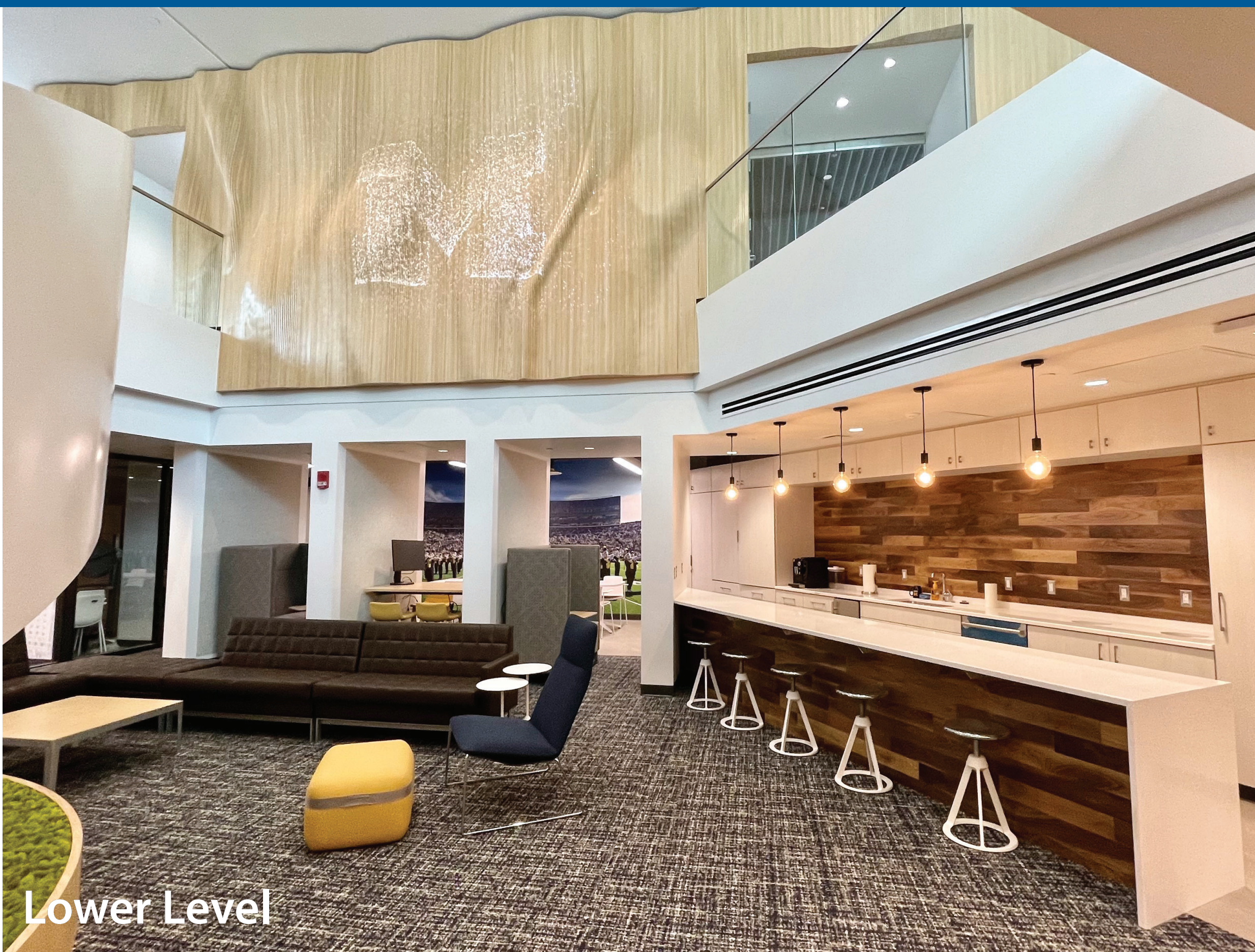


Project Description

The approximately 34,000 gross square foot Alumni Center, designed by architect Hugh Newell Jacobsen, was constructed in 1982 and is considered an iconic and significant building on campus. The project, which renovated 25,000 gross square feet and added 1,250 gross square feet, set out to create a more inviting public entrance, improve circulation throughout the

building and increase the capacity of the staff workplace. The project was successful in meeting these programatic goals while maintaining the original programmatic functions of the building and conserving resources by reusing the existing envelope and structure and improving the energy efficiency and functionality of the interior through renovation.



