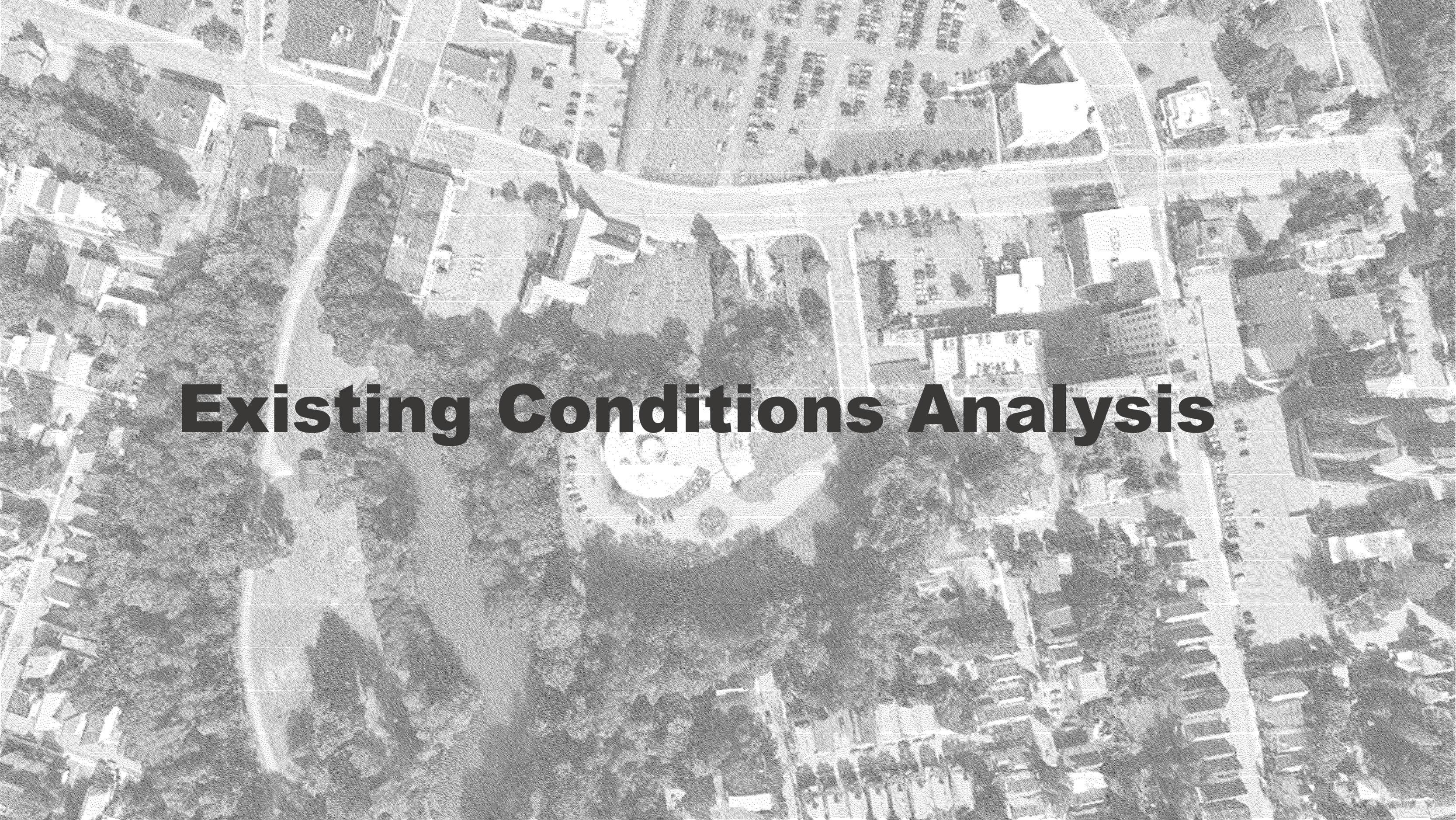


Museum of Innovation and Science
County Legislature Presentation
March 19, 2025



Feasibility Study Team



An aerial, grayscale photograph of a residential neighborhood. The image shows a grid of streets, numerous houses, and a central park area with trees and a circular structure. The text "Existing Conditions Analysis" is overlaid in the center.

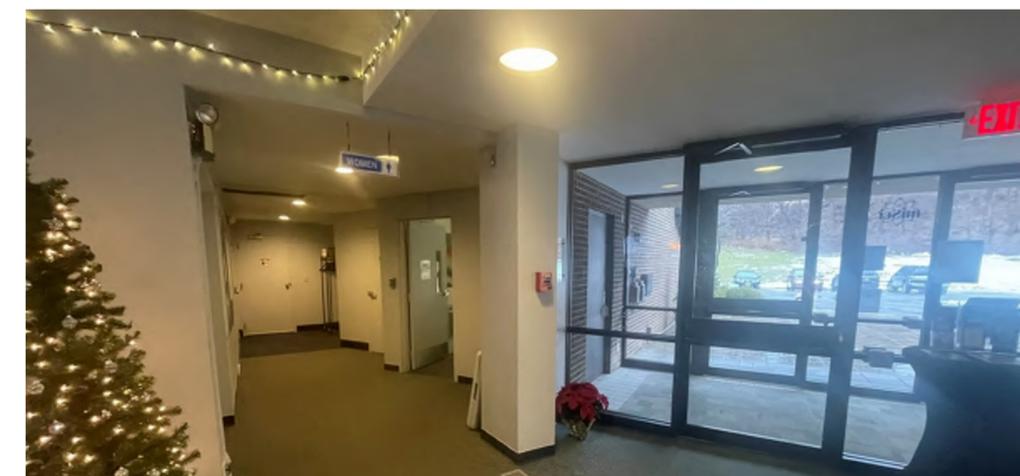
Existing Conditions Analysis

Existing Building

Building Stories: 2 Stories with a basement
Building SF: 43,811 gross sf

Program: Basement: Archives
Ground Floor : Exhibit Space,
Classroom/Event Space
Second Floor : Classrooms, Offices

