

Office of the Chief Financial Officer and Treasurer

January 7, 2021

The Honorable Eric J. Holcomb Governor of the State of Indiana Statehouse Indianapolis, IN 46204

Dear Governor Holcomb:

At its meeting on December 4, 2020, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for the Armstrong Hall Metal Panel Roof Repair and Rehabilitation Project.

This project includes the repair of approximately 24,000 square feet of the metal panel section of the Armstrong Hall of Engineering roof. Existing metal panels will be removed, new plywood and a membrane will be installed, and then the metal panels will be reinstalled with stronger rivets and extra clips. The majority of the metal panels will be reused, and some new panels will be manufactured to replace any damaged panels.

This project will address safety concerns, repair damaged areas of the roof and prevent future damage by increasing the security of the metal panels. The overall life of the roof will be extended by 20-25 years as a result.

The estimated total project cost is \$3,500,000, funded by Repair and Rehabilitation Appropriations.

Subject to review by the Commission for Higher Education and recommendation by the State Budget Committee and the Budget Agency, we request your approval to proceed with this project. Attached are the completed forms that the Commission has prescribed for its review of such projects. We will be happy to answer any questions you or your staff may have or to provide any additional information that is needed.

Sincerely,

Christopher A. Ruhl

Chief Financial Officer and Treasurer

Attachments

c: Alexa Deaton, Chief Financial Officer, Indiana Commission for Higher Education Jasmine Williams, Director of Finance, Indiana Commission for Higher Education Zachary Jackson, Director, Indiana State Budget Agency Andy Cummings, Assistant Director, Indiana State Budget Kathleen Thomason, Comptroller, Purdue University Anne Hazlett, Senior Director, Government Relations, Purdue University

PROJECT COST SUMMARY

Institution: Campus: Previously approved by General Assortant of the Institution's Long-term Campus Part of the Institution's Long-term Campus	embly: No	Institut	Agency Project No.: ional Priority: Sly recommended by CHE:	<u>B-1-21-2-06</u> <u>No</u>
Project Size: 24,000 GSF (1) Net change in overall campus space:	0 ASF (2) 0 GSF	0 ASF/GS	SF.	
Total cost of the project (3): Total cost of the demolition:	\$ 3,500,000	Cost per ASF/GSF:	\$146 \$0 ASF	
Funding Source(s) for project (4):	Amount \$ 3,500,000	Type R&R Appropriat	ion	
Estimated annual debt payment (6): Are all funds for the project secured:	N/A Yes			
Project Funding: The project funding is provided by Repa 2021 repair and rehabilitation program.	air and Rehabilitation Approp	riations. The total cost is b	oudgeted as part of the compre	hensive fiscal year
Project Cost Justification This project has a higher cost than the pmore cost-effective than replacing the results.		e project section, but the p	oroject's scope is larger. Repair	ing the existing roof is
Estimated annual change in cost of bu		the project: \$ N/A	-	

PROJECT DETAILED DESCRIPTION - ADDITIONAL INFORMATION

Institution:	Purdue University		Budget Agency Project I	
<u>Campus:</u>	West Lafayette		Institutional Priority:	<u>N/A</u>
Description of				
1 0	Il repair the approximately 24,000 square foot	-		
	ous. This project will remove the existing metal			-
-	panels with stronger rivets and extra clips. The	majority of the metal pa	nels will be reused, and so	ome new panels will be
manufactured to	to replace damaged panels as needed.			
Nood and Dur	pose of the Program			
	l of Engineering opened in 2007, and the exist	no roof is approximately	v 13 years old. Multiple roo	of nanels broke loose from the
	2019, causing damage and resulting in safety of		-	-
	a long term solution is required. This project v			
	reasing the security of the metal panels, and ex	1	· •	J 1
	•			
The roof panel:	failures occurred during high winds when the	rivets securing the panels	s to their mounting tracks t	failed. Problems in the
	arrier, plywood and metal decking), including			
	ed improperly allowing water to run under the		1 1	
	he roof, indicating the membrane was compror	nised. The membrane w	ill be enhanced with a heav	vier duty membrane as part of
the roof repair.				
Space Utilizati	ion			
	mstrong Hall of Engineering is being added or	removed as a result of the	nis exterior project	
rvo sp ace in run	instrong train of Engineering is being added of	Temoved as a result of th	ns exterior project.	
Comment	Due Seede			
Comparable P	orial Union Slate Roof Replacement (2011)			
o 3,389 SF	orial Union State Roof Replacement (2011)			
o \$325,000				
o Cost/SF: \$96				
	replaced nearly 3,400 SF of slate tile on the Pu	rdue Memorial Union roo	of.	
	is smaller in scope and used a different roofing			2011. These factors account
for the difference				
Background M				
The Contract IV.				

CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION

INSTITUTION CAMPUS SPACE DETAILS FOR Armstrong Hall Metal Panel Roof Repair and Rehabilitation Project

	Current Campus Totals				Capital Request		
(INSERT PROJECT TITLE AND SBA No.)	Current Space in Use	Space Under Construction (1)	Space Planned and Funded (1)	Subtotal Current and Future Space	Space to be Terminated (1)	New Space in Capital Request (2)	Net Future Space
A. OVERALL SPACE IN ASF							
Classroom (110 & 115)	334,724	-	19,135	353,859			353,859
Class Lab (210,215,220,225,230,235)	761,365	82,254	32,782	876,401			876,401
Non-class Lab (250 & 255)	1,635,257	(17,963)	6,546	1,623,840			1,623,840
Office Facilities (300)	2,485,522	29,971	(36,455)	2,479,038			2,479,038
Study Facilities (400)	353,733	7,003	3,576	364,312			364,312
Special Use Facilities (500)	1,209,279	-	(579)	1,208,700			1,208,700
General Use Facilities (600)	977,970	2,808	16,815	997,593			997,593
Support Facilities (700)	2,947,990	121	(1,377)	2,946,734			2,946,734
Health Care Facilities (800)	113,591	89,901	-	203,492			203,492
Resident Facilities (900)	2,692,232	_	-	2,692,232			2,692,232
Unclassified (000)	33,988	-	-	33,988			33,988
B. OTHER FACILITIES (Please list major categories)							
TOTAL SPACE	13,545,650	194,095	40,443	13,780,188		-	13,780,188

Notes

- Space/Room codes based on Postsecondary Ed Facilities Inventory and Classification Manual (2006)

(1) Identify in a footnote the specific facilities that are included in the data in these columns. Do not include pending approval, non-submitted projects or non-funded projects

Space under construction includes:

- Vet Med Teaching Hospital
- Gateway Complex
- PMU Renovations
- Purdue Bands & Orchestra Building

Space planned and funded includes:

- Data Science Building
- 2550 Northwestern Renovation
- Child Care Center Building
- Active Clinical Learning Facility

Space to be terminated includes:

N/A

CAPITAL PROJECT COST DETAILS

Institution: Campus:	Purdue University West Lafayette	Budget Agency Project No.: Institutional Priority: N/A				
<u>ANTICIPAT</u>	ED CONSTRUCTION SCHEDULE Month Bid Date Start Construction Occupancy (End Date) April	Year 2021 2021 2022				
ESTIMATED	CONSTRUCTION COST FOR PROJECT	Estimated Escalation Cost Basis (1) Factors (2) Project Cost				
	Planning Costs a. Engineering b. Architectural c. Consulting	\$ 227,000				
	Construction a. Structure b. Mechanical (HVAC, plumbing, etc.) c. Electrical	\$ 2,861,354 \$ 2,861,354 \$ - \$ -				
	Movable Equipment <u>Fixed Equipment</u> <u>Site Development/Land Acquisition</u> <u>Other (PM fee, contingencies)</u>	\$ - \$ - \$ - \$ - \$ - \$ - \$ 411,646				
	TOTAL ESTIMATED PROJECT COST	\$ 3,500,000 \$ - \$ 3,500,000				

CAPITAL PROJECT OPERATING COST DETAILS

Institution:	Purdue University]			gency Project No		<u>B-1-21-2-06</u>
Campus:	West Lafayette	<u>Institutional</u>			nal Priority:	<u>N/A</u>	
1							
			GSF	OF AREA	A AFFECTED B	Y PROJECT	24,000
ANNUAL OP	PERATING COST/SAVINGS (1)		0.01	<u> </u>		11100-0-	,
				Total		Supplies	
I		Cos	st per	Operati	ng Personal	and	
			SF	Cost	_	Expenses	
						_	
	1. Operations	\$	-				
	2. Maintenance	\$	-				
	3. Fuel	\$	-	\$ -	-		
	4. Utilities	\$	-				
	5. Other	\$		\$ -			
TOTAL	ESTIMATED OPERATIONAL COST/SAVINGS	N/A		N/A	N/A	N/A	
				, .			
_	f any unusual factors affecting operating and main	tenano	ce costs	s/savings.			
N/A							