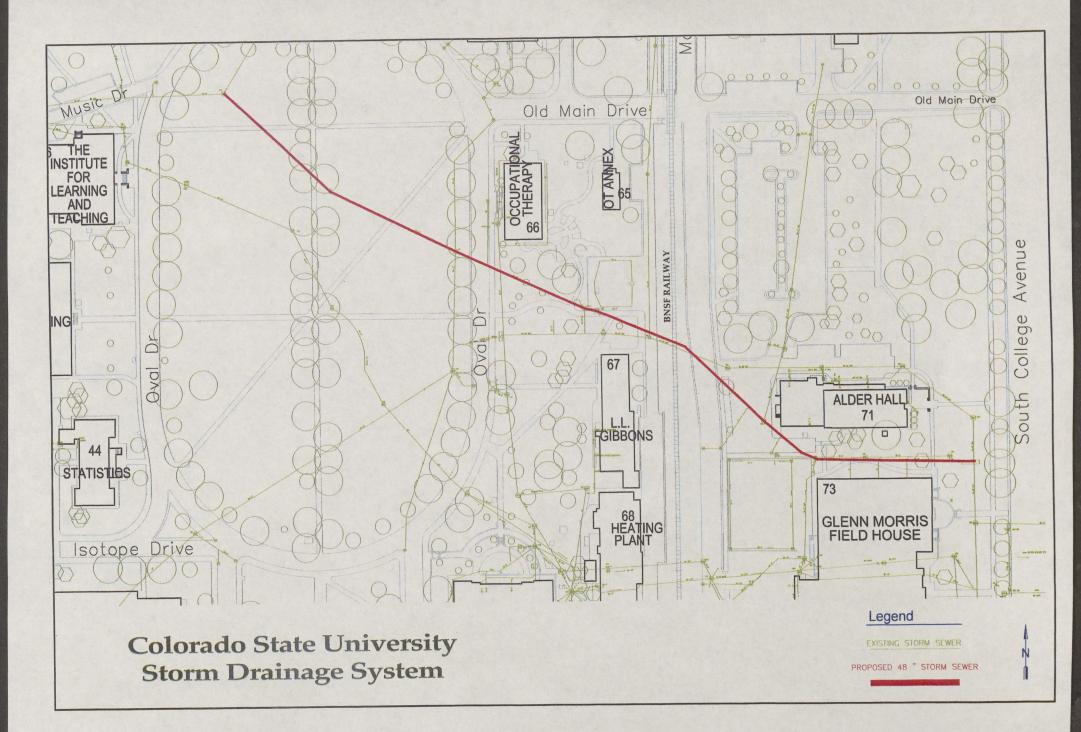
(All Prior, Future Phases subtotals and Current Dollar amount)

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

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)		<u></u>
2. Design (Insert Dates)	7/1/2015	3/1/2016
3. Construction (Insert Dates)	4/1/2016	10/1/2017
4. Project Close-out/Final Completion	11/1/2017	11/1/2017





Gene Ellis Facilities Services 491-0047

Remodel Services Facilities Service Center North

To:

Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed 
 Date:
 07/22/13

 Project #:
 CMFY15005

 Customer ID#
 6030

 Expiration Date:
 10/20/2013

Keven Carroll 491-6234 CMFY 150011 Storm Utility Replacement

Contraction of the		Review scope and cost for budgetary concerns. Replace 1250	an fra antes an Den Statum et al an S	
		linear feet of storm drains starting a Manhole numer 118 running to the East side of College Avenue. Includes 7 manholes, running trap replacement and railroad crossing.		
		nanoz, unung aup replacentia ana renova coorag.		
1.00	Contractor	Install 1250 linear ft of 48" concrete drain pipe to	276,562.50	276,562.50
		replace existing smaller storm drain. Includes		
		removing existing as required and abandoning in place		
		if needed based on limitations.		
1.00	Contractor	7 Manhole replacements - remove existing, install new	105,000.00	105,000.00
1.00	Contractor	Railroad track pipe jack to install 48" storm drain under	180,000.00	180,000.00
1.00	Contractor	Hardscape and softscape repair/replacment/ traffic control	95,000.00	95,000.00
1.00	Contractor	Utility repairs/rerouting	75,000.00	75,000.00

	C	onstruction Subtotal	731,562.50
		Contingency	73,156.25
Design fe	es		\$ 87,787.50
Third Party Code revie	w		2,105.75
Code Inspection	ns		\$ 525.00
	PM Fees	· · ·	\$ 81,935.00
This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion: do not send an WOA for construction based upon this amount.	Advertisen	ent fees Total	\$ 977,072.00
many of the Design second subject to the conditions noted below.			