Materials: Brick
Glazing



Geotechnical Analysis

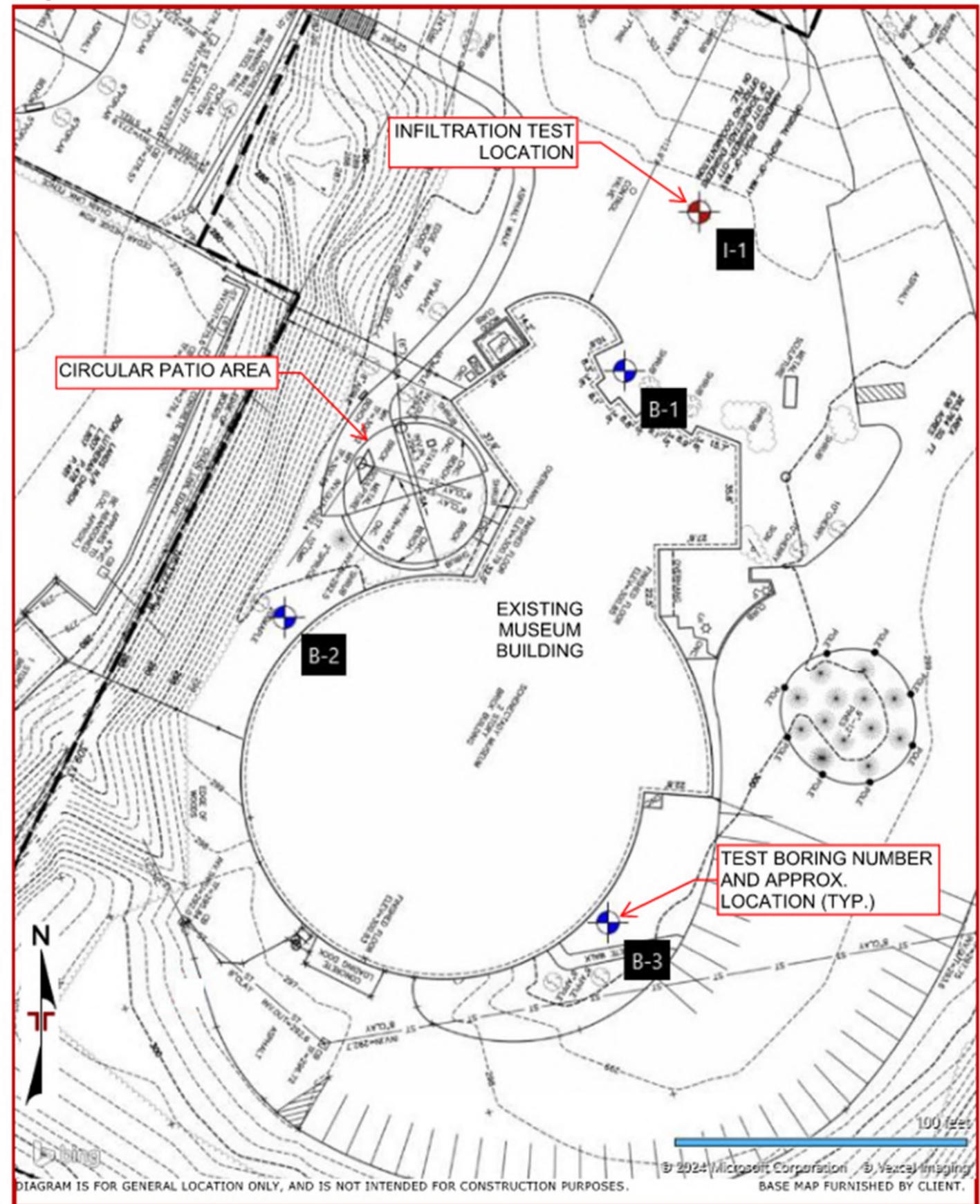
- Three exploratory test borings (B-1, B-2, B-3) were completed at the site on October 18, 2024
- A fourth boring (I-1) was completed for infiltration testing

Infiltration Test No.	Test Depth (ft) ¹	Soil Classification at Test Depth	Observed Infiltration Rate (in/hr) ²
I-1	6.8	Poorly graded sand with silt	7.6

