



IDEA Lab at the Mardigian Library – Renovation

Joint Capital Outlay Subcommittee
March 11, 2020

Presented by:
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Chancellor

Bottom Line Up Front (BLUF) For our students, for our State

- Re-envision & renovate and 118,000 square foot Mardigian Library Building (MLB).
- Built in 1980 – despite ability to adapt with the times, the building requires a complete renovation.



Project Overview



- \$30 million requested from the state of Michigan and \$15 million in debt financing.
- IDEA Lab at the Mardigian Library -- ranked 2nd in State Budget Office FY2021 scoring.

Project Overview: Infrastructure

- Update major building infrastructure
- Replace building mechanical, electrical and technology systems.
- Resulting building will permit flexibility in design, technology and operation required for students, faculty and staff



Concept

Project Overview: Programming



- **Enhance student success**
- Improve retention and increase enrollment
- Support student and faculty learning and research
- Increase operational effectiveness and sustainability
- Improve access and safety
- Build a sense of community

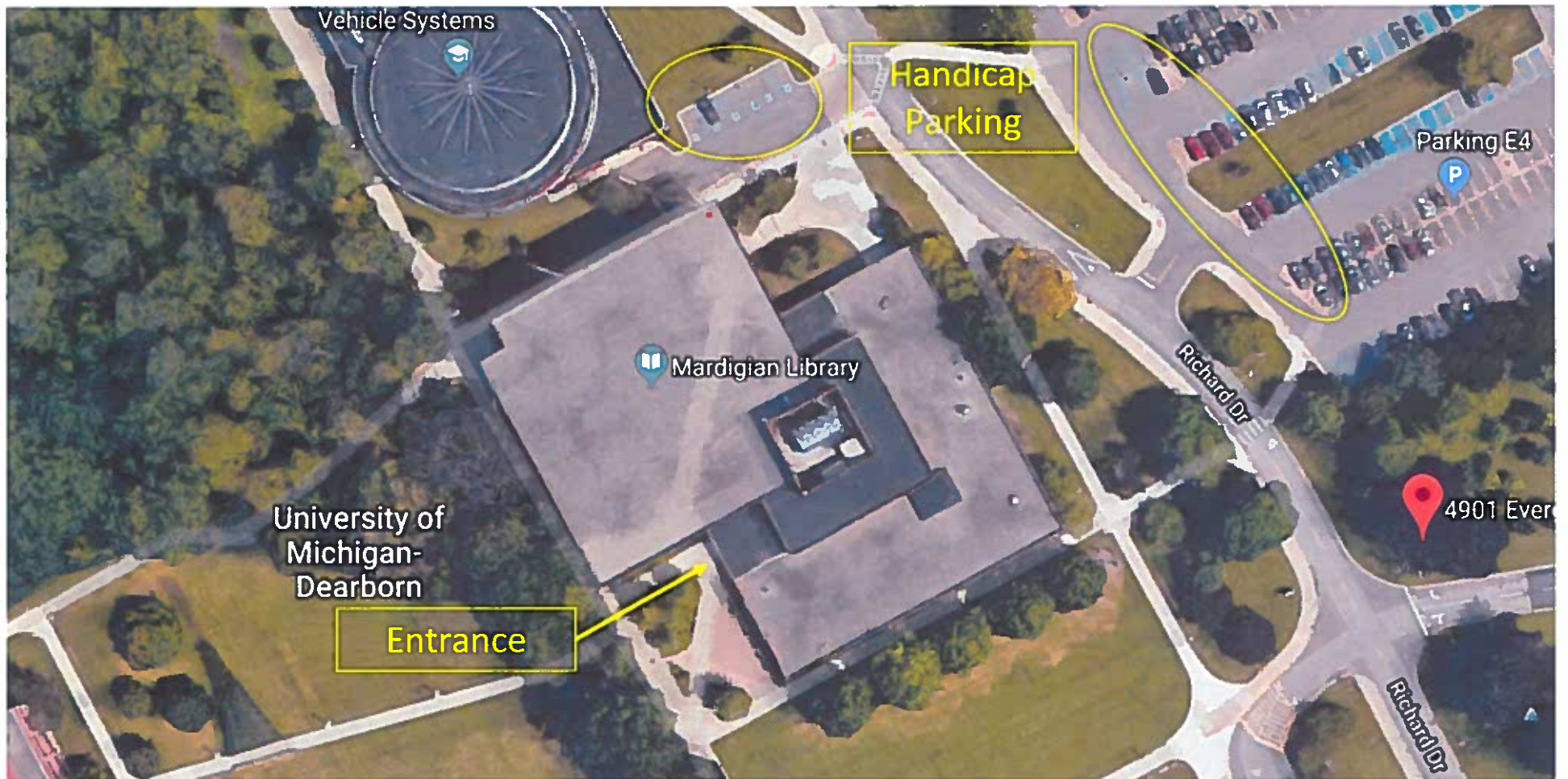
Existing Conditions – Building Settling



Existing Conditions – Building Settling



Existing Conditions – Accessibility



Existing Conditions – Inflexible Space Jerry Rigged





Existing Conditions – Inflexible Space

Existing Conditions – Water Damage





Making It Work



Renovation = Opportunity = IDEA Lab Innovation | Design | Entrepreneurship | Artistry

- Purpose of libraries has changed since 1980
- Skills graduates need to succeed have evolved
- Industry's reliance on higher education has increased



Olin College Learning/Studio Classroom



Olin College Learning/Studio Classroom

IDEA Lab – Core Principles

- External partner
