Meeting Notes

PROJECT
LOSD LHS Science Lab Remodel

MEETING SUBJECT
Design Meeting #2 with Teachers

DATE
2023-10-30

LOCATION
At Lakeridge HS

TIME
LOHS: 8:45 – 10am

PARTICIPANTS
Desiree Fisher
Sarah Mock
Matthew Briggs
Tony Vandenberg
Larry Zurcher
Dave Kruger
Marta Lilly (Arcadis)
Rebecca Stuecker (Arcadis)
Andrew Werth (Arcadis)

DISTRIBUTION Attendees

This is a record of the 2nd design meeting for the LOSD LHS Science Lab Remodel project. Presentation slides and floor plans attached.

MEETING AGENDA by Arcadis

1. What We've Heard
    a. Design Meeting #1
    b. Observation Day Takeaways
2. Schematic Design
    a. Review
    b. Options

What We've Heard

- Rebecca and Marta reviewed the takeaways from the Design Meeting #1 held on September 29, including:
    - The importance of separating lecture and lab zones in the rooms
    - Need to keep classrooms flexible, including the furniture, with multiple classes and subjects taught in each room.
    - With the Phase 2 design concepts:
        - An operable partition wall doesn't work with the way the classes are used and scheduled.
        - Circulation space outside the classrooms are used for teaching & learning.
    - See the attached presentation slides for more details and images.
- Marta also discussed the takeaways from the September 28 classroom observations, including:
    - Issues with the student restrooms.
    - How the staff room is used.
    - The flow and feeling of the science wing staircase.
    - Issues and opportunities with the existing classroom equipment and furnishings.
    - How the classrooms and certain pieces of equipment are used with the various programs.
    - Suggestions for better operation.
    - See the attached presentation slides for more details and images.

Schematic Design

- The Arcadis team shared the Schematic Design plans with the LOSD team and discussed certain design options, see attached plans.
    - General classroom and prep room upgrades:

        - New lighting, ceilings, flooring, and wall finishes.
        - Additional markerboards and two flat screen monitors per room.
        - New storage and cabinets.
        - Upgrades to plumbing, gas, ventilation, systems, and equipment including fume hoods.
        - Replacing aging equipment and furniture.
    - Options for classroom lab space layout.
        - The group preferred the option B "U-shaped" layout (see attached plans) with the distinct lab and lecture spaces.
    - Modified student restroom area and staff room/office layout.
        - The group preferred the option 2 restroom layout that had the staff restroom located off the staff room (see attached plans).
    - Upgrades to the science wing stairs.

- Comments/Questions
    - Furniture and Shades
        - Desiree mentioned liking the movable chairs and tables at classrooms G1 and G4. After the meeting the team went to see this furniture.
        - Sarah mentioned that blackout blinds are a better option over the current operable blinds they have that are easily damaged.

    - Lab Tables
        - Desiree pointed out that mobile lab tables for the general science classrooms have the advantage of creating flexibility for the future programs and uses.
        - Make sure to get the lab counters and mobile lab tables at the same height.
        - Arcadis clarified that the chemistry labs will have fixed lab tables.
        - Have seen issues where mobile lab tables hitting into the fixed counters and damaging the mobile tables.
        - Under lab table storage is not really used currently, so not an issue going with the mobile lab tables.
        - Look at other opportunities for storage at the perimeter of room and in prep areas.

    - Flooring
        - There was a conversation about whether to keep the concrete floors or look at other flooring products to help with noise. There is another classroom that had sheet goods flooring installed.

    - Classroom layouts
        - Sarah says she doesn't want students too far back which could be the case with classroom layout option A.
        - Desiree requested a central materials table in the lab area.
        - Right now they have 15 lab stations with groups of two per station. 34 students would be on the the large side of a class.
            - Show 30-34 students spaces per class.
        - The teachers demonstration table could be used as overflow.
        - Sarah asked about an outer wall door for the agricultural class to greenhouse from science B32.
        - What we heard from the meeting was that the teachers liked the lab zone with the material prep at the perimeter (option B) over the "L" shaped configuration (option A).

    - Restroom options
        - They liked the option with the teachers' restroom off the Staff Room.

- Staff Room/Office layout
  - Interest in window into testing room/office.

- Stairs to the Science Wing
  - They mentioned the issue of the student traffic flow at passing.
  - At the stairs the double doors at the top of the stair are fire doors and need to stay.
  - What are other ways to help the flow at these busy times?

- Phase 2 Work
  - Idea brought up of moving one of both of the chemistry classes.
    - Need to discuss further with the department.
    - Would Prep/Storage moving to perimeter help with ventilating to walls versus the roof?
    - Desiree mentioned that it would be fine to leave chemistry where it is located if that impacts the overall budget.
  - There was the suggestion that flex spaces are not necessarily productive due to circulating students. And that certain areas that had been designed as flex spaces aren't being used that way now within the school. In some cases these spaces are too large and they become student Commons which becomes a problem for focused work.
  - They do use the white boards in the halls.