Lower Level

Water Savings
 Nearly 92,000 gallons of water per year will be saved with low-flow plumbing fixtures

Daylight Harvesting

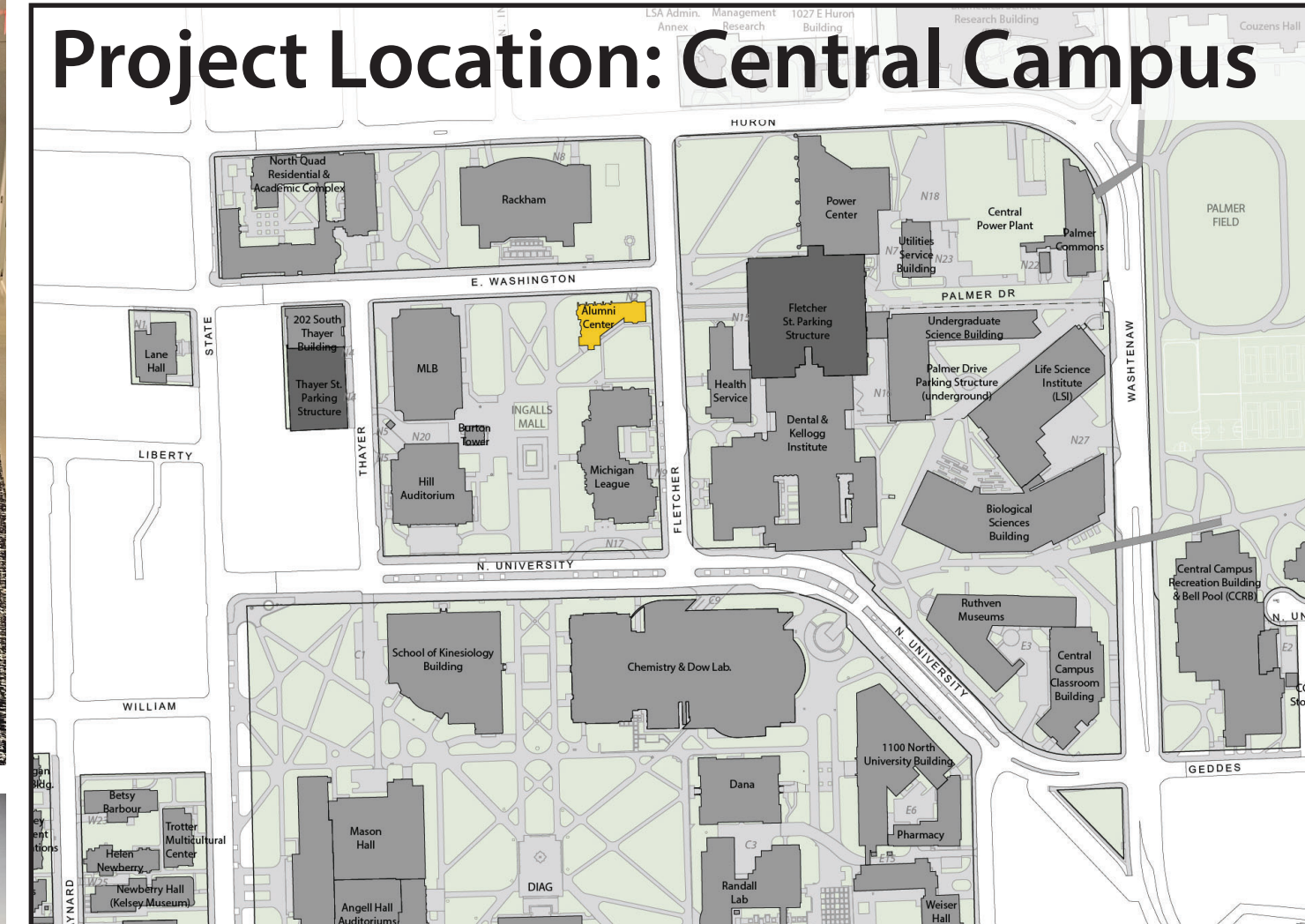
- An opening in the lobby floor brings daylight into the lower level while a new open spiral stairwell encourages stair use in lieu of the elevator
- Throughout the building regularly occupied spaces are strategically placed in areas with either direct sunlight or borrowed natural light
- Daylight reinforces circadian rhythms which lead to greater comfort and productivity, and daylight sensors reduce the need for electrical lighting