- Multi-college, delivered at same time
- Interdisciplinary student teams of 5-6
- Project is component of course, but no letter grade
- Staff support



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IDEA Lab – Examples

Democracy and Social Media

Courses: COB/Digital Marketing; CASL/Media Law & Ethics; CECS/Computer Science

VR Training for Special Needs Educators

Courses: CEHHS/Education; CECS/Computer Science; CASL/Logic

Healthy Dearborn/Eastern Market

Courses: CEHHS/Health; COB/Business Planning; CECS/Engineering

Techno-Trash

Courses: CASL/Environmental Ethics; CECS/Materials Engineering; COB/Supply Chain Management



Harvey Mudd College – Design Clinic Project

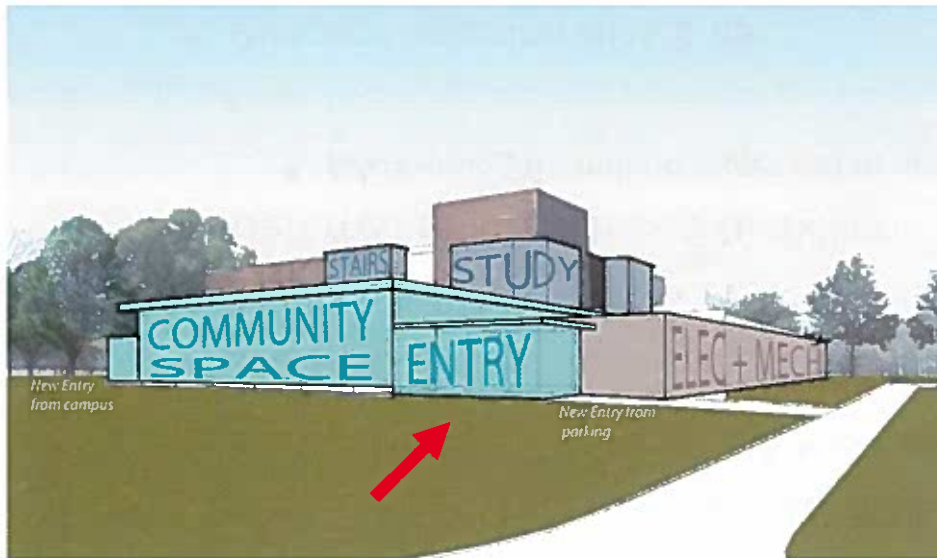
IDEA Lab – Learning Outcomes

- Working effectively across disciplines
- Experience with real-world problem solving in interdisciplinary context
- Action-based learning that bridges theory and practice
- Bolster resilience and comfort with ambiguity
- Communication and collaboration with variety of audiences
- Facility with principles of design thinking



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Renovation = Opportunity



- Comprehensive de-materialized library services
- Teaching and learning centers
- Community spaces
- Graduate student research
- Student group study rooms and collaboration areas

For our students, for our State

Who we are

- Total academic-year budget \$187 million
- Deferred maintenance \$76 million
 - Additional \$67 million expected in next 5 years
- Average entering GPA 3.68
- 47% first generation college students
- 44% Pell Eligible
- Average family income \$62,538
- US News & World Report - #1 Regional Public in Michigan, #4 in Midwest



For our students, for our State



IDEA Lab

Innovation | Design |
Entrepreneurship | Artistry

\$30 million requested

\$15 million in debt
financing.