.

This is a cost opinion on the Project named, subject to the conditions noted below: 1. Packing of book shelves or files priory 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 acctivation of phone and Data lines the customer

will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of Sherry McElwain.

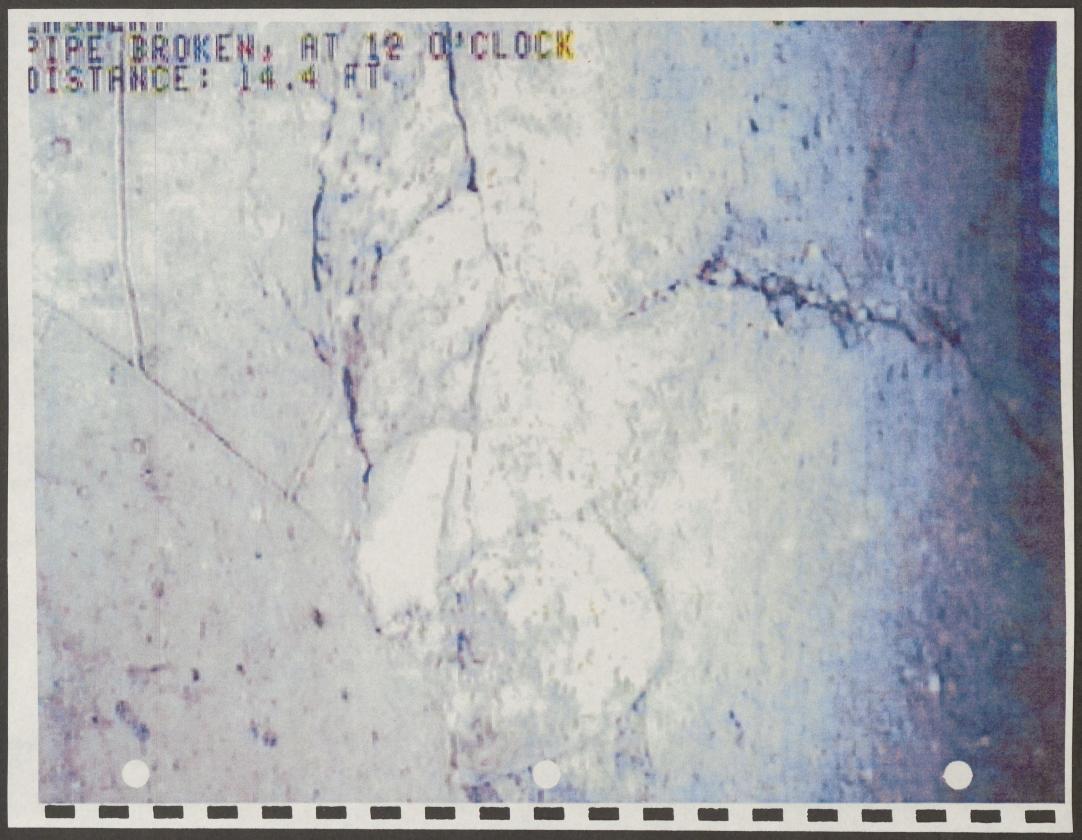
\$ 130,860.75

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030







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A. AGENCY BASIC			
X Controlled M	aintenance		ding/Infrastructure Request
Request	[	(on CC-A specify HPC	<b>pital Renewal Request (Y/N)</b> P compliance)
1) Agency Co	lorado State Univ	ersity –Fort Collins	·
2) Department Hig	gher Education	183	
3) Agency ID No.	9-2016		Project M #
4) Agency Priority #	1		
5) Project Title Re	place obsolete B	uilding Automation Control Syst	em
B. FACILITY PROF	FILE		
1) Facility Type	Site (Utilities u	nderground)	
		ements above ground)	
x	or Building Na	me (s) Various-Building au	tomation software
-	Risk Mgmt. Blo	Physical Phy	
2) Facility Location	Main Campus		
3) Facility Area/Age	GSF	ASF	Date Built
4) Facility Functional	「「「「「「」」」」「「「」」」」」」「「「」」」」」」」」」」」」」		
5) Facility Constructi		965	
5) Facility Construct	ondition and Eac	lity Condition Index (FCI) Numb	Der
Actual FCI =	Tar	geted FCI =	Date of Last Audit
(Describe)		5	
7) Facility - Intensity 24/30/12	of Use, Time(s) of	of Operation: (Hours/Day, Days/	Month, Months/Year)
8) Facility - Current I	Replacement Valu	Je \$	
		more of the following:	
			elines more than the variable
		than five (5) years.	a VEL motorn data skillsonute los
and the set of the set		ast Date Approved (by OSPB/C	
	and a real state to be	evotions or program revisions	are ongoing or anticipated in the
next five	years, (If yes, ple e an impact on th	ase explain below if these facili	ty renovations or program revisions
10) Facility Audit Su	rvey:		
a) Facility Aud	it Survey conclud	ed and submitted to SBP -	Date
	e Infrastructure A		% Completed
	it Survey Cycle		
11) List all the contro the last five year	olled maintenance rs or ongoing proj	e, capital construction, and eme ects that can be associated wit	ergency projects completed within h either this CM building or
infrastructure re	quest.		Completion
Project No.	Project Title		date or status
1.10100.110.	unter fan Andrea Antonio andrea andrea andrea de 1933 (d.		

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Remove and replace 20-year-old obsolete Building Automation Control (BAS) system components with up-to-date equipment consistent with current strategies in BAS control. Current controls strategies have evolved to focus on non-proprietary control languages, giving way to the opportunity for competitive bidding in subsequent years or projects. Johnson Controls has announced that they will no longer support