

**Trinity High School:
ACE Mentor Club**

Lab Renovation



The background features a dark grey architectural floor plan with various lines, dimensions, and symbols. A 3D model of a building's structural grid is overlaid on the plan. On the right side, a large green square contains a white outline of the letter 'S', which is further defined by a black border. A diagonal white line separates the architectural drawing from the 'S' logo.

Architecture

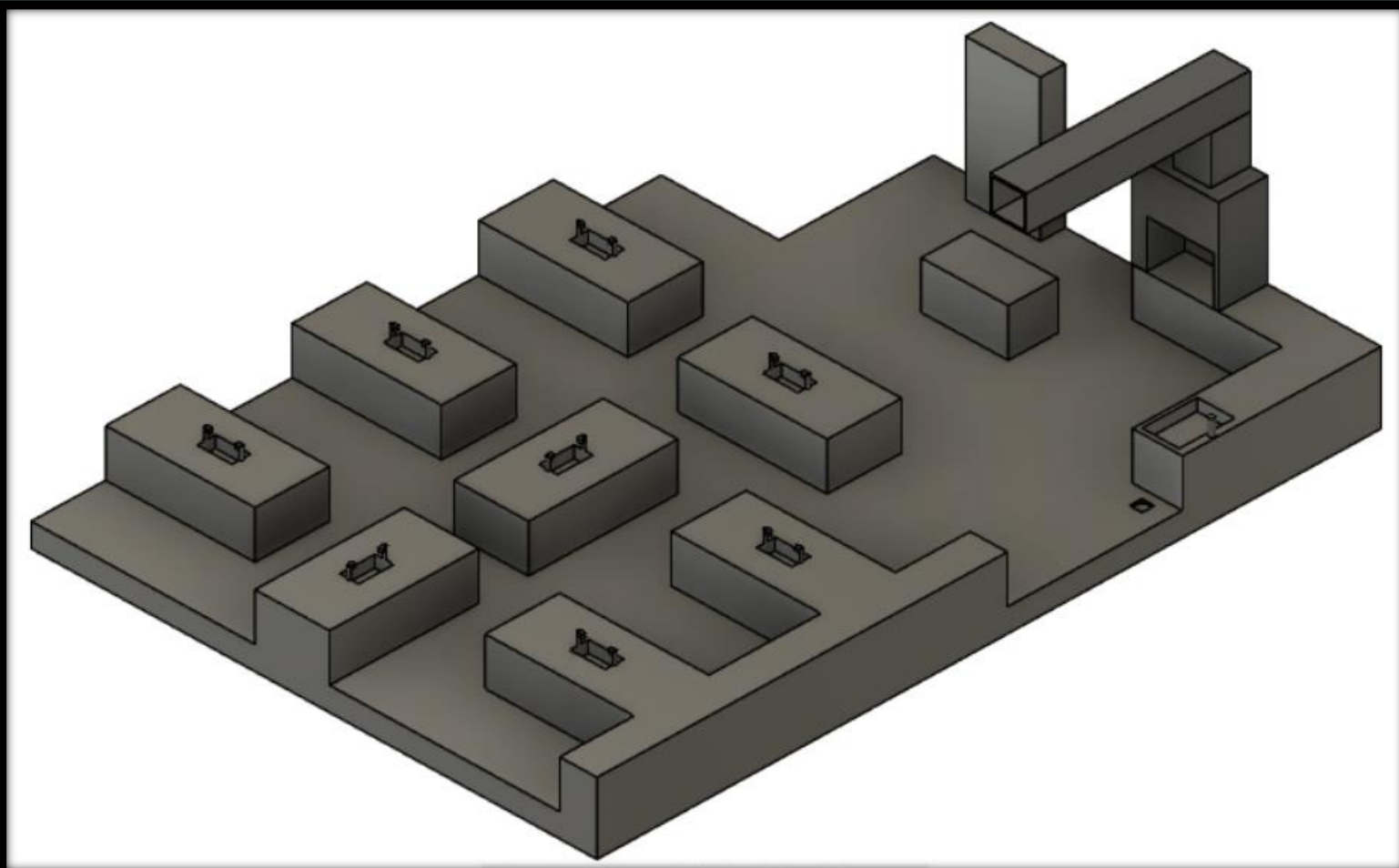
Aidan Strelbel, Benjamin Block,
Mathew Hunter, Anthony Holder

