



Mason Square

Liza Wilson Durant, PhD
Ldurant2@gmu.edu



Conceptual Drawing - EYP

South View Rendering



Fostering Partnership with Mason

Largest public research university & top producer of tech talent in Virginia

Rated a top-tier (R1) research university

according to the Carnegie Classification of Institutions of Higher Education

#1 Most Innovative University in VA

by U.S. News & World Report

#1 Social Mobility in VA

by U.S. News & World Report

#1 University for Public Policy and Analysis in VA

by U.S. News & World Report

#1 Homeland Security in VA

by Wall Street Journal/Times Higher Ed

#1 Entrepreneurship Ecosystem among Public Institutions and #2 among All Institutions in USA

by EduRank

College of Engineering and Computing



10,725

Student enrollment Fall 2024

\$3B

Economic impact
in Virginia

23 Graduate
Degree
Program

#13 in Diversity

Top 20

in US for DOD
Research Funding

12th

in Computer and Information
Sciences research expenditures
among all universities

30,000+
Alumni

10

Academic
Departments

1st

Bachelor's and
Master's Degrees
in cyber security engineering

#88

in U.S. News ranking
schools of engineering

Top 50

Computer Science
(TIMES HIGHER ED.)

35 Programs
at all levels

**#1 in
Virginia**

For the total number of Bachelor's
degrees awarded in Engineering:
• Underrepresented Minorities
• Asian Americans
• African Americans

\$63M

in research awards in 2024

Top 25 Master's in
Industrial
Engineering

Top 100

School of Engineering

#73

NSF Research among
public universities

#88

in graduate programs

255+

CEC Faculty

35th

in Information
Technology
among publics

50th

in Information
Technology
overall

EXAMPLE AREAS OF RESEARCH AREAS EXPERTISE

Aerospace
Artificial Intelligence/Machine Learning
Autonomous systems
Bioinformatics
Climate Change
Cryptography
Cybersecurity
Data Analytics & Big Data
Data Visualization
Digital Modernization
E-business
FinTech
Health Information Systems
Human Machine Partnership
Hypersonics
Infrastructure Health Monitoring
Internet of Things and M2M
Materials (Nano) and Mechanics
Natural Language Processing
Quantum Computing
Resilient and Sustainable Infrastructure
Software Engineering
Telecommunications, Networks and NextG
Virtual and Augmented Reality
Workforce re-skilling

SYSTEMS: *Developing and deploying computing systems to advance fields as diverse as finance, education, national security, and social justice*

TECHNOLOGIES: *new algorithms, digital techniques and technologies*

DIGITAL SOCIETY: *Engaging in critical reflection that examines the implications of digital innovation ensuring social, ethical, political, and economic impact*



A place to collide

Main Floor - Exchange



FUSE
at Mason Square

GM GEORGE MASON
UNIVERSITY®

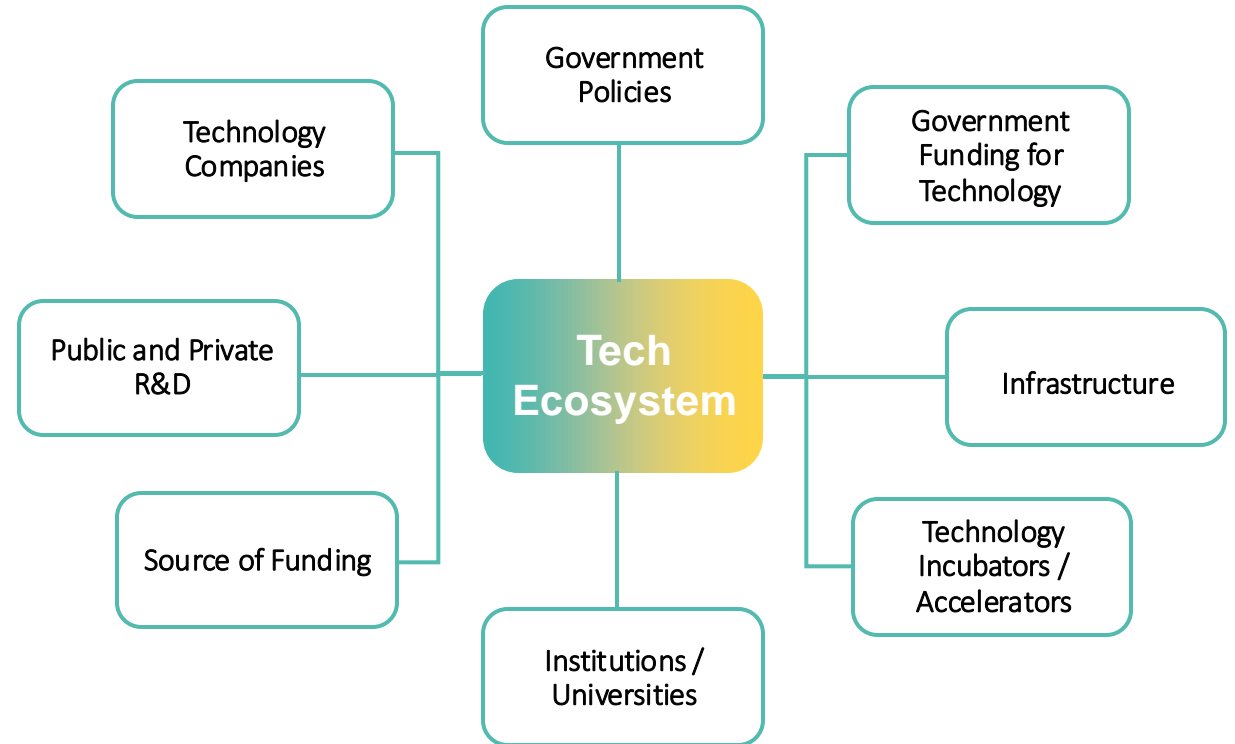
Partnership Approach

Unique Drivers

- Access to talent
- IP transfer
- Leverage specialized facilities and environment

Extensive Opportunities

- Early market leader engagement
- Ecosystem buildout
- Grow existing and create new connections



FUSE
at Mason Square

Extraordinary Benefits

Six types of benefits for government and industry collaborators who co-locate with others who are embedded in this innovation ecosystem

Human Capital – Talent pipeline, access to faculty and key opinion leaders, and networking opportunities

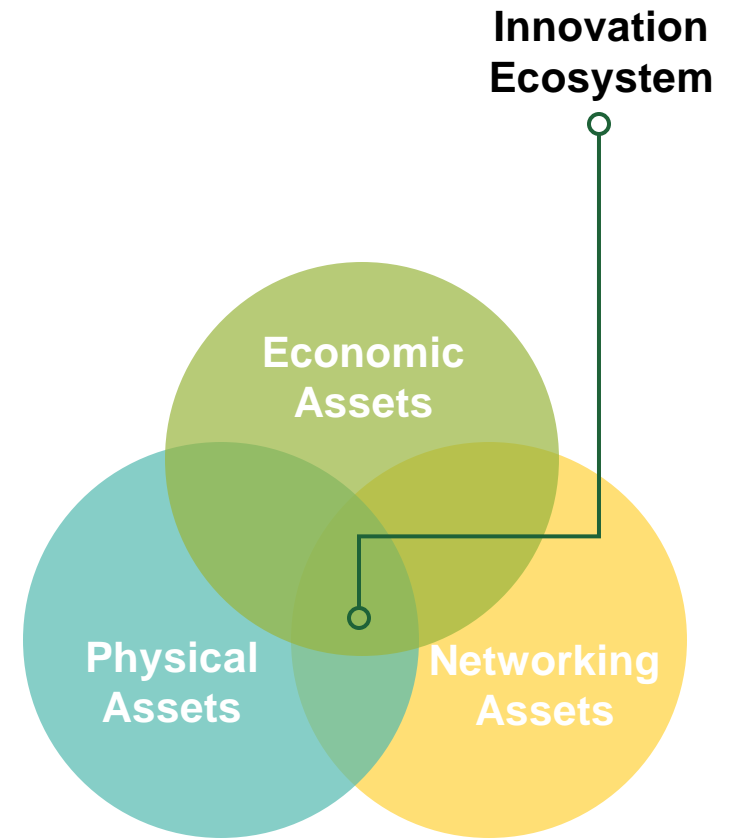
Educational – Experiential learning, learning new skills and tools, access to resources, exposure to new perspectives and teaming opportunities

Financial – Research funding, commercialization of ideas, and equity in new enterprises

Operational – Reduced risk, increased agility, and collaboration across disciplines

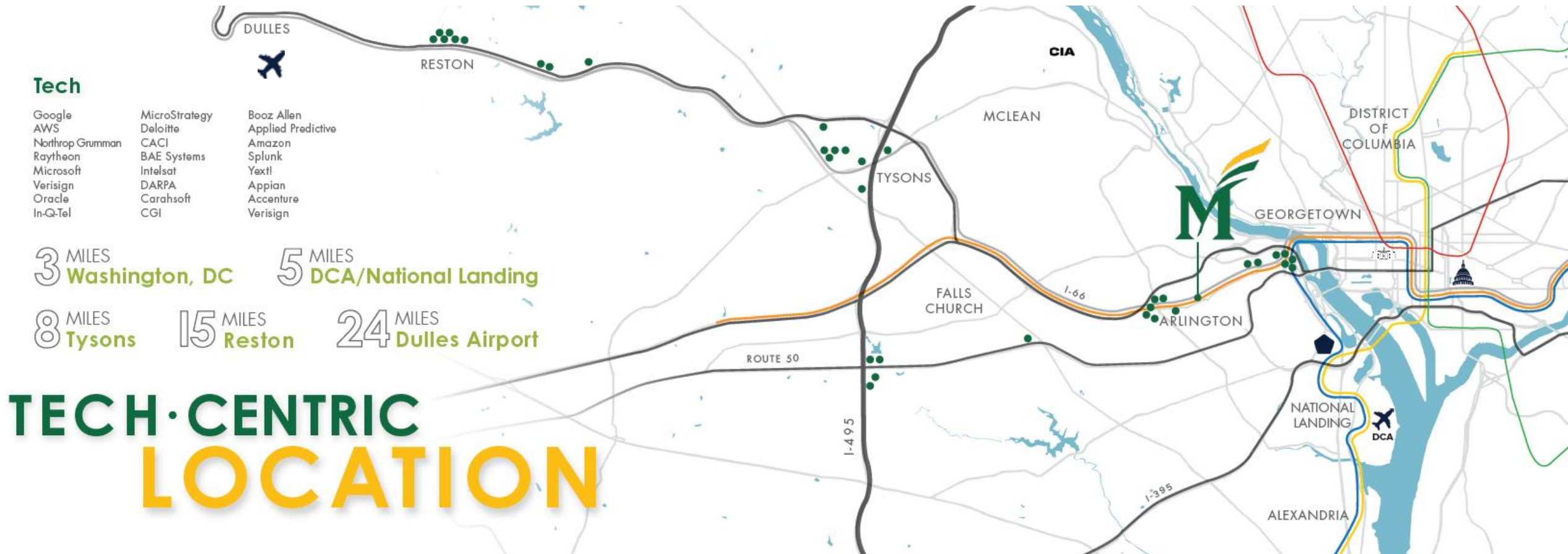
Reputational – Visibility, credibility, and prestige through association