1. Below existing ground surface.
2. Represents the average result of four trials.



Exploration Plan

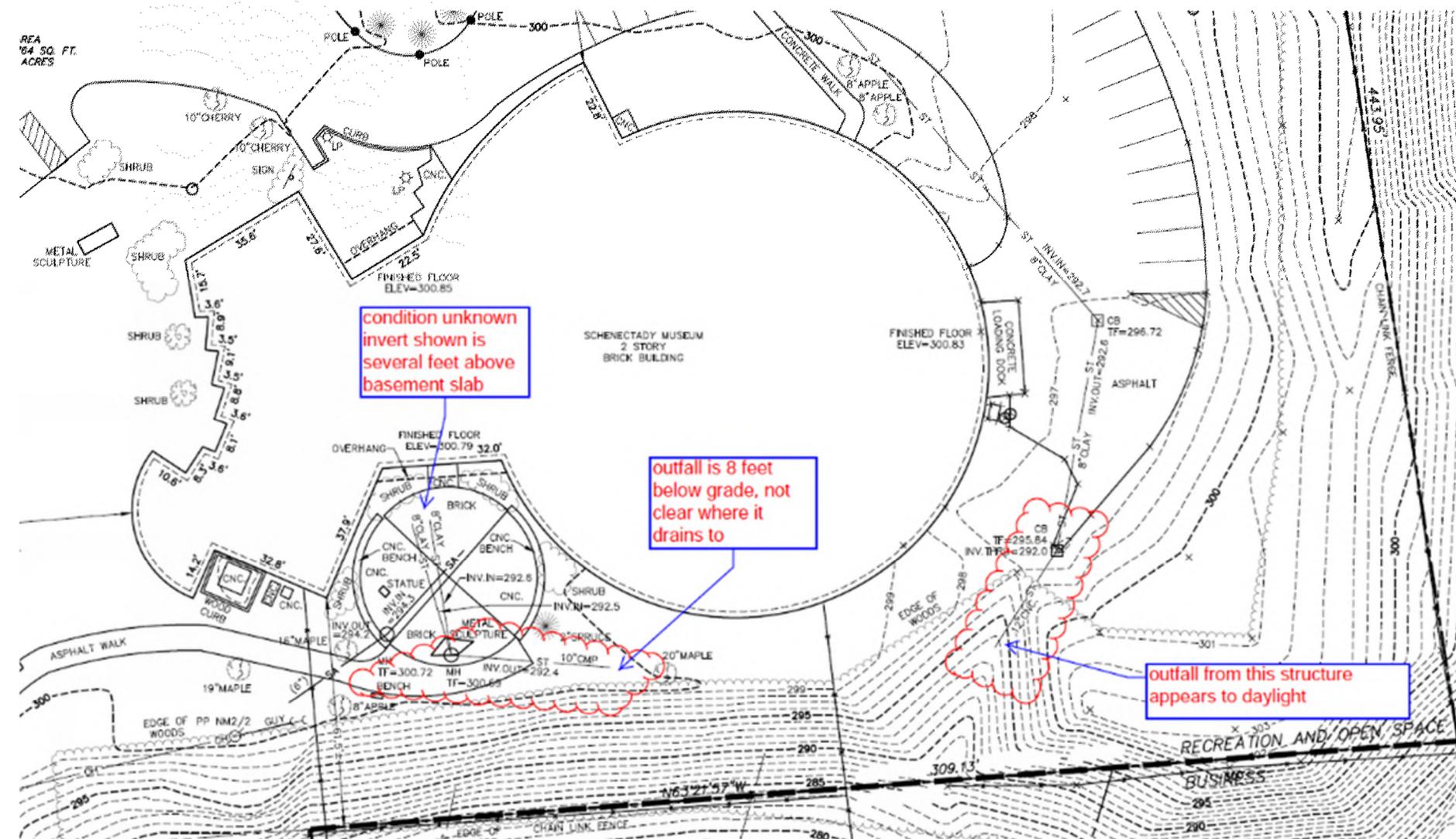


Structural Analysis

In general, the condition of the building structure is very good.

Recommendations:

- Concur with the recommendations noted in the Terracon report.
- It is not clear if a functioning footing drain is in place around the base of the foundation wall. If not, surface infiltration could remain temporarily trapped in the fill around the foundation wall especially during heavy storms or Spring thaw.

