### **Project Description**

The project includes renovation of approximately 176,000 gross square feet and an addition of approximately 48,000 gross square feet. The renovation has addressed deferred maintenance, including exterior envelope repairs and life safety, electrical, mechanical and plumbing system improvements. The project has created a more welcoming, accessible facility with an improved patient entrance; modern teaching clinics with flexible furniture

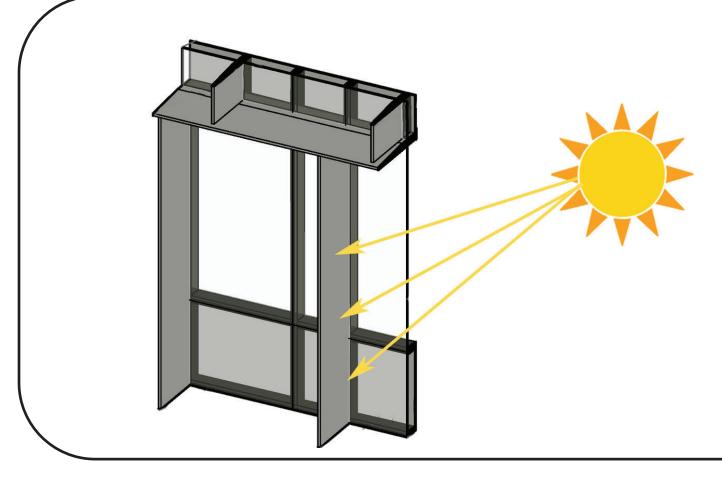
## Infill Space

Existing courtyard space is re purposed to provide additional building square footage without disturbing undeveloped land.

## **Accessible Outdoor Open Space**

The courtyard includes comfortable outdoor space is provided for building occupants and the campus community to gather and connect.





# Sun Shading

Vertical sun shading provides glare control and shading from low sun angles on the west side of the courtyard addition.

### Natural Daylight

Natural daylight reduces lighting load and electrical consumption. Daylight from the courtyard research addition is brought further into the building spaces through use of interior windows.

# Flexible Laboratory Space

- Open laboratory spaces, mobile lab stations and flexible furniture systems allow future requirements.
- Overhead service distribution provides power, data and other services to laboratory stations further enhance flexibility.



ARCHITES & OPERATIONS ARCHITECTURE, ENGINEERING AND CONSTRUCTION

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and equipment that can be reconfigured as needs change. Open, flexible research space has been created to support the school's world class research along with space designed to foster collaboration among faculty and students. The new special needs/inter-professional care clinic will treat patients with complex medical conditions and disabilities.







**Enhanced Accessibility** The new north addition includes a covered patient drop off and accessible entrance.



Building Use Location

Laboratory/Office/Clinic Ann Arbor, Michigan

	Cingan
48,000 sf Ac	ddition
	v2009
	Silve
	2007
	22%
\$32,4	58 yea
895,500 KW	h / yea
30,550 Therms / yea	
8	76 tons
gan Plumbin	ng Code
	28%
ion)	TBC
Code	Project
18	20
7.5	7.5
30	30
0.55	0.30
0.4	0.27
1.10	0.64

Owner	University of Michigan - School of Dentistry
Architect	SmithGroup JJR
Engineer	SmithGroup JJR
Contractor	Granger Construction Company
<b>Commissioning Authority</b>	Horizon Engineering Associates LLP
Project Management	U-M AEC

Design Period: 09/2016-03/2019

Construction Period: 12/2018 - 06/2022

The higher the R-value the better the insulating quality

\* The lower the U-value and SHGC the more energy efficient the window

\*\*\* The higher the VT value the more daylight in the space. VT is measured between 0 and 1



Dental Building and W.K. Kellogg Foundation Institute Expansion and Renovation

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