



AI Lease Abstraction for State & Local Government

NASFA Mid Year Virtual Meeting

eCIF-M[®] Solutions Inc.

Introductions



Ivaylo (Ivo) Lazarov
Associate Director, Systems Administration,
Bureau of Asset Management, Cook County

16+ years leading change and technology innovation across the public and private sectors. In eight years with Cook County, he has delivered strategic technology initiatives with broad cross-functional impact and now leads the County's IBM TRIRIGA implementation.



Aman Singh
Director of Product, eCIFM Solutions, Inc

8+ years experience building B2B and B2C software. He focuses on building new products in the PropTech and IWMS spaces

Previously, he ran the New Products team and the Growth Product team at Glassdoor. Before that, he built B2B marketing attribution software. He started his career in management consulting at Deloitte.

Cook County and the Bureau of Asset Management



5.1M

residents served

#2

most populous U.S. county

134

municipalities

59%

of Illinois' population



Bureau of Asset Management

Delivers clean, safe, secure, sustainable, and accessible public facilities through routine maintenance, capital construction, and the efficient use of real estate — providing essential public spaces equitably, collaboratively, and sustainably.



Capital Planning & Policy



Facilities Management



Real Estate Management

eCIFM Solutions Inc. Overview



Facilities & Asset Management Expertise

- 26 years focused on Asset Management, Integrated Workplace Management Solutions (IWMS), Connected Portfolio Intelligence Platforms (CPIP)
- Thousands of successful projects
- Developed numerous custom Value Add solutions
- 26 years of IP Development (Mobile Applications, AI Products, AI Solutions)

Partnerships

- Gold Level IBM Business Partner
- Platinum Eptura Partner
- Platinum JCI/FM Systems Partner
- ServiceNow Partner
- Haltian Smart Building/IoT Sensors Partner
- MRI Partner

Certifications & Awards

- Women's Business Enterprise National Council (WBENC)
- Verdantix Green Quadrant Specialist (2023) & Challenger (2021)
- IBM (C&SI) Business Partner Awards
- TRIRIGA World Awards – 2023, 2024, 2025
- NCTRCA Certified

Corporate Facts

Established in 2000

Global presence – Over 90 Employees worldwide

Executive Leadership Members each bring 30+ years of experience

Customers in every major industry

The Challenge

Lease abstraction at scale

Cook County needed
structured lease data for its
IWMS implementation.





Leases came in different formats and from multiple sources

42

real estate leases

209

license agreements

The goal: load reliable data into Cook County's IWMS system of record.

The Opportunity

Extract. Abstract. Reference.

eCIFM and Cook County leveraged AI:

to abstract leases from different sources & formats

to standardize them in the County's lease management system.





Lease-focused extraction, built for review

01 Upload leases and amendments

02 GPT-4o prompts grouped by lease feature

03 Legal-team tuning and human review

04 Export approved data to the system of record

REVIEWER [5246 W Chicago Ave - ORIG] - Review Complete

RELOAD

General Information - 100%

General

Name
5246 West Chicago Avenue, Chicago, Illinois

Details

Accounting Type
Accounts Payable (AP)

Payment Timing
Payment in Arrears

Rentable Area
1000

Critical Dates

Commencement Date
2020-01-01

Base Lease Expiration Date
2024-12-31

Primary Address

Address
5246 West Chicago Avenue

PROJECT GENERAL CLAUSES (9) OPTIONS (3) PAYMENTS (1)



250+

real estate leases and license
agreements abstracted

480

Estimated hours of manual review saved

Lease abstractions were added to Cook County's System of Record (e.g., TRIRIGA) for accurate Lease Accounting from Day One

Sample Lease Abstraction



REVIEWER ▾

[5246 W Chicago Ave - ORIG] - Review Complete

RELOAD

General Information - 100%

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5246 West Chicago Avenue

PROJECT

GENERAL

CLAUSES (9)

OPTIONS (3)

PAYMENTS (1)

10/2/2026

Confidential

10



Critical Dates

Explanation of extraction for [Commencement Date]

Explanation

The Lease Commencement Date is explicitly stated as January 1, 2020, in the lease terms under Section 2.1 Term and Termination [4:0+source] .

CLOSE

Commencement Date

2020-01-01

Base Lease Expiration Date

2024-12-31

PROJECT

GENERAL

CLAUSES (9)

OPTIONS (3)

PAYMENTS (1)

Including Rationale is important to building Trust in any AI system / process

10/2/2026

Confidential

11

Critical Dates

Explanation of extraction for [Commencement Date]

Explanation

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CLOSE

Commencement Date

2020-01-01

Base Lease Expiration Date

2024-12-31

PROJECT

GENERAL

CLAUSES (9)

OPTIONS (3)

PAYMENTS (1)

FIELD

Commencement Date

EXTRACTED VALUE

2020-01-01

CITED SOURCE

Section 2.1: Term and Termination

APPROVAL GATE

Only reviewed data moves into the system of record.

10/2/2026

Confidential

12



Abstraction Tool

Real Estate
Leases

Asset Leases

License
Agreements

General Information

General

Name

Units

Currency
US Dollars

Area Units
square foot

Details

Lease Type
Expense Lease

Lease Category
Class A

Primary Use
Office

Contract Status
Active

Is Cost or Fair Market Value Determinable?
Yes

Accounting Type
Accrual

Payment Timing

CONFIG GENERAL CLAUSES OPTIONS

Lease
Management
System of Record

Human-in-the-Loop Approach

- Real Estate Leases
- Asset Leases
- License Agreements



General Information

General

Name

Units

Currency

Area Units

Details

Lease Type

Lease Category

Primary Use

Contract Status

Is Cost or Fair Market Value Determinable?

Accounting Type

Payment Timing

US Dollars

square foot

Expense Lease

Class A

Office

Active

Yes

Accrual

CONFIG

GENERAL

CLAUSES

OPTIONS



Lease Management System of Record

Human Checkpoint



Human Testing & Review



Human Approval

01 Inventory takes longer than extraction

42 leases and 209 license agreements arrived from scattered sources and formats. Inventory took longer than the AI extraction itself.

02 Every deployment needs custom tuning

Prompt groupings were mapped to lease features and reviewed by legal experts. Even so, each deployment still needed its own round of custom tuning.

03 Approval gates earn trust, not the model

Human checkpoints, testing, and review preceded every transfer to the system of record. Stakeholders trusted the result because of that gate, not the model alone.

04 Extraction is only half the job

Approved abstracts needed to feed lease accounting in the system of record and power an AI assistant for ad hoc questions. Designing that output schema for both uses from day one avoided rework later.

Questions & Discussion

Ivaylo (Ivo) Lazarov — Cook County, Bureau of Asset Management -
ivaylo.lazarov@cookcountyil.gov

Aman Singh — eCIFM Solutions — aman.singh@ecifm.com

TENNESSEE PUBLIC HEALTH LAB

Science, Systems, and Salamanders

Agenda

Overview

Lab Services

State Procedures

Design

Construction

Discussion

In a post-covid world, learn how Tennessee leveraged ARPA funding to design and build a new public health lab to serve and protect the citizens of the volunteer state.



RS Gass State Lab Replacement Facility

Presenters



ESa

Wendell Brown
Principal
Architect of Record



TN

Kim Terry
Director of Facilities
Tennessee Department
of Health



TN

Tim Shelton
Project Manager
STREAM
(State of Tennessee Real
Estate Asset Management)