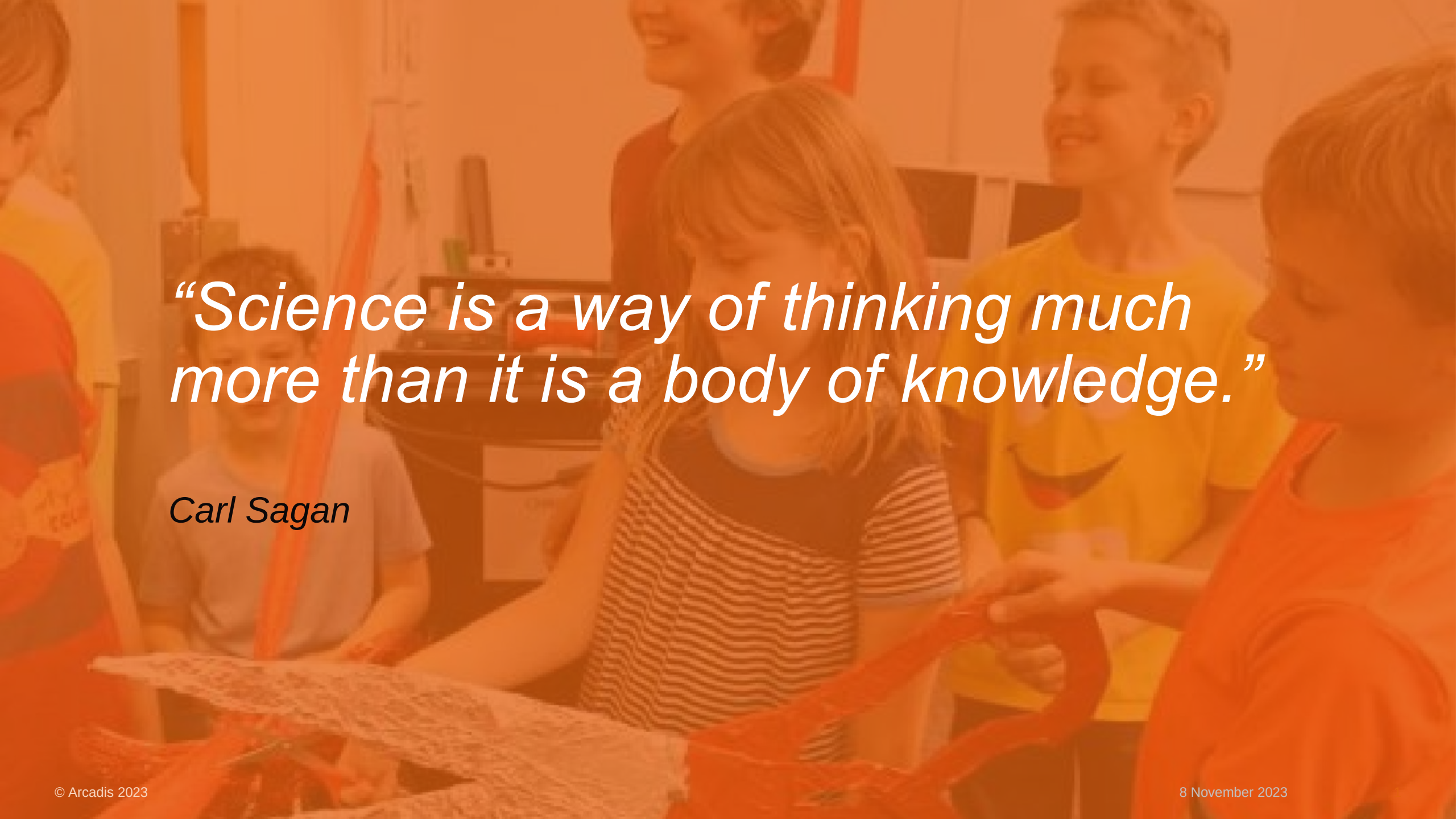
- Equipment
  - Two flat-screen monitors will be provided for each classroom.
  - They sometimes use Chromebooks with their labs.
  - Two fume hoods currently. One has been fixed it's believed. Could be expensive to move fume hoods around and challenges with ventilation routing.

- Utilities
  - We'll have power reels in the ceiling to provide power to the lab tables.
  - Limited use of gas in Chemistry. That may have been because there were issues.
    - No other classes using gas besides Chemistry.
  - Teacher saying that gas jets get vandalized. Option to look at a cover to that locks to protect the gas jets.

- Acoustics
  - They currently use an amplifier or microphone at times.
  - Sometimes there are sound issues between classrooms. Likely not sound insulation in the original walls.
  - Physics classes dropping bowling balls.

Submitted by,
Arcadis Architects Inc.

Attachments: PowerPoint Presentation and Plans



“Science is a way of thinking much more than it is a body of knowledge.”

Carl Sagan

High School Science Labs
Design Committee Meeting #2

Lake Oswego School District

October 30, 2023

Agenda

What We've Heard
Meeting #1 &
Observation Day Takeaways

Schematic Design
Review & Options

What We've Heard

What We've Heard: September 29 Meeting Takeaways

- It is important to maintain separate lecture and lab zones in the rooms
  - Students can sit at desks to take notes and tests, then move to the lab for experiments that have been set up.
- Most rooms teach multiple classes, we need to keep that flexibility.
- The desk/chair furniture is heavy and old. Would really like new, flexible furniture.

- For the Phase II design concepts, moveable walls just don't work for us. Both rooms need to be scheduled to have periods together that work to open up a larger space. We've tried in the past and it just doesn't work out.
- We use circulation space outside the classrooms for teaching & learning. Upgrading those zones would be highly valuable.

