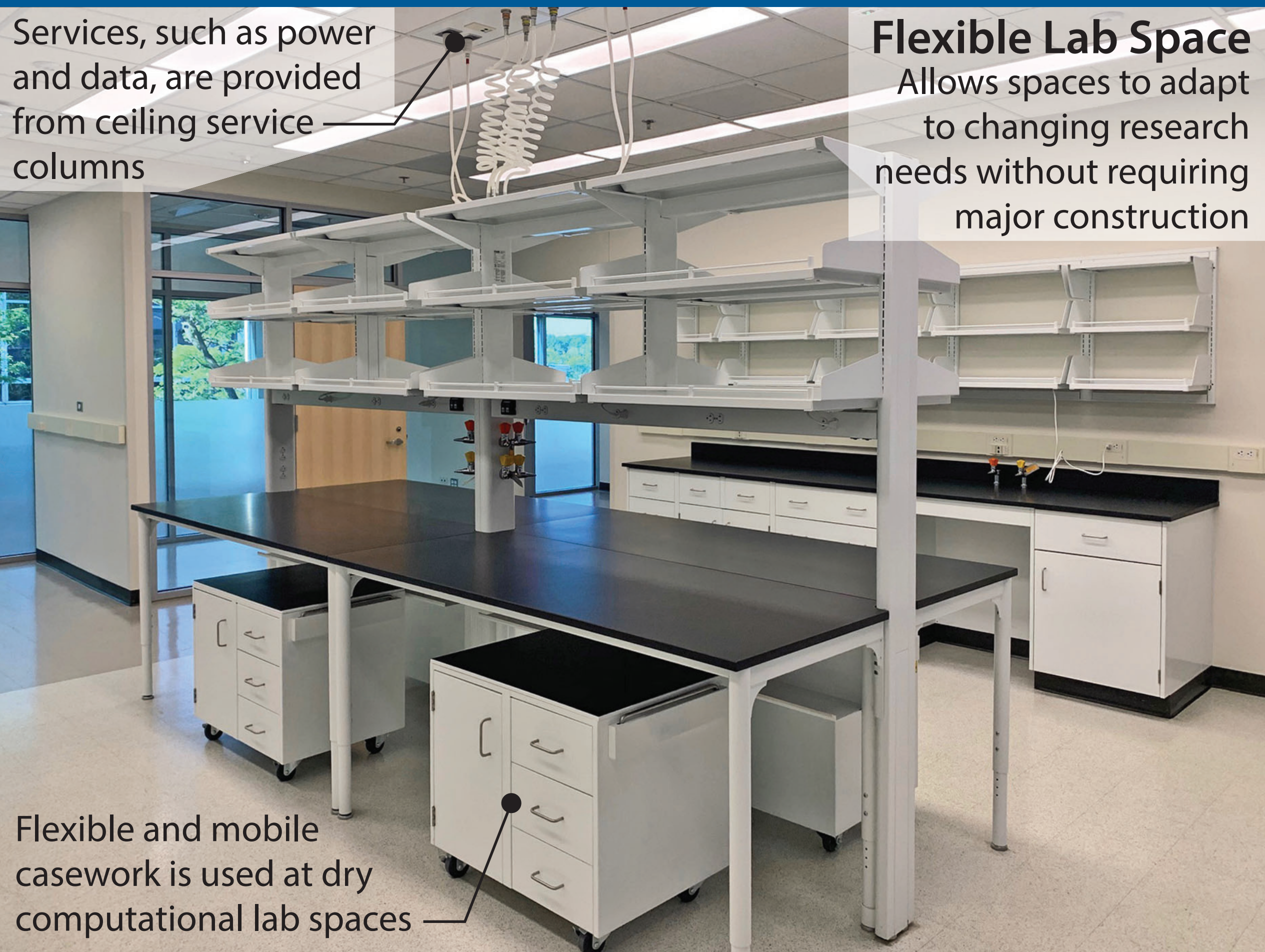


# Project Description

This project renovated approximately 158,000 gross square feet of space within the North Campus Research Complex Buildings 20 and 25 to accommodate the Medical School's wet laboratory research growth. A 6,900 gross square foot infill addition was constructed to improve connectivity between the buildings and

throughout the complex. The project also addressed deferred maintenance in both buildings, including heating, ventilation, air conditioning, electrical, and life safety system upgrades, as well as code-related items; and provided accessibility improvements and new finishes in public spaces.