Intellectual Property – New ideas through access to complementary expertise

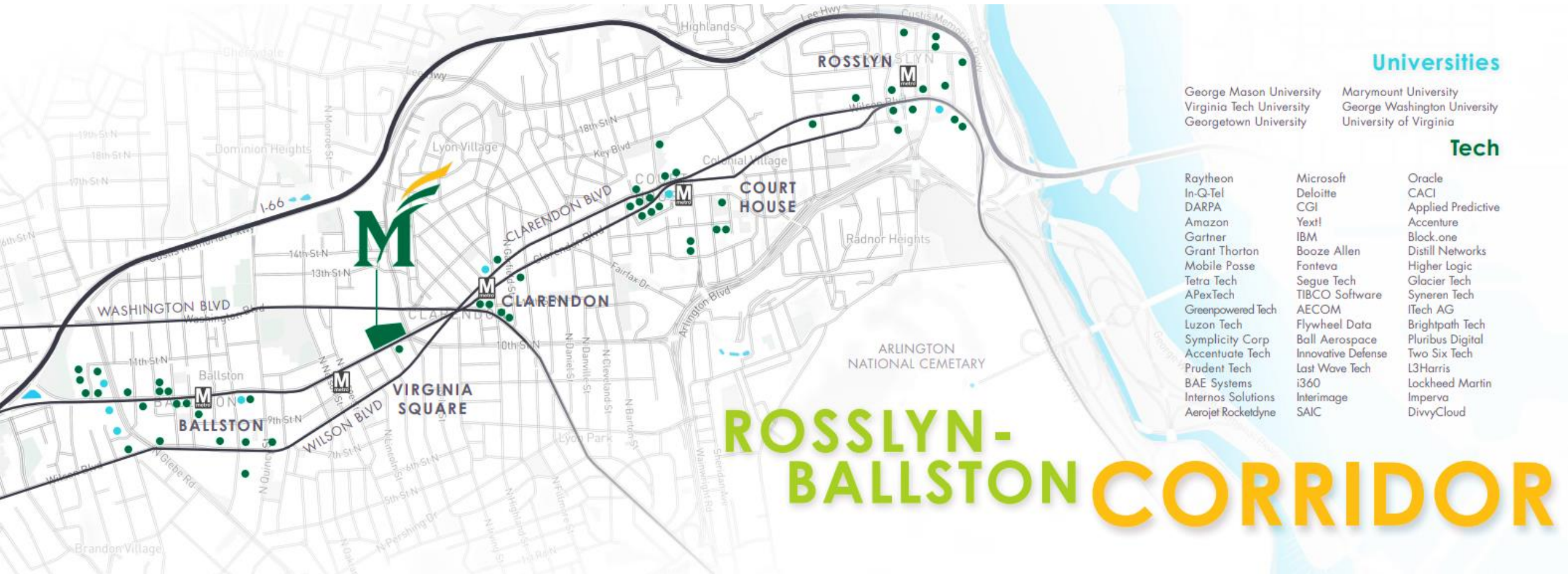


FUSE
at Mason Square

3rd Highest concentration of technology companies in the nation



The Center of Innovation in the R-B Corridor





Fuse at Mason Square

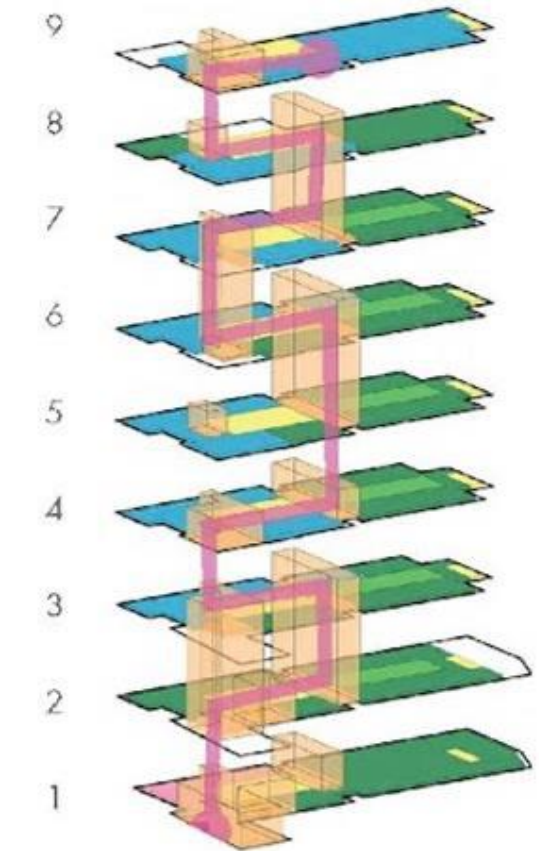
What's Inside?


345,000 square feet of new multifunctional modular lab, office and retail space.

- A one-of-a-kind experience for industry, researchers, faculty, and students to interact and thrive
- A future-ready, high-tech, sustainable, resilient building that can respond to the accelerated pace of change
- Large-scale meeting facilities, collaboration spaces, media studios, and activated outdoor terraces and public plazas
- Access to specialized labs including robotics, AR/VR, simulation, network, data visualization, and secure facilities
- Commercial spaces may include labs, customer experience center, and specialized operations suites, etc.

FUSE
at Mason Square

Integrated Design Concept



An aerial architectural rendering of a modern university campus. The central focus is a large, multi-story building with a complex, angular design. It features extensive glass facades and several flat roofs that are integrated with green spaces, including rows of solar panels and patches of vegetation. A prominent green 'GM' logo is visible on one of the building's facades. To the right of this building is another large structure with a more traditional, stepped design and a flat roof. In the foreground, a wide, paved plaza is populated with numerous small figures of people, suggesting a vibrant outdoor space. The plaza is landscaped with trees, shrubs, and some outdoor seating areas with umbrellas. A multi-lane road with a crosswalk runs along the bottom left of the image. Surrounding the new development are older, traditional brick buildings, providing a contrast between old and new architecture. A dark green text box in the upper right corner contains white text. The George Mason University logo is in the bottom left corner.

A more sustainable and
smart workplace with
attention to outdoor spaces
and their activation

Unique and Impactful Amenities

Core of Collaboration

- Flexible collaborative common space
- Conference space for hosting live and hybrid events
- Multipurpose room (750 people + immediately adjacent in Van Metre Hall – 850 person multipurpose room + 550 person auditorium)
- Exceptional podcast studio / media conference room
- Abundant public spaces
- Unparalleled Specialty Labs

Healthy Lifestyle

- Wellness lab
- Private lactation rooms
- Digital fitness studio
- Spacious showers/locker room
- Activated ½ acre exterior plaza and elevated terraces

Flexible Security

- Customizable Security and a range of opportunities throughout the building on different floors
- Smart Building Technology utilizing a Building Automation System (BAS)

Sustainable Solutions

- Spacious green roof areas and multiple terraces
- LEED Platinum
- Convenient electric car charging stations
- Fuse will incorporate smart and green building technologies and receive the following Certifications:



Convenience

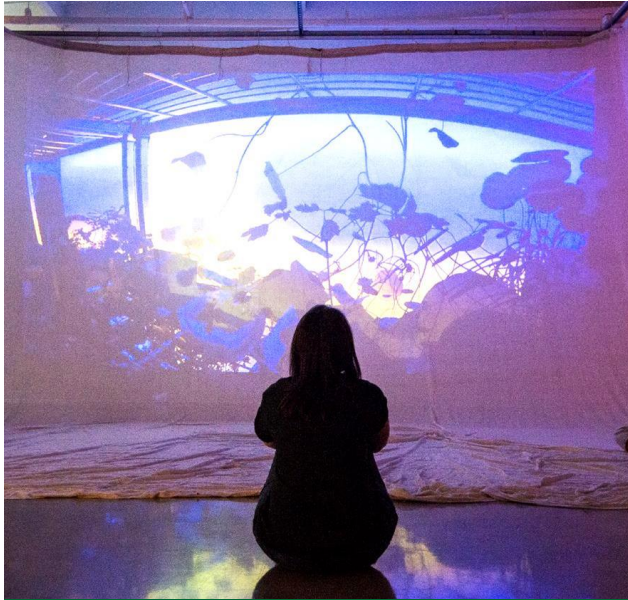
- Accessible parking garage with 1.5 spaces/1,000sf direct elevator access to your floor to support big events
- Flexible IT infrastructure with fast, reliable WiFi inside and outside of the building
- Supportive tech concierge service
- Convenient commuting options (bike share, rideshare, metro, shuttles)
- Engaging Mobile App







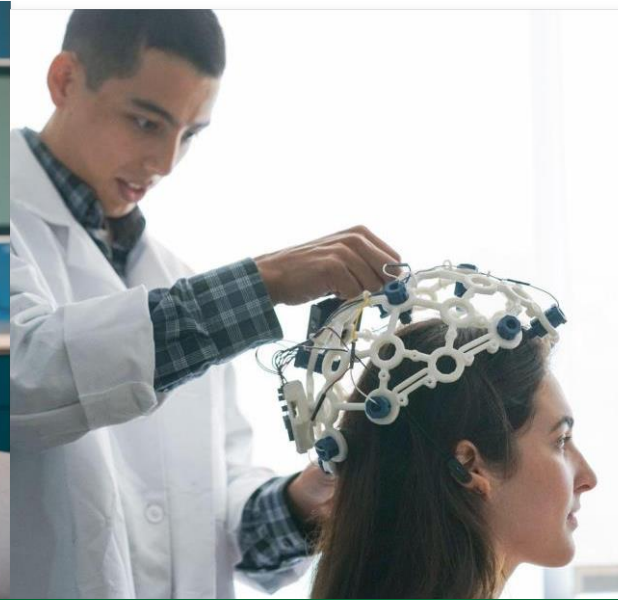
Research-Specialty Lab Environments



Visualization And Media



Robotics



Human-Subject And Behavioral





















Enhanced Securability/
Scif-Capable





LEGEND

	SINGLE RECEPTACLE		WALL MOUNTED FLAT PANEL DISPLAY BACK BOX FOR POWER, DATA, AV.
	DUPLEX RECEPTACLE		DATA OUTLET
	SPECIAL RECEPTACLE		PENDANT LIGHT FIXTURE ABOVE
	LIGHTING CONTROL SYSTEM WALL STATION		FIRE EXTINGUISHER CLOSET
	JUNCTION BOX		CEILING RECESSED LIGHT FIXTURE
	AUDIOVISUAL DEVICE FOR FLAT PANEL DISPLAY		RETRACTABLE POWER CORD REEL ABOVE
	CARD READER		FLOOR BOX
	CEILING MOUNTED SPEAKER		DATA AT FLOOR BOX
	CEILING MOUNTED MICROPHONE		
	WALL MOUNTED CAMERA		

