

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:  Purdue University    Campus:  West Lafayette    Previously approved by General Assembly:    Part of the Institution's Long-term Capital Plan	<u>No</u> n: <u>Yes</u>	Budget Agency Project No.:    Institutional Priority:    N    Previously recommended by CHE:	<u>B-1-21-2-06</u> / <u>A</u> <u>No</u>
Project Size:  24,000  GSF (1)    Net change in overall campus space:	0 ASF (2) 0 0 GSF 0	ASF/GSF ASF	
Total cost of the project (3):\$ 3,Total cost of the demolition:\$	.500,000 <u>Cost per ASF/</u>	GSF: \$146 GSF \$0 ASF	
		Type ppropriation	
Estimated annual debt payment (6):	N/A		
Are all funds for the project secured:	Yes		
<u>Project Funding:</u> The project funding is provided by Repair and Reb	nabilitation Appropriations. The tota	al cost is hudgeted as part of the compre	hensive fiscal year
2021 repair and rehabilitation program. All funds			
Project Cost Justification This project has a higher cost than the project liste more cost-effective than replacing the roof.	ed in the comparable project section	, but the project's scope is larger. Repair	ing the existing roof is
Estimated annual change in cost of building ope Estimated annual repair and rehabilitation inve		<u>\$</u>	

# **PROJECT DETAILED DESCRIPTION - ADDITIONAL INFORMATION**

Institution:	Purdue University	Budget Agency Project No.:	<u>B-1-21-2-06</u>
<u>Campus:</u>	West Lafayette	Institutional Priority: <u>N/A</u>	
Description o	f Droigat		
		l panel section of the Armstrong Hall of Engineering roof of	on the West
Lafayette cam	pus. This project will remove the existing metal panel	els; install new plywood and a high-temperature, waterproc	of membrane; and
		ority of the metal panels will be reused, and some new pane	els will be
manufactured	to replace damaged panels as needed.		
Need and Pur	rpose of the Program		
		oof is approximately 13 years old. Multiple roof panels bro	<mark>ke loose from thei</mark>
		erns. Temporary measures are in place to ensure the securit	
	t a long term solution is required. This project will re- creasing the security of the metal panels, and extend	epair damaged areas of the roof, help ensure safety and pre	vent future
damage by me	reasing the security of the metal panels, and extend	the file of the root by 20-25 years.	
-		s securing the panels to their mounting tracks failed. Proble	
		velness, contributed to these failures. Additionally, the flash	
		ing. This will be repaired as part of this project. Leaks were d. The membrane will be enhanced with a heavier duty mer	
the roof repair			liorane as part of
Space Utilizat			
No space in A	rmstrong Hall of Engineering is being added or remo	oved as a result of this exterior project.	
<b>Comparable</b>	Drainate		
	norial Union Slate Roof Replacement (2011)		
o 3,389 SF	• • • •		
o \$325,000 o Cost/SF: \$96	c .		
	replaced nearly 3,400 SF of slate tile on the Purdue	Memorial Union roof.	
o This project	is smaller in scope and used a different roofing mate	erial. Additionally, prices have escalated since 2011. These	factors account
for the differen	nces in cost/SF.		
<b>Background</b> I	Materials		
Dackground I			

#### 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	- 1	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

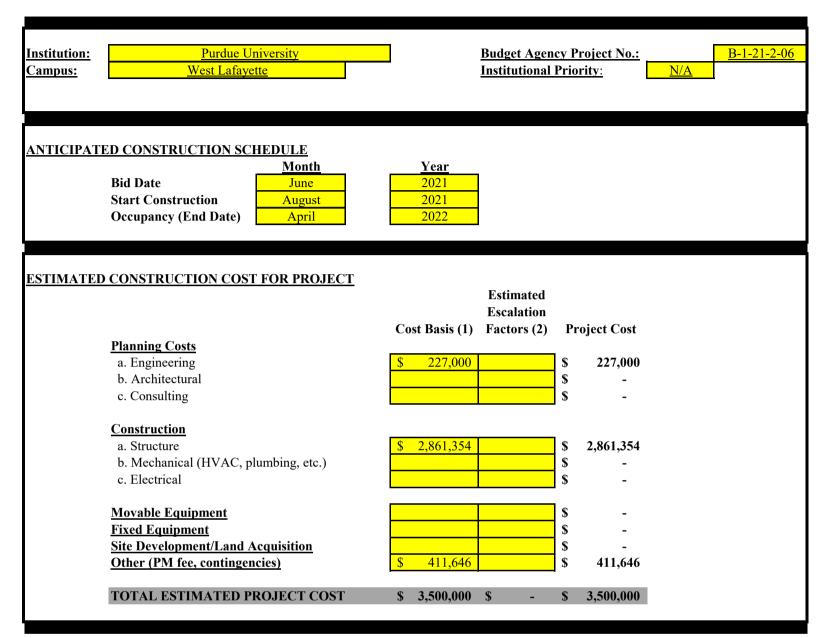
- 2550 Northwestern Renovation

- Child Care Center Building

- Active Clinical Learning Facility

Space to be terminated includes: N/A

### **CAPITAL PROJECT COST DETAILS**



# CAPITAL PROJECT OPERATING COST DETAILS

Institution:	tion: <u>Purdue University</u>		<b>Budget Agency Project No.:</b>			).:	B-1-21-2-06	
Campus:	West Lafayette					Priority:	N/A	<u></u>
			GSF	OF AR	REA Al	FFECTED BY	Y PROJECT	24,000
ANNUAL OP	ERATING COST/SAVINGS (1)			T			<b>G P</b>	
		C	Total		<b>D</b> 1	Supplies		
			ost per Operating		Personal	and		
		G	SF	Co	ost	Services	Expenses	
	1. Operations	\$	_					
	2. Maintenance	\$	_					
	3. Fuel	\$	-	\$				
	4. Utilities	Ф Ф		Φ	-			
	5. Other	ֆ Տ	-	\$	_			
TOTAL	ESTIMATED OPERATIONAL COST/SAVINGS	Ψ N/A	-	N/A	-	N/A	N/A	
TOTAL		1 1/1 1		14/18		14/1	14/1	
<b>Description</b> of	fany unusual factors affecting operating and main	tenanc	<u>e costs</u>	/saving	<u>s.</u>			
N/A								
l								