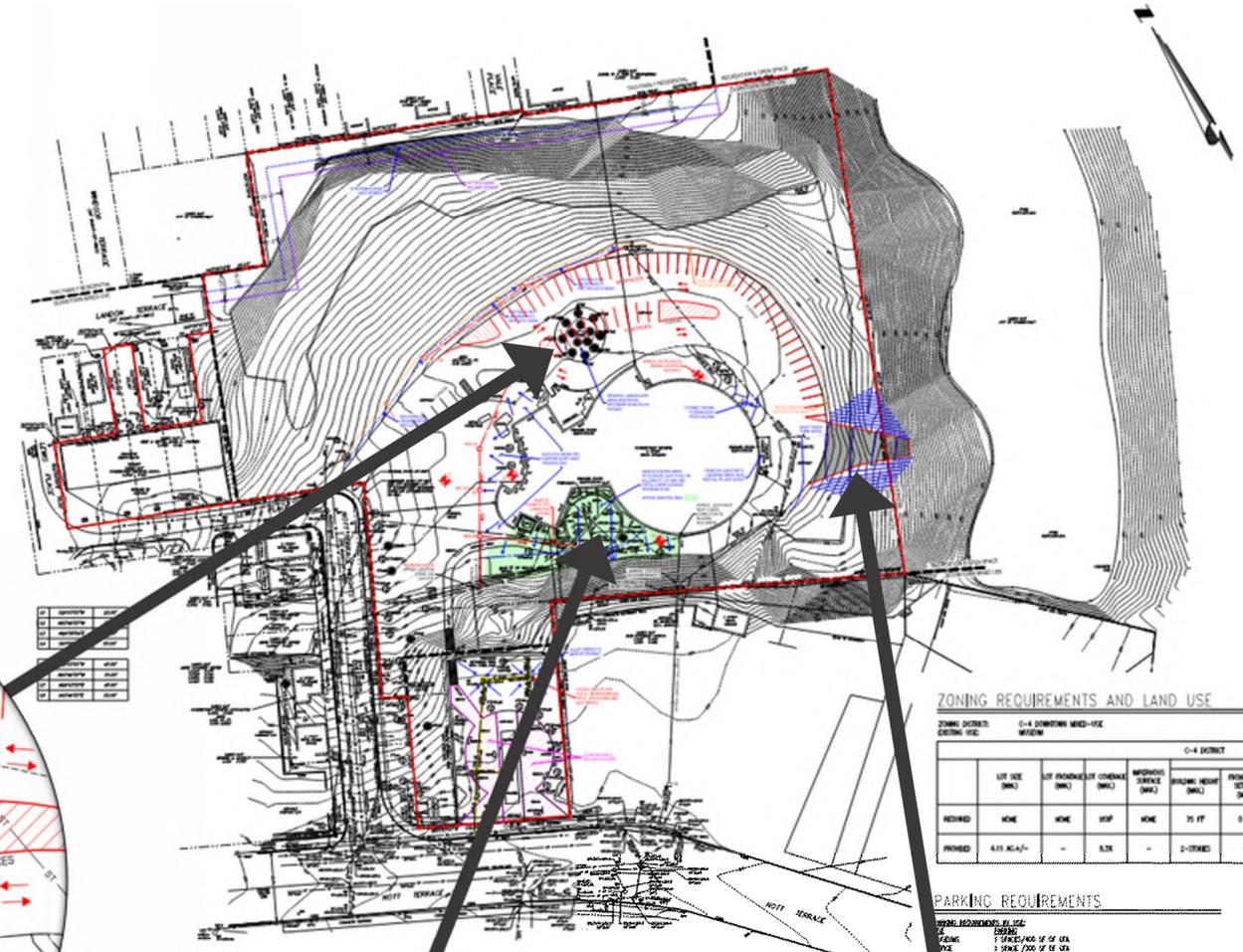


Civil Analysis

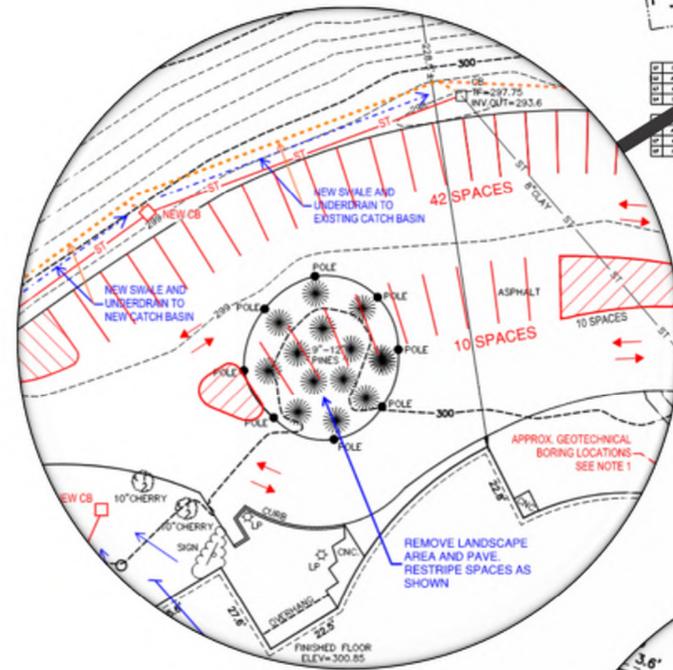
By implementing these comprehensive drainage improvements, MiSci may benefit from reduced water intrusion risks, extended pavement life, and a more effective stormwater management system, supporting the long-term preservation and usability for the site.

Recommendations:

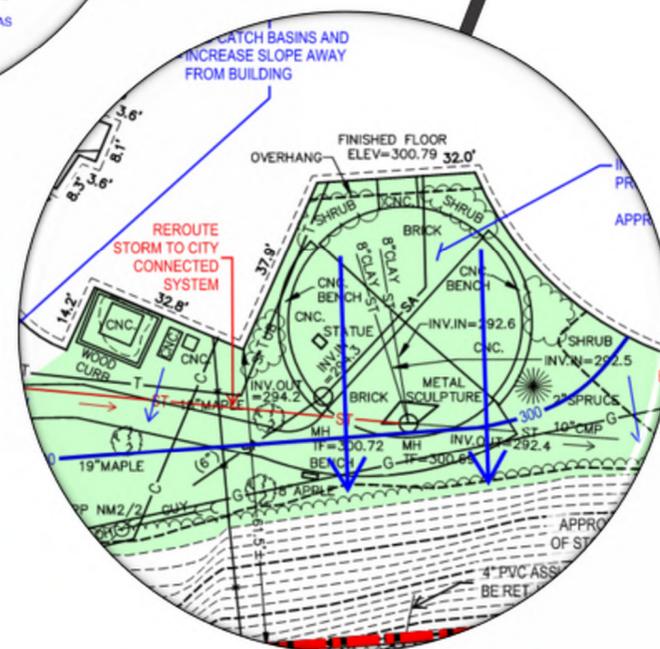
- Drainage improvements at the museum of innovation and science
- East Side of the building grades
- North parking lot improvements and reconfiguration
- West Side lawn area new catch basins
- South Side patio area reconstructed slope
- Truck access to loading dock
- Locomotive Display Area (Improvements by the City of Schenectady)



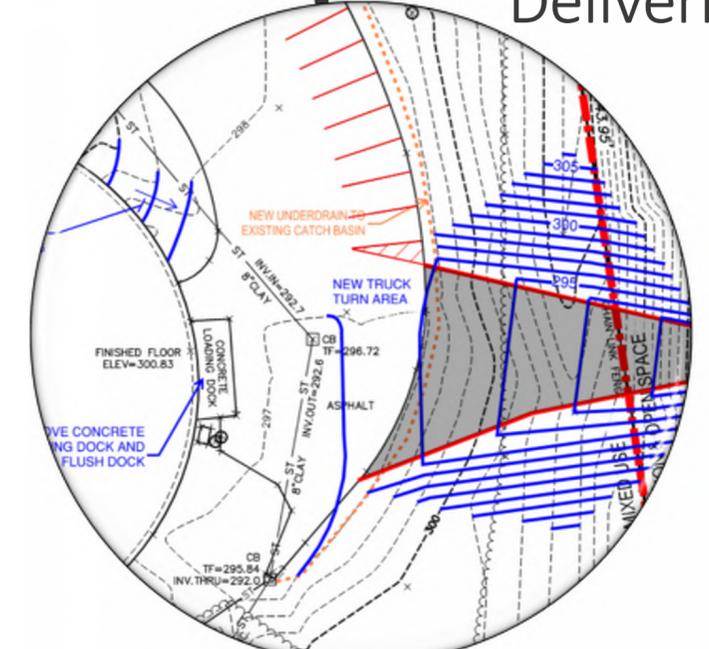
Parking



Patio



Deliveries



ZONING REQUIREMENTS AND LAND USE

FORMAL DISTRICT: O-4 DOWNTOWN MIXED-OFFICE
 DISTRICT TYPE: MIXED USE

LOT SIZE (SMLS)	MINIMUM SETBACKS (SMLS)				BUILDING			
	FRONT YARD	REAR YARD	SIDE YARD	REAR YARD	MAXIMUM HEIGHT (SMLS)	MAXIMUM FLOOR AREA (SMLS)	MAXIMUM NUMBER OF STORIES	MAXIMUM NUMBER OF UNITS PER LOT
RESIDENTIAL	NONE	NONE	5 FT	NONE	35 FT	0 FT	0 FT	NONE
PROFESSIONAL	4.5 FT	4.5 FT	5 FT	5 FT	2-STORIES	-	-	SEE NOTE 1

PARKING REQUIREMENTS

MINIMUM REQUIREMENTS BY USE:

OFFICE	1 SPACE/100 SF OF GFA
RETAIL	1 SPACE/100 SF OF GFA
RESTAURANT	1 SPACE/100 SF OF GFA

1. SEE NOTE 1 FOR SPECIAL REQUIREMENTS FOR 20 FEET/100 SF OF GFA.

2. SEE NOTE 2 FOR SPECIAL REQUIREMENTS FOR 20 FEET/100 SF OF GFA.

3. SEE NOTE 3 FOR SPECIAL REQUIREMENTS FOR 20 FEET/100 SF OF GFA.

MEP Analysis

The MEP systems are of varying ages, and most are in poor condition beyond their expected service life and in need of replacement.