Founders Room



Lobby



Sustainability Facts

Alumni Center Renovation

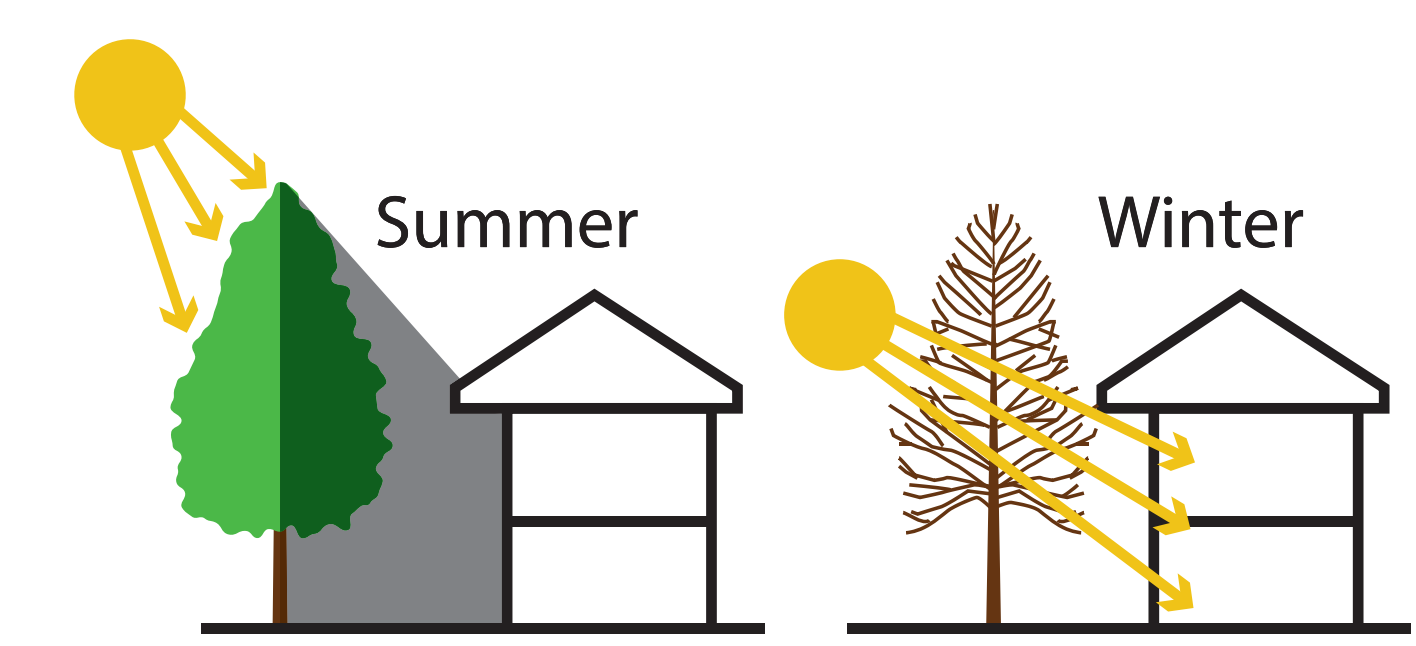
Building Use	Office/ Assembly	
Location	Ann Arbor, Michigan	
Size	26,250 Square Feet	
Number of Occupants	612	
ASHRAE 90.1 version	2013	
Total energy savings	\$462 / year	
Total electrical savings	1,211 KWh / year	
Total gas savings	368 Therms / year	
CO2 emissions avoided	3 tons	
Water fixture baseline	2012 Michigan Plumbing Code	
Total water savings	31%	
Insulation (R-Value)*	Code	Project
Wall assembly - below grade	7.5 c.i.	10 c.i.
Glazing - Curtain wall system at Vestibule		
U-value**	0.42	0.24
Solar Heat Gain Coefficient (SHGC)**	0.40	0.21
Glazing - Visible Light Transmittance (VT)***		0.48
Project Team		
Owner	University of Michigan - Alumni Association	
Architect	Integrated Design Solutions with Hartman Cox	
Engineer	Integrated Design Solutions	
Contractor	DeMaria Building Company Inc.	
Commissioning Authority	U-M AEC	
Project Management	U-M AEC	

Building Reuse
 The program was achieved by reusing the existing building envelope and structure, significantly reducing both energy and waste associated with demolition and construction as well as the extraction, manufacture and transportation of new building materials

Entrance Vestibules
 Vestibules have been added to both the existing southeast entry as well as the new west entry, reducing heat loss and heat gain from wind and stack effects by creating an airlock entrance in an area of high volume pedestrian traffic



View from west (Ingalls Mall)



Tree Preservation
 Mature deciduous trees on the western side of the building are preserved and will continue to block low afternoon sun from entering west-facing windows during peak heat gain periods in the summer, while allowing the sun to heat the building in the winter months