their current proprietary legacy BAS hardware and software in the effort to follow suit with the emerging strategies. In doing so they have forced CSU to seek out third party vendors who specialize in backfilling components and software at a greatly increased cost and questionable reliability. The system utilizes 16-bit architecture requiring a Microsoft XP professional platform, which will not be supported by Microsoft after March 2014. There are currently 48 buildings dependent on this obsolete system, monitored by 32 controllers. Half of these buildings house research labs. Over 11,000 points are monitored.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 1,020,133

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

Failure of building automation system for buildings on the obsolete system will result in loss of fire alarm and security notifications to CSU PD and Facilities, resulting in closure of the building until repairs are made. There is a potential for substantial building damage if BAS points are not reporting/activating correctly, with subsequent loss of research and building use . CSU will pay higher costs to continue to support outdated, proprietary building automation software, rather than be able to use competetive bids when updates are needed.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

CSU has invested significant funds over the years in building automation systems for energy efficiency and alarm point monitoring. The first systems installed are now over 20 years old and are not compatible with modern HVAC equipment. Their trending and alarm capabilities are inadequate for today's needs. Updated equipment that will focus on non-proprietary control languages will make system upgrades less expensive and provide improved monitoring/alarm capabilities. This will result in better building control and improved energy efficiency.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase?1 of 1
3) Method and Date of Estimate	7/31/2013 escalated by 2.3% as allowed by OSPB

4)	Professional	Services
	1000000000	00111000

4) Holessional Cervices	
Site Surveys, Investigations, and Reports:	50.000
Arch/Eng/Basic Services:	52,608
Code Review/Inspection:	2,445
Other (Explain):	055.050
Total of Professional Services:	\$55,053

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORKITEM	UNIT sf, cf, lf, etc.	UNIT COST	EXTENDED COST
(Labor/Material/Equipment)	51, 61, 11, 610.	and the second second	
Infrastructure 100 h00 h			
a) Utility Services:	per en		and the second
b) Site Improvements:			
Structure/Systems/Components	32 ea	22,554	721,731
Structure/Systems/components			
Other(explain):			
Contractor's General Conditions:			64,955
Contractor's Overhead & Profit:			82,868
Total of Construction Improvement Costs:	CT PLANDE	NAME AND A	\$869,554
Total of Construction improvoment conten			