Recommendations:

- Replace plumbing fixtures
- Water distribution, hot water heater, sewage pump upgrades
- Replace roof/storm drain system
- Natural gas pipe supports
- Update building HVAC system and rooftop units
- Updates to electrical distribution
- Replace lighting
- Update fire alarm system
- New card access control/security system
- General electric upgrades
- Update tele/Data System



Boiler #1



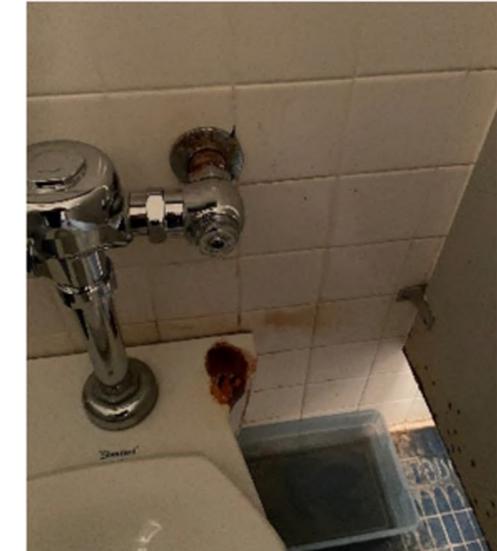
Boiler #2



Boiler #3



Typical HVAC Controls at MiSci



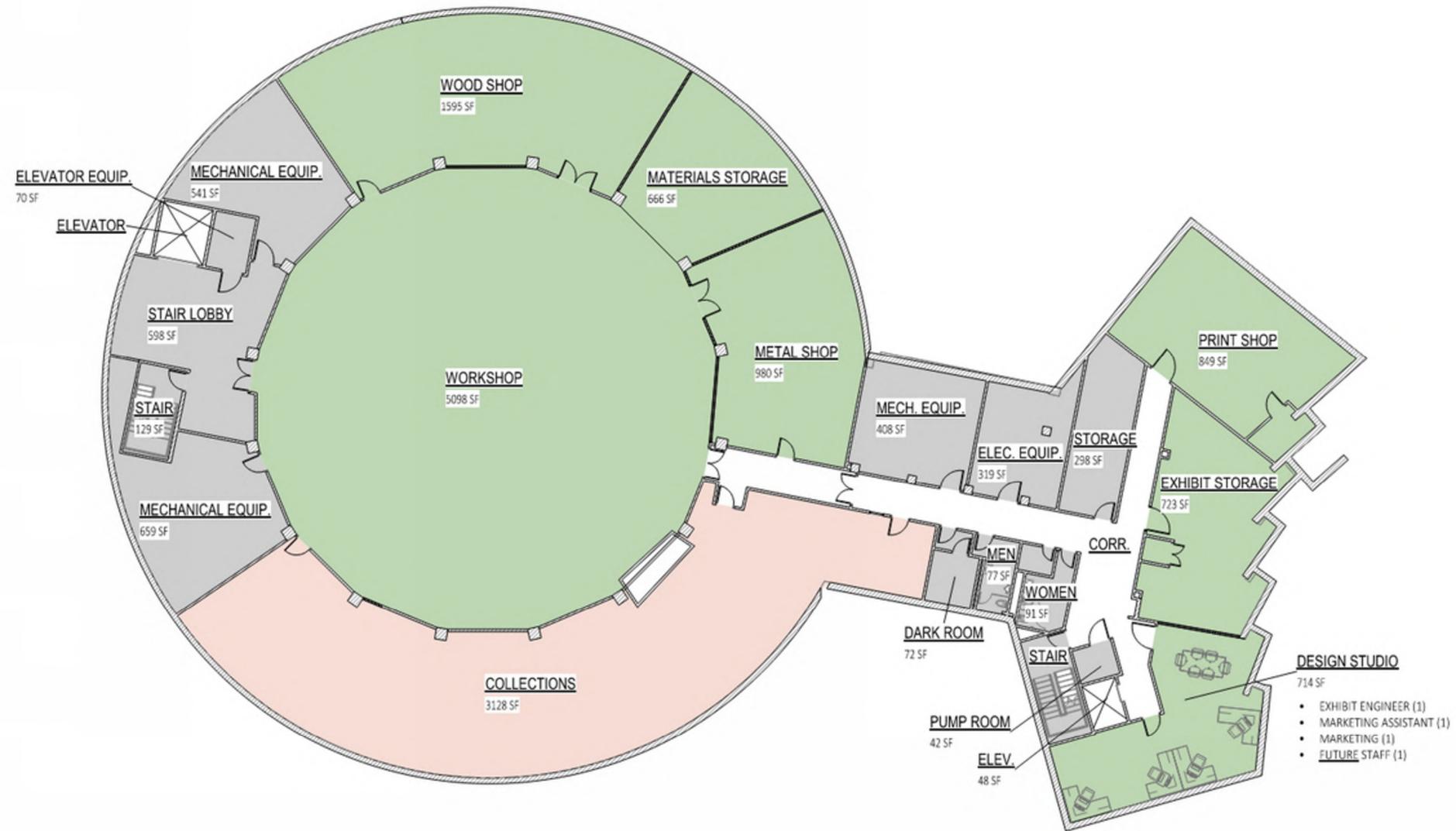
An aerial, black and white photograph of a university campus. The image shows a central green space with a large, circular building in the middle. Surrounding this central area are various other buildings, some with flat roofs and others with more complex structures. There are many trees scattered throughout the campus, particularly in the central and lower-left areas. The overall layout is somewhat irregular, with buildings and green spaces interspersed. The text "Size and Design" is overlaid in the center of the image.

