Innovation Lab Project Report
as of March 17, 2025

The Innovation Lab project at Anchorage Public School includes construction modifications, HVAC ventilation for laser engravers, electrical upgrades, and painting. This report outlines the planned work, associated costs, and potential additional repairs that may be required as the project progresses.

Construction Work by Trussted LLC

Phase I: Cabinet Relocation and Wall Patching

The first phase involves relocating cabinets to accommodate the new layout. North wall cabinets will be moved to the west wall against the hallway, while south wall cabinets will be relocated to the back wall of the adjacent classroom. After relocation, the original cabinet areas will be patched and repainted. The total cost for this phase is **$5,475.00**, including labor and materials. [Attachment 1]

Phase II: Cabinet Removal, Door Installation, and Wall Repairs

In the second phase, white wall cabinets will be removed, along with base cabinets and countertops in the designated door location. Electrical components in the area will be removed, and a new opening will be cut for the door installation. Once installed, surrounding walls will be repaired and painted, and a new countertop will be installed. The base cost for this work is $11,150.00, including labor and materials. [Attachment 2]

Three door options are available, affecting the total project cost:

- 3068 Double French Door (3 feet wide): **$12,425.00** total.
- 3068 Pocket Door (requires additional wall demolition): **$13,600.00** total.
- 6068 Double French Door (6 ft wide, requires addtl. wall cutting): **$14,400.00 total**.

This estimate assumes no mechanicals are present in the wall where the door will be installed. If any are discovered, work will be paused for evaluation.

HVAC Ventilation for Laser Engravers

Initially, it was believed that the two laser engravers required direct exhaust through the exterior wall. However, after consulting HVAC specialists and reviewing manufacturer recommendations, it was determined that the engravers' fume extractors sufficiently

clean the air, making external venting optional. To prevent heat buildup, the preferred solution is to exhaust the air through the attic using dormers and fixed louvers.

Option 1: Exterior Wall Venting

HMC's original estimate for cutting into the exterior wall and installing two vents is **$8,170.00**. [Attachment 3]

Option 2: Attic Venting

CPS provided an estimate of **$4,504.00** to install two 6-inch spiral pipe runs from the engravers to the attic, securing all ductwork and connecting the exhaust system. [Attachment 4]

Walker Mechanical provided an estimate of **$3,625.00** for attic venting, which includes sheet metal ducting and sealing all seams with mastic. The company also noted that the manufacturer does not recommend adding an exhaust fan to the system. [Attachment 5]

Vent to Atmosphere Kit: **$590** ($295 per kit)

Pending estimates from HMC, CPS, and Walker Mechanical will provide further pricing details for both attic and exterior venting options. The attic exhaust method is currently the preferred solution due to its lower cost and reduced structural impact.

Electrical Upgrades by AES

AES has provided an estimate of **$18,050.00** for electrical work in the Innovation Lab and adjacent Mac Lab. This includes upgrading the electrical panel, installing ten dedicated circuits for 3D printers, adding receptacles for laser engravers, and installing five circuits to support 30 computers in the Mac Lab. The estimate includes electrical permits and inspections but does not cover waste disposal, third-party equipment testing, or painting and patching after electrical work. [Attachment 6]

Painting by APS

All painting work will be handled in-house by the school's maintenance team. This includes patching and painting areas affected by cabinet relocation, wall repairs, and any necessary touch-ups following electrical and HVAC installations. Painting will be scheduled after construction and electrical work are completed.

Conclusion

The Innovation Lab project involves multiple phases of construction, HVAC modifications, electrical upgrades, and in-house painting. The preferred HVAC solution is to vent the engraver exhaust through the attic, and the school will handle painting internally to reduce costs. Any unforeseen conditions, such as potential asbestos-containing materials or flooring gaps, will be addressed appropriately during construction.

This report provides a comprehensive overview of the planned work and estimated costs, ensuring all aspects of the project are accounted for as the Innovation Lab transformation moves forward.