5a) Total square feet/lineal feet of Construction Improvement area:32 ea5b) Overall cost per square foot/lineal foot of construction Improvement:27,173.56

6) Miscellaneous (explain)

() (IIIC) (IIIC)		
	and the second second second	
Total of Miscellaneous Costs:		\$

#### 7) Project Contingency

T) Toject comingency	\$05 526
Contingency (10% CM) (Percentage of total of professional services, construction	430,020
Contingency (10% ow) (1000 mage et total of p	
improvements, and miscellaneous costs.)	
Inprovements, and missementee early	

8) Total Cost of the Project (single phase) or Total for this specific Phase of all	\$1,020,133
professional services (4), construction improvements(5), miscellaneous	
costs(6), and project contingency(7)	

Note: Agency formatted cost estimates may accompany this page.

#### E. PROPOSED PHASING

### PRIOR PHASING<sup>1</sup>

Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)
FY 2011/2012		
FY 2012/2013		
FY 2013/2014		
FY 2014/2015		
	FY 2011/2012           FY 2012/2013           FY 2013/2014	Work           FY 2011/2012           FY 2012/2013           FY 2013/2014

(Subtotal)

### CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount
Proj. M#			(Per Detailed Budget)
	FY 2015/2016	Phase 1 of 1	\$1,020,133

### FUTURE PHASING<sup>2</sup>

Proj. M#	Fiscal Year	Phase or Phases of	Dollar Amount
M#		Work	(Per Detailed
a generative card and and	1224 221	723.001	Budget)
	FY 2016/2017		
	FY 2017/2018		
	FY 2018/2019		
	FY 2019/2020		
		(Subtatal)	9

(Subtotal)

\$1,020,133

# TOTAL PROJECT DOLLAR AMOUNT

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

<sup>1</sup> List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

#### F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)		The same and the second second
2. Design (Insert Dates)	7/1/2015	10/1/2015
3. Construction (Insert Dates)	11/1/2015	11/1/2016
4. Project Close-out/Final Completion	12/1/2016	12/1/2016

\$



Budget Opinion

**Remodel Services** Facilities Service Center North

> To: Steve Hultin Facilities

This is only for Budgetary consideration only. Price may change atter design is completed

07/16/13 Date: CMFY15014 Project #: Customer ID# 6030 Expiration Date: 10/14/2013

	Inclution			
	491-0006			
	132 Fac North	1		
Tony Flores	491-0589	Campus Obsolete Controls upgrades		
1.00	JCI	1. Upgrade (32) Network Controller Automation	Unit Price - Lessons \$ 850,000.00	wed Lan Total 850,000.00
1.00	,	Engines - Labor and hardware 2. Bind MEA Points to existing graphics - software		

**Construction Subtotal** 850,000.00 42,500.00 Contingency \$ 8,500.00 Design fees 2,390.00 Third Party Code review Code Inspections N/A \$ 42,925.00 PM Fees Advertisement fees 946,315.00 Total \$

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

This is a cost opinion on the Project named, subject to the conditions noted below:

upgrade - Labor and hardware

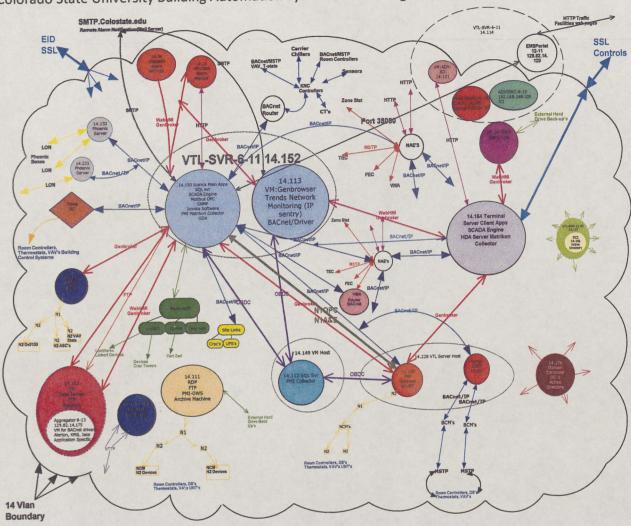
Ba cost opinion on the reject named, subject to the conditions noted below
 Packing of book shelves or files priory to moving is not included.
 Asbestos or Lead hazard assessment or abatement is not covered unless stated
 This quote does not cover the activation of phone and Data lines the customer will need to contact Telecom to activate lines