Size and Design

Size and Design: Phase 1

Proposed Basement Floor Plan (Existing building)

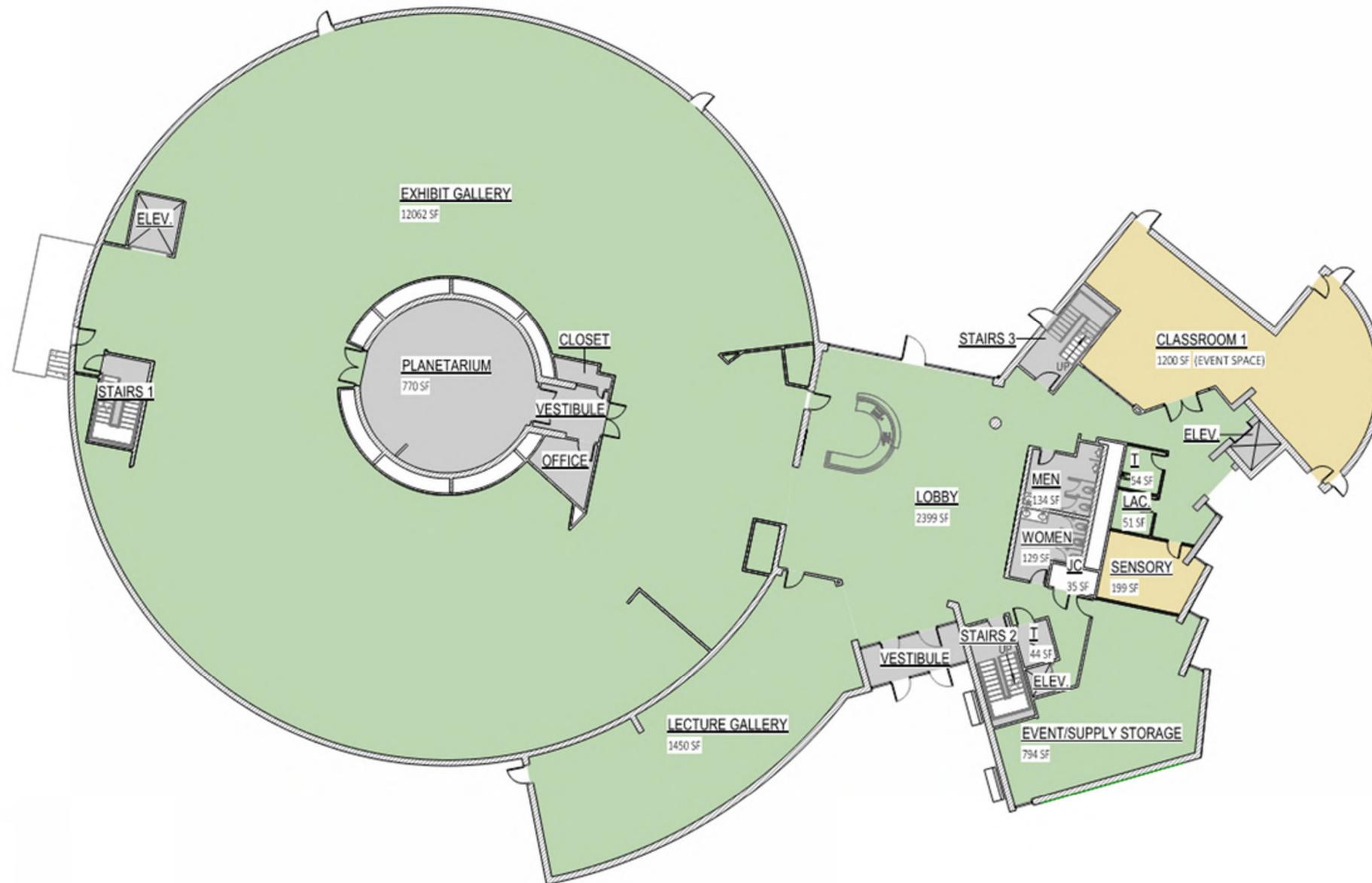
- Collections/Archives
- Education
- Exhibition Galleries
- Administration
- Existing Space/Dept.



Size and Design: Phase 1

Proposed First Floor Plan (Existing Building)

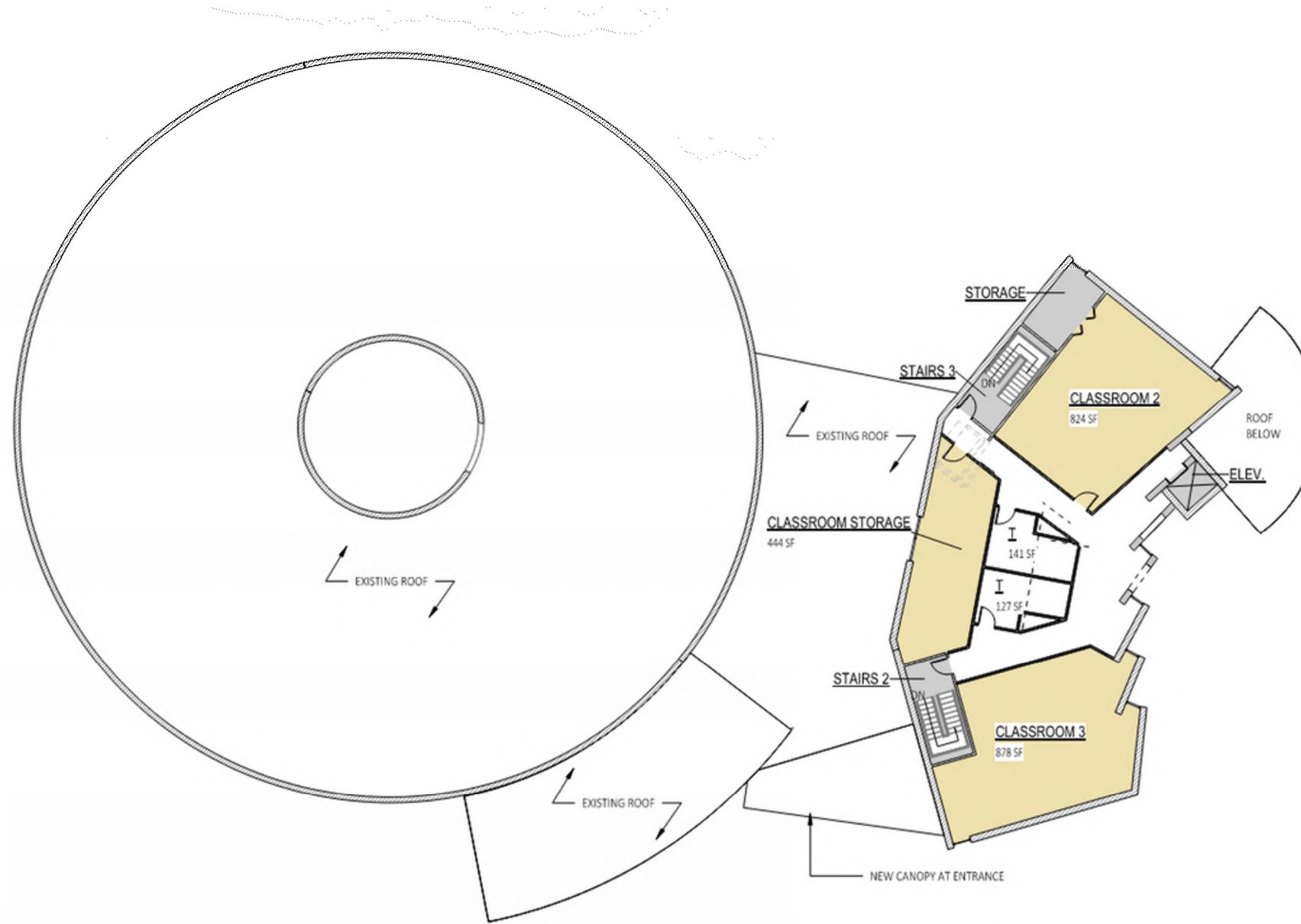
- Collections/Archives
- Education
- Exhibition Galleries
- Administration
- Existing Space/Dept.