LECTURE ZONE ARRANGEMENT

What We've Heard: September 28 Day of Observation

- The restrooms are often locked for behavior reasons, it would be much better to design them as gender-inclusive single-occupant restrooms.

- The staff room is used for teachers to eat, talk, and prep. The small "office" space adjacent to the staff room could be used as a space for student academic support but there needs to be acoustic privacy between the rooms, and the staff room needs a separate door to enter.

- There is only one stair to access the science wing and it is very crowded during passing period. The stair does not feel like a welcoming entry to the department.


STAIRS AT PASSING

What We've Heard: September 28 Day of Observation

- The area along the windows of room B24 and B36 is underutilized and awkward.
- Sinks and power built-in to the lab stations reduce the need for students to move around or have an accident during a lab.
- Lab stations are designed for standing-height. There are no wheelchair accessible options in the existing labs.
- Teachers were observed arranging the lecture zone in different configurations. More flexible furniture and "trapezoid" tables would really help.

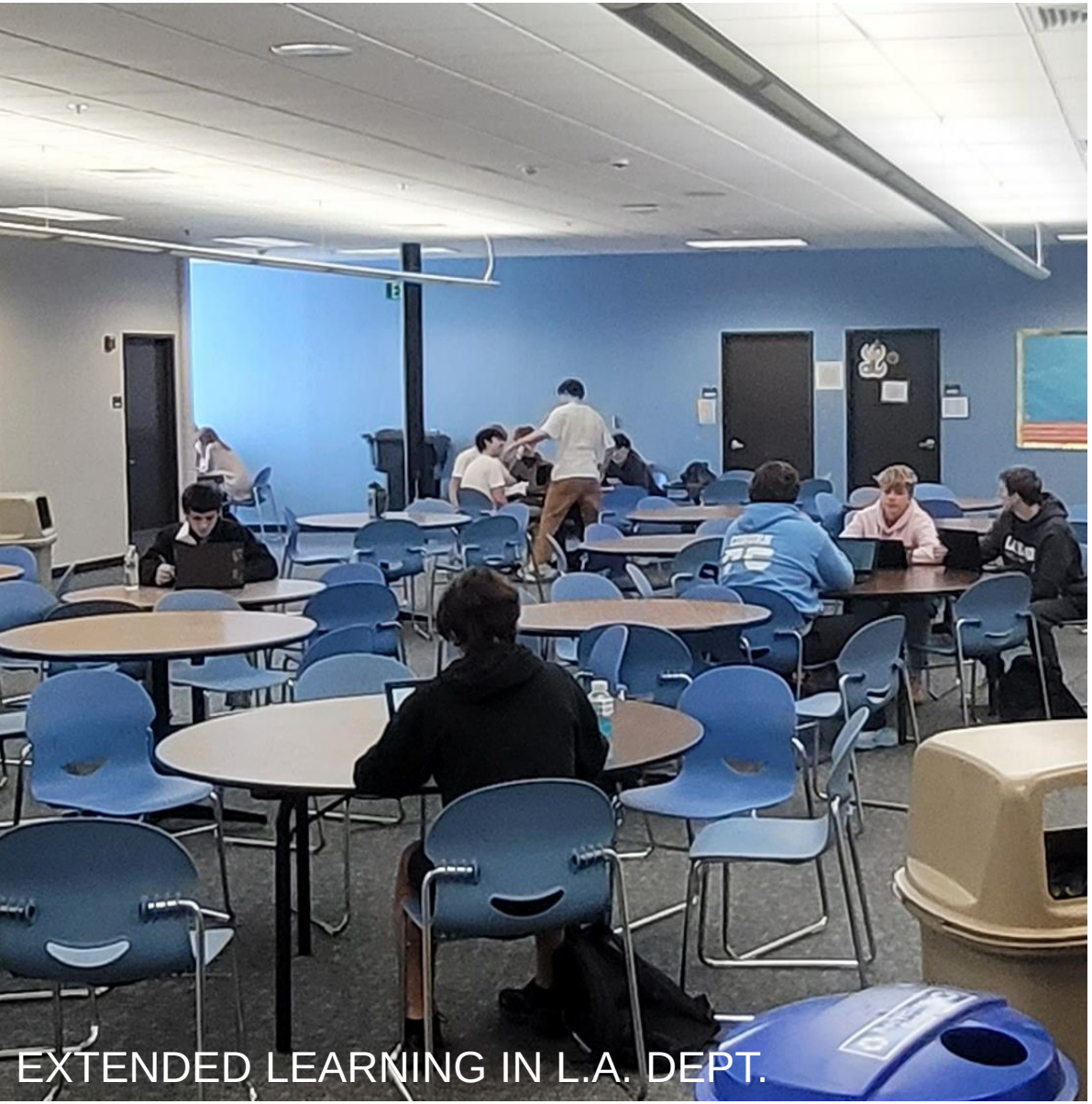
BACK OF ROOM AT B24 & B36

What We've Heard: September 28 Day of Observation

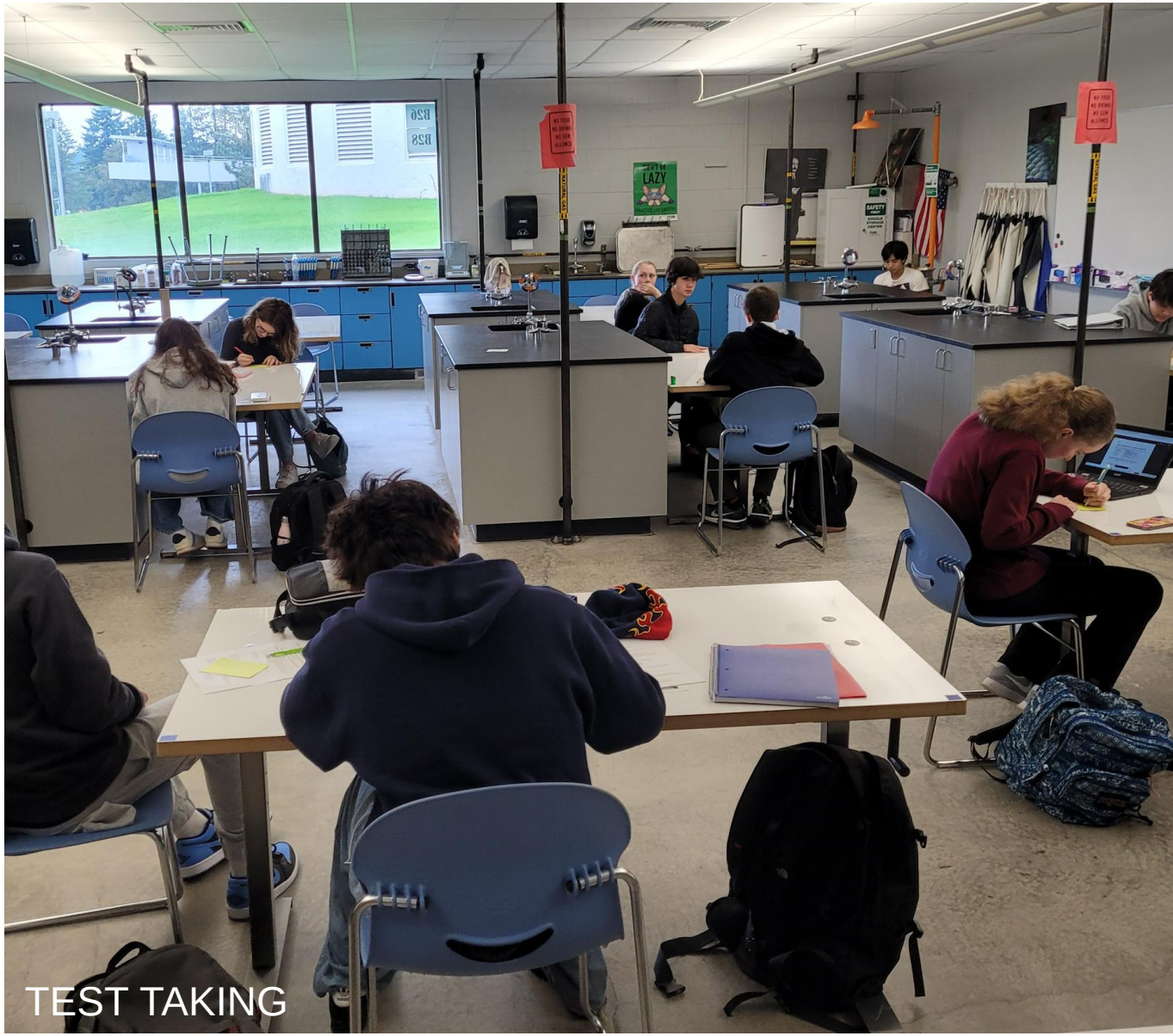
- More Markerboards Everywhere!
- During tests, chairs and desks are pushed throughout the room to space students apart. Some rooms with tables positioned a student at either end.
- Sand traps and Blackout Shades are lacking
- Stream table project is 3 weeks, requires power and water and a long table to set up.

TEST TAKING

What We've Heard: September 28 Day of Observation



EXTENDED LEARNING IN L.A. DEPT.