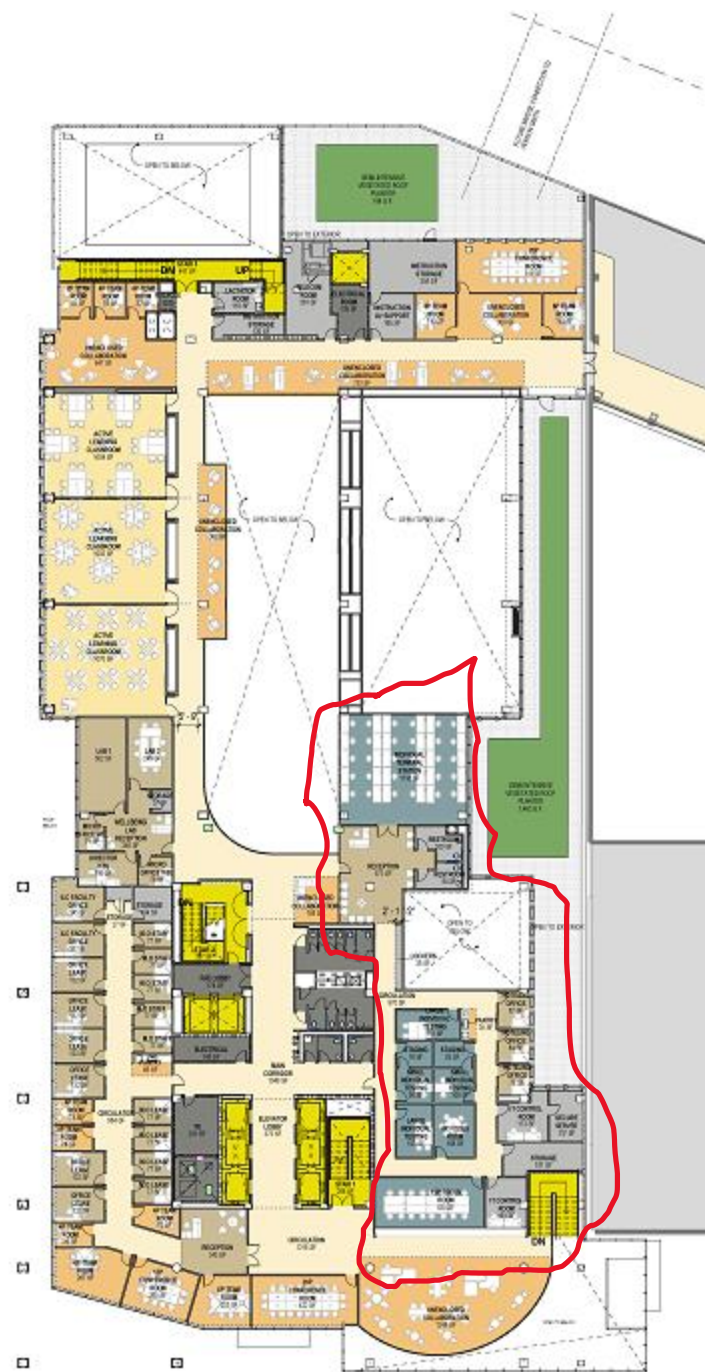
NOTES: FURNITURE SHOWN FOR REFERENCE ONLY.
ALL ITEMS MAY NOT EXIST IN EVERY ROOM.

Key to drawings

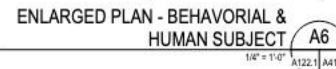
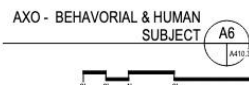
*All furniture depicted
is for illustration purposes
Only.*

Level 2 Human Subject and Behavior Labs (outlined in red)

Function: To conduct studies of human behavior, human machine interactions, product evaluation, surveys and other applications where humans are involved in experiments and remote observation may be desired

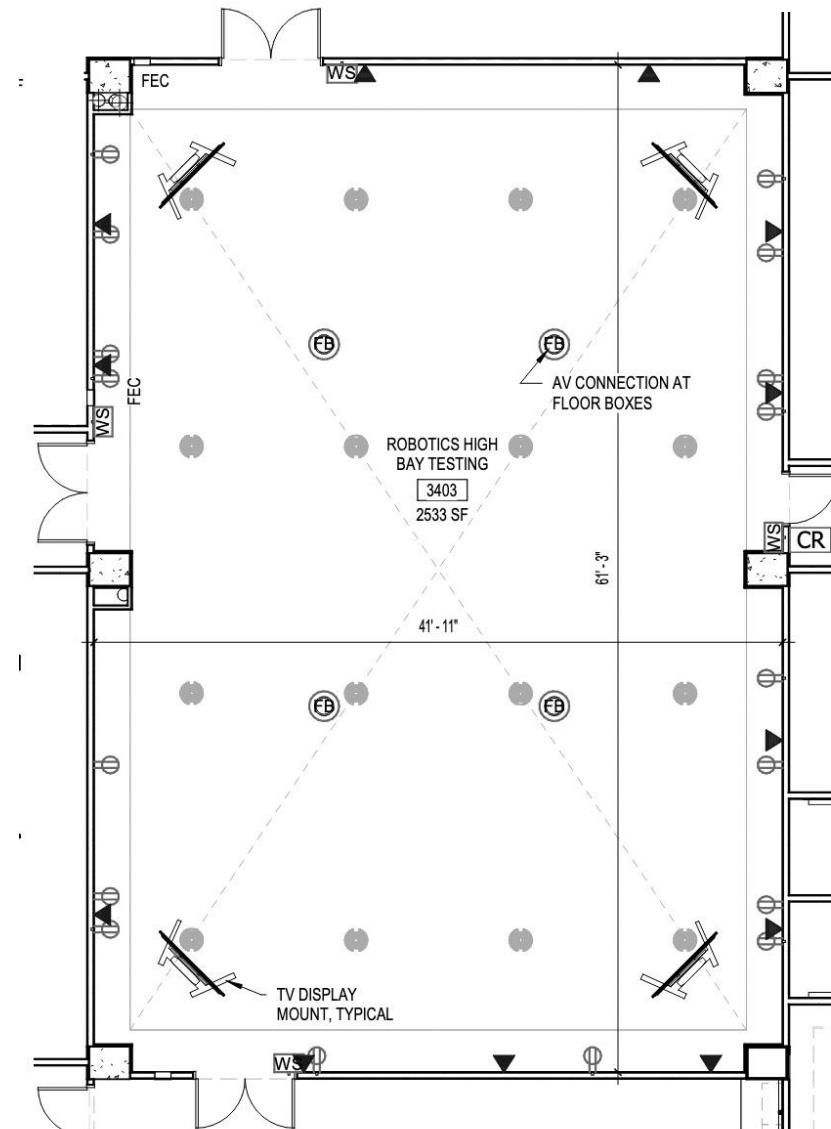
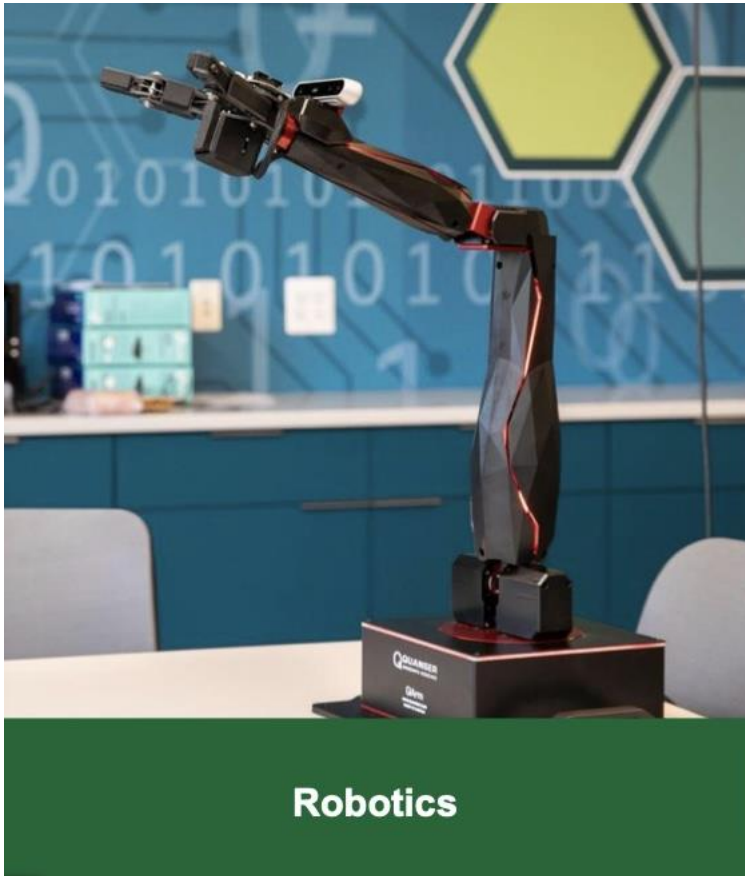


Note: Furniture depicted is to represent scale and is not set. Rooms can accommodate equipment and robotics.



Robotics High Bay Testing

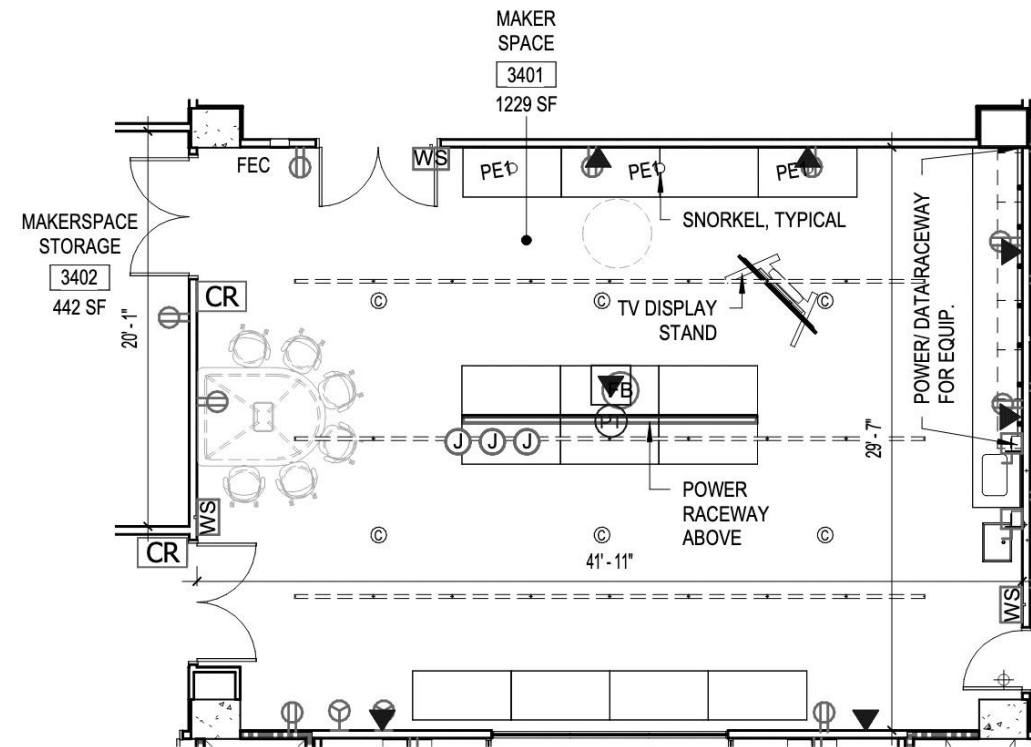
- Function: Space for testing robotic assemblies.
- Features: 2,533 SF, 20' high to nearest obstruction (lights) 25' to ductwork