Size and Design: Phase 1

Proposed Second Floor Plan (Existing Building)

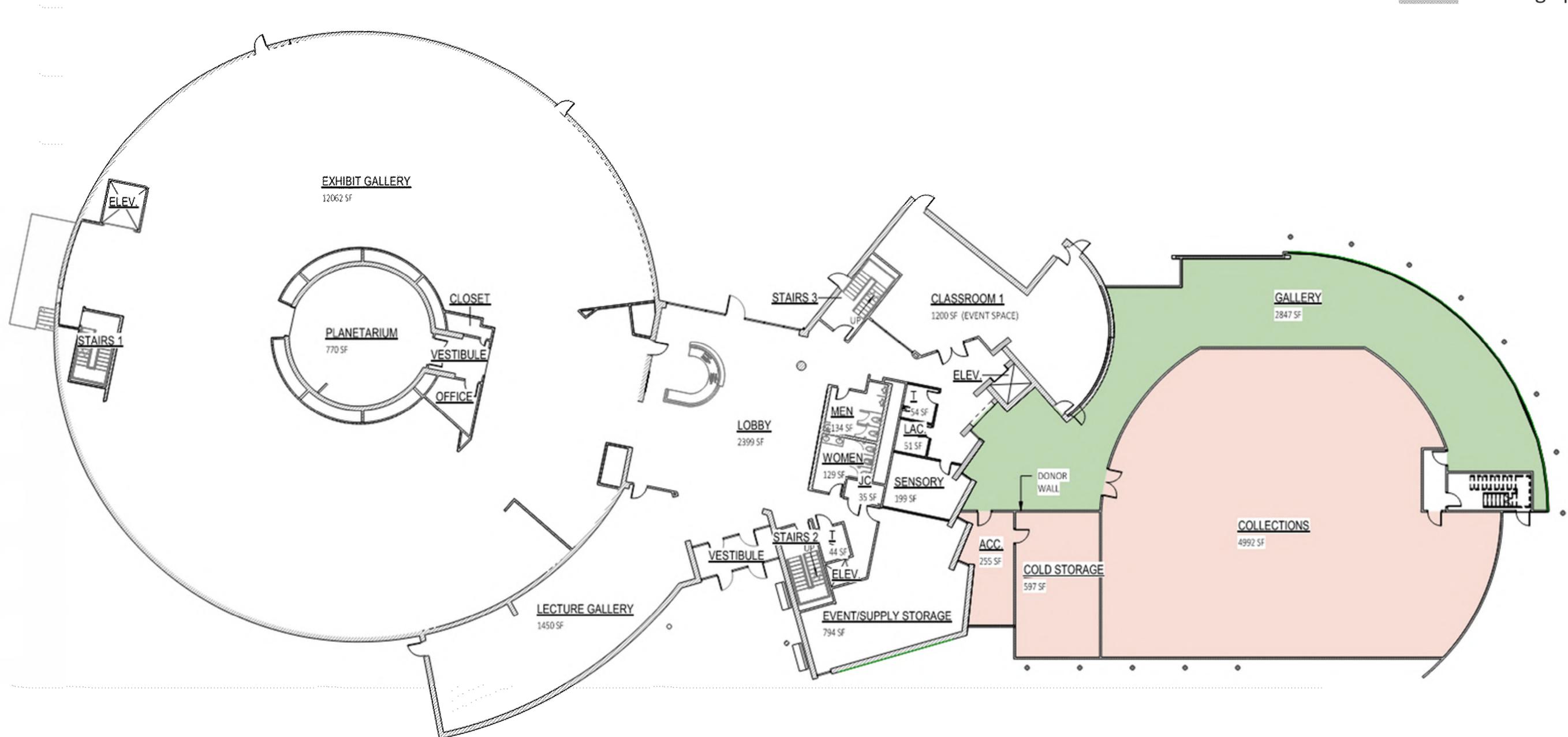
- Collections/Archives
- Education
- Exhibition Galleries
- Administration
- Existing Space/Dept.



Size and Design: Phase 2

Proposed First Floor Plan (Addition)