HR

David Alder
Principal
Lab Planner and Designer

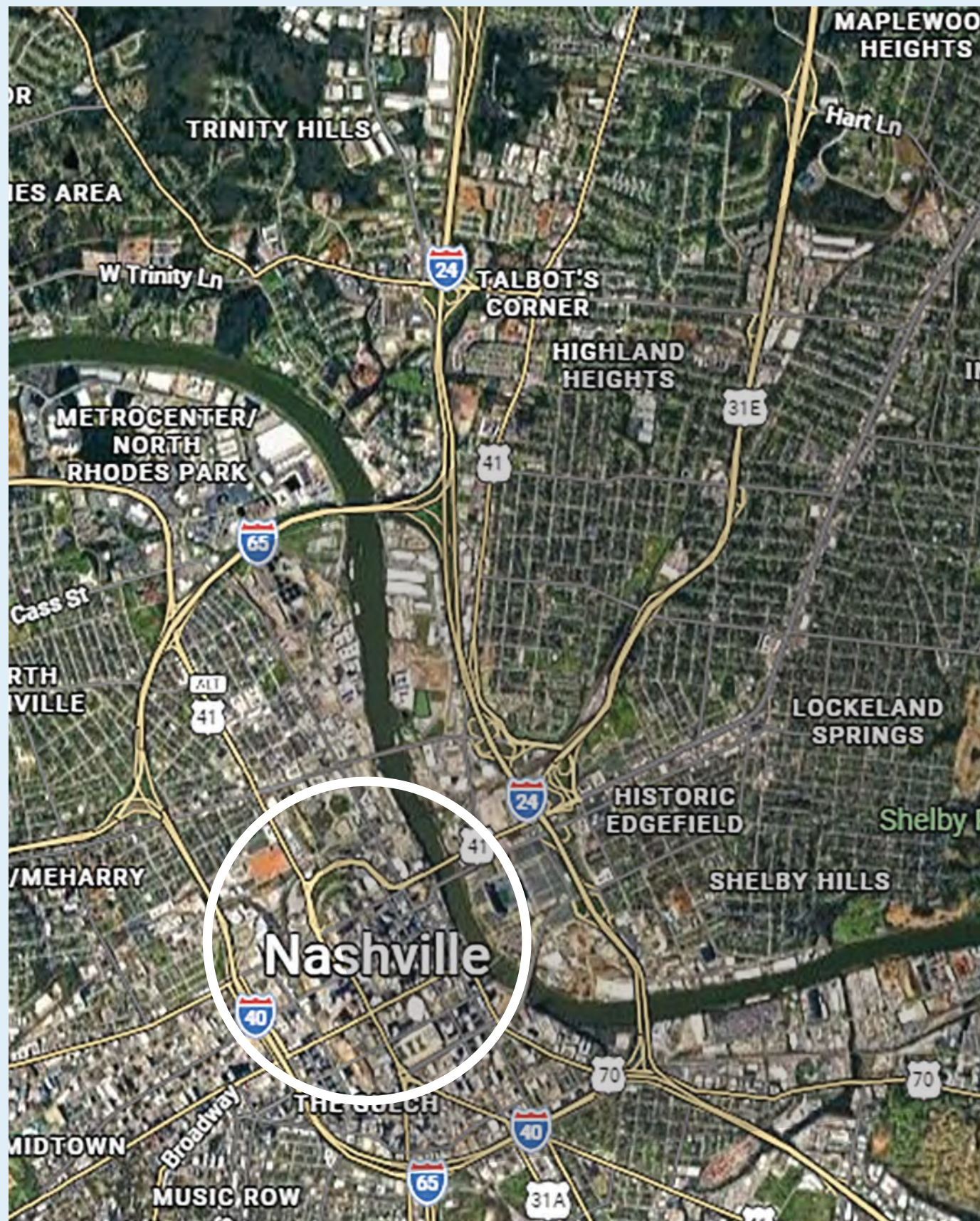


Turner

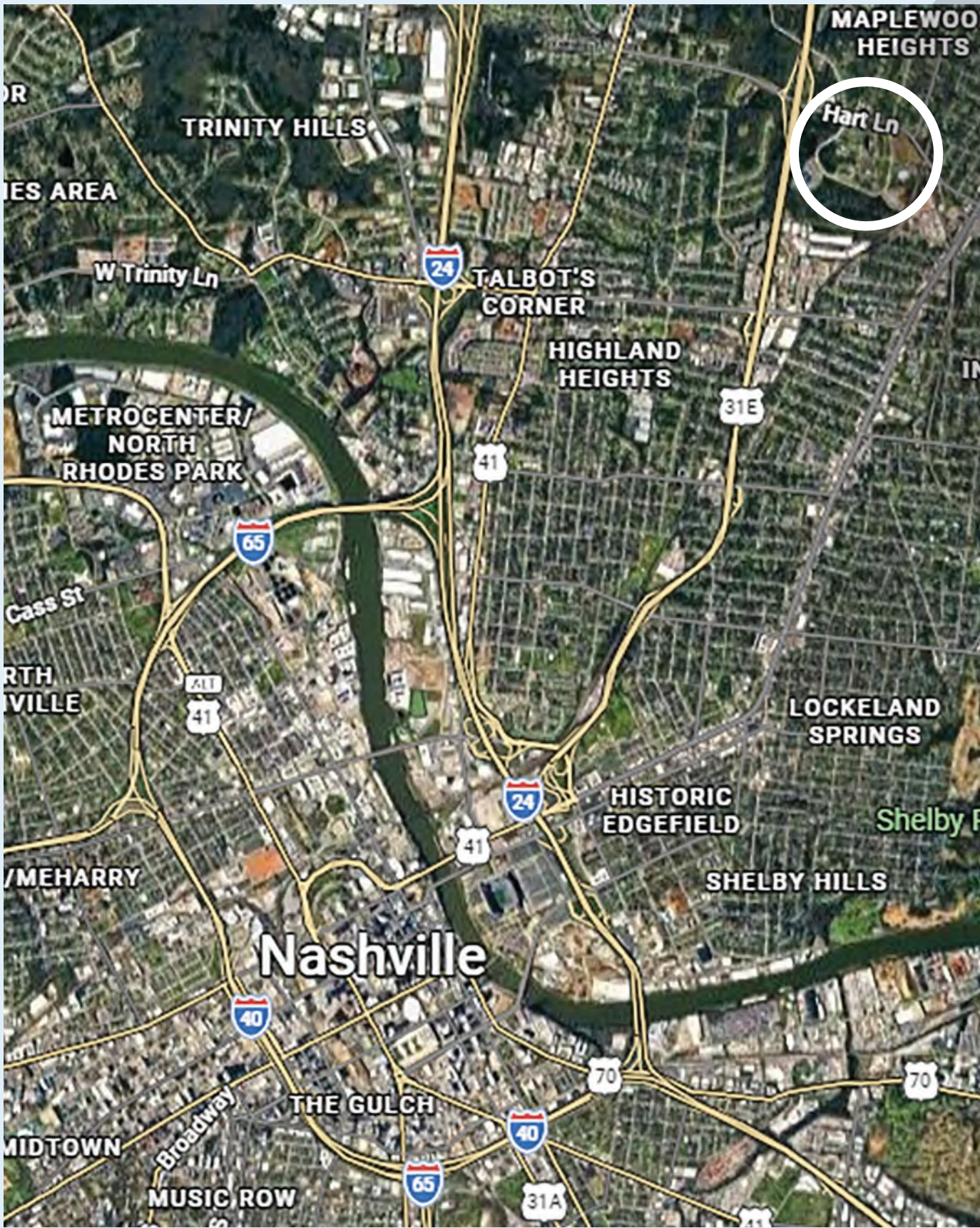
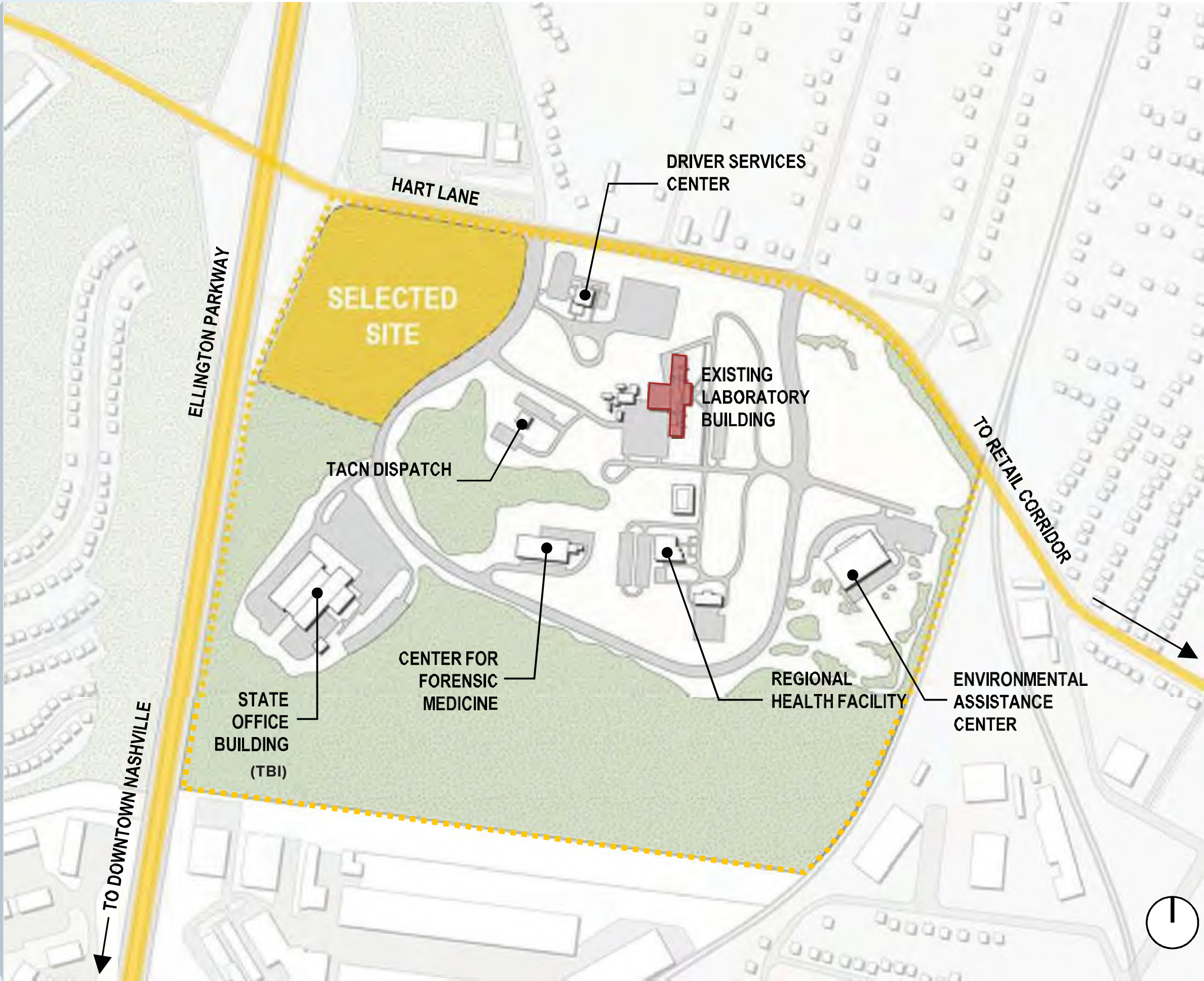
Lance Larkin
Project Manager
Contractor

The key to our success is our **teamwork** and **collaboration** among all agencies and companies.

Surrounding Area



Existing Campus Plan



Overview

- 181,639 GSF; 5 floors
- Construction \$176,832,783
- \$973 sf
- ARPA funding: \$200 million
- Design start: February 2023
- GMP: April 2024
- State Approval: January 2024
- Mobilization August 2024
- Substantial Completion: November 2026



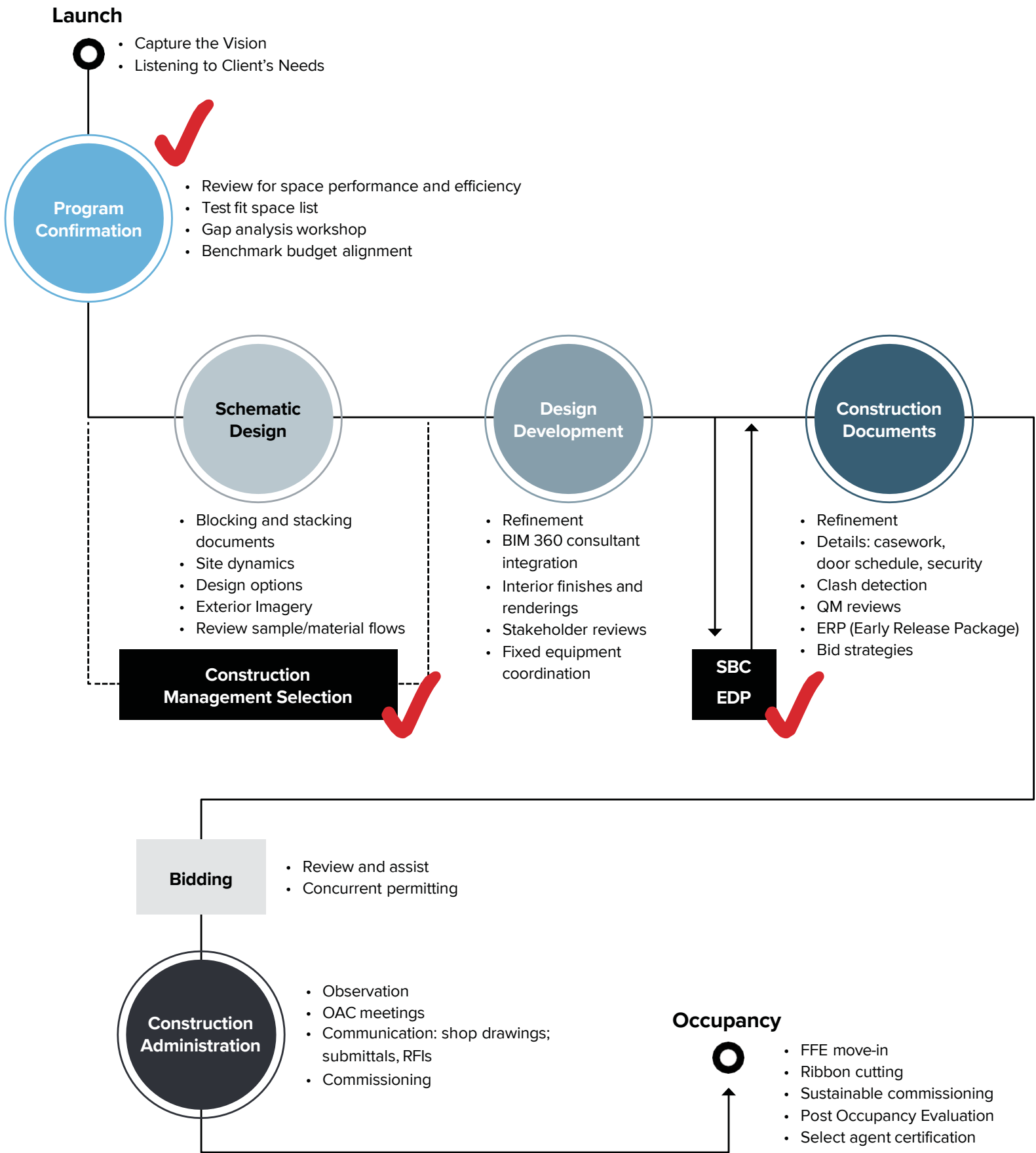
RS Gass State Lab Replacement Facility

Teamwork

- Partnership working with a unified goal



Design Process



LAB SERVICES

Statement of Need



Tennessee State Laboratory

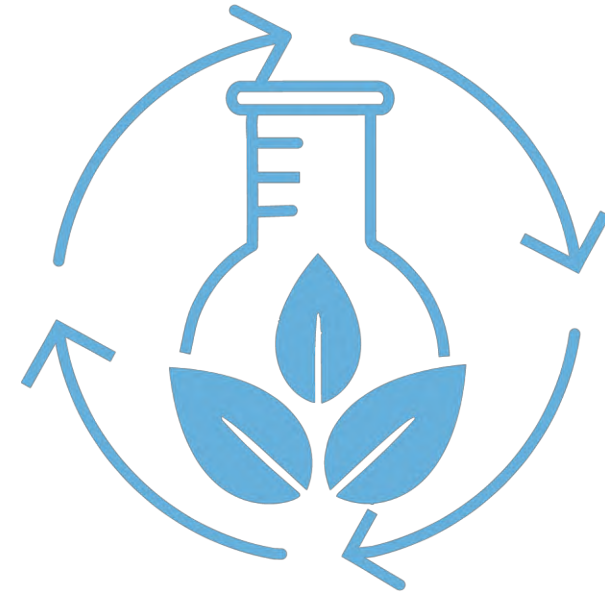
The Laboratory is currently located in the original Tuberculosis hospital built in 1950. This building was converted into a 120,000sf State Lab in the 1980's with currently a staff of approximately 150 employees. The lab provides many essential testing services for the citizens of Tennessee. These tests include but are not limited to tests such as Medical Biology, Molecular Biology, Environmental Microbiology, Aquatic testing, and Newborn Screening. In addition, the Lab houses the State Emergency Preparedness Laboratory for front lining testing of biological agents as well as an insectary where mosquito and tick vector-borne diseases studies are performed.

The new Lab development and design project was a 4-5-year process with several onsite and web meetings with Lab leadership, Lab technicians, design and engineering staff.

This design process included a trip to the Alabama State Laboratory. Even though the Alabama Lab is considerably smaller than the Tennessee Lab. This trip was very instrumental in the design process, reinforcing the benefit of open concept Lab, educational, and meeting spaces.

The new State of Tennessee Laboratory is a state-of-the-art, 5 story, 181,000 sf facility that will employ 180+ lab staff. With the design emphasis on lab workflow, this new building will provide the citizens of Tennessee with a more efficient testing process, better turnaround time, enhanced surge capacity, and cost-effective operation.