FLOOR PLAN - ROBOTICS HIGH BAY TESTING

Maker Space

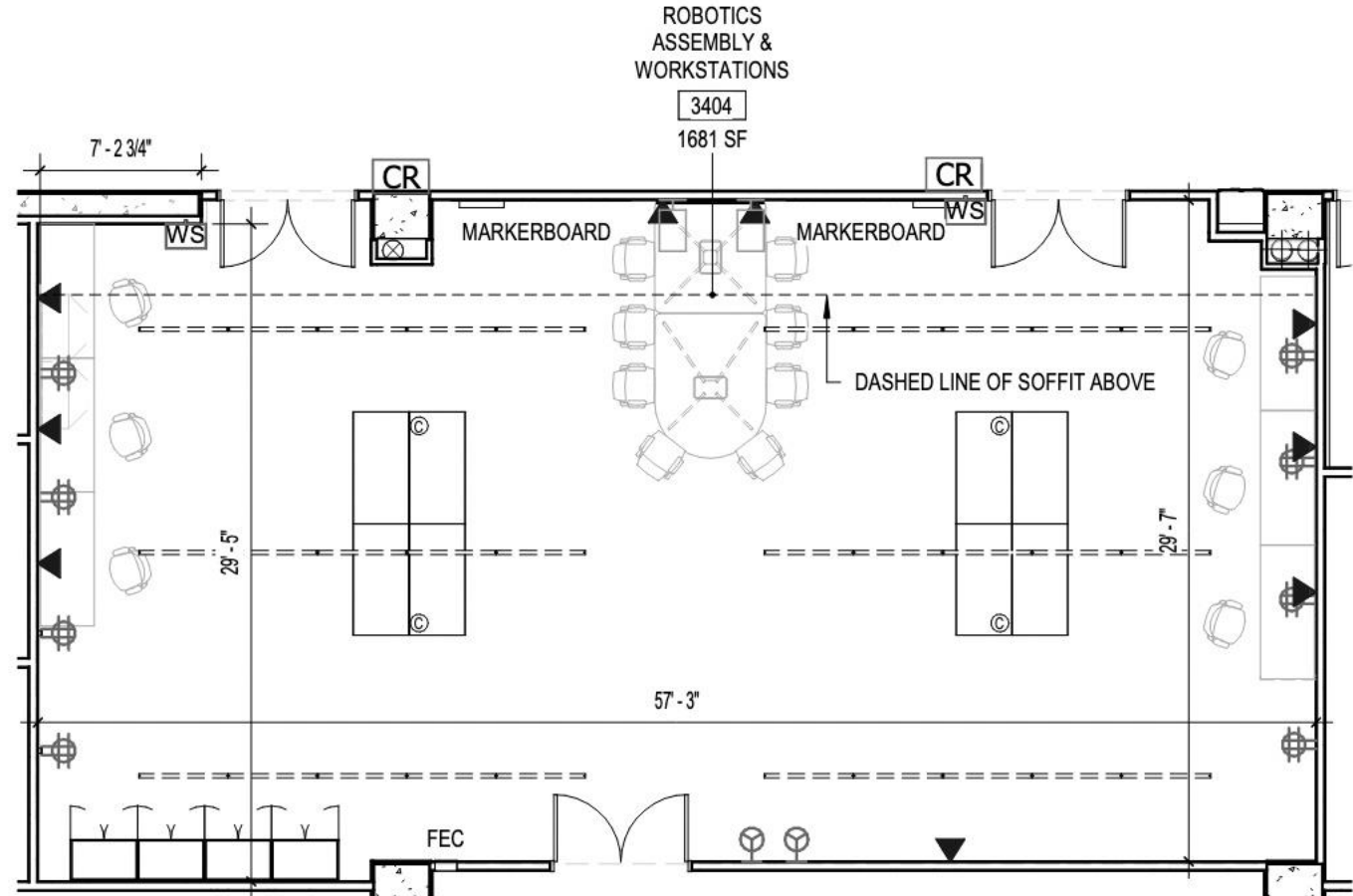
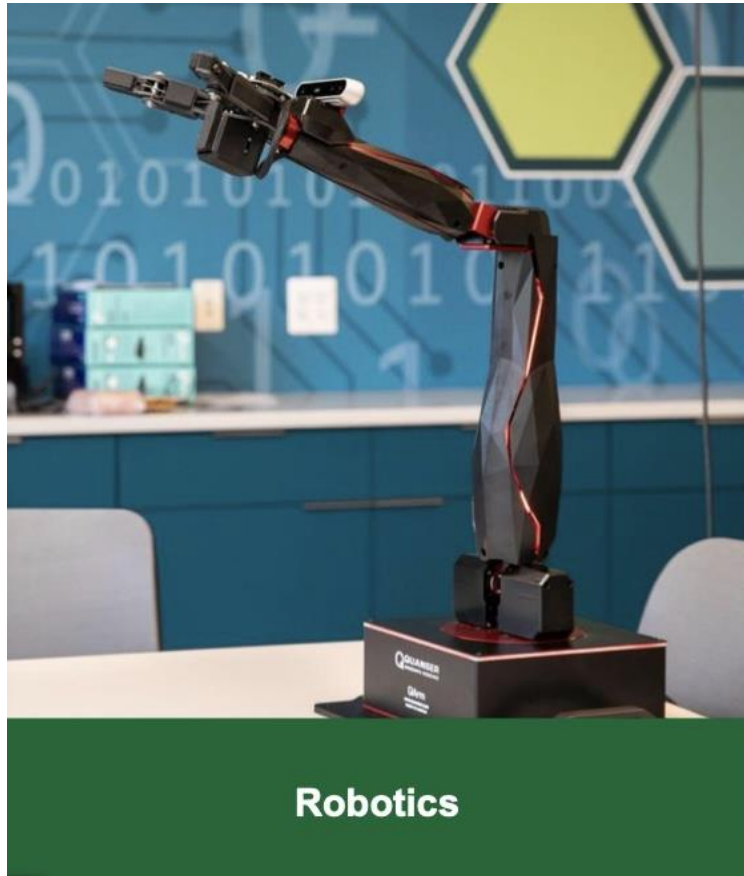
- Function: Shared shop area of parts and components for robotic assemblies as well as other rapid prototyping and fabrication
- Features: 1229 SF with connected 442 SF storage, 10'-8" to nearest obstruction



FLOOR PLAN - MAKER SPACE

Robot Assembly

- Function: Work area for assembly of prototypical projects, light electronics work, programming, data analysis, etc.
- Features: 1,681 SF, 10'-8" to n