State Purchasing Regulations require all single Purchase orders over \$50,000

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right , covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

¢	32 352 50
Þ	32,352.50

Thank you for your business! 251 Edison Dr., Fort Collins, CO 80523-6030



Colorado State University Building Automation System Networking Infrastructure

K Cor	trolled Maintenance	Capital Renewal Building/Infrastructure Request
	luest	(on CC-A specify HPCP compliance)
I) Agency	Colorado State Unive	
2) Departr	Sector States	(1) 4 (4) 4 (4) (4) (4) (4) (4) (4) (4) (4
3) Agency		Project M #
A Station of the second	Priority # 1	
5) Project	Title Underground electric	service-Foothills Campus XCEL substation to west meter point
	ITY PROFILE	
1) Facility		derground)
() Facility		ements above ground)
	or Building Nam	
	Risk Mgmt. Bldg	
2) Facility		
<ol> <li>Facility</li> <li>Facility</li> </ol>	and the second	ASF Date Built
and the second second second second	Functional Use/Occupancy	Mar Convert account of the Convert
a film and the state of the	and the second	se
5) Facility	Construction (Type)	ity Condition Index (FCI) Number
		Dete of Loot Audit
Actual	-CI = I arg	peted FCI = Date of Last Audit
Actual I (Descri		jeted FCI = Date of Last Audit
(Descri 7) Facility	be) - Intensity of Use, Time(s) of	f Operation: (Hours/Day, Days/Month, Months/Year)
(Descri 7) Facility 24/30/1	be) - Intensity of Use, Time(s) of 2	f Operation: (Hours/Day, Days/Month, Months/Year)
(Descri 7) Facility 24/30/1 8) Facility	- Intensity of Use, Time(s) of 2 - Current Replacement Value	f Operation: (Hours/Day, Days/Month, Months/Year)
(Descri 7) Facility 24/30/1 8) Facility 9) Master	be) - Intensity of Use, Time(s) of 2 - Current Replacement Value Plan Status - Check one or r	f Operation: (Hours/Day, Days/Month, Months/Year) e \$ more of the following:
(Descri 7) Facility 24/30/1 8) Facility 9) Master a)	<ul> <li>be)</li> <li>- Intensity of Use, Time(s) of</li> <li>2</li> <li>- Current Replacement Value</li> <li>Plan Status - Check one or r</li> <li>Facility 'useful' life is less th</li> </ul>	f Operation: (Hours/Day, Days/Month, Months/Year) e \$ more of the following: nan five (5) years.
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X	<ul> <li>- Intensity of Use, Time(s) of</li> <li>2</li> <li>- Current Replacement Value</li> <li>Plan Status - Check one or r</li> <li>Facility 'useful' life is less th</li> <li>Facility 'useful' life is more to</li> </ul>	f Operation: (Hours/Day, Days/Month, Months/Year) e \$ more of the following: han five (5) years. than five (5) years.
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c)	<ul> <li>be)</li> <li>Intensity of Use, Time(s) of 2</li> <li>Current Replacement Value</li> <li>Plan Status - Check one or r</li> <li>Facility 'useful' life is less th</li> <li>Facility 'useful' life is more to</li> </ul>	f Operation: (Hours/Day, Days/Month, Months/Year) e \$ more of the following: han five (5) years. than five (5) years. ast Date Approved (by OSPB/CDHE)
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X	<ul> <li>be)</li> <li>Intensity of Use, Time(s) of 2</li> <li>Current Replacement Value</li> <li>Plan Status - Check one or r</li> <li>Facility 'useful' life is less th</li> <li>Facility 'useful' life is more to</li> <li>Master Plan is obsolete; La</li> </ul>	f Operation: (Hours/Day, Days/Month, Months/Year) e \$ more of the following: han five (5) years. than five (5) years. ast Date Approved (by OSPB/CDHE) ovations, or program revisions are ongoing or anticipated in the ase explain below if these facility renovations or program revision