TEST TAKING

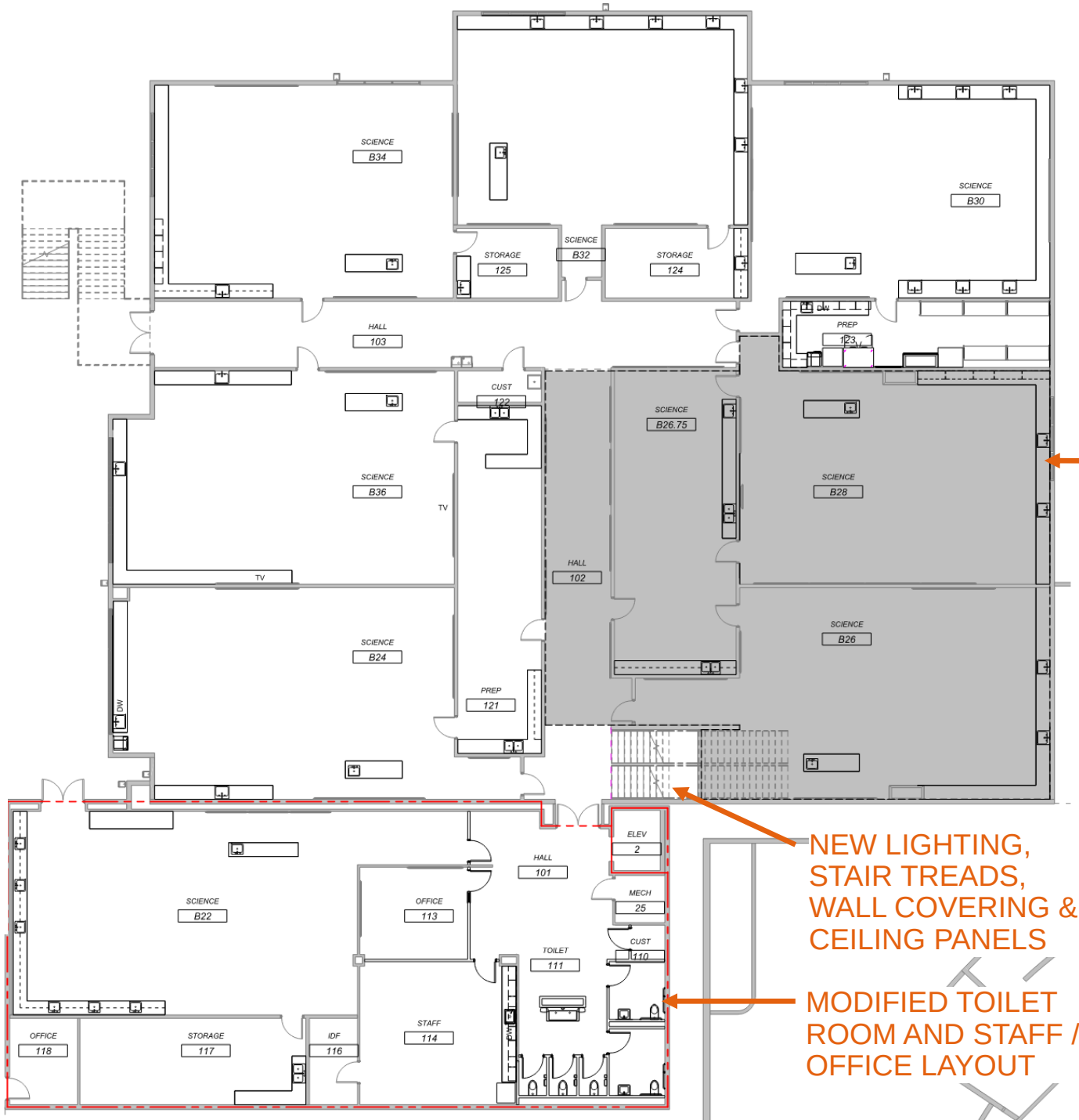
What We've Heard: September 28 Day of Observation

Schematic Design

Schematic Design Overview

GENERAL UPGRADES:

- NEW LIGHTING, CEILINGS, FLOORING AND WALL FINISHES.
- ADDITIONAL MARKERBOARDS AND TWO FLAT SCREENS PER ROOM.
- NEW STORAGE AND CABINETS THROUGHOUT
- UPGRADES TO PLUMBING, GAS, VENTILATION, SYSTEMS INCLUDING FUME HOODS
- REPLACE AGING EQUIPMENT AND FURNITURE