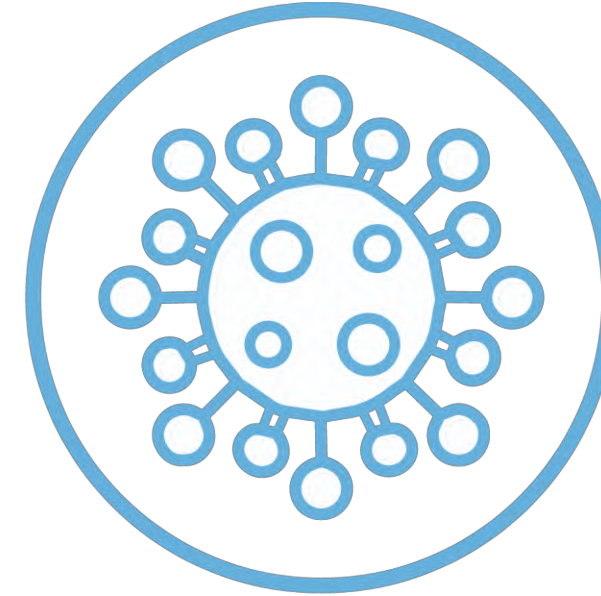
Testing Services



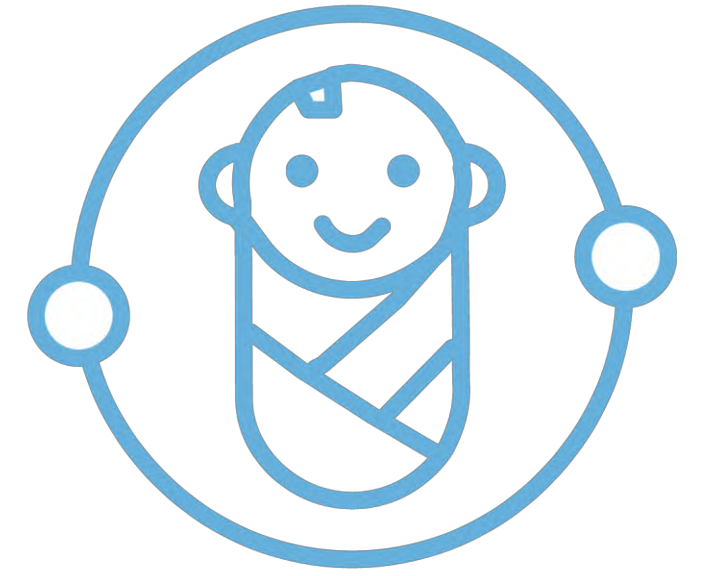
Medical & Environmental
Testing



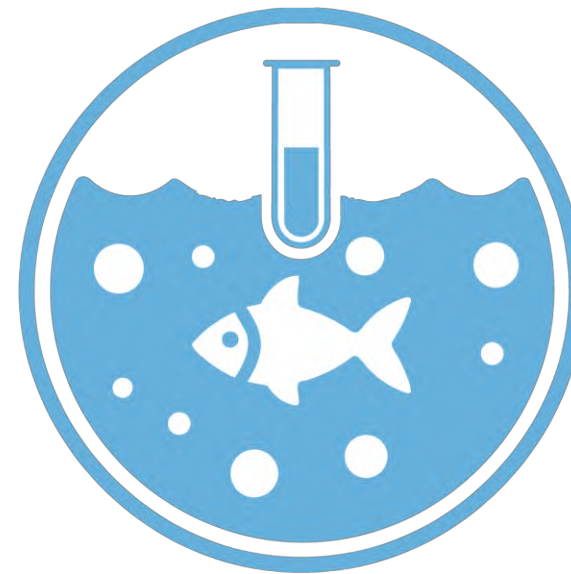
Molecular Biology



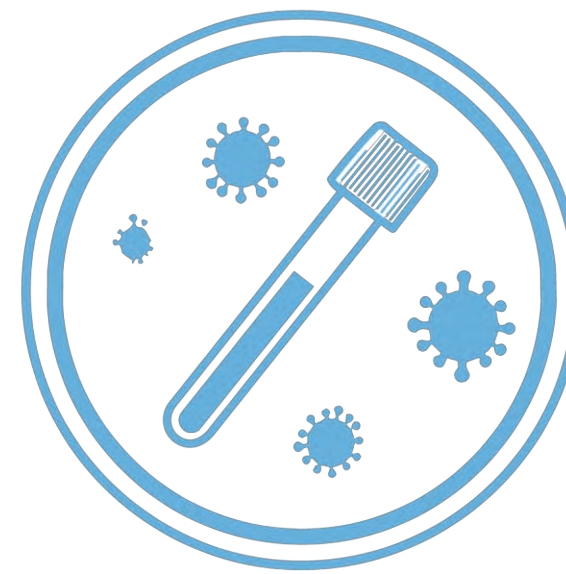
Virology



Newborn Screening



Aquatic Testing



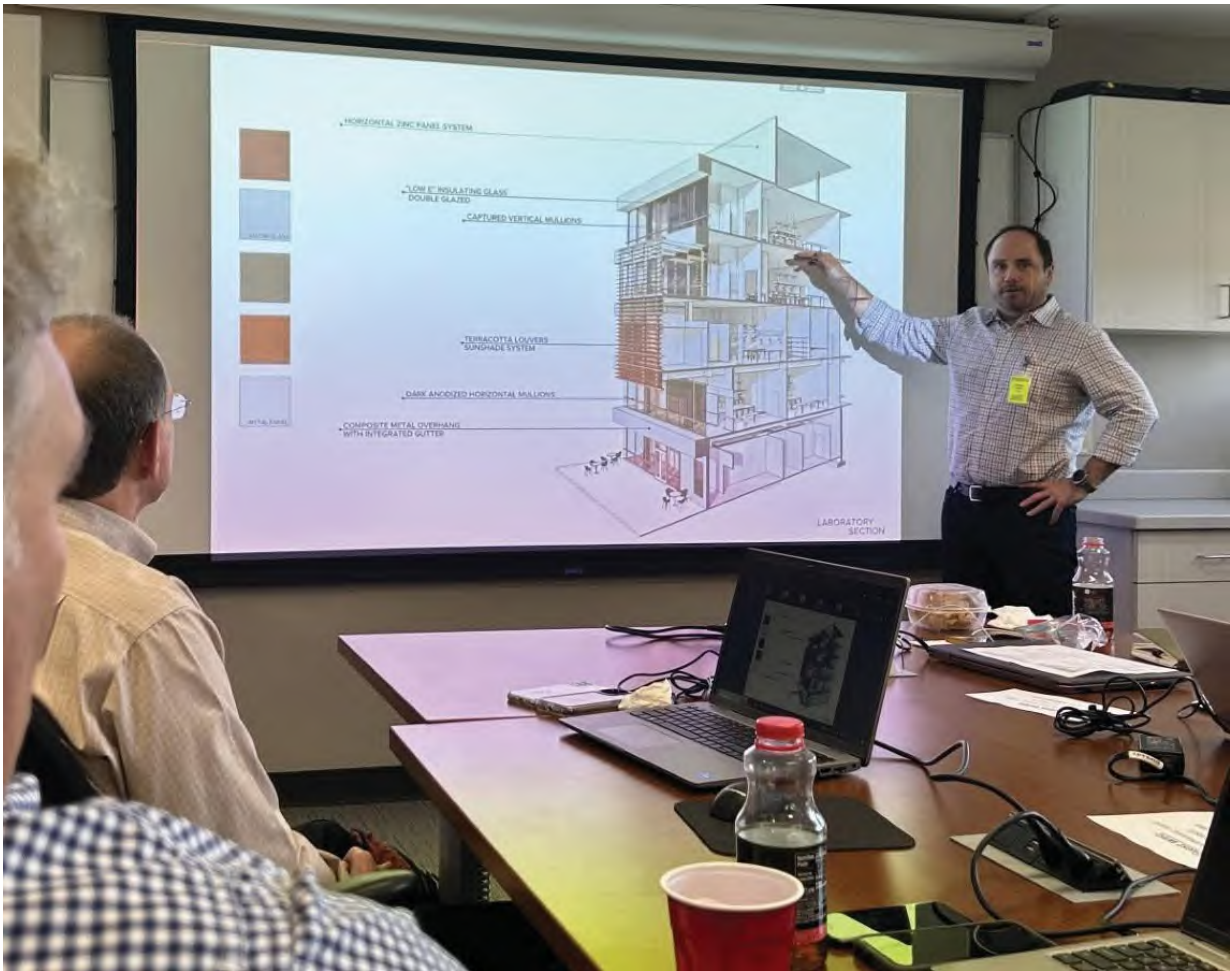
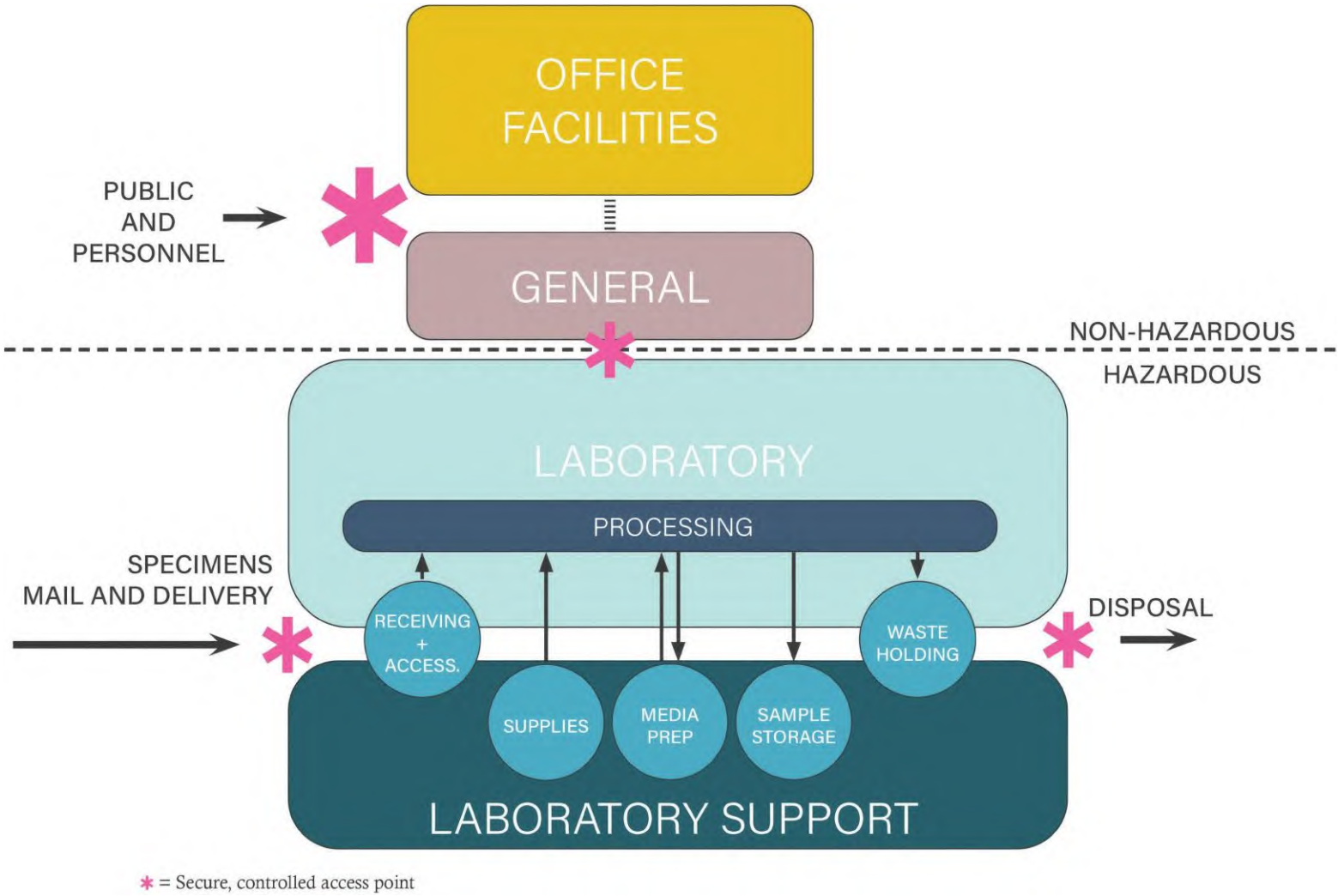
Biological Agents



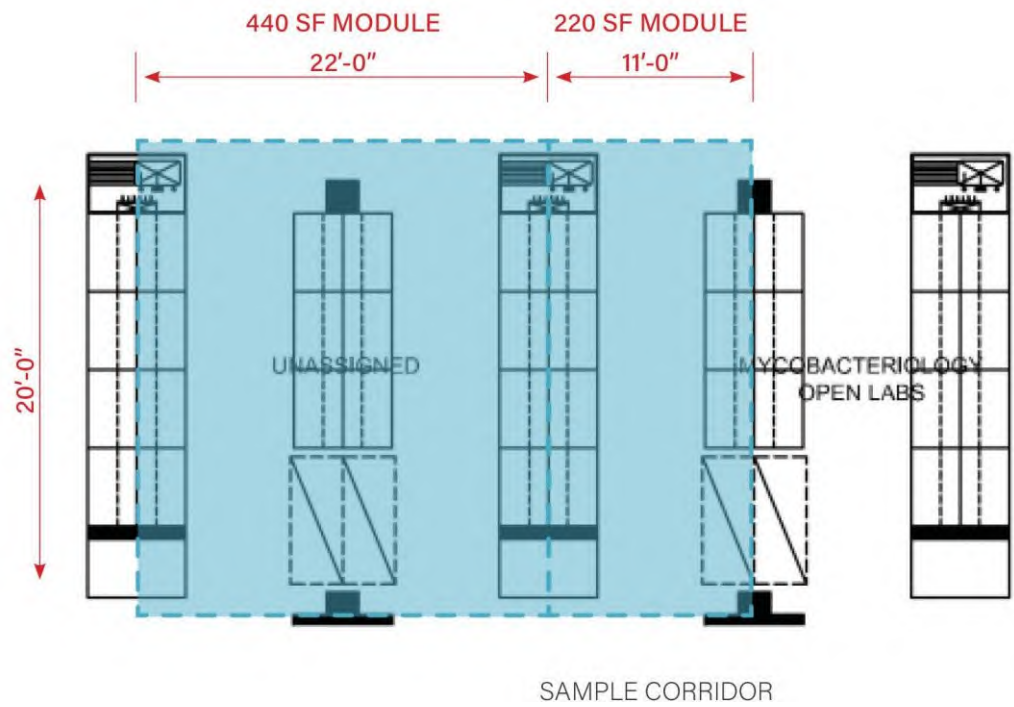
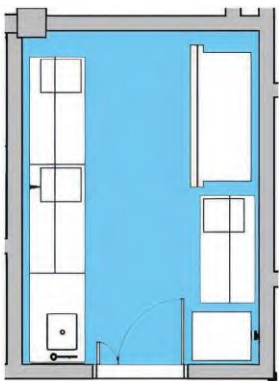
Chemical Terrorism

Programming

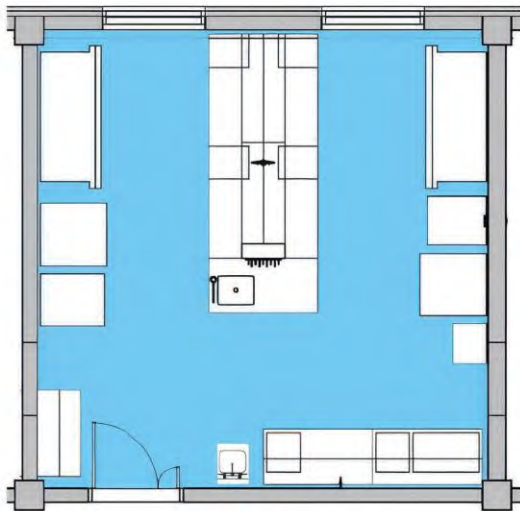
- Statement of Process
- Conclusions
- Recommendations