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c) d)	be) - Intensity of Use, Time(s) of 2 - Current Replacement Value Plan Status - Check one or r Facility 'useful' life is less th Facility 'useful' life is more the Master Plan is obsolete; La Major facility changes, renormer next five years, (If yes, plearmay have an impact on this	f Operation: (Hours/Day, Days/Month, Months/Year) e \$ more of the following: han five (5) years. than five (5) years. ast Date Approved (by OSPB/CDHE) ovations, or program revisions are ongoing or anticipated in the ase explain below if these facility renovations or program revision
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c) d) X c) d)	be) - Intensity of Use, Time(s) of 2 - Current Replacement Value Plan Status - Check one or r Facility 'useful' life is less th Facility 'useful' life is more t Master Plan is obsolete; La Major facility changes, reno next five years, (If yes, plea may have an impact on this ty Audit Survey:	f Operation: (Hours/Day, Days/Month, Months/Year) e \$
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c) d) X c) d) 10) Facili a) [	be) - Intensity of Use, Time(s) of 2 - Current Replacement Value Plan Status - Check one or r Facility 'useful' life is less th Facility 'useful' life is more the Master Plan is obsolete; La Major facility changes, renormer next five years, (If yes, plearmay have an impact on this	f Operation: (Hours/Day, Days/Month, Months/Year) e \$
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c) d) 10) Facili a) Facility b) X c) d)	<ul> <li>be)</li> <li>Intensity of Use, Time(s) of 2</li> <li>Current Replacement Value</li> <li>Plan Status - Check one or r</li> <li>Facility 'useful' life is less th</li> <li>Facility 'useful' life is more f</li> <li>Master Plan is obsolete; La</li> <li>Major facility changes, renore to the second s</li></ul>	f Operation: (Hours/Day, Days/Month, Months/Year) e \$
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c) d) 10) Facili a) f b) 2 c) f 11) List a the la	be) - Intensity of Use, Time(s) of 2 - Current Replacement Value Plan Status - Check one or r Facility 'useful' life is less th Facility 'useful' life is more f Master Plan is obsolete; La Major facility changes, reno next five years, (If yes, plea may have an impact on this ty Audit Survey: Facility Audit Survey conclude Status of the Infrastructure As Facility Audit Survey Cycle Il the controlled maintenance ast five years or ongoing proje	f Operation: (Hours/Day, Days/Month, Months/Year) e \$
(Descri 7) Facility 24/30/1 8) Facility 9) Master a) b) X c) d) 10) Facili a) f b) 2 c) f 11) List a the la	<ul> <li>be)</li> <li>Intensity of Use, Time(s) of 2</li> <li>Current Replacement Value</li> <li>Plan Status - Check one or r</li> <li>Facility 'useful' life is less th</li> <li>Facility 'useful' life is more to</li> <li>Master Plan is obsolete; La</li> <li>Major facility changes, rendonext five years, (If yes, pleating have an impact on this</li> <li>ty Audit Survey:</li> <li>Facility Audit Survey conclude</li> <li>Status of the Infrastructure As</li> <li>Facility Audit Survey Cycle</li> </ul>	f Operation: (Hours/Day, Days/Month, Months/Year) e \$

N/A

#### C. INTEGRATED PROGRAM PLAN DATA

**NOTE:** For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

This project will replace 2150 ft of the existing 4/0 overhead 13.2 kV distribution line with 500 kcmil aluminum underground line west from the new XCEL substation to the old XCEL metering point. Project will follow the same route as the existing 4/0 overhead line, and install a new two-way ductbank, 500dcmil aluminum EPR conductor with associated switches and hardware.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 991,928

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

8 out of the 17 poles on this line are over 50 years old. The life expectancy of wood poles is normally expected to be 30 years. By placing this line underground, we will be able to eliminate the problems we have with trees growing into the line and animals getting into the line, which will improve reliability.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