Planned Lab Re-Design

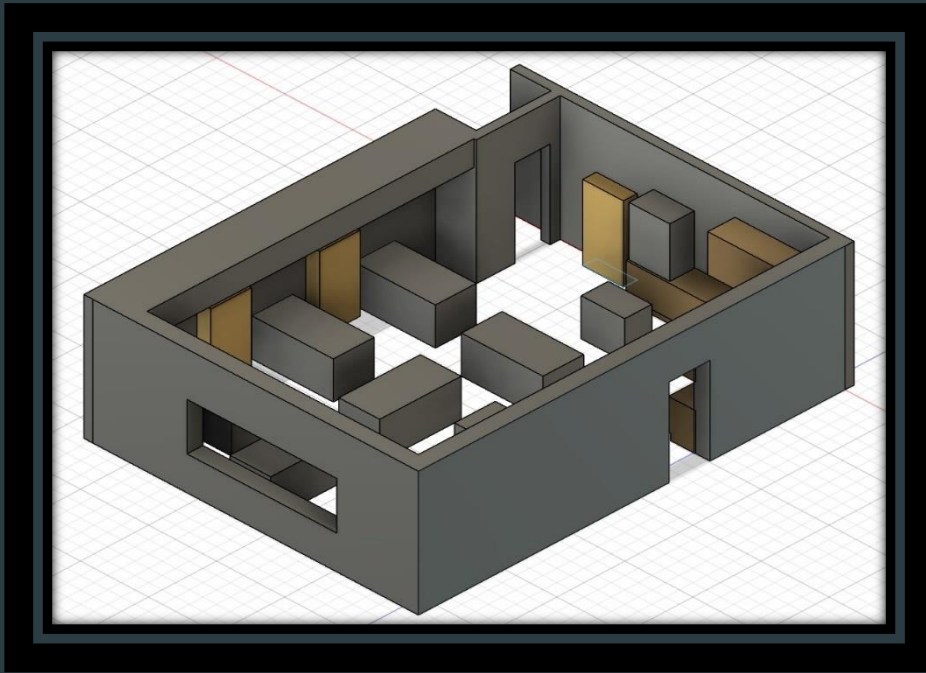


- ▶ Original Idea:
 - ▶ Complete Redesign
 - ▶ New Classroom Orientation
 - ▶ New Tables
 - ▶ New Cabinets

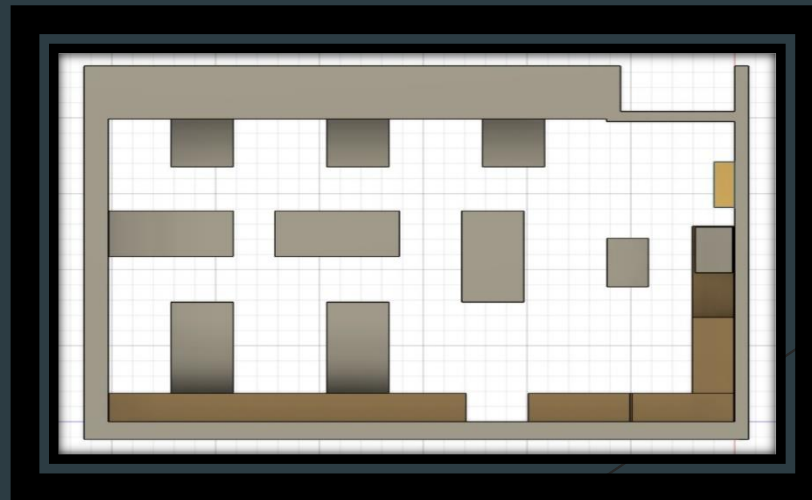
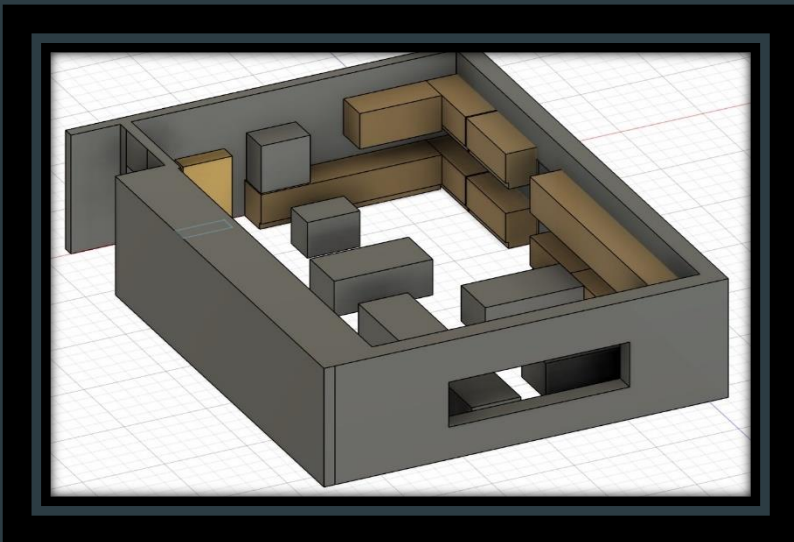
- ▶ New Design:
 - ▶ Install New Cabinets
 - ▶ Remove Fume Hood
 - ▶ Replace Countertops