Wayne County Community College District Eastern Campus Repurposing and Upgrading Project





Our Overall Objective

- Fundamentally repurpose the programs and facilities serving the students, businesses, and communities in eastern Wayne County.
- Upgrade spaces to house career education programs (welding technology, automotive services technology, industrial computer graphics technology, computer information technology, electronics, aviation, automotive, HVAC, heavy equipment maintenance, etc.)
- Upgrade spaces to house the new talent development center (merging credit and non-credit career education and workforce development programming in cooperation with community partners such as Michigan Works and the public schools)
- Upgrade spaces to house community-based programming.
- Address perpetual structural issues as a result of the underlying Conner Creek.
- Address indoor air quality HVAC issues and bring the facility into full accessibility and ADA Compliance.





Our Current Situation



- Antiquated Equipment
- Structural Damage

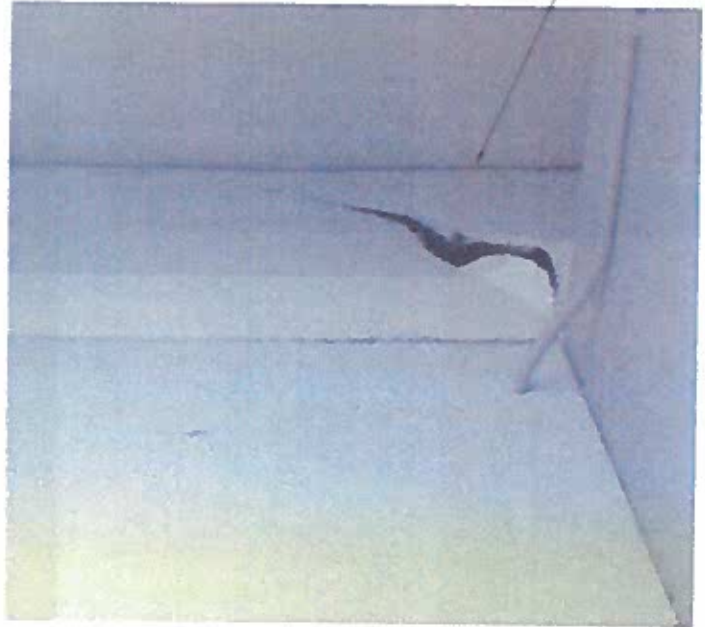




Our Current Situation

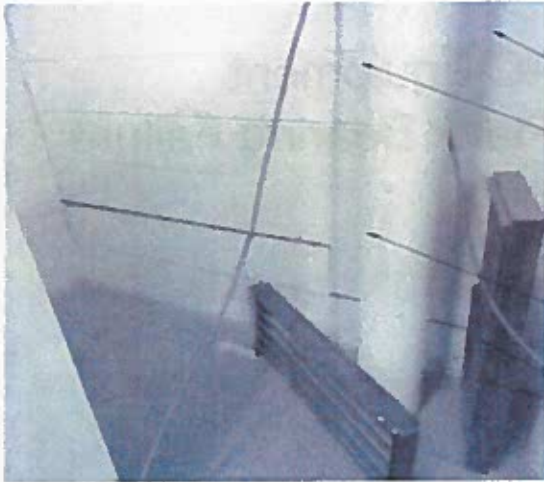


- Interior Wall Movement Damage
- Exterior Wall Movement Damage





Our Current Situation



- Wall Movement Damage
- Failed Roof Plan – Electrical Room





Our Current Situation



- Existing HVAC Equipment
- Mezzanine Plank Bearing Failure

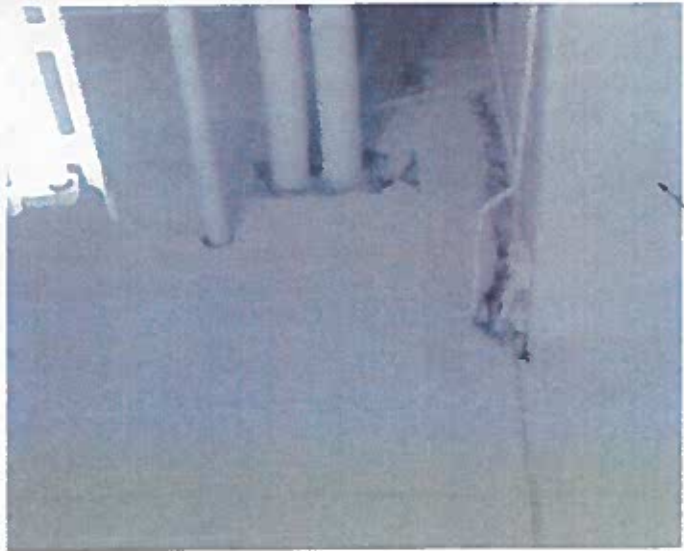




Our Current Situation

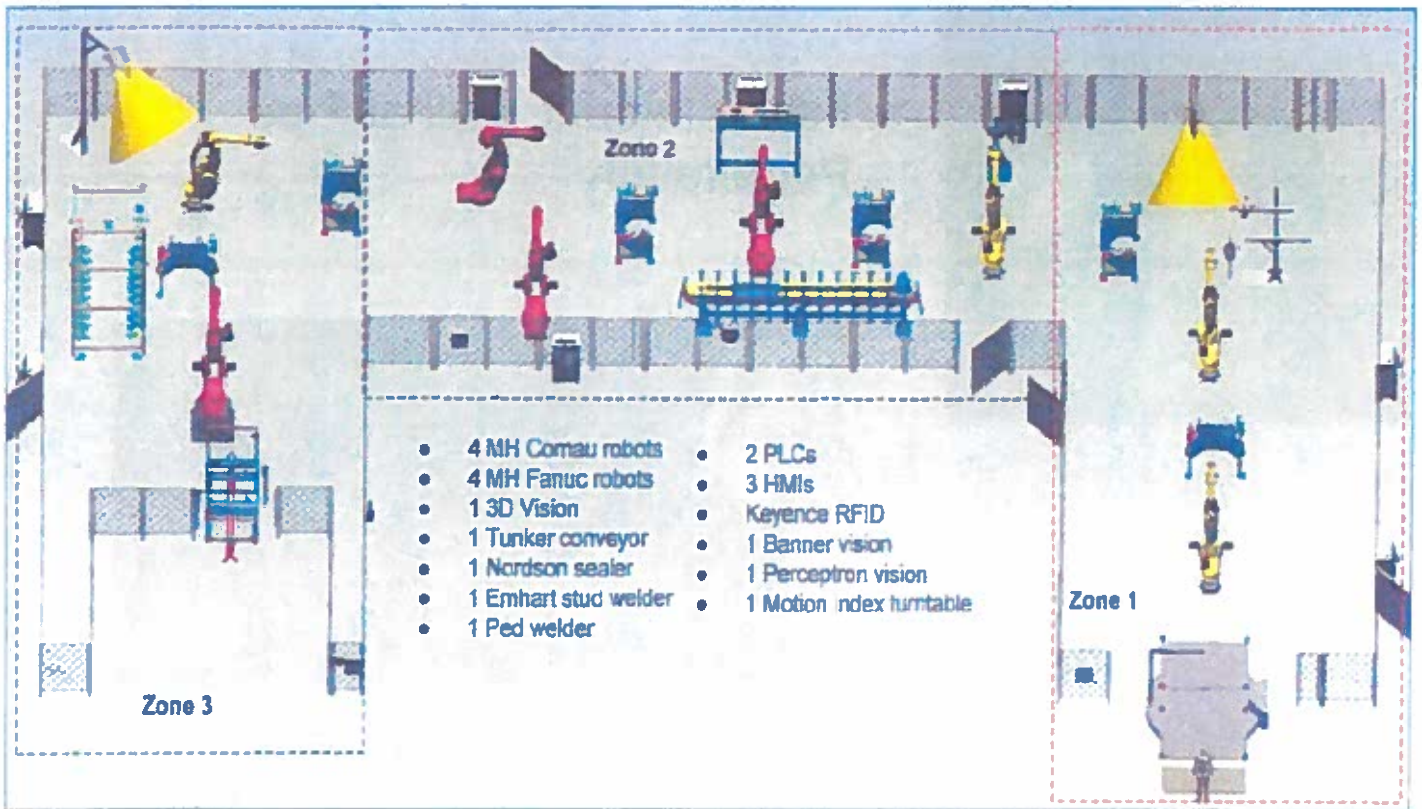


- Wall Movement at Column Location
- Failed Interior Wall at Pipe Penetration





Our Vision: Mechatronics Training Cell Layout





Our Vision: Classroom Layout and Equipment