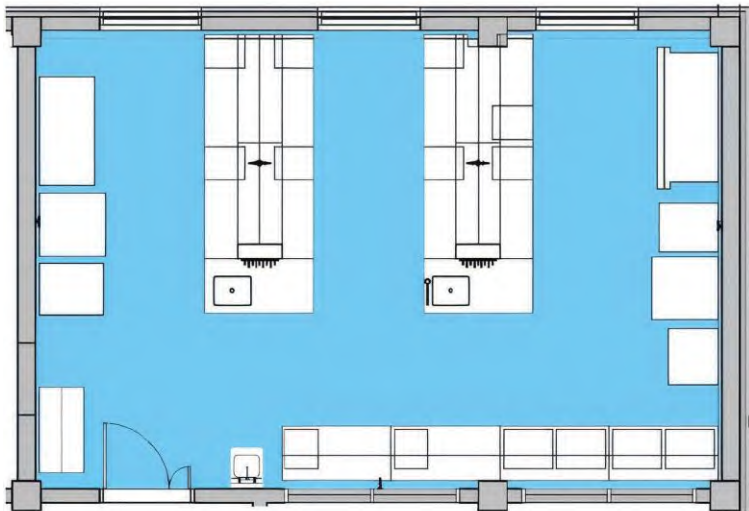
Typical Laboratory Module - Open Lab



Single Bay Laboratory



Two Bay Laboratory



Three Bay Laboratory

Benchmarking Trip

- Alabama Public Health Lab
- Program Verification Phase



STATE PROCEDURES

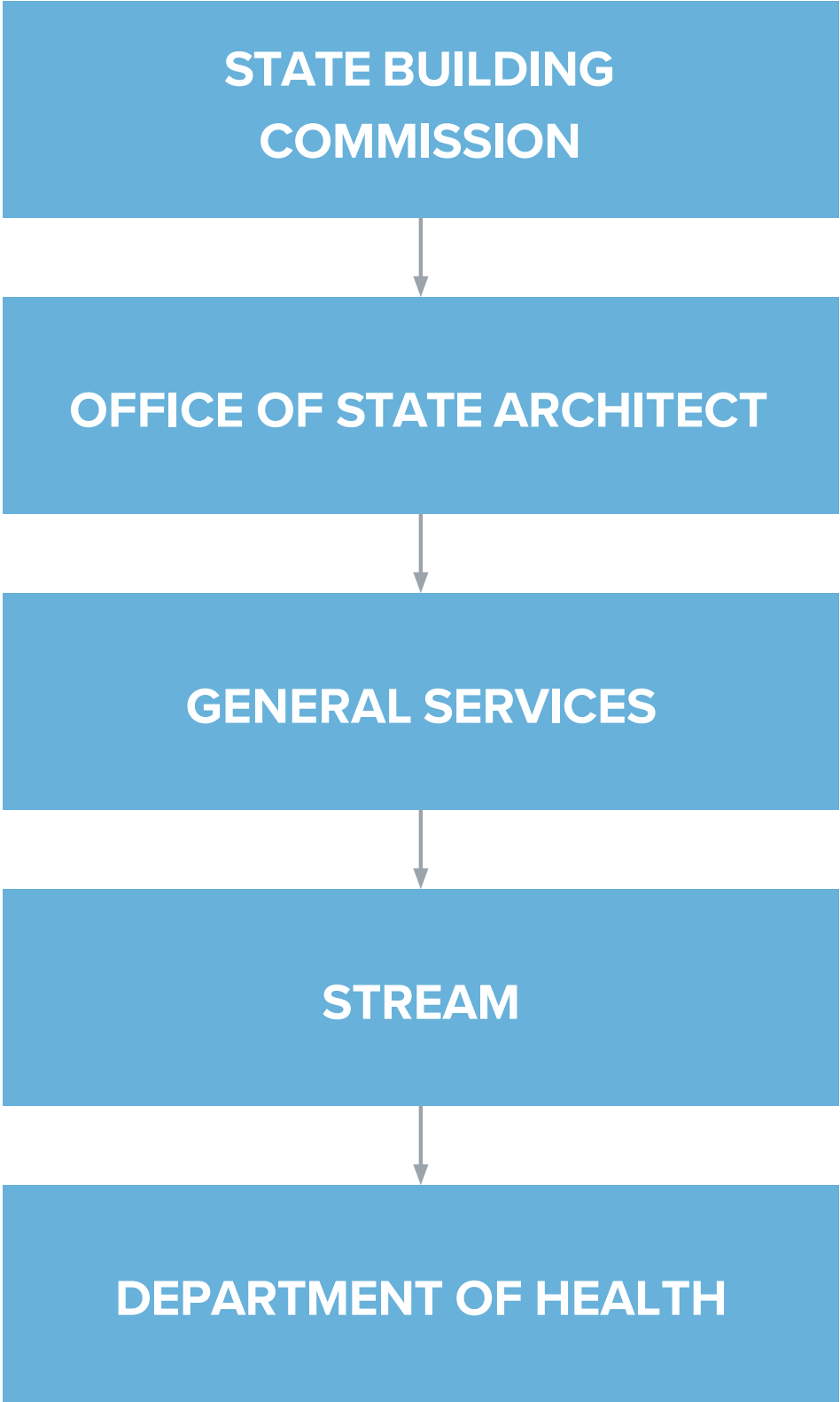
State Procedures



Governor
Bill Lee



We appreciate Governor Lee taking the time to visit the site and recognize the impact this future facility will have statewide.



ARPA Funding

Project Request		SBC-1
5 Budget		
Total Project	Allocation	
\$176,832,783.00	\$176,832,783.00	Construction Cost
\$176,832,783.00	\$176,832,783.00	BID TARGET
\$1,667,217.00	\$1,667,217.00	Construction Contingency
\$178,500,000.00	\$178,500,000.00	MACC
\$7,520.00	\$7,520.00	Environmental Consulting
\$8,835,546.00	\$8,835,546.00	Design Services
\$465,372.00	\$465,372.00	Design Contingency
\$13,000.00	\$13,000.00	Consultant Services
\$1,109,260.00	\$1,109,260.00	Commissioning Services
\$200,000.00	\$200,000.00	Preconstruction Services
\$1,000,000.00	\$1,000,000.00	Owner Provided Equipment
\$2,874,950.00	\$2,874,950.00	Owner Provided Furniture & Fixtures
\$2,900,000.00	\$2,900,000.00	Move Management
\$1,200,000.00	\$1,200,000.00	IT/Phone/Network (STS)
\$350,000.00	\$691,817.10	Security
\$2,544,352.00	\$2,202,534.90	Administration and Miscellaneous
\$200,000,000.00	\$200,000,000.00	TOTAL
6 Funding		
	\$0.00	State Funds
	\$200,000,000.00	Federal Funds
	\$0.00	Other Funds
	\$200,000,000.00	TOTAL
7 Source of Available Funding		
	\$200,000,000.00	Federal Funds (ARP) (F)
	\$200,000,000.00	

State Consultants



Building Management



Network Cabling

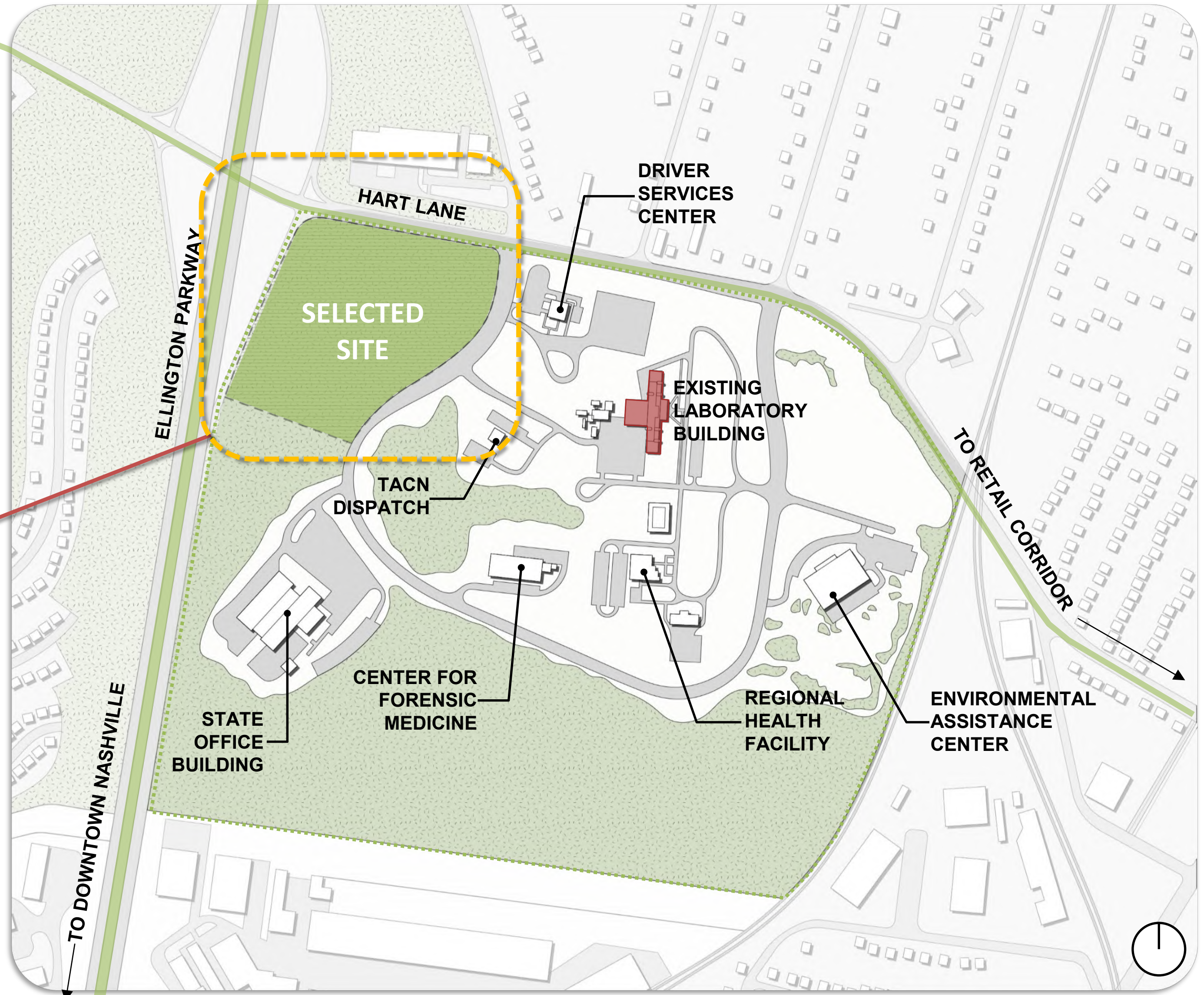


Commissioning



Lab Transition Consultant

DESIGN



...and then came the Salamander — a native, endangered, protected species living, breeding, and flourishing on our site.







- Pathways
- Direction
- Long Road Ahead



- Strategy
- Long Term Plan
- Playing the long game



- New Technology
- Cutting Edge
- Sustainability



- Working Together
- Worker Bees



- Strength
- Putting Up Roots
- Support

Engaging Stakeholders

A group of men are seated around a large wooden conference table in a meeting room. They are looking at a large digital screen on the left wall, which displays a collaborative workspace with various images, documents, and a central diagram. The room has large windows on the right wall, and there are whiteboards and a podium in the background. The men are engaged in a discussion, with some looking at the screen and others looking at each other. The overall atmosphere is collaborative and professional.

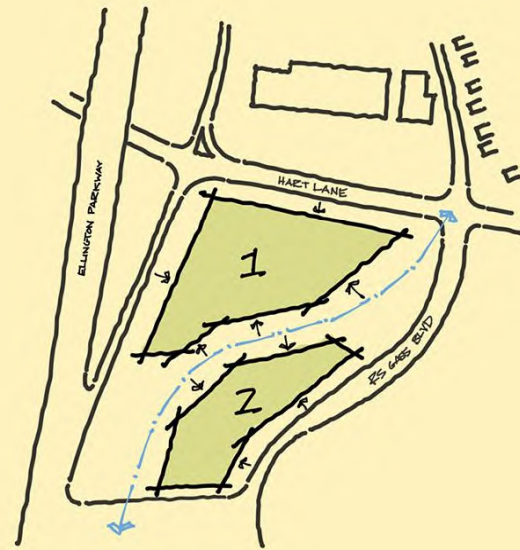
Collaborative – Charettes – Consensus

The Inspiration = Transformational Objectives



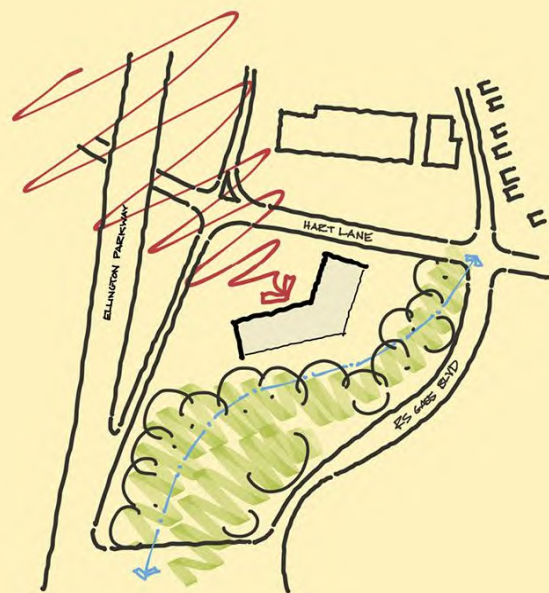


Topography

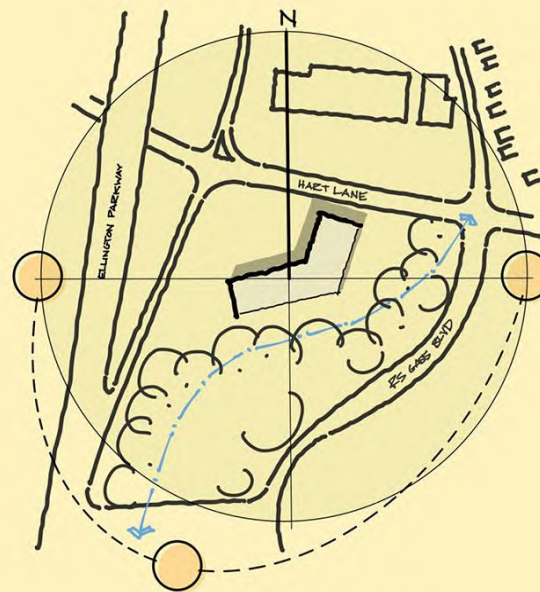


Buildable Area

Though beautiful, the site presented challenging parameters including 50 feet of elevation change, roadway setbacks, and a protected stream with associated setbacks. The site quickly reduced from over 6 buildable acres to 4.5 buildable acres and challenged the team to split the site planning in half while bridging the stream.