CSU has already invested significant funds in placing the overhead electric lines on the Foothills Campus underground. The improved reliability is important to the research facilities on the Foothills Campus.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

1) Approved By	2) Phase? 1 of 1
2) Mothod and Date of Estimate	7/31/2013 estimate inflated by 2.3% as allowed by OSPB

#### 4) Professional Services

+) Troicsoional contract	
Site Surveys, Investigations, and Reports:	
Arch/Eng/Basic Services:	60,461
Code Review/Inspection:	6,266
Other (Explain):PM services as allowed by HB14-1387	10,000
Total of Professional Services:	\$76,727

# 5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

WORK ITEM (Labor/Material/Equipment)	<u>UNIT</u> sf, cf, lf, etc.	<u>UNIT COST</u>	EXTENDED COST
a) Utility Services:	2150	318.41	684,579
b) Site Improvements:			
Structure/Systems/Components			
Other(explain):			
Ocerte stade Conoral Conditions:			65,984
Contractor's General Conditions: Contractor's Overhead & Profit:			74,231
Total of Construction Improvement Costs:		the second second	\$824,794

5a) Total square feet/lineal feet of Construction Improvement area:2150 lf5b) Overall cost per square foot/lineal foot of construction Improvement:\$383.63

#### 6) Miscellaneous (explain)

0) 11100011111000	•		
			\$
Total of Miscellaneous Costs:	Constant and Const	Children and a stand of a stand of the	Φ

#### 7) Project Contingency

T) Troject containing only	\$00 407
Contingency (10% CM) (Percentage of total of professional services, construction	ψ <del>3</del> 0, <del>4</del> 01
Contingency (1078 Civi) (1 crochtage of total of p	
improvements, and miscellaneous costs.)	
improvements, and miscellaneous costs.)	

8) Total Cost of the Project (single phase) or Total for this specific Phase of all	\$991,928	
professional services (4), construction improvements(5), miscellaneous		
costs(6), and project contingency(7)		

Note: Agency formatted cost estimates may accompany this page.

# E. PROPOSED PHASING

# PRIOR PHASING<sup>1</sup>

Proj. M#	Fiscal Year	Phase or Phases of Work	Dollar Amount (Actual Appropriation)		
	FY 2011/2012				
	FY 2012/2013				
	FY 2013/2014				
	FY 2014/2015				

(Subtotal)

# CURRENT PHASE<sup>2</sup> REQUESTED

Proj.	Fiscal Year	Phase of Work	Dollar Amount	
M#			(Per Detailed Budget)	
	FY 2015/2016	Phase 1 of 1	\$991,928	

# FUTURE PHASING<sup>2</sup>

Proj.	Fiscal Year	Phase or Phases of	Dollar Amount
Proj. M#		Work	(Per Detailed Budget)
	FY 2016/2017		
	FY 2017/2018		
and and a second	FY 2018/2019		Letter Contract States
- species -	FY 2019/2020		·
		(Subtotal)	2

(Subtotal)