Current Lab Layout



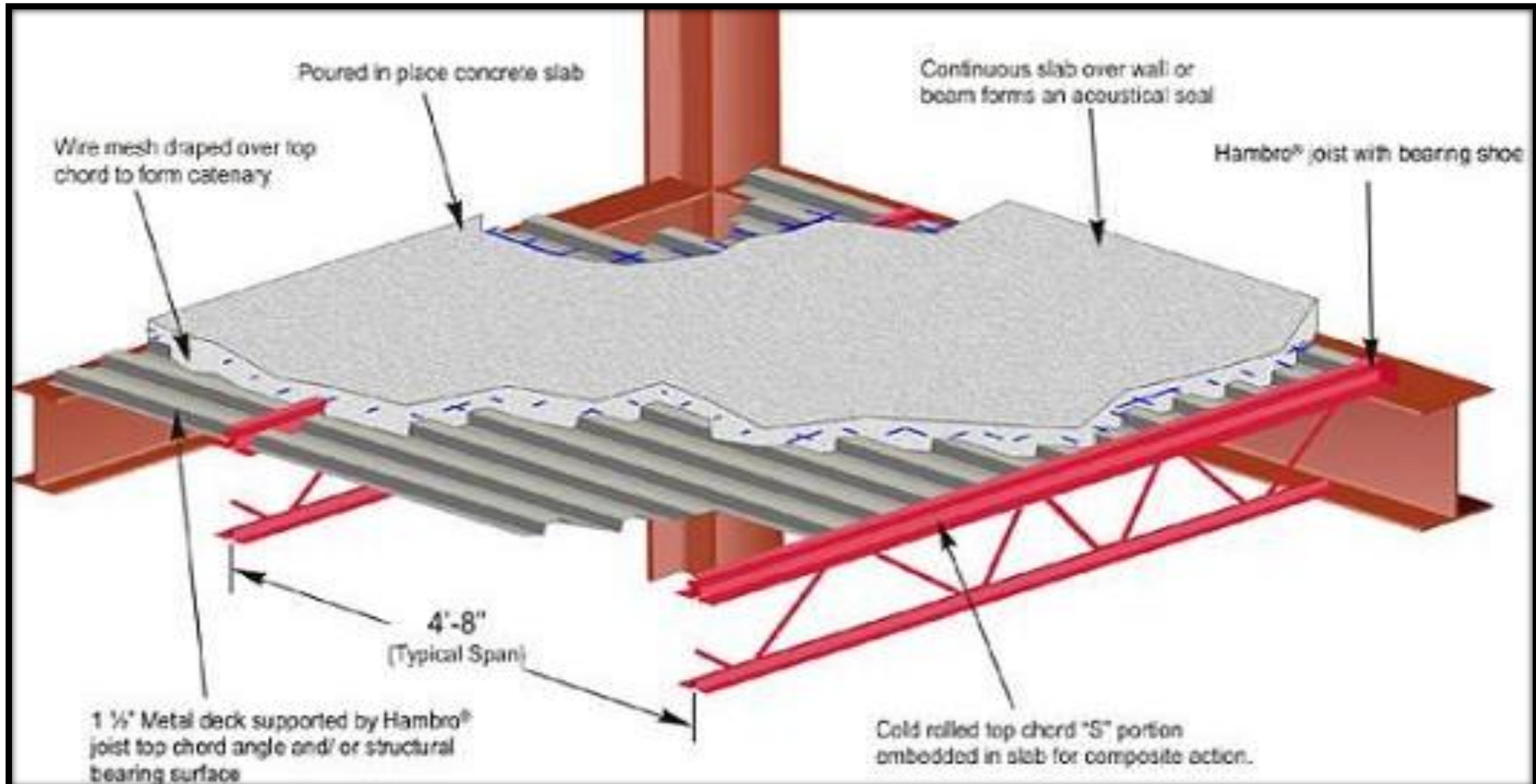
Lab Re-Design



Civil Structural

Luke McArthur, Michael Murphy







Picture from Below the Lab



Mechanical Electrical Plumping (MEP)