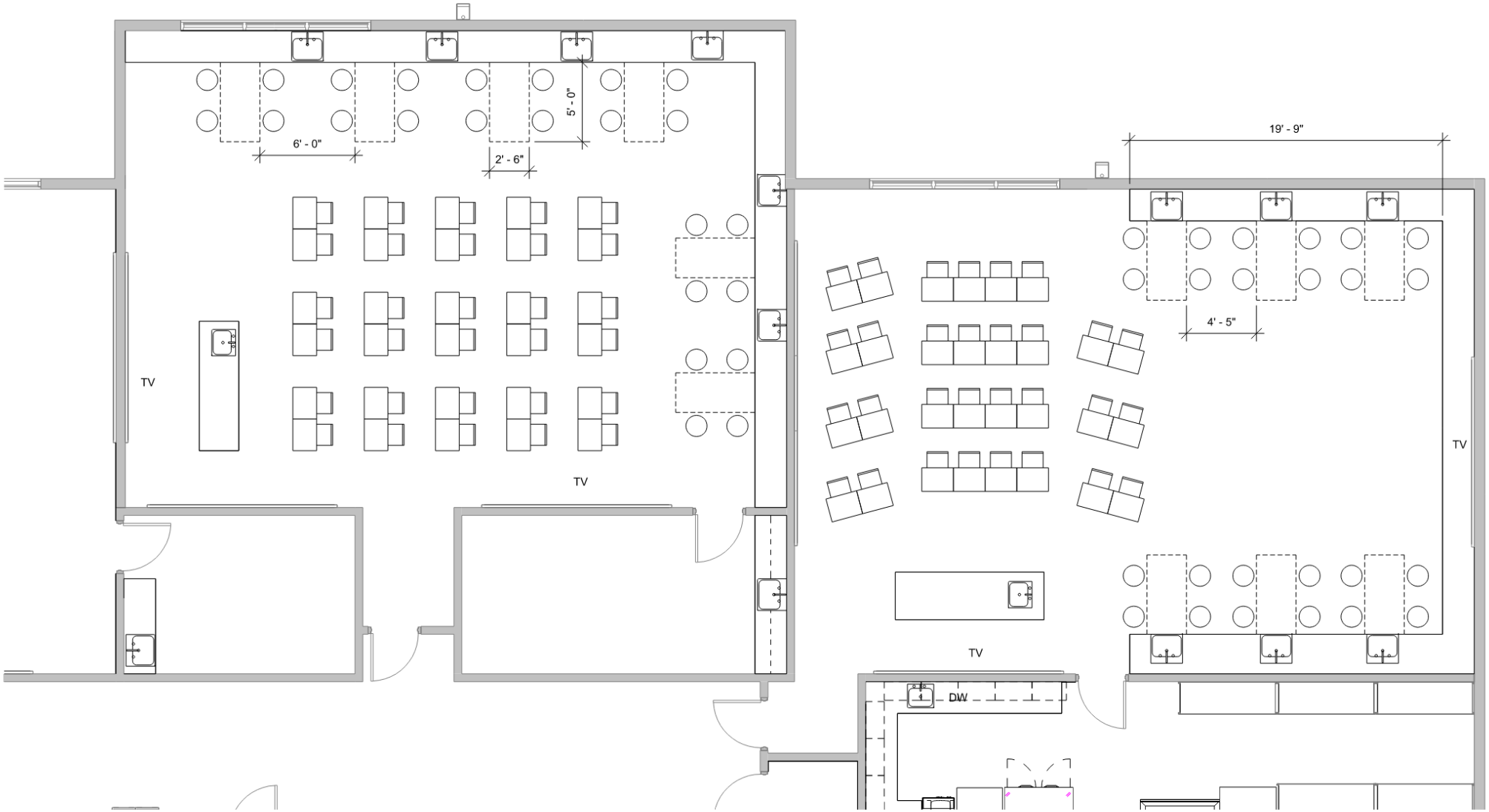


PHASE II (GRAY AREA), NO WORK

NEW LIGHTING, STAIR TREADS, WALL COVERING & CEILING PANELS

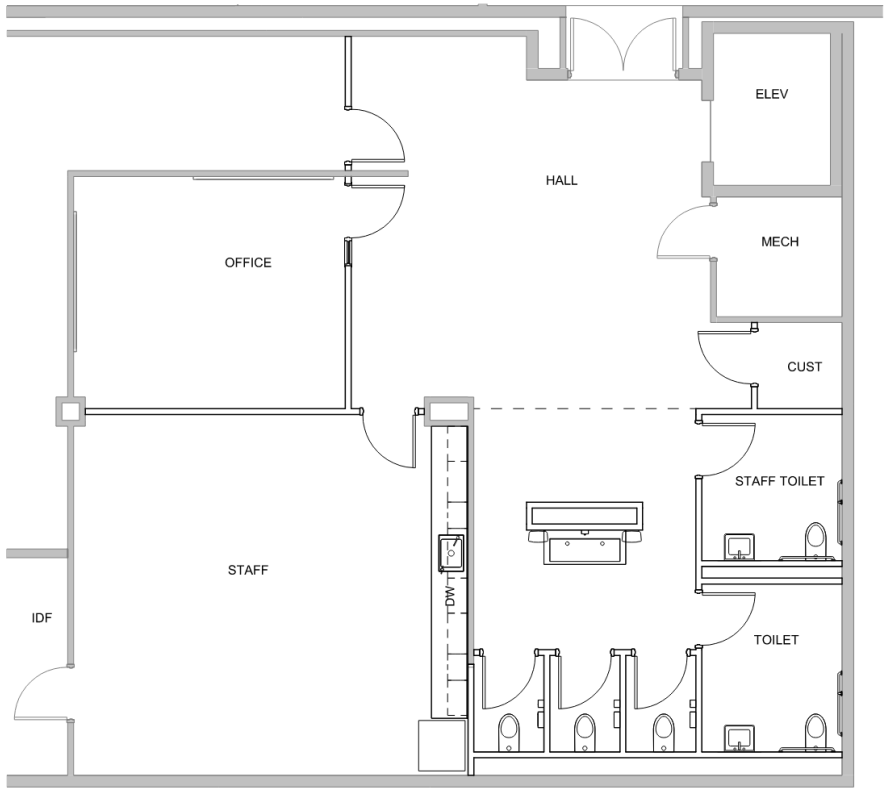
MODIFIED TOILET ROOM AND STAFF / OFFICE LAYOUT