Site Orientation



Solar Orientation

Nestled in a heavily forested corner of the state's campus, the building takes advantage of its natural surroundings and focuses views away from the highway and towards the dense vegetation. An east/west building orientation optimizes solar performance by utilizing the facade's horizontal banding as shading devices.



Driving rigorous stream protection requirements is a friendly little Streamside Salamander that has called our site home for hundreds of years before we showed up. This protected species was discovered during the early stages of project planning and kick-started an environmentally conscious effort to protect this native species.



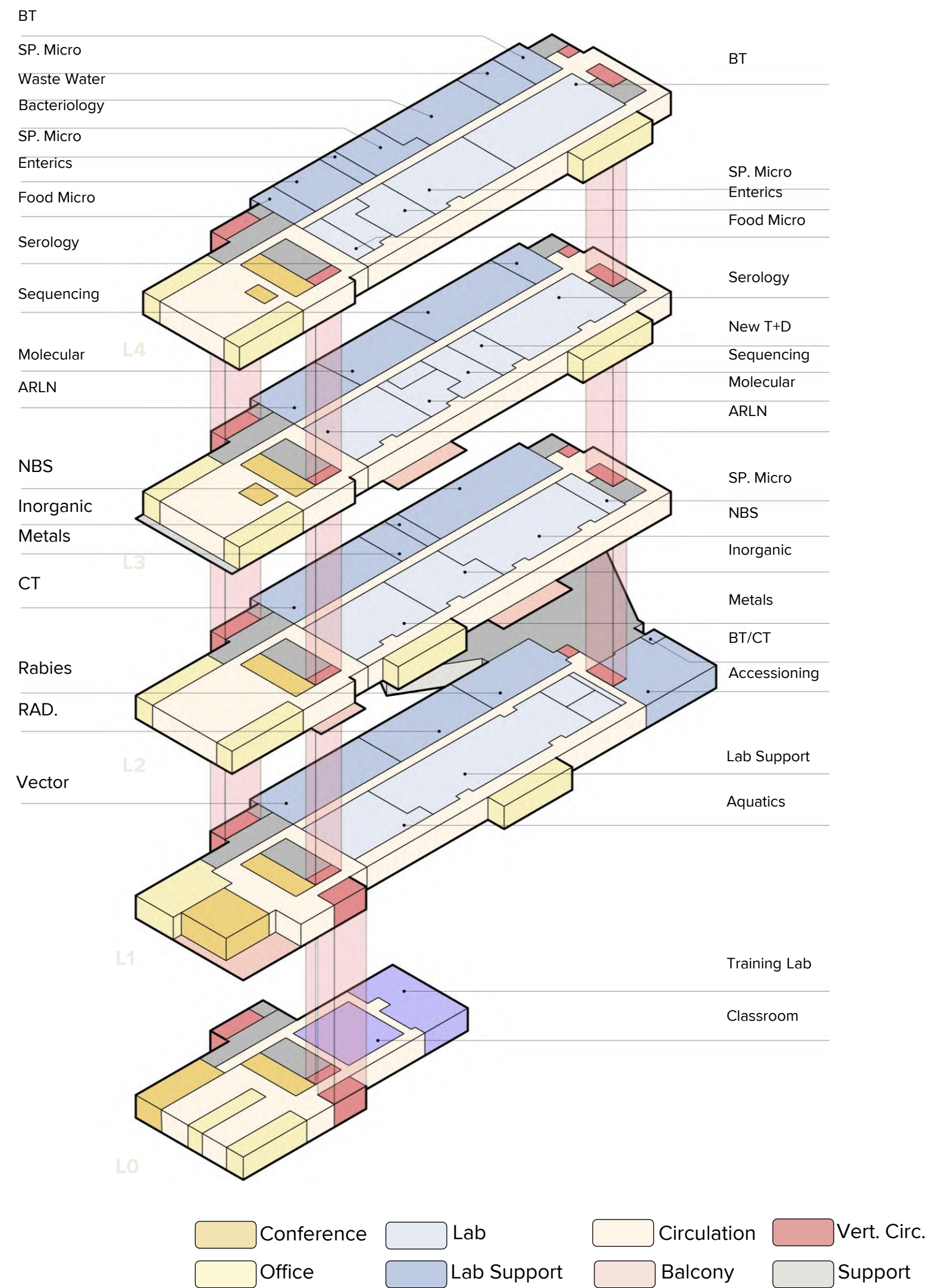
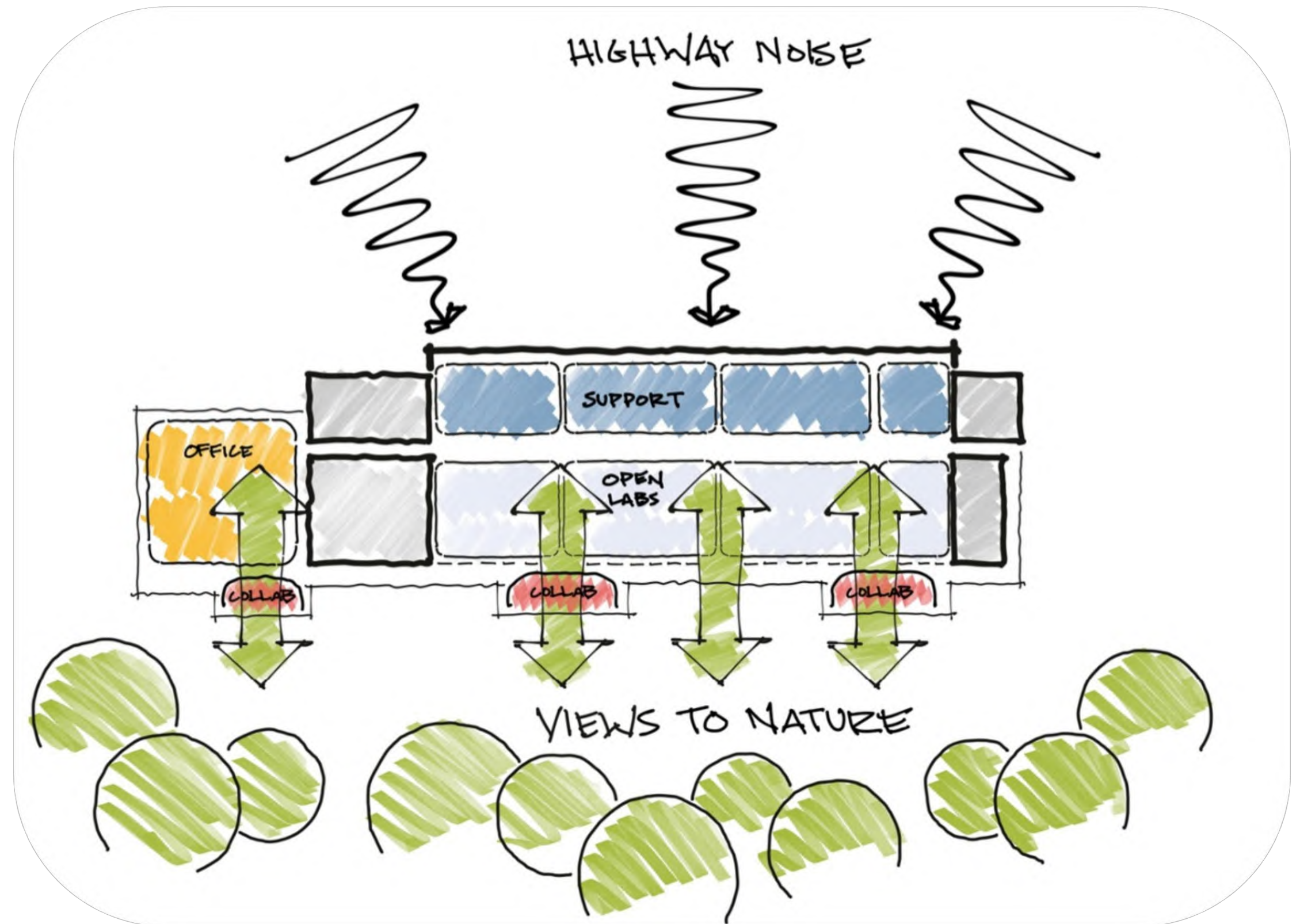


RS Gass State Lab Replacement Facility



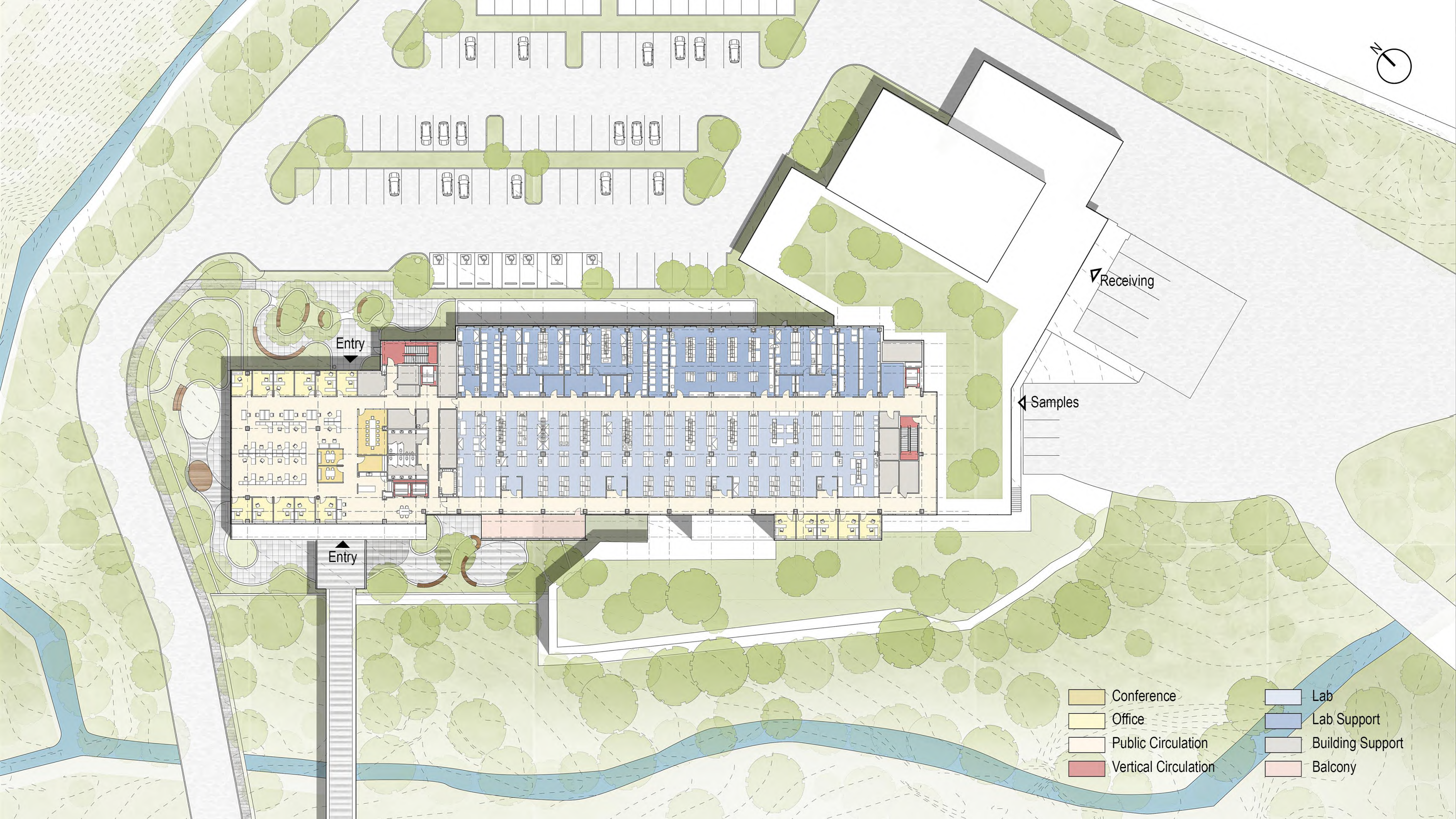
RS Gass State Lab Replacement Facility







RS Gass State Lab Replacement Facility

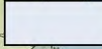
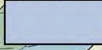
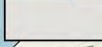
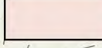