Keaton Gaddie, Connor Kalvar, Dean Townsend



Fume Hood Exhaust

Install Ceiling
Exhaust Diffuser

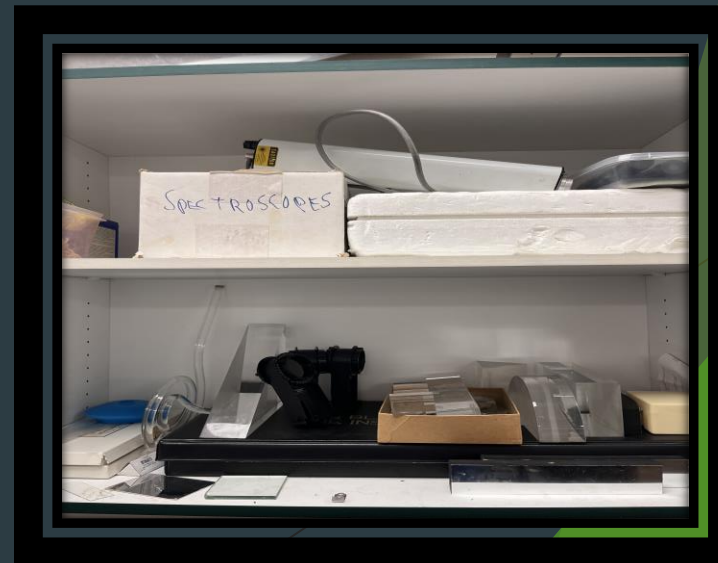


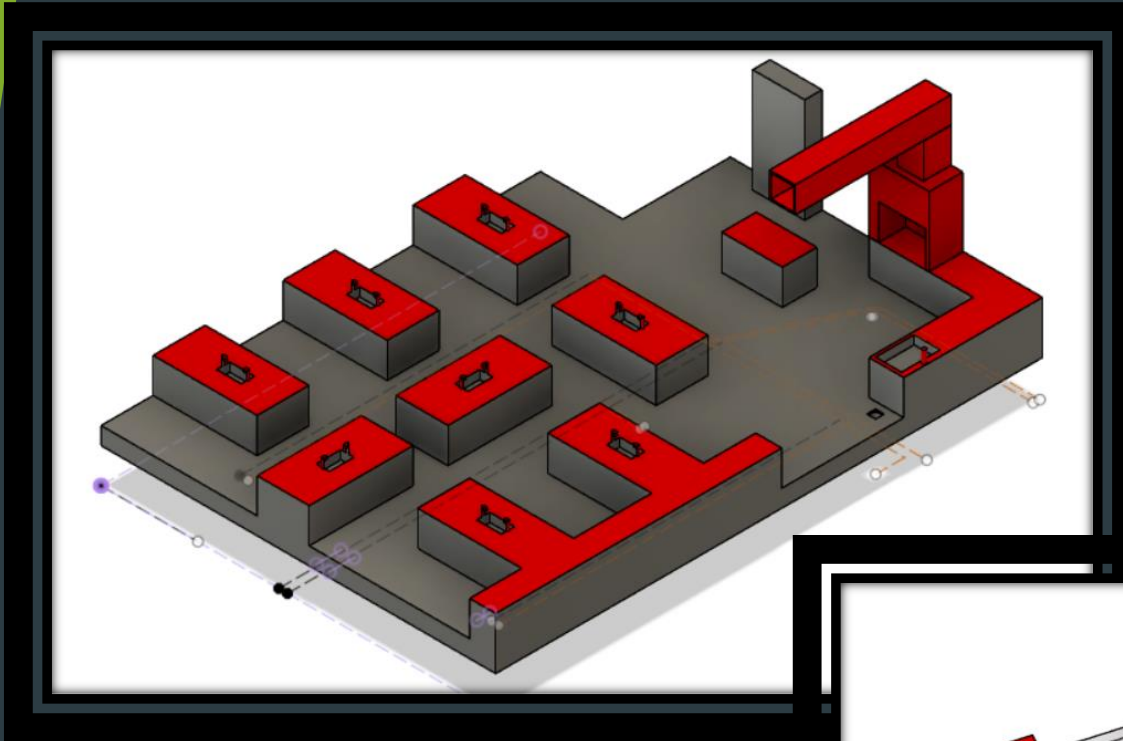


**Sinks and
Piping Removal**

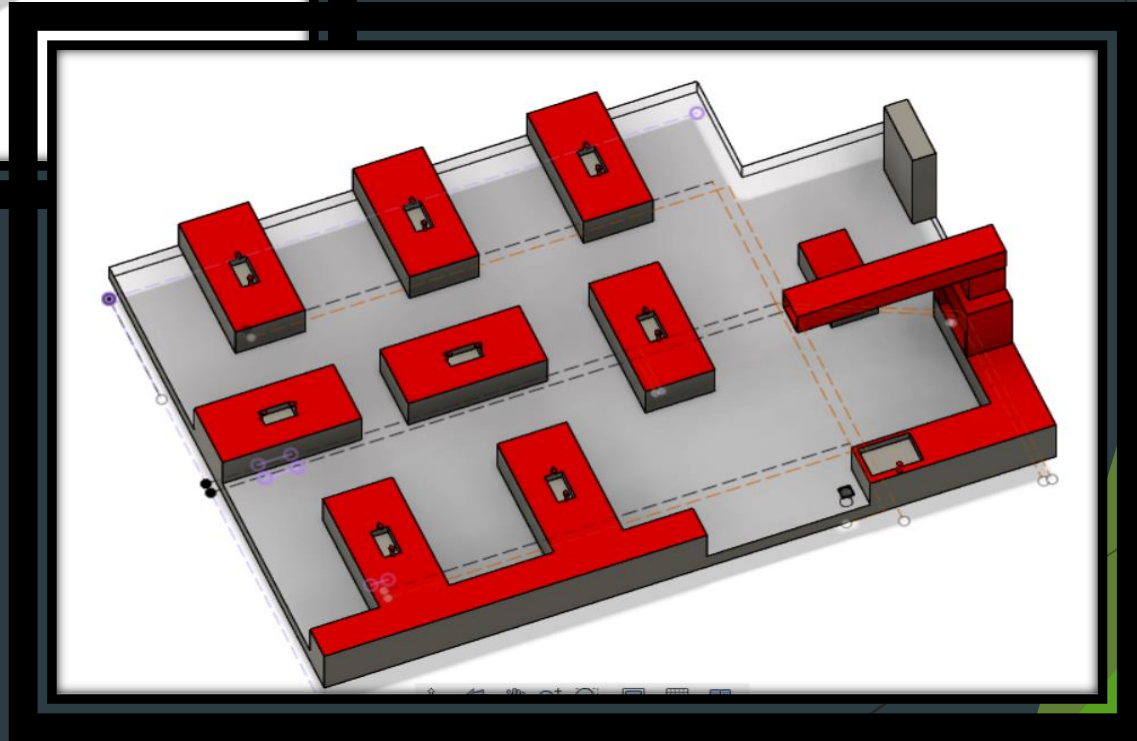


**New Counter and
Cabinet Installation**





Demolition Model





Construction Management

Bucky Abound-Hall, Jacob Woods, Jason Bui



General Conditions

- ▶ Super Intendent - \$10,000
- ▶ Dumpsters - \$1500
- ▶ Permit - \$500
- ▶ Clean-Up - \$2800
- ▶ Total - \$14,800





Demolition

- ▶ 6-Man Crew (5 days) - \$11,200
 - ▶ 2 Carpenters- \$120
 - ▶ 4 Laborers - \$160
- ▶ Remove Water and Gas Lines - \$3600
- ▶ Misc. Equipment - \$500
- ▶ Remove Fume Hood - \$600
- ▶ Total - \$15,900

Renovation

- ▶ Patch Ceiling - \$1600
- ▶ Cap Water and Gas Lines and Patch Floor - \$1600
- ▶ New Countertops - \$5500
- ▶ Misc. Material - \$500
- ▶ Add Wall Cabinets - \$6400
- ▶ Paint Walls - \$1000
- ▶ Total - \$16,600



The End