Schematic Design
Overview

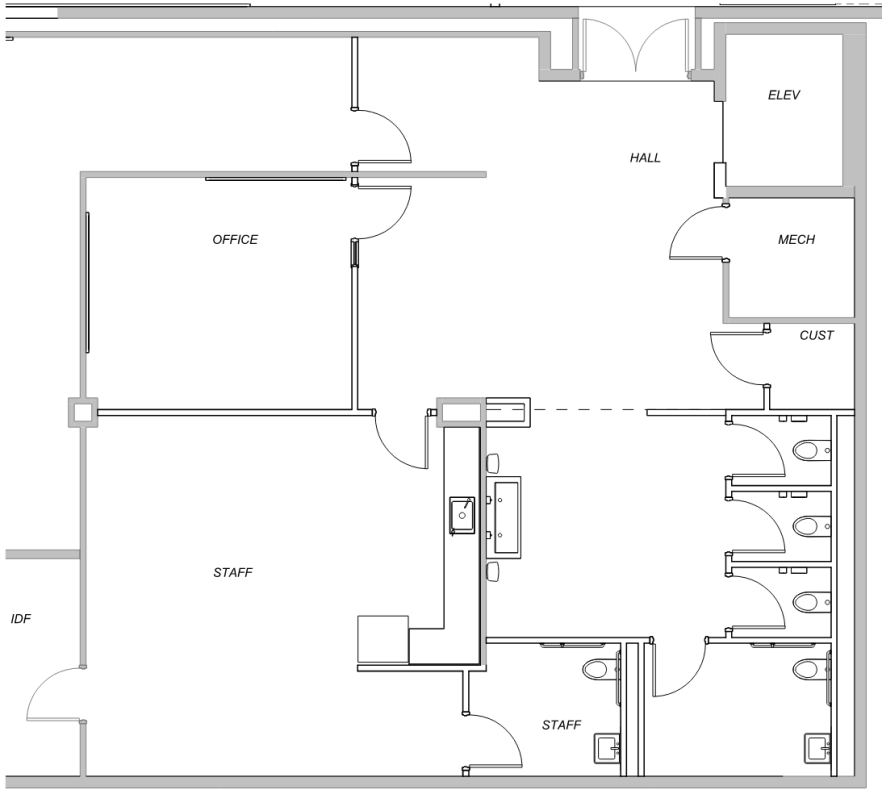


4 **ENLARGED CLASSROOM OPTIONS**
SCALE: 3/16" = 1'-0"

Schematic Design
Overview



2 **RESTROOM OPTION 1**
SCALE: 3/16" = 1'-0"



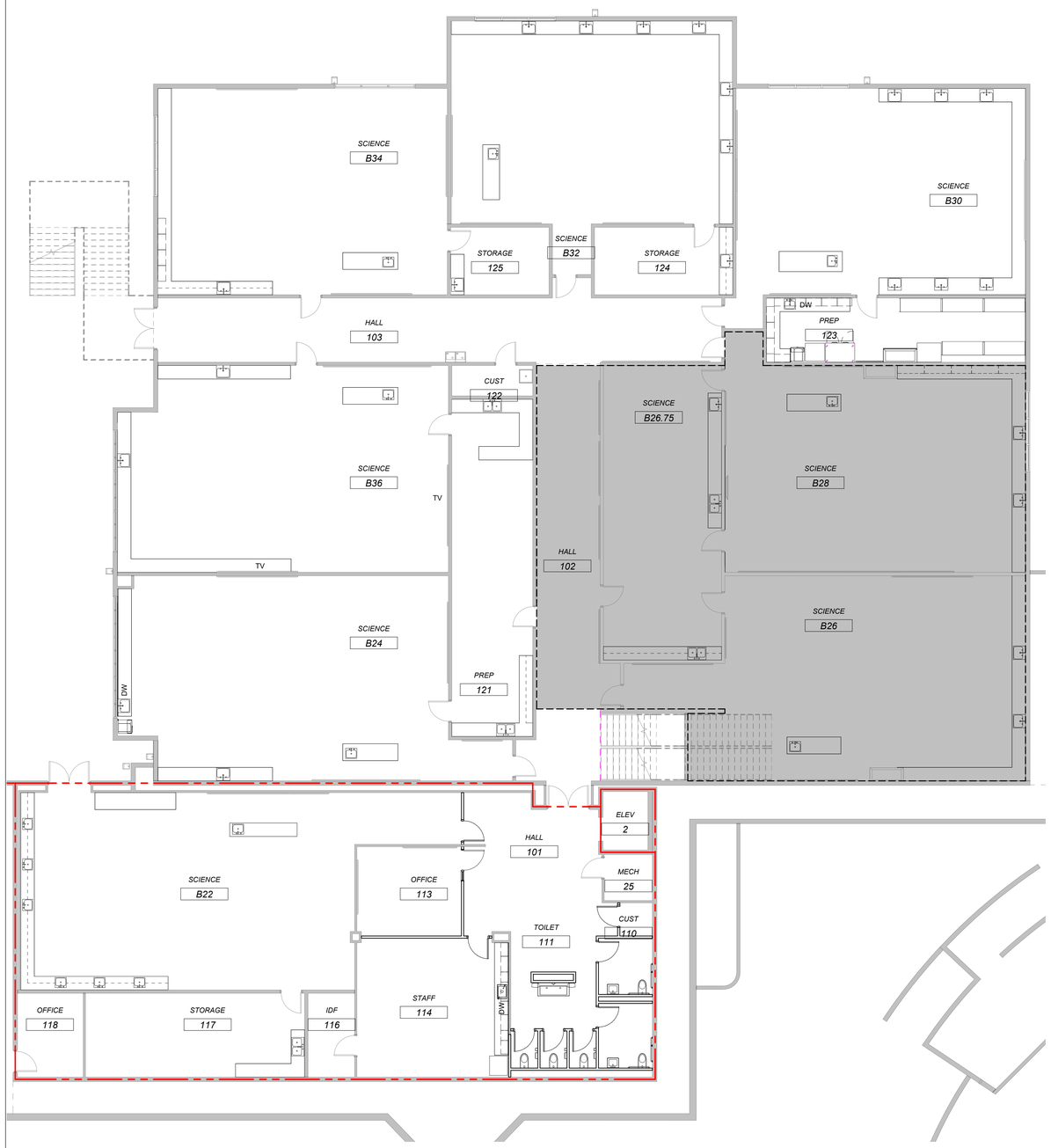
3 **RESTROOM OPTION 2**
SCALE: 3/16" = 1'-0"

Figure 4: Inclusive restrooms are designed with full height acoustic partitions, photo of SPPS St. Anthony Park Elementary School.