Entry

Receiving

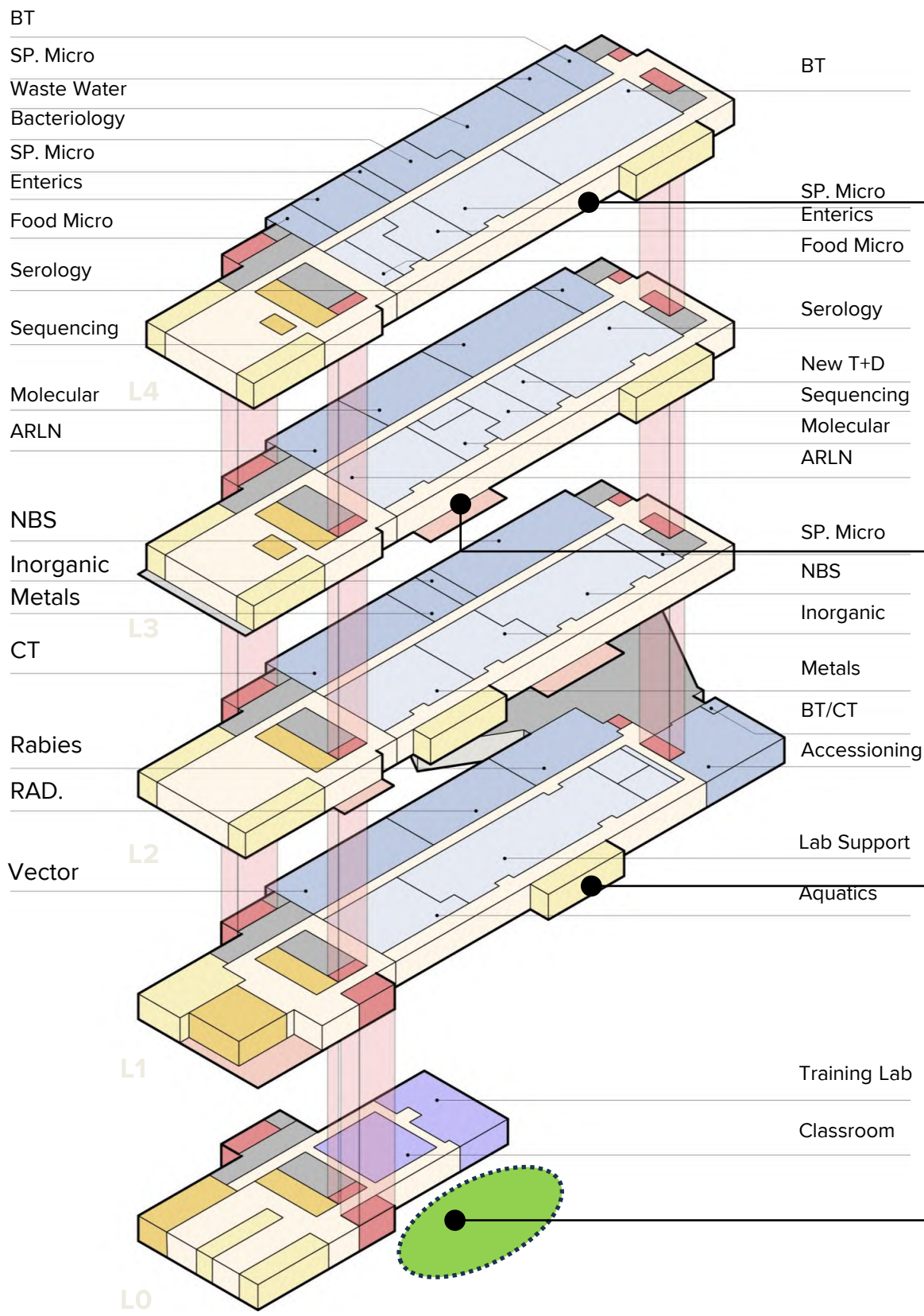
Samples

Entry

- | | | | |
|---|----------------------|---|------------------|
|  | Conference |  | Lab |
|  | Office |  | Lab Support |
|  | Public Circulation |  | Building Support |
|  | Vertical Circulation |  | Balcony |