Services, such as power and data, are provided from ceiling service columns

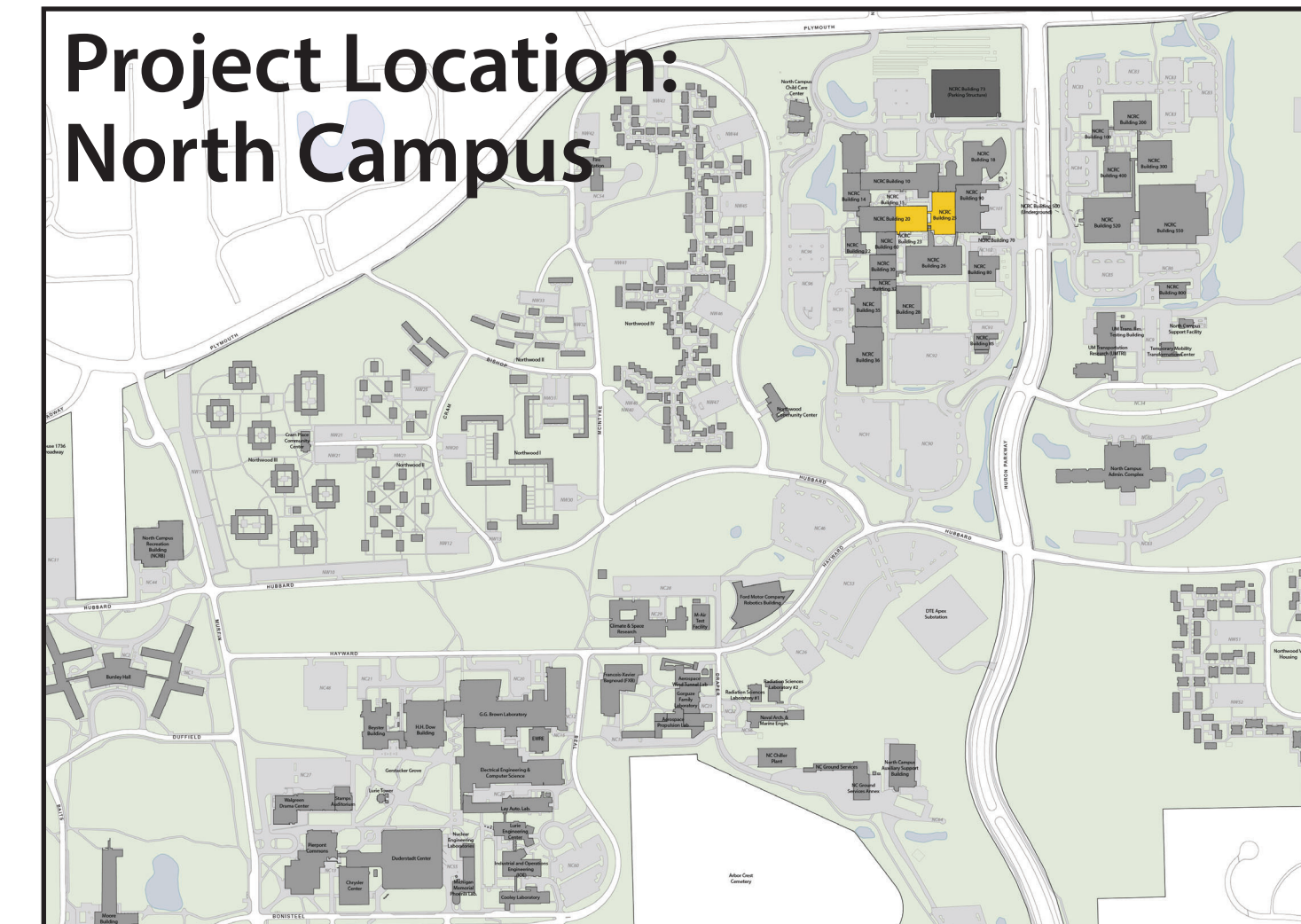


**Flexible Lab Space**  
Allows spaces to adapt to changing research needs without requiring major construction

Flexible and mobile casework is used at dry computational lab spaces



**Building Re-Use**  
The project reused the existing building envelope and many interior walls and doors to provide the building's highest and best use, which also reduced the energy use and waste associated with demolition and construction as well as the extraction, manufacture and transportation of new building materials



**Project Location: North Campus**

## Sustainability Facts

North Campus Research Complex Buildings 20 and 25 Laboratory Renovation  
 Building Use: Assembly/Classroom  
 Location: Ann Arbor, Michigan  
 Size: 158,000 Gross Square Feet

ASHRAE 90.1 version	Code	Project
2007		
Glazing - Curtain wall system (addition)	0.45	0.45
U-value**	0.45	0.45
Solar Heat Gain Coefficient (SHGC)**	0.4	0.4

Project Team	
Owner	University of Michigan - Medical School
Architect	SmithGroup
Engineer	SmithGroup
Contractor	Barton Malow
Commissioning Authority	U-M AEC
Project Management	U-M AEC

Design Period: 11/2016 - 02/2018

Construction Period: 06/2018 - 07/2020

\*The higher the R-value the better the insulating quality

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



## Daylight Harvesting

Natural daylight reinforces circadian rhythms which leads to greater comfort and productivity, and daylight sensors reduce the need for electrical lighting

## LED Lighting

LED lighting fixtures reduce lighting loads

## Occupancy Sensors

Occupant sensors dim or turn off lights when areas are not in use