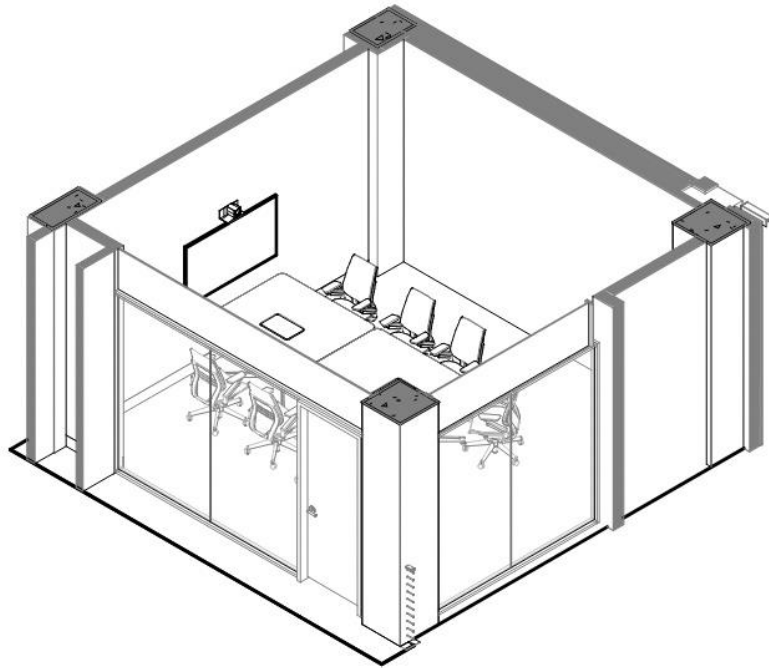


FLOOR PLAN - ROBOTICS ASSEMBLY & WORKSTATIONS

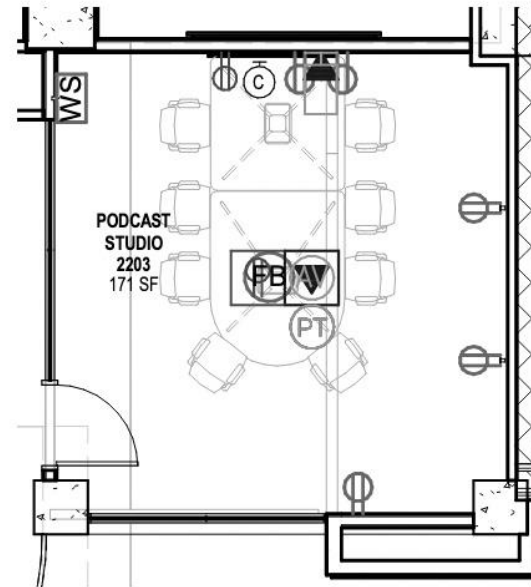
Podcast Studio

171 SF

Sound proof



AXONOMETRIC - PODCAST STUDIO

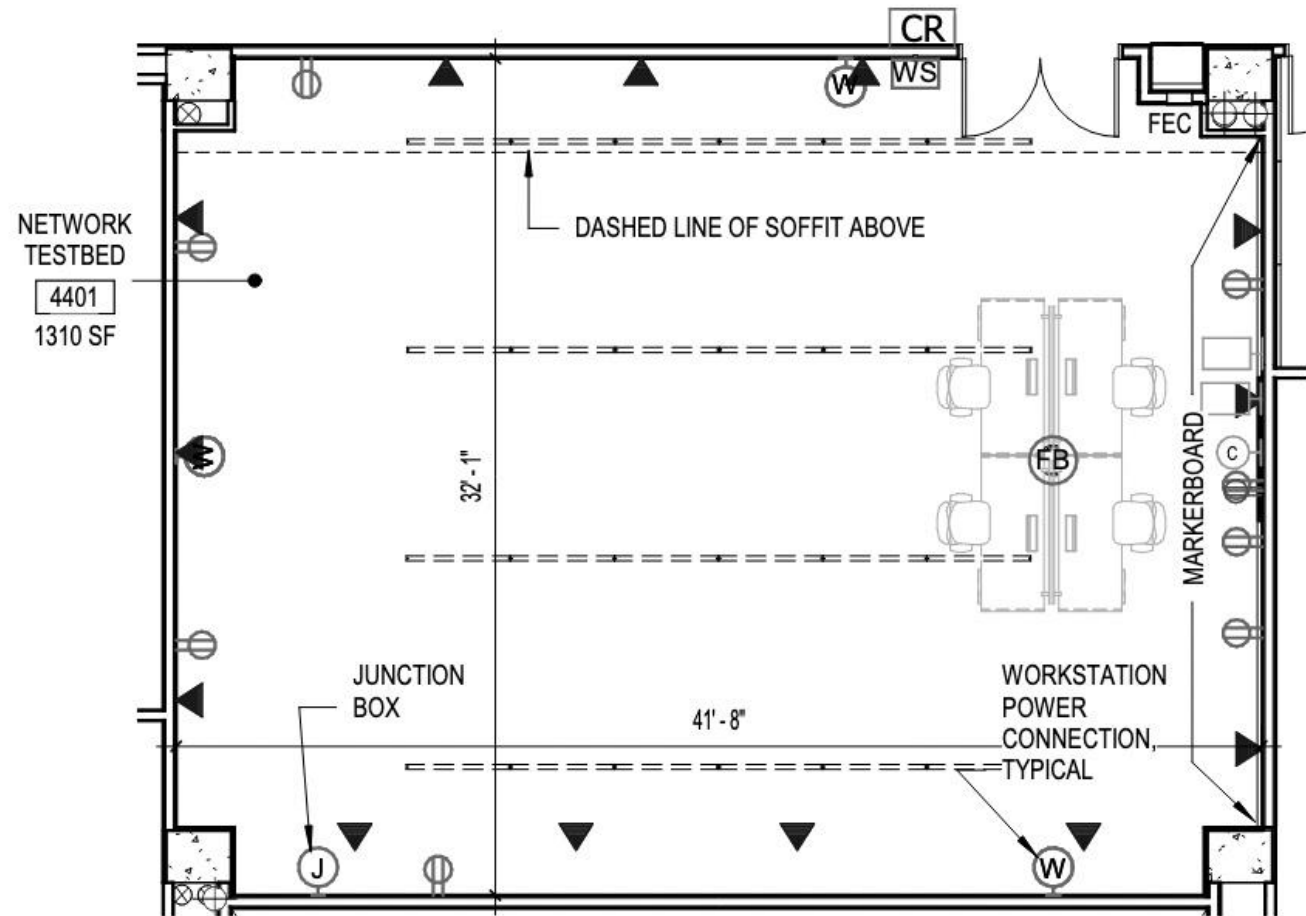


FLOOR PLAN - PODCAST STUDIO



Networking Testbed

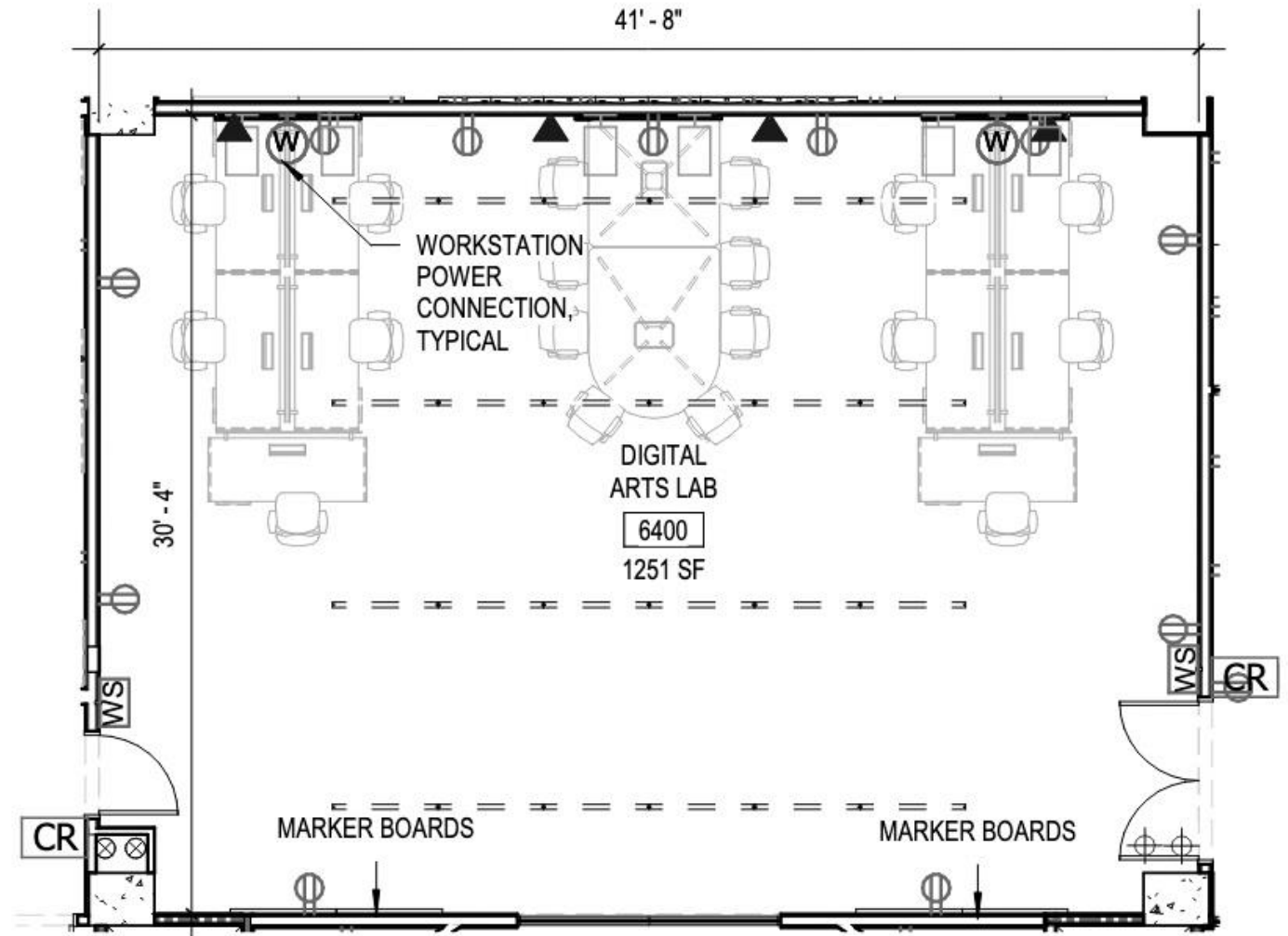
- Function: Research space for developing network prototypical technology and use
- Features: 1,310 SF, 10'-8" nearest obstruction



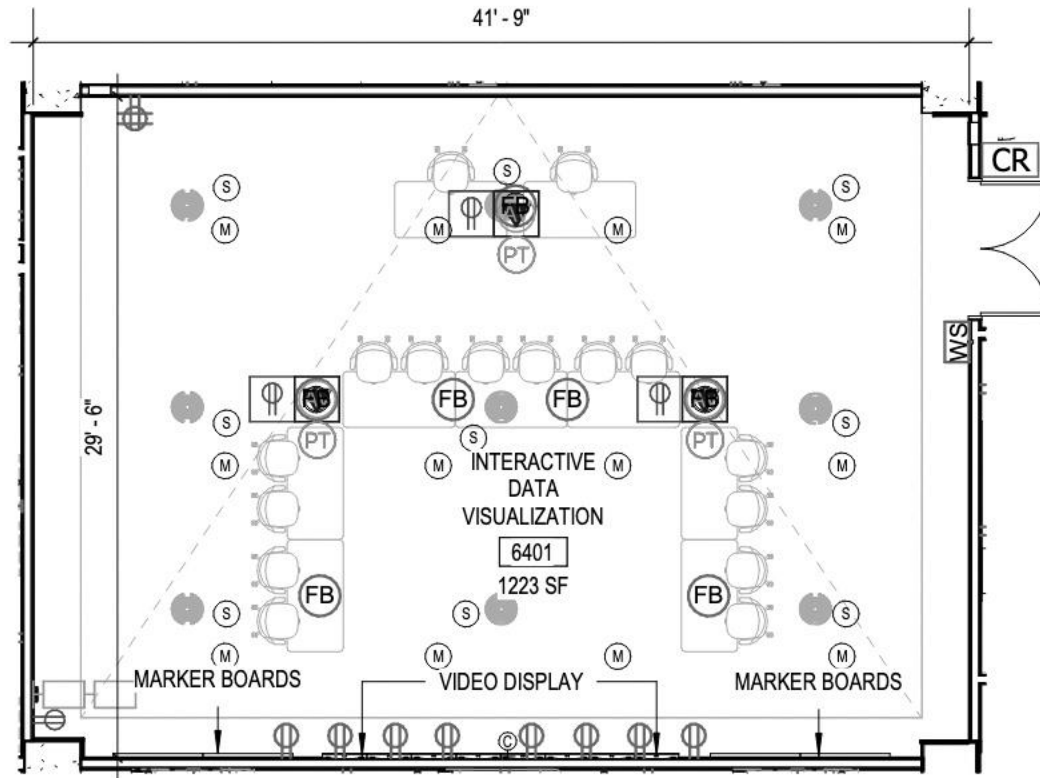
FLOOR PLAN - NETWORK TESTBED

Digital Arts Lab

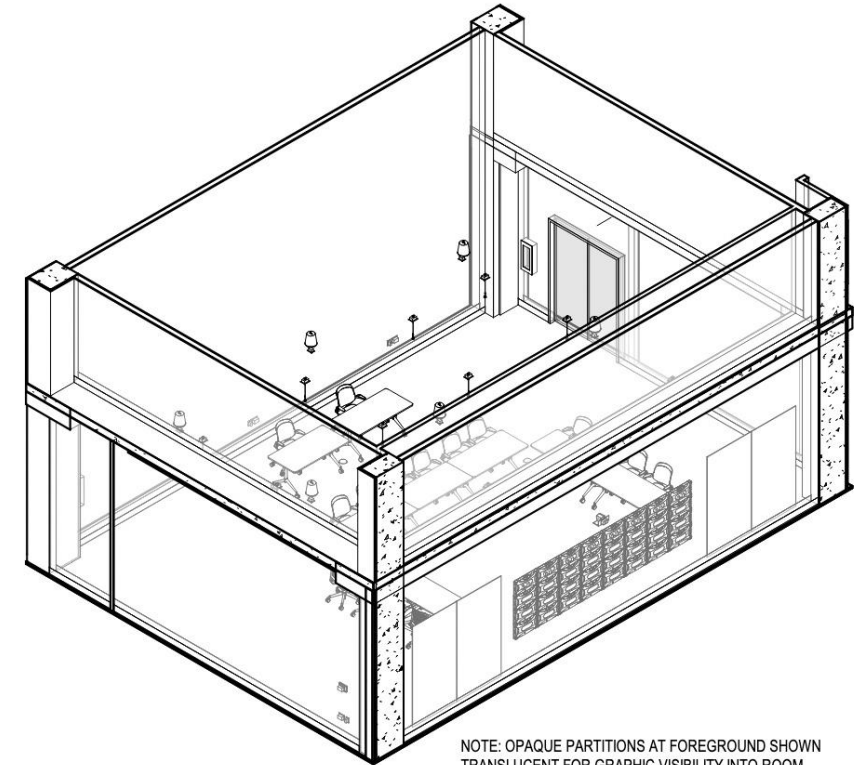
- Function: Lab space dedicated for work and collaboration on the digital arts
- Features: 1,251 SF, 11' to nearest obstruction
- Located near public elevator bank to support access for exhibits