RS Gass State Lab Replacement Facility



Connect



Recharge



Collaborate



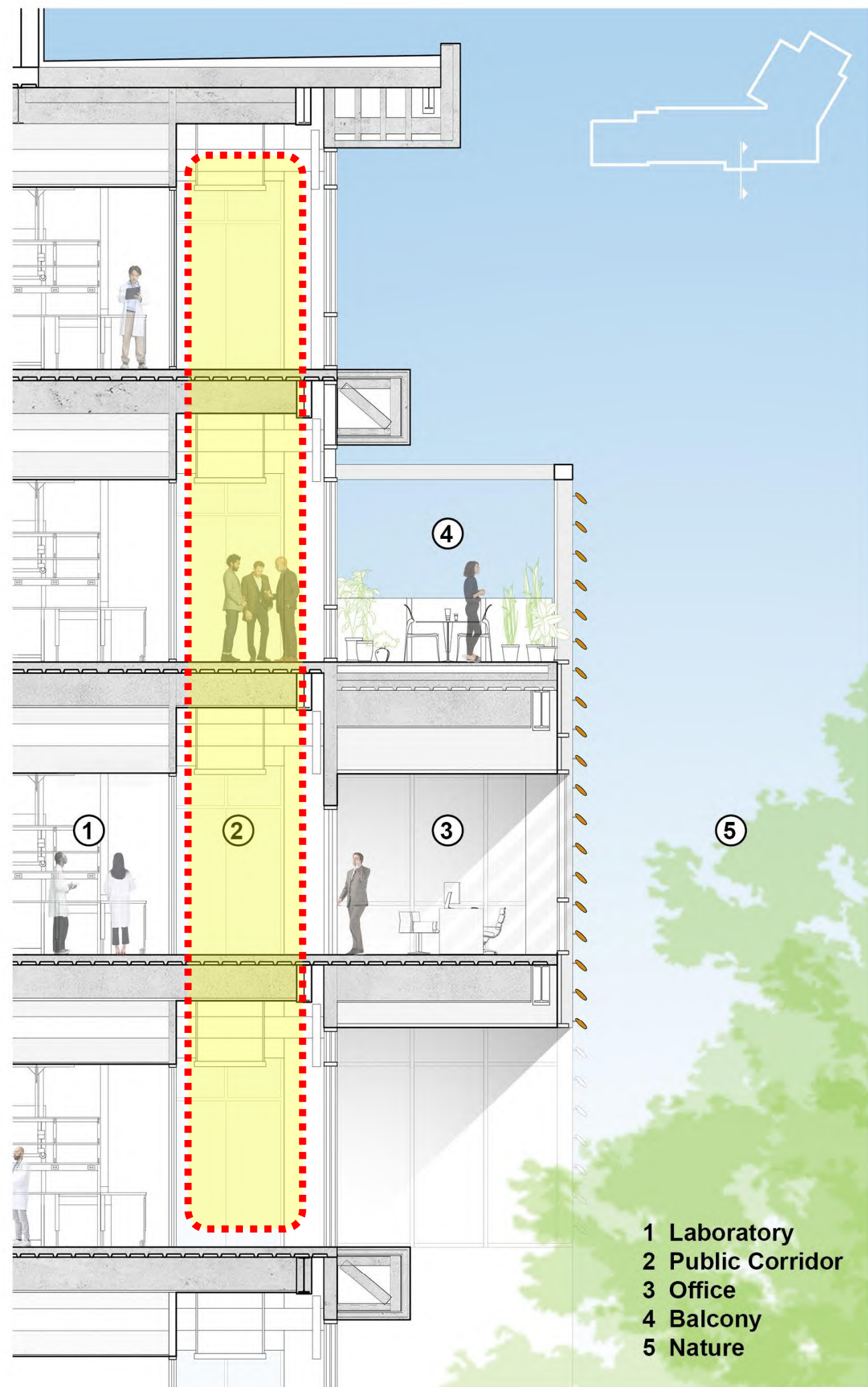
Think

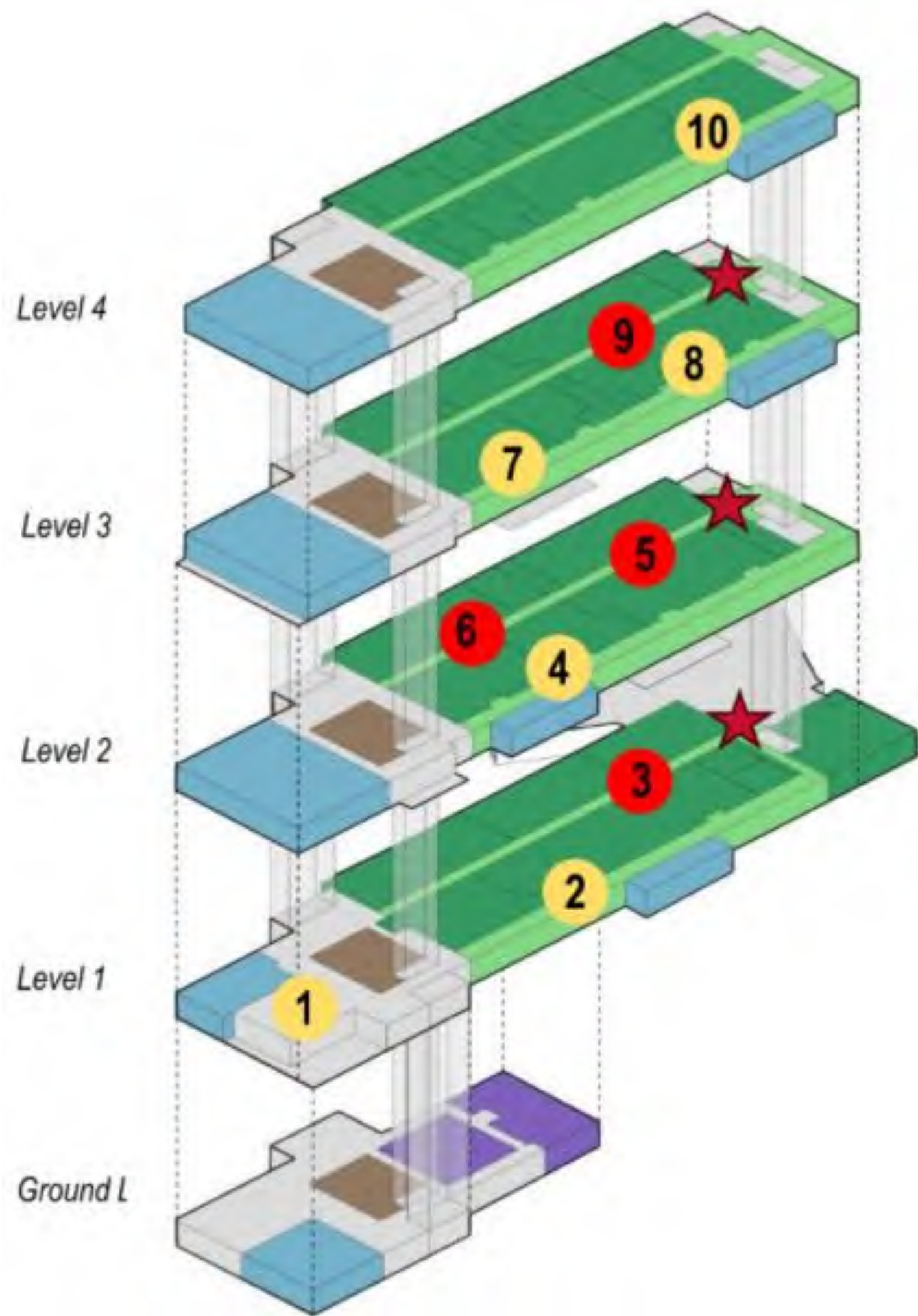


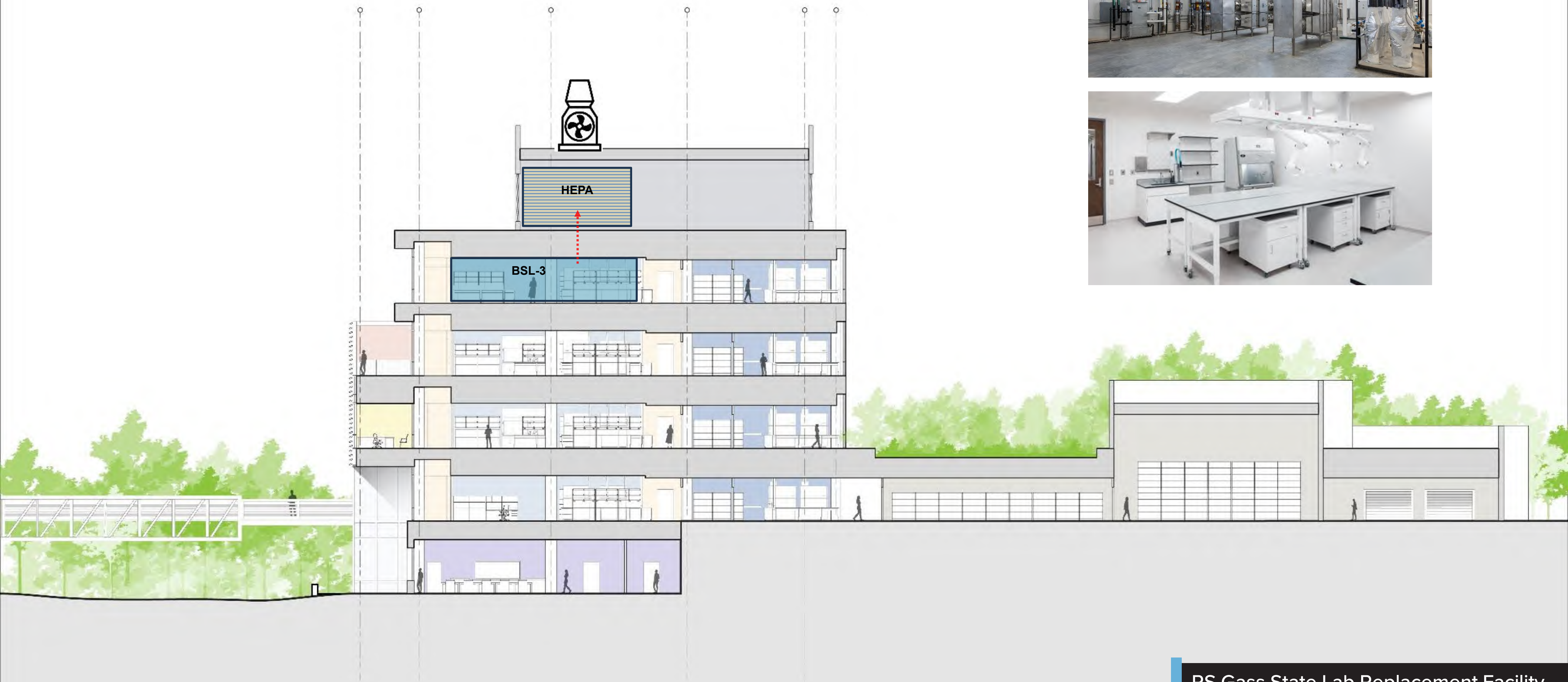


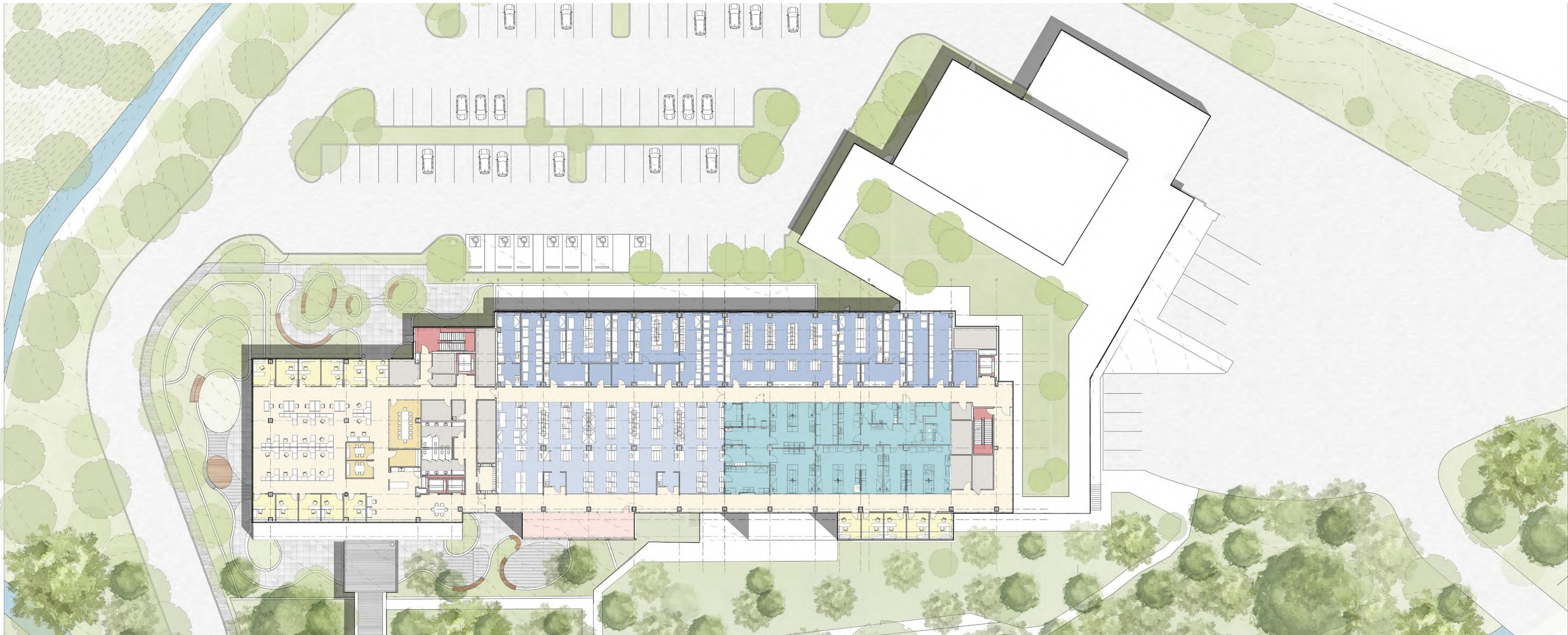


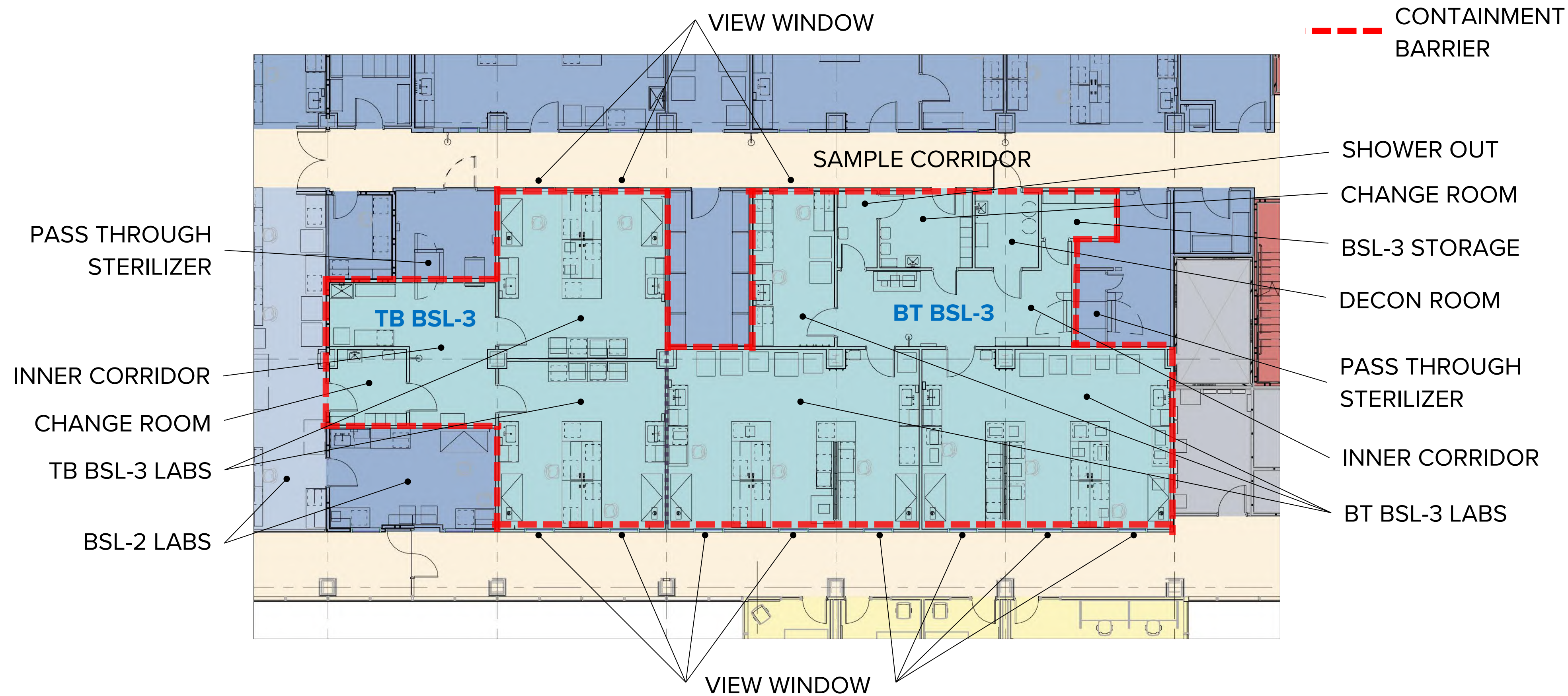
RS Gass State Lab Replacement Facility

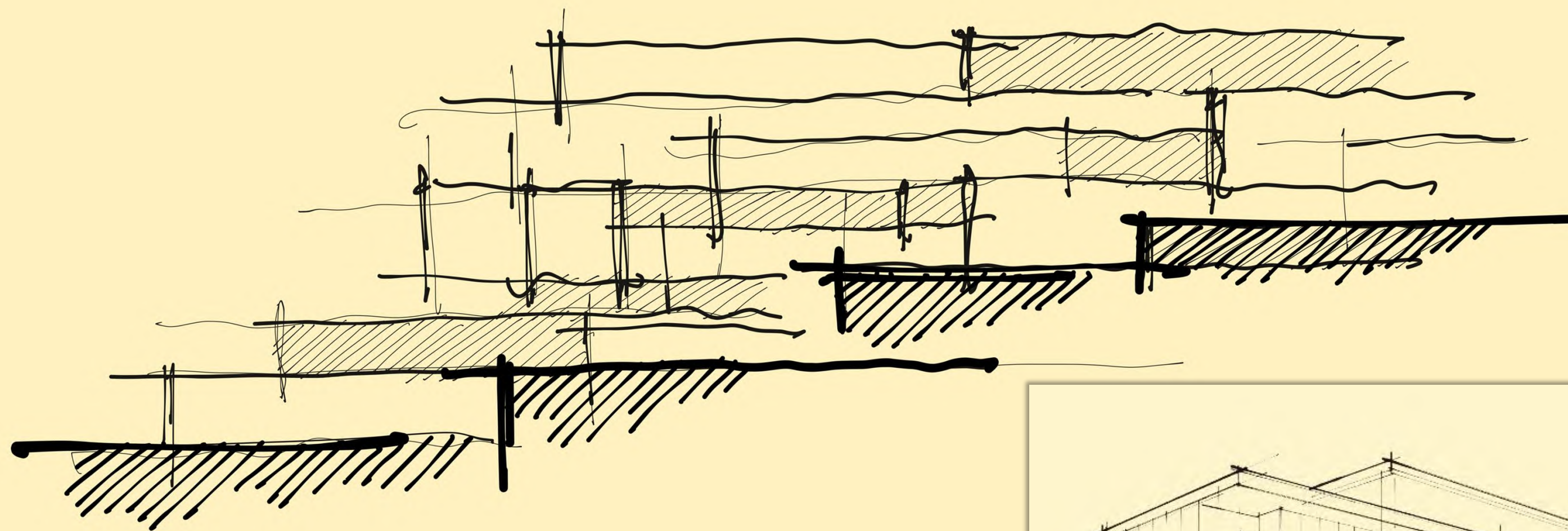
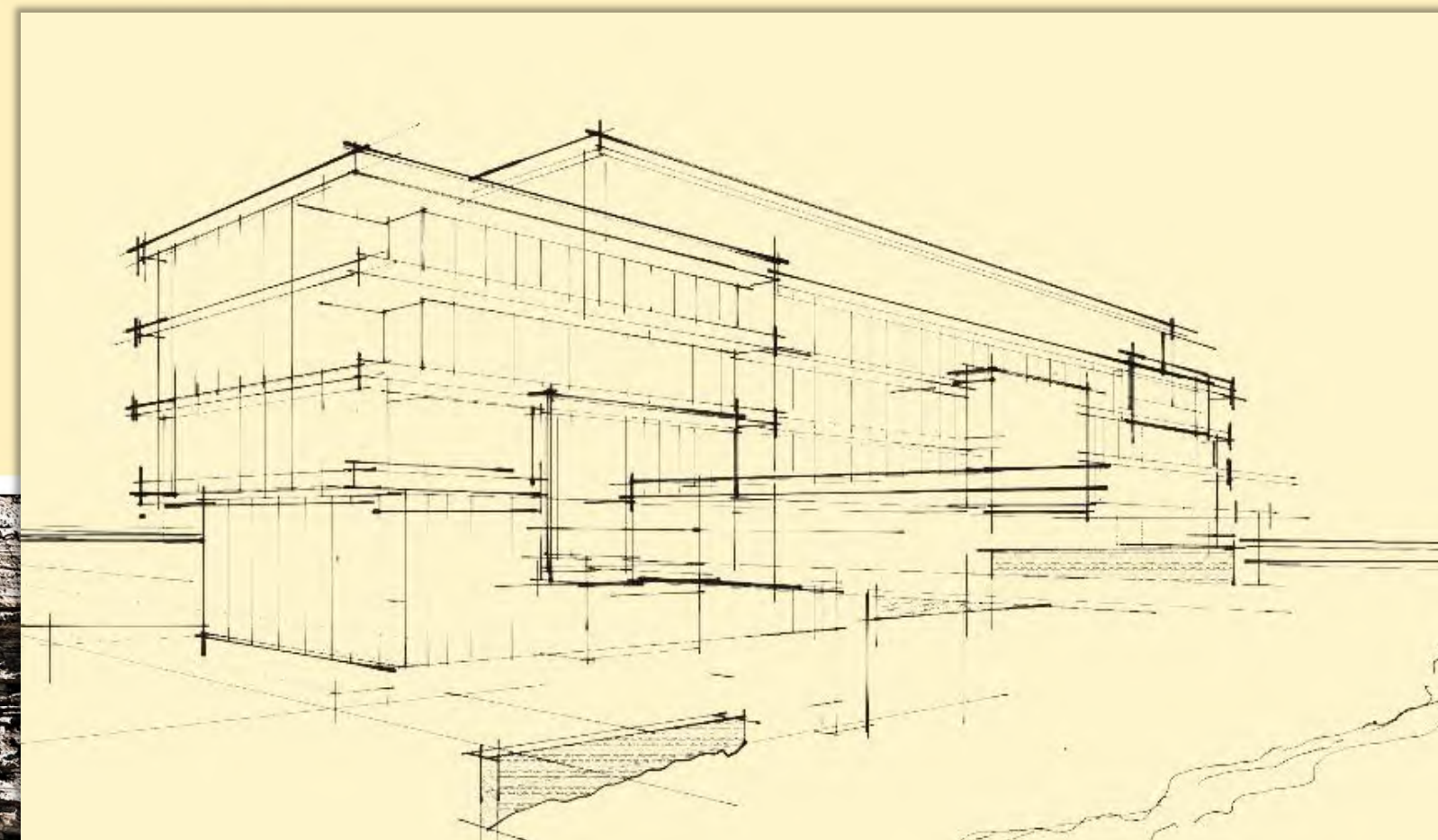