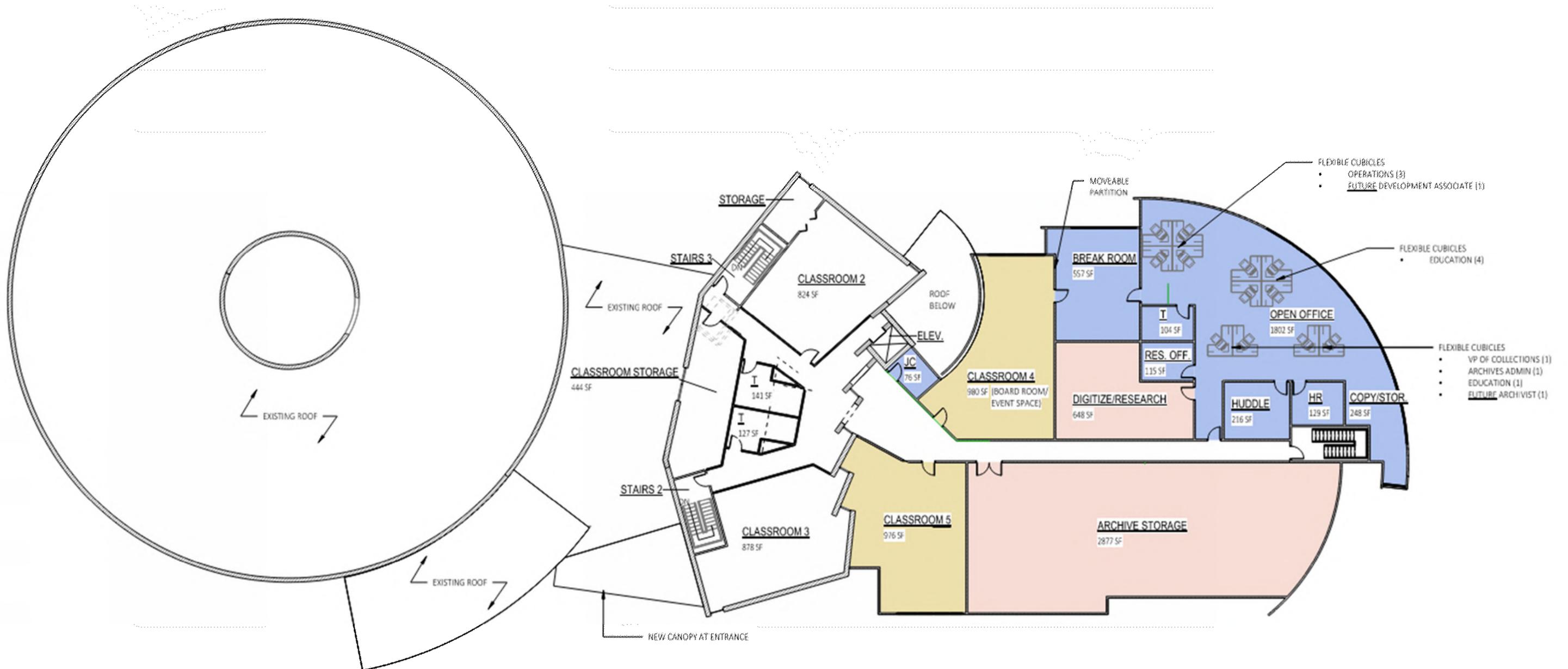
- Collections/Archives
- Education
- Exhibition Galleries
- Administration
- Existing Space/Dept.



Size and Design: Phase 2

Second Floor Plan (Addition)

- Collections/Archives
- Education
- Exhibition Galleries
- Administration
- Existing Space/Dept.



An aerial, grayscale photograph of a residential development. The image shows a central green space with a circular paved area and a building. The surrounding area is filled with houses and streets. The text "Phasing Recommendations" is overlaid in the center.

Phasing Recommendations

Building Design



Building Design



Phasing

Phase 1:

Existing Building Renovations

- Demolition Work
- Replace Roof
- Update Interior Finishes
- New bathroom layout and fixtures
- New Entry Canopy
- MEP Scope of work upgrades

Site Renovations

- Remove circle at parking lot and fill, seal and paint parking spots. Existing parking to be resealed
- Tractor trailer turn around
- Re-grade land at existing patio

Phase 2:

New Construction Addition

- Building addition (new walls, ceilings, doors, storefront, windows, roof, exterior siding, interior finishes)
- MEP scope of work

Site Renovations

- Replace entire parking lot asphalt and paint parking spots
- Remove patio pavers and replace with new concrete patio with sidewalks that connect to the front of the building

An aerial, grayscale photograph of a residential neighborhood. The image shows a grid of streets with houses on either side. In the center, there is a large, open park area with a circular structure, possibly a fountain or a playground. The text "Cost Estimate" is overlaid in the center of the image.

Cost Estimate

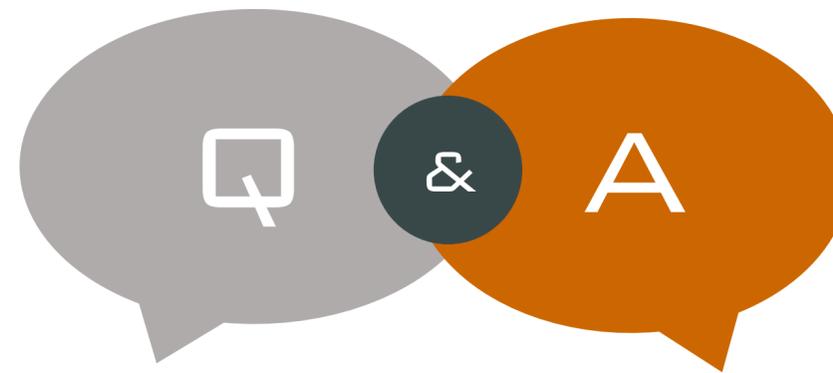


miSci Conceptual Phase II Addition

12/14/2025

SUMMARY SHEET

DIV.		LABOR		MAT'L		SUB	TOTAL	\$ / SF		
1000	Building Addition	0		0		5,000,000	5,000,000	265.10		
2050	Sitework modifications to Existing Patio	0		0		275,000	275,000	14.58		
7000	Façade modifications to Existing Building	0		0		200,000	200,000	10.60		
3000		0		0		0	0	0.00		
COMMENTS:		TOTAL		0	0	5,475,000	5,475,000	290.28		
The conceptual estimates were based upon the following documents; C101 - dated 11/22/2024 by Engineering Ventures D100, D101 & D102 dated 01/07/2025 by C2 Architecture miSci Program Requirements date 12/20/2024 C2 Architecture Renderings dated 12/20/2024 A100, A101, A102, & A200 dated 12/20/2024 by C2 Architecture HVAC Option Study dated 06/22/2021 by ME Engineering.							0	0.00		
		SUB TOTAL						5,475,000	290.28	
		DESIGN FEES							345,900	18.34
		CONTINGENCY						0.100	547,500	29.03
		TOTAL PRICE							6,368,400	337.65
TOTAL BUILDING AREA				18,861	SF					



THANKS FOR LISTENING
QUESTIONS?