ENLARGED PLAN - DIGITAL ART LAB RM 6400



FLOOR PLAN - INTERACTIVE DATA VISUALIZATION LAB RM 6401



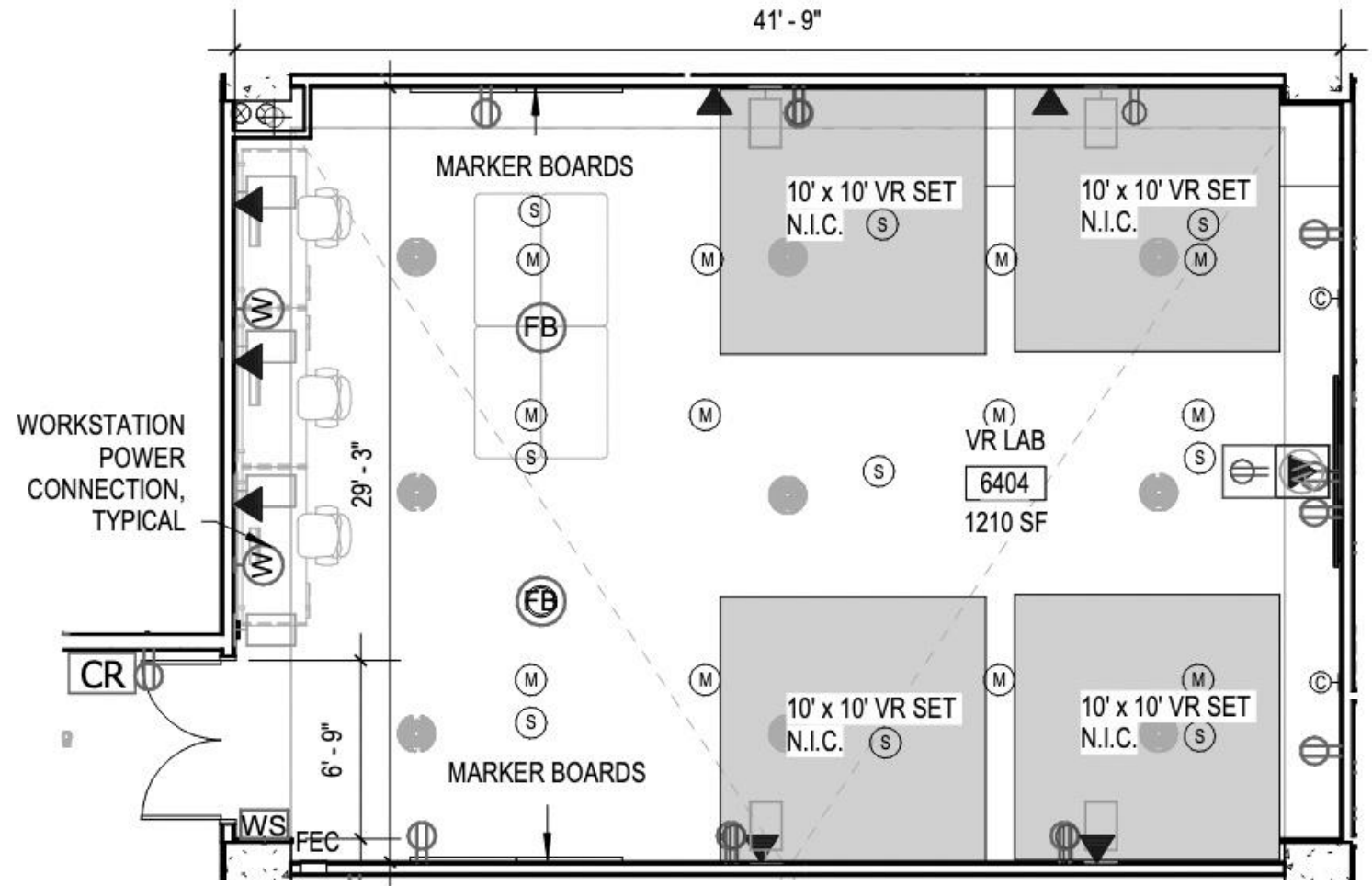
AXONOMETRIC - INTERACTIVE DATA VISUALIZATION LAB

Interactive Data Visualization Lab

- Function: Collaboration area with data visualization hub for digital data presentations and teamwork
- Features: 1,223 SF, 20' to nearest obstruction (lights) 25' to ductwork

Virtual Reality Lab

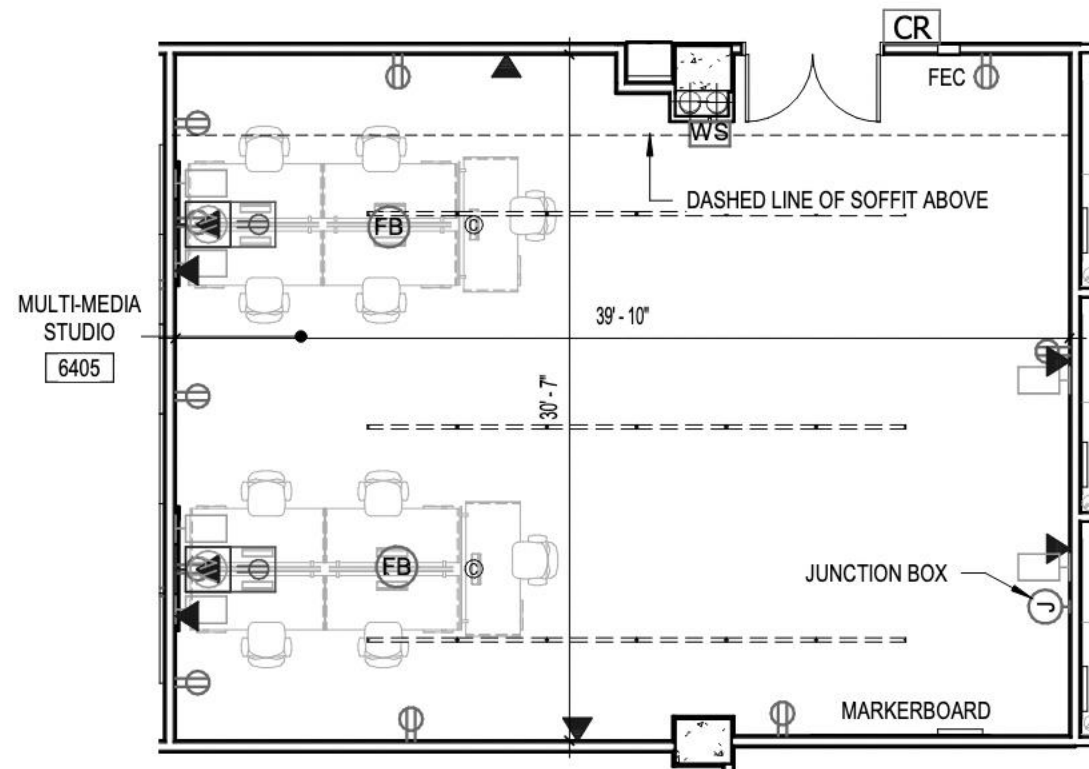
- Function: Research space for developing virtual reality prototypical technology and use.
- Features: 1,210 SF, 20' to nearest obstruction (lights) 25' to ductwork



FLOOR PLAN - VIRTUAL REALITY LAB RM 6404

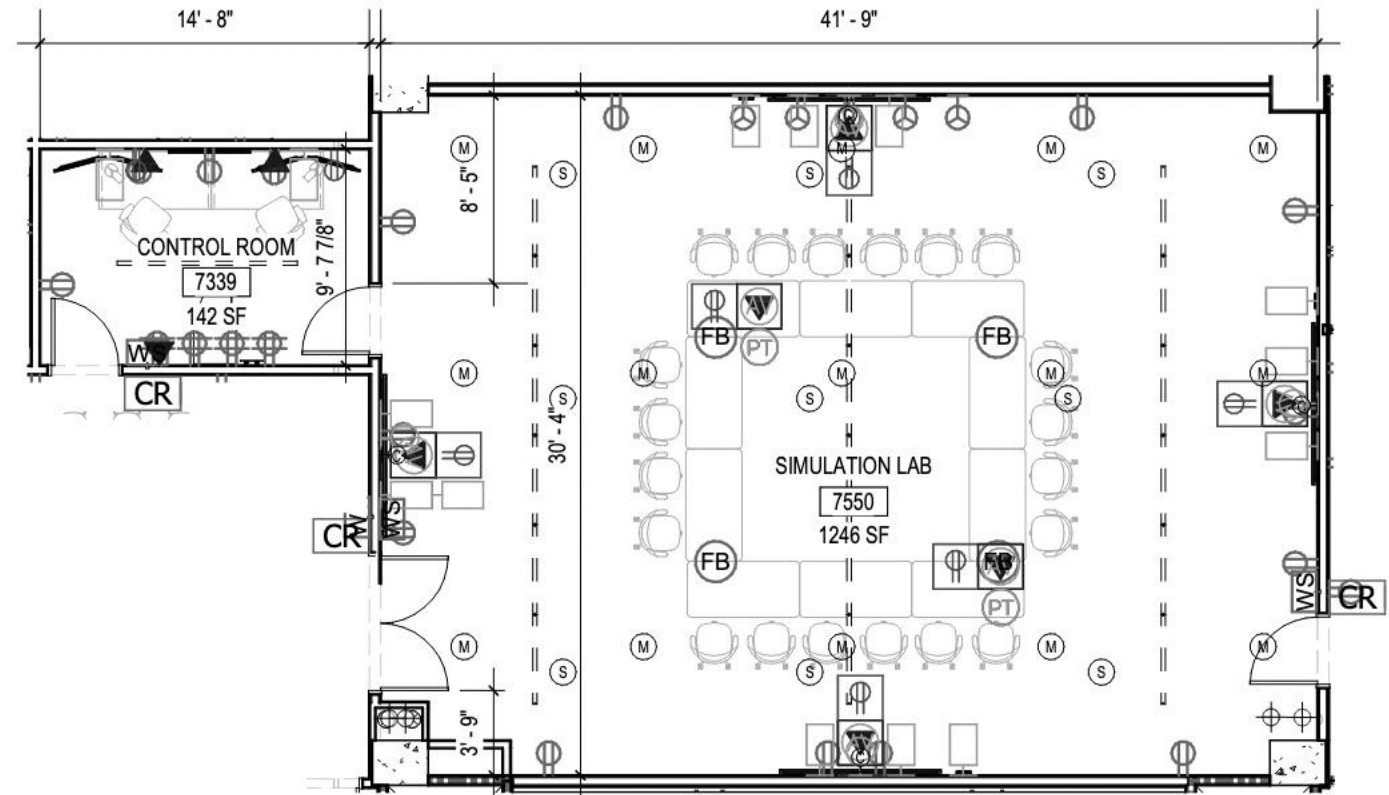
Multi-Media Studio

- Function: Studio for video production and broadcasting
- Features: 1,200 SF, 10'- 8" high to nearest obstruction



Simulation Space

- “Black Box” space for a variety of changing, large-scale simulation environments that will be constructed by the end-users.
- Concrete floor, carpet in control room
- 142 SF Control Room
- Features: 1,246 SF, 11’ to nearest obstruction