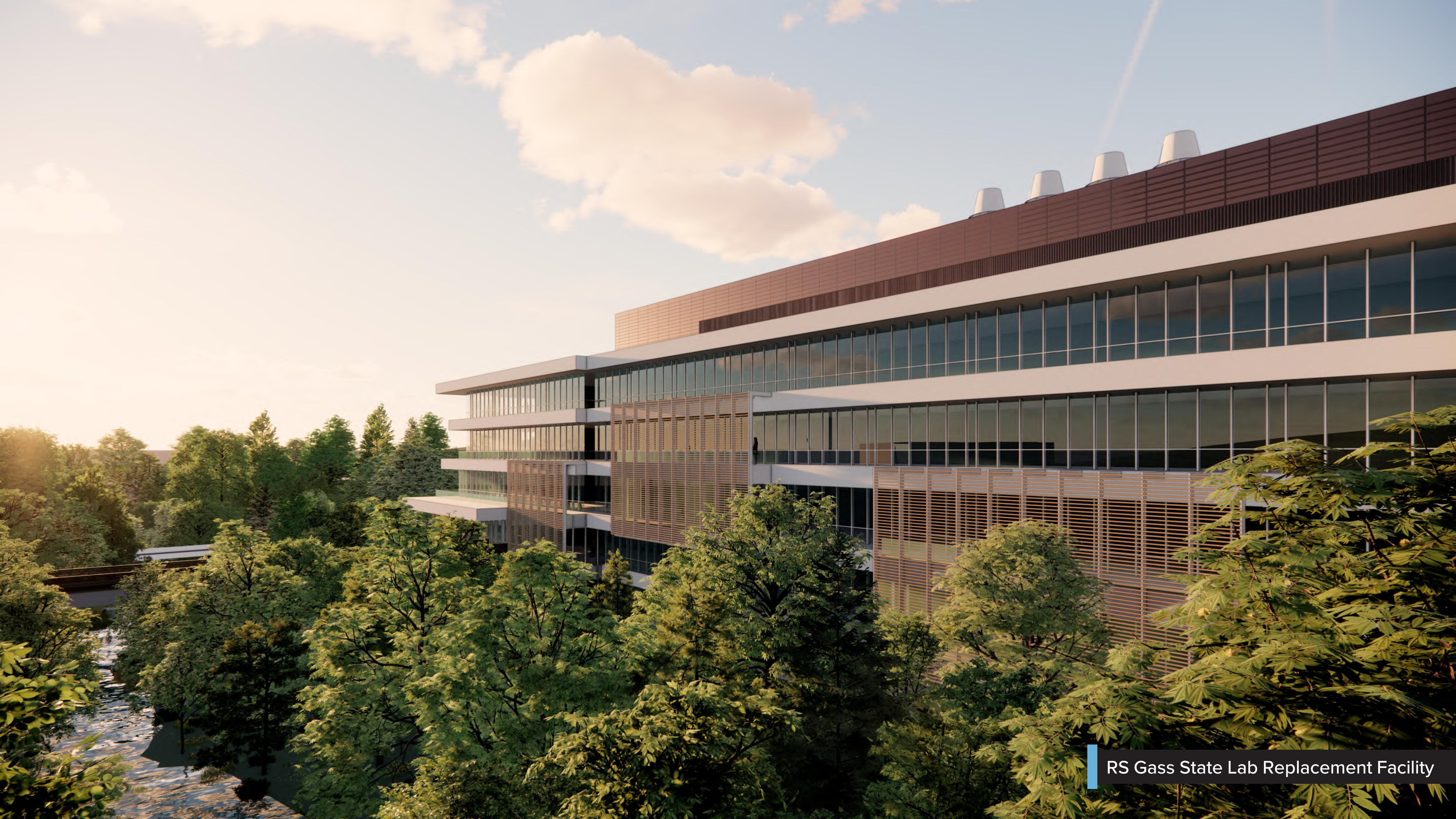




RS Gass State Lab Replacement Facility



RS Gass State Lab Replacement Facility



RS Gass State Lab Replacement Facility



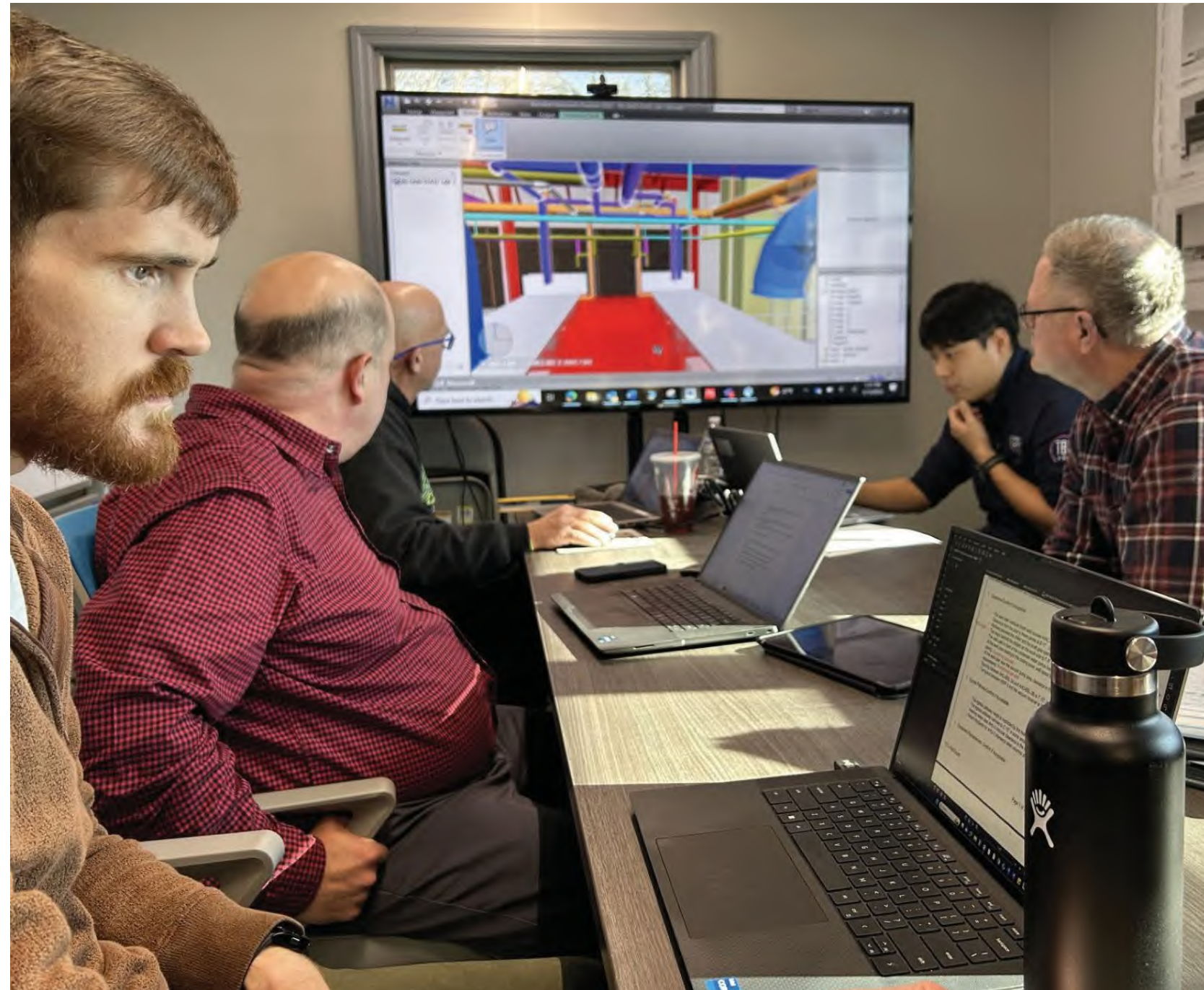
RS Gass State Lab Replacement Facility



CONSTRUCTION

Coordination

- Importance of Pre-Construction Phase
- Sub Consultants and Design Team
- BIM Coordination



Mock-ups

- Confirming design intent
- Ease of maintenance



RS Gass State Lab Replacement Facility

Construction

Challenges

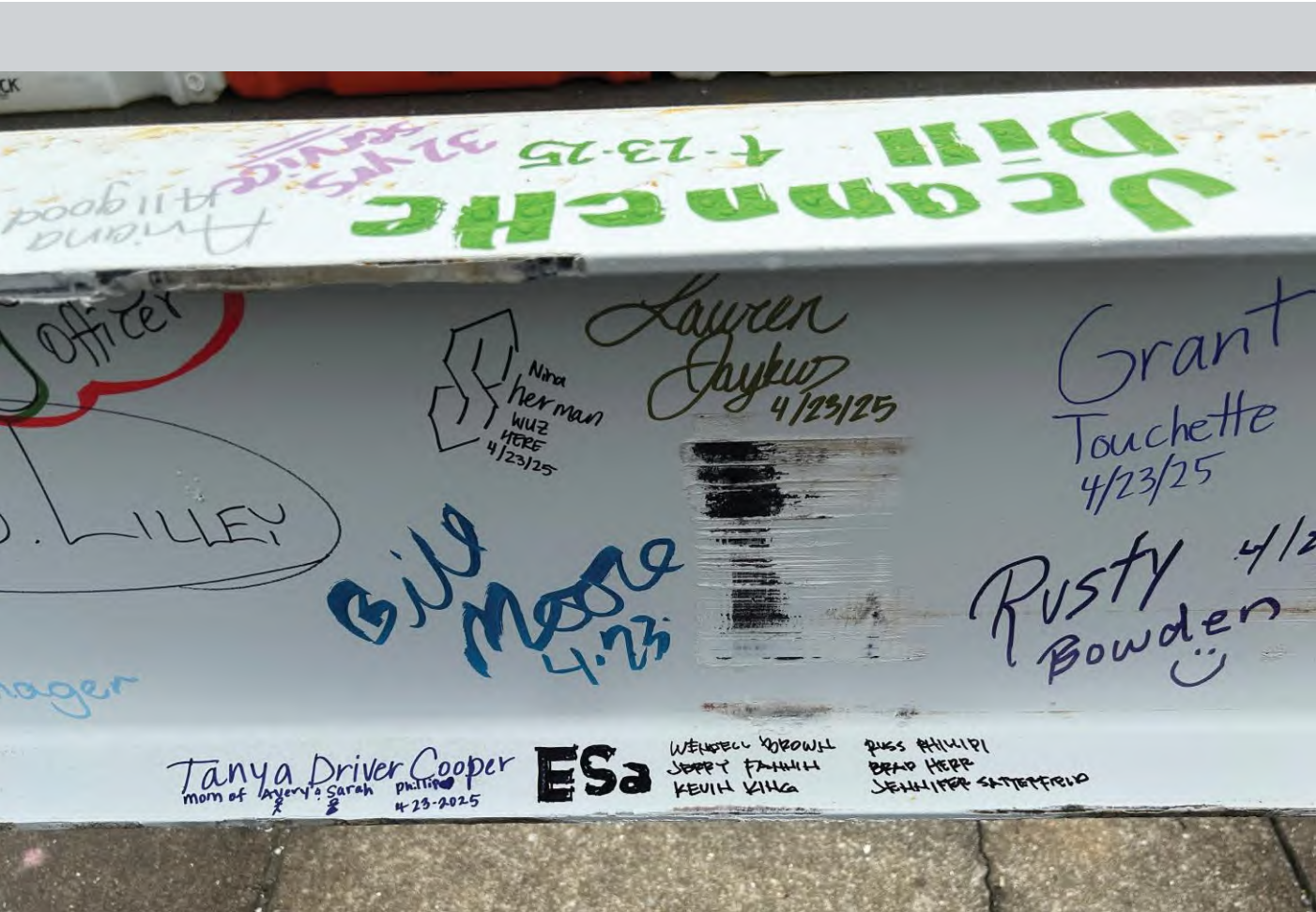
- Site: solid rock, width and timing of stream
- Time: ARPA expiration date
- Unforeseen Variables
 - Tariffs
 - War
 - Ice Storm



RS Gass State Lab Replacement Facility

Milestone Highlights

Topping-Out Ceremony

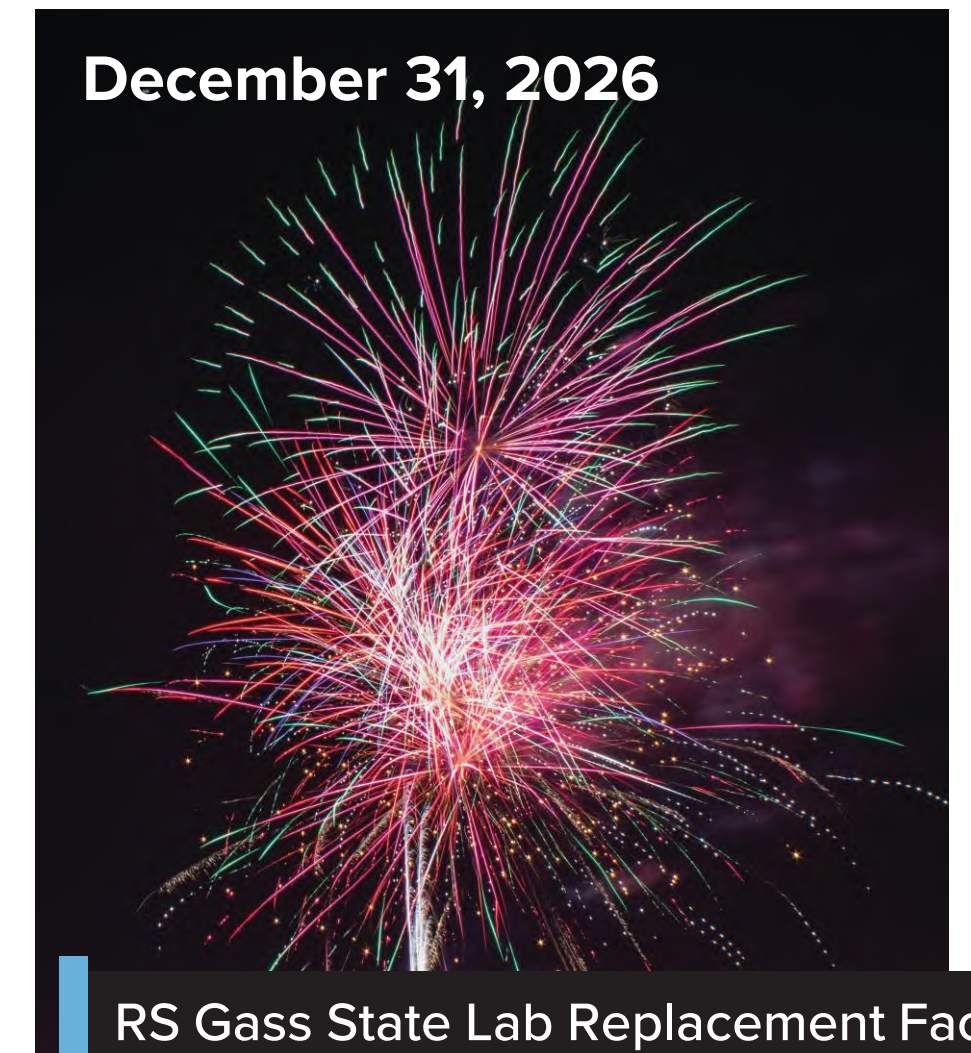


Bridge Setting



Schedule/Budget

- 7 days/week including holidays
- Hard stop **12/31/26**
- Ahead of Schedule
- Zero change orders to date
- Under budget



RS Gass State Lab Replacement Facility

SUMMARY

Successful Delivery

- Ahead of Schedule
- Under Budget
- Collaborative Effort
- No Accidents



Next

Post Construction Activity:

- ☐ Move Furniture
- ☐ Commission Equipment
- ☐ Close out Documents

Lessons Learned

1. Move Management
2. Commission Equipment

Thank You!



QUESTIONS

A photograph of a modern, multi-story building under construction. The building features a mix of glass panels and concrete or metal cladding. In the foreground, there is a stone retaining wall and a dirt area. A yellow excavator is visible on the left side of the building. The sky is blue with some clouds.

Project Video