Figure 2: Inclusive Restroom Design at SPPS Humboldt High School

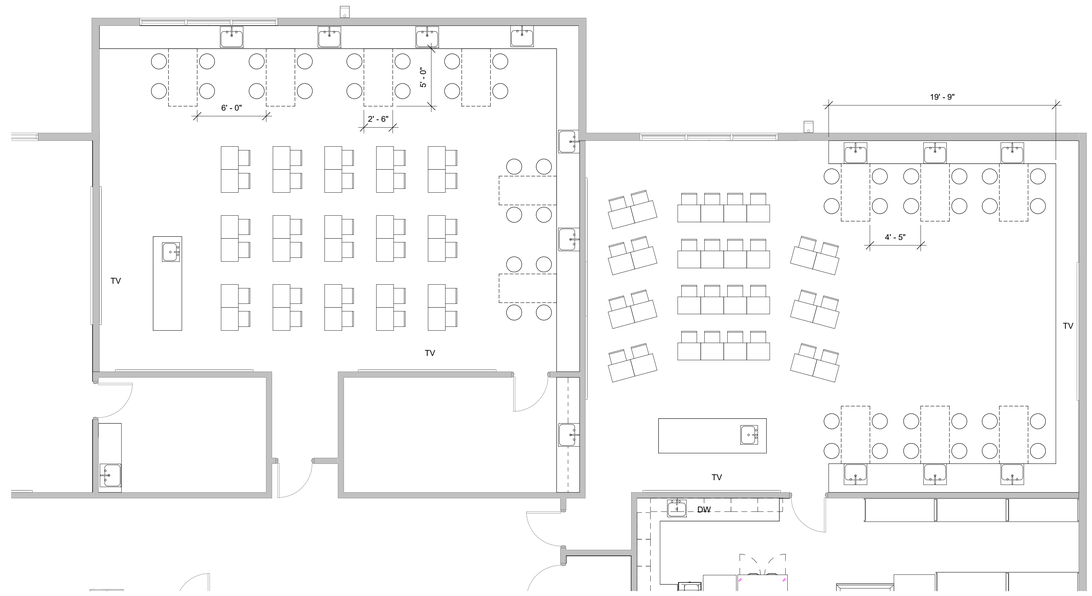
Next Steps

OVERALL FLOOR PLAN



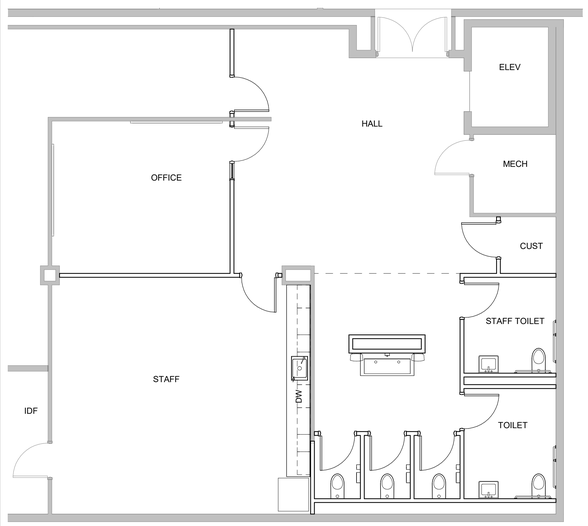
1 **OVERALL FLOOR PLAN**
SCALE: 1/8" = 1'-0"

CLASSROOM LAYOUT CONCEPTS



4 **ENLARGED CLASSROOM OPTIONS**
SCALE: 3/16" = 1'-0"

RESTROOM OPTIONS



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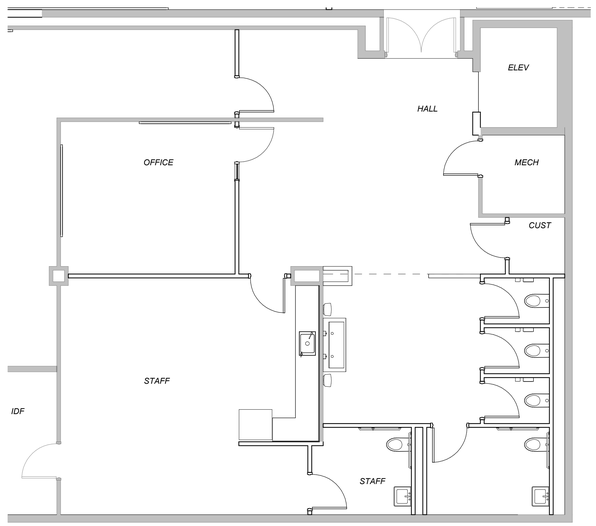
SCALE: 3/16" = 1'-0"



3 **RESTROOM OPTION 2**
SCALE: 3/16" = 1'-0"

Lake Oswego School District

Street
City, ST Zip code

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Lakeridge HS Science Lab Remodel

SCHEMATIC DESIGN

Date: **2023-10-30**
Project No: **143246**
Scale: **As indicated**

PLAN & VIEWS

P1101

True North