FLOOR PLAN - SIMULATION LAB RM 7550

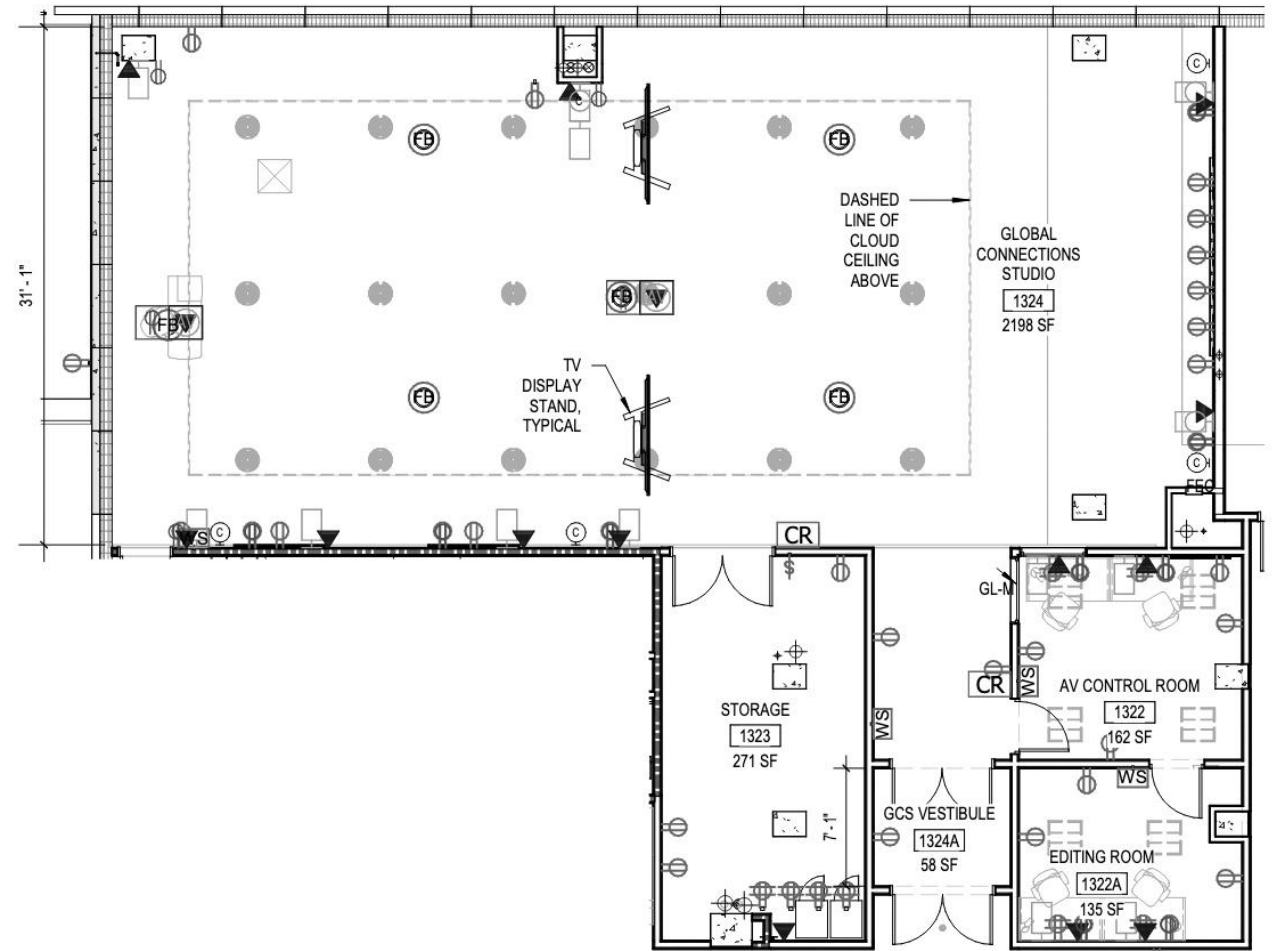
Global Connections (Online) Studio

2200 SF

w/Associated 270 SF storage

162 SF A/V Control Room

135 SF Editing Room



FLOOR PLAN - GLOBAL CONNECTIONS STUDIO

1/8" = 1'-0"

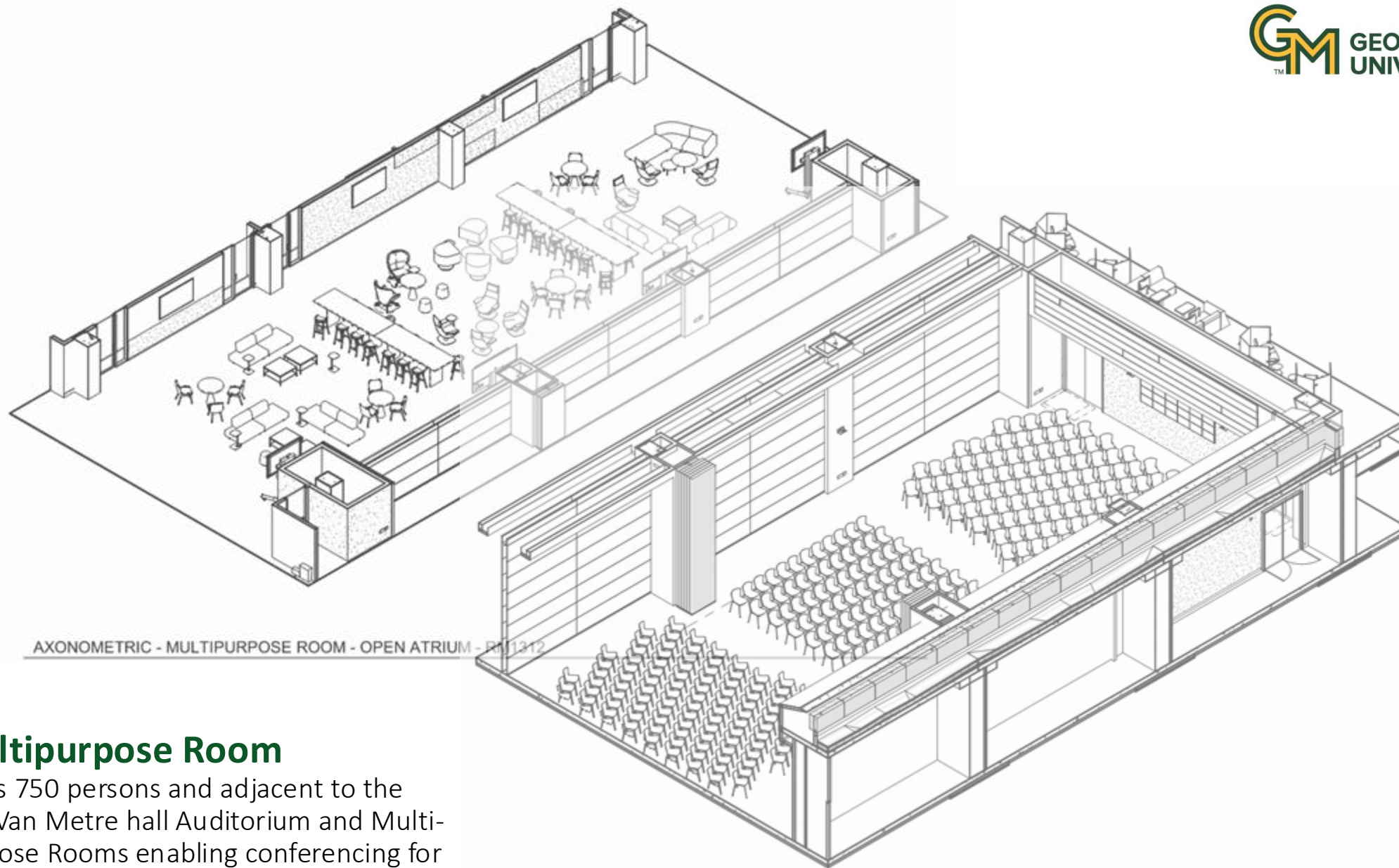


Future Labs

1161 SF

1245 SF

- Features: 1,200 SF each, 1 @ 11' and 1 @ 20' (lights & 24' to ductwork) high to nearest obstruction

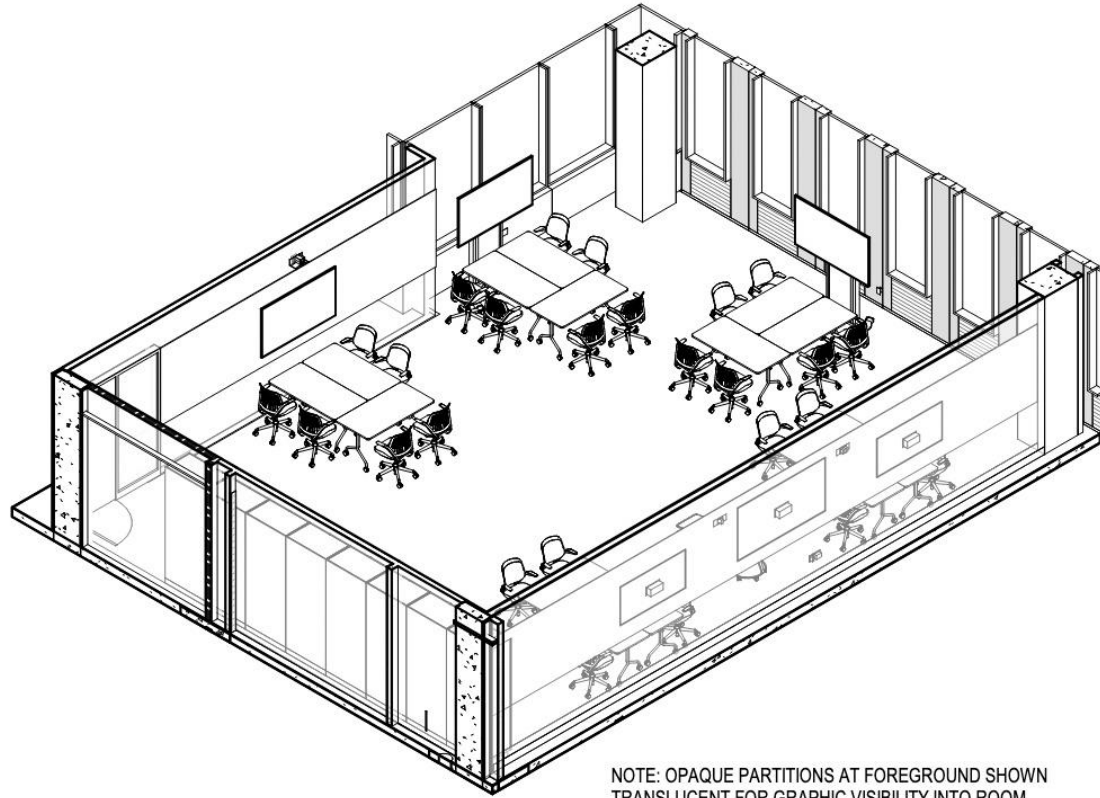


AXONOMETRIC - MULTIPURPOSE ROOM - OPEN ATRIUM - RM1312

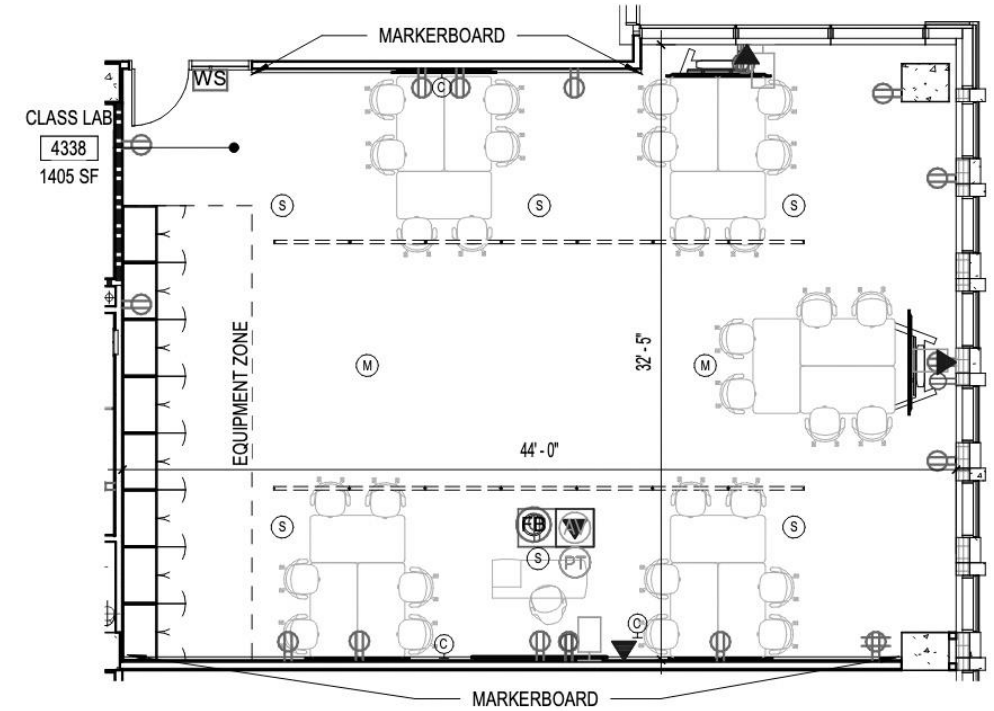
AXONOMETRIC - MULTIPURPOSE ROOM - ENCLOSED RM1311