\$ 991,928

# TOTAL PROJECT DOLLAR AMOUNT

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

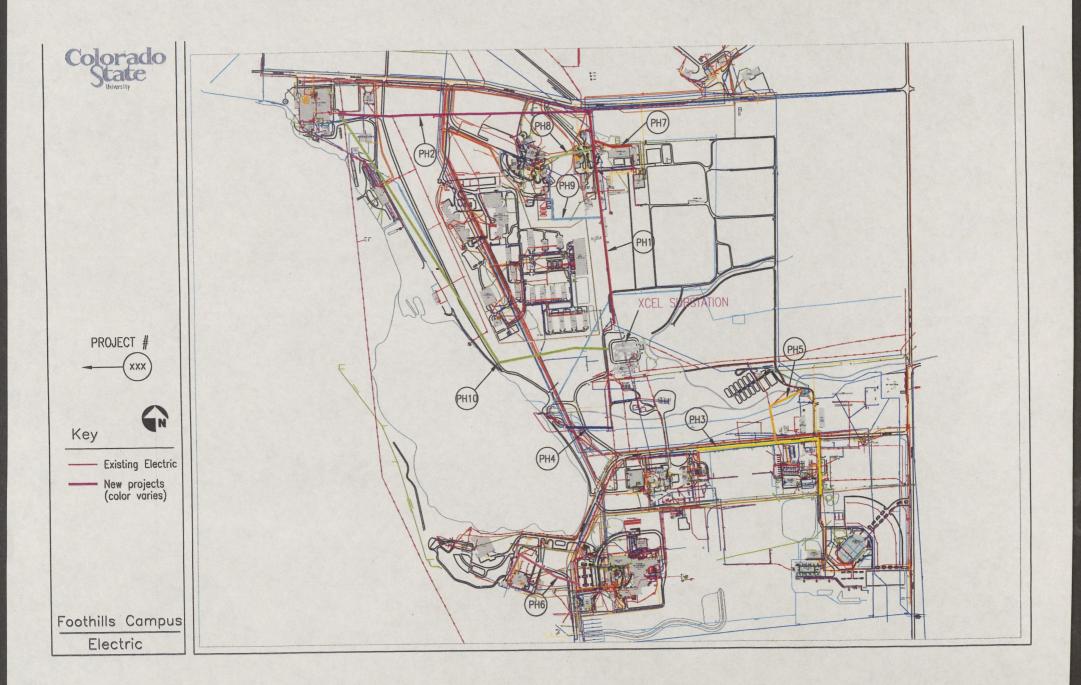
<sup>1</sup> List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.

<sup>2</sup> List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

# F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE	FROM	ТО
1. Pre-Design (Insert Dates)		
2. Design (Insert Dates)	7/1/2015	10/1/2015
3. Construction (Insert Dates)	11/1/2015	7/1/2016
4. Project Close-out/Final Completion	8/1/2016	8/1/2016

\$



# FACILITIES OPERATIONS - PROJECT COST OPINION

PROJECT:	FC - UG North FDI	R N XCEL Sub to Meter Point		ESTIMATOR:	Michael Randall	
		PROJECT NUMBER:	206	_ PHASE:	NA	
BUILDING:	NA	BLDG No.	NA	PRINT DATE:	September 3, 2014	
				WO NUMBER: None		

This project would replace 2150 ft of the existing 4/0 overhead 13.2 kV distribution line with 500 kcmil aluminum SCOPE: underground line west from the new XCEL substation to the old XCEL metering point.

ESTIMATE DATE: June 21, 2013 ESTIMATE LEVEL: Initial Approximation			DST INION
CONSTRUCTION C1 Base Contract C2 Site Work C3 Landscape		\$	806,250
C4 Utilities C5 Fixed Equipment C6 Bonding C7 Contingency Total Construction	2% 10%	\$ \$ <b>\$</b>	16,125 82,238 <b>904,61</b> 3
DESIGN PROFESSIONAL SERVICES D1 Program Planning D2 FM Design D3 Consultants A/E D4 Reimb. Expenses D5 Surveys D6 Soils Tests	0% 5%	\$	40,313
D7 Const. Testing D8 Test & Balance D9 Contingency Total Design	5%	\$ \$	2,010 <b>42,32</b> 0
EQUIPMENT E1 Moveable Equip E2 Telephones E3 Other Total Equipment		\$	
ADMINISTRATION A1 P.M. Fee (Variable Percentage Formula) A2 FM Trade Support A3 Advertising	· · · · ·	\$	16,77
A4 Misc. Expenses Total Administration		\$	16,77
MISCELLANEOUS M1 % for Art M2 Inflation Factor			
M2 Inflation Factor M3 3rd Party Review Total Miscellaneous		\$	
TOTAL PROJECT COST OPINION *		\$	963,70

\*Cost Opinion - Estimates prepared by Architects/Engineers are to provide guidance for the client.

Margin of error or unknown factors could increase the actual cost by up to 30% or more.

K:\PLANNING\Controlled Maintenance\CM Report for Rod FY 15-16\CMBR docs\substation to west meter\[FC - UG North FDR N. XCEL Sub t

# RECEIVED

MAY 29 2015

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