Multipurpose Room

Hosts 750 persons and adjacent to the two Van Metre hall Auditorium and Multipurpose Rooms enabling conferencing for more than 1000 persons



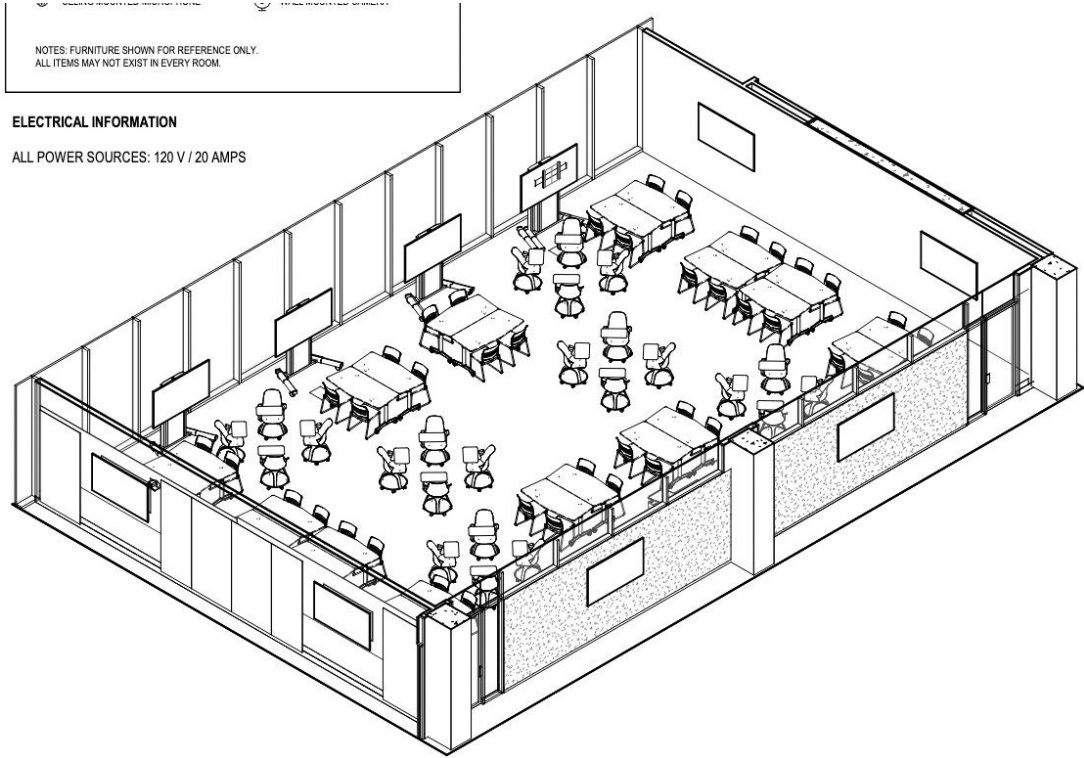
AXONOMETRIC - CLASS LAB (TYPICAL)



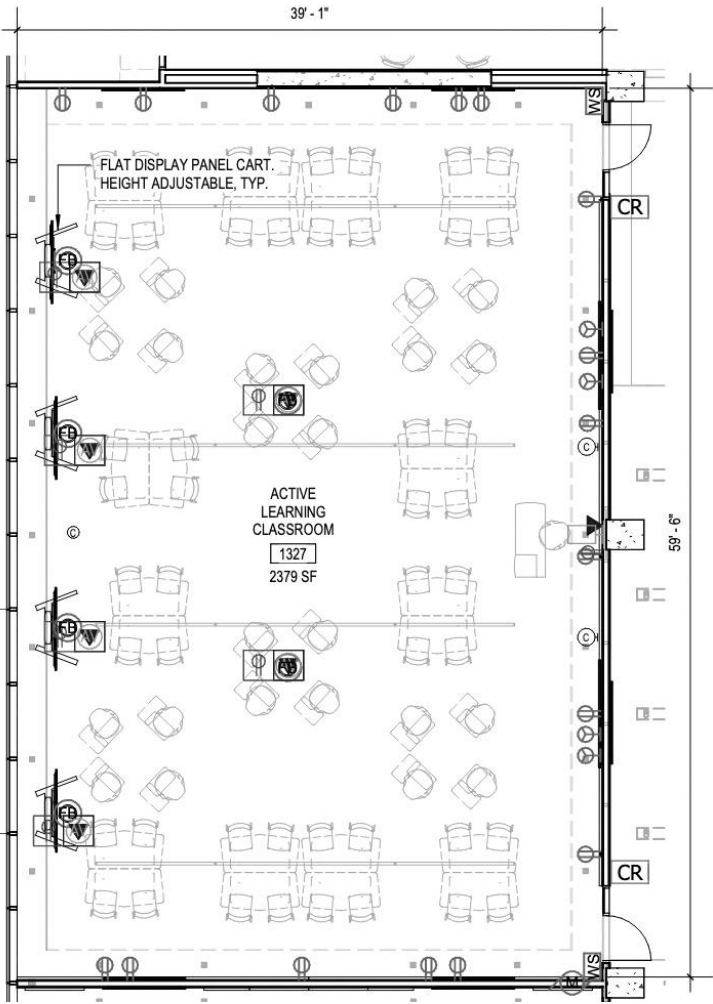
FLOOR PLAN - CLASS LAB (TYPICAL)

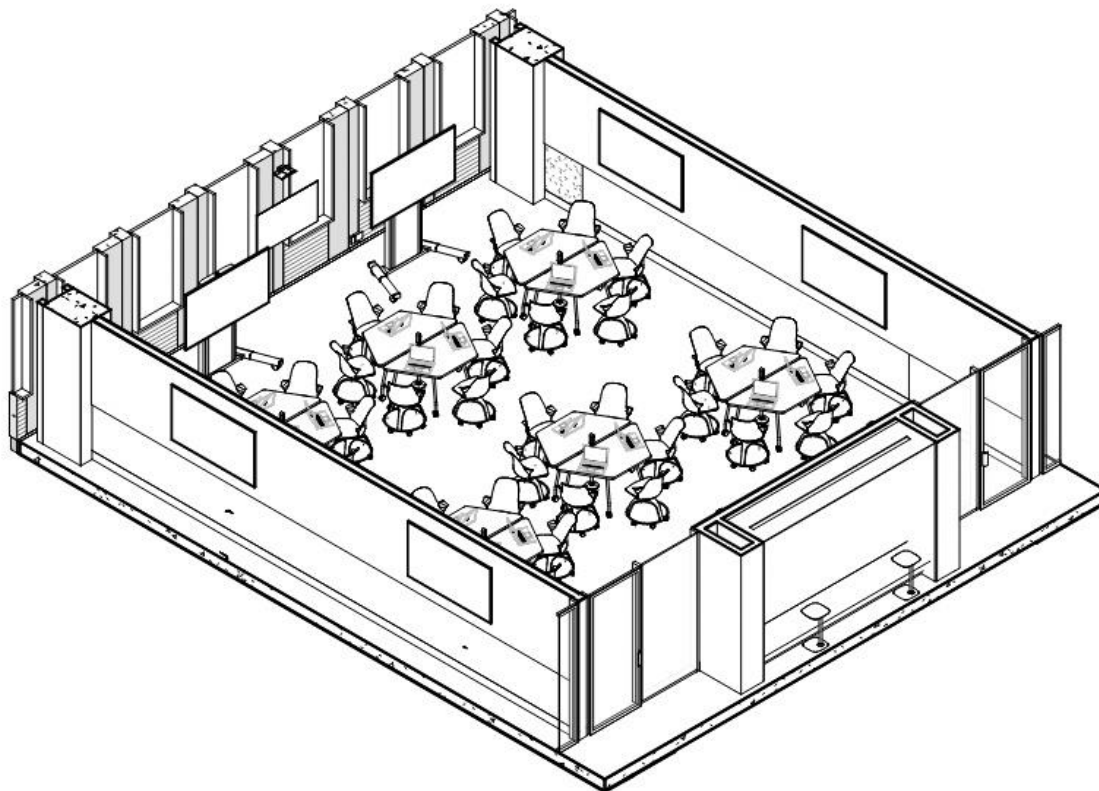
Active Learning Classroom – Large

2379 SF – 72 seats

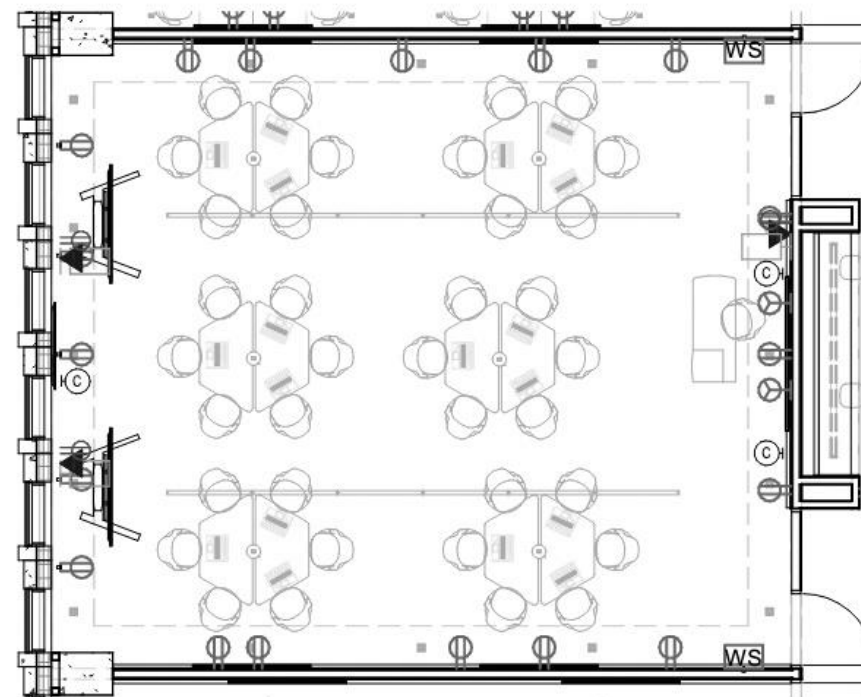


AXONOMETRIC - ACTIVE LEARNING CLASSROOM (LARGE) RM1327





AXONOMETRIC - ACTIVE LEARNING CLASSROOM



FLOOR PLAN - ACTIVE LEARNING CLASSROOM

**Active Learning Classroom – Small
Classrooms with 36-40 seats (9 Total)**

FUSE Presenters



Liza Durant

George Mason University

Associate Provost for Strategic
Initiatives and Community
Engagement

ldurant2@gmu.edu



Brian Naumick

*Edgemoor Real Estate and
Infrastructure*

Managing Director

brian.naumick@edgemoor.com



Katie Fanady

*Edgemoor Real Estate and
Infrastructure*

Senior Development Analyst

katie.fanady@edgemoor.com



Andrew Klaff

Newmark

Executive Managing Director

andy.klaff@nmrk.com



Debbie Cross

Newmark

Associate

debbie.cross@nmrk.com