

Contact: John Nash

REGISTER OF IOWA STATE UNIVERSITY
CAPITAL IMPROVEMENT BUSINESS TRANSACTIONS

Actions Requested: Recommend the Board approve the:

1. Schematic Designs, Project Descriptions and Budgets for the:
 - **Veterinary Medicine-Veterinary Diagnostic Laboratory** (\$75,000,000) project with the understanding that approval is authorization to proceed with construction.

Executive Summary: Project would construct the new two-story, stand-alone 72,540 square foot Veterinary Diagnostic Laboratory (VDL) on ISU's College of Veterinary Medicine campus. The project budget of \$75,000,000 would be funded by \$63,500,000 in state appropriations, \$4,000,000 in Private Gifts and \$7,500,000 in University Funds.



Schematic Design: looking west

Background: This project would provide a new building to relocate the front-end of the VDL and associated functions from the existing College of Veterinary Medicine facility, that present the greatest biosecurity and biohazard risks. This includes the VDL Client Entrance, Case Receiving, the Bacteriology, Pathology/Necropsy, and Histopathology laboratory sections, Mailroom & Sample Receiving, Sample Processing, Shared Lab Functions (i.e. glassware, media preparation, supply storage, waste disposal, laundry, & cold sample storage), required building support spaces and necessary common areas.

This facility would house approximately 40% of VDL's current faculty and staff and provide approximately 50% of the total space necessary to house the entirety of VDL's diagnostic service, teaching and research functions.

Staying in the existing College of Veterinary Medicine: VDL's Molecular Diagnostics, Serology, Virology, Analytical Chemistry (Toxicology, Nutrition, & Pharmacology), Bioinformatics, BSL-3 Diagnostics, Research and Development, Quality Assurance, Information Technology and administrative offices would remain in the existing College of Veterinary Medicine facility.

Project Summary

	<u>Amount</u>	<u>Date</u>	<u>Board Action</u>
Permission to Proceed with Project Planning		Sep. 2018	Approved
Use of Alternative Delivery Methods		Sep. 2018	Approved
Design Build-Bridging Professional Selection			
➤ Invision Architecture, Des Moines		Jan. 2019	Not Required*
Design Build-Bridging Professional Agreement			
➤ Prelim. Planning, Prog. & Schematic Design	\$ 600,000	Jan. 2019	Not Required*
Design Build-Bridging Professional Amendment #1			
➤ Add'l Services: Site Planning for Future Phase	1,347,322	Aug. 2019	Not Required*
Design Build-Bridging Professional Amendment #2			
➤ All remaining Design Build-Bridging Services			
➤ 90% of Schematic Design of Future Expansion	3,360,965	Mar. 2020	Not Required*
Program Statement		Feb. 2020	Not Required*
Schematic Design		Apr. 2020	Requested
Project Description and Budget	\$75,000,000	Apr. 2020	Requested

* Approved by Executive Director, consistent with Board policy.

Project Budget

Planning, Design & Management	\$ 9,276,360
Construction	57,142,860
Furniture & Equipment	6,442,200
Contingency	2,138,580
Total	\$ 75,000,000

Source of Funds

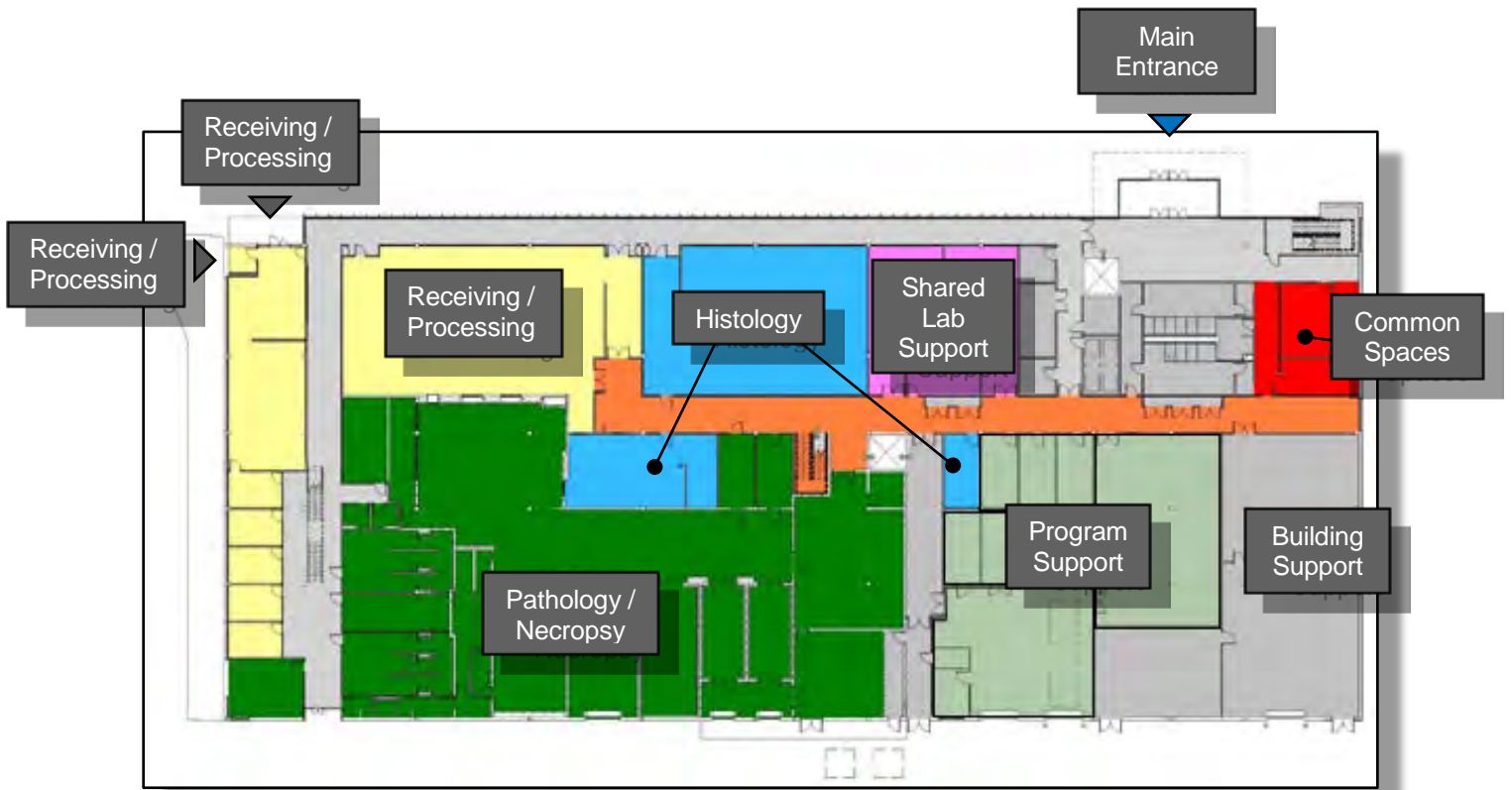
\$ 63,500,000 = State Appropriations
4,000,000 = Private Gifts
<u>7,500,000 = University Funds</u>
\$ 75,000,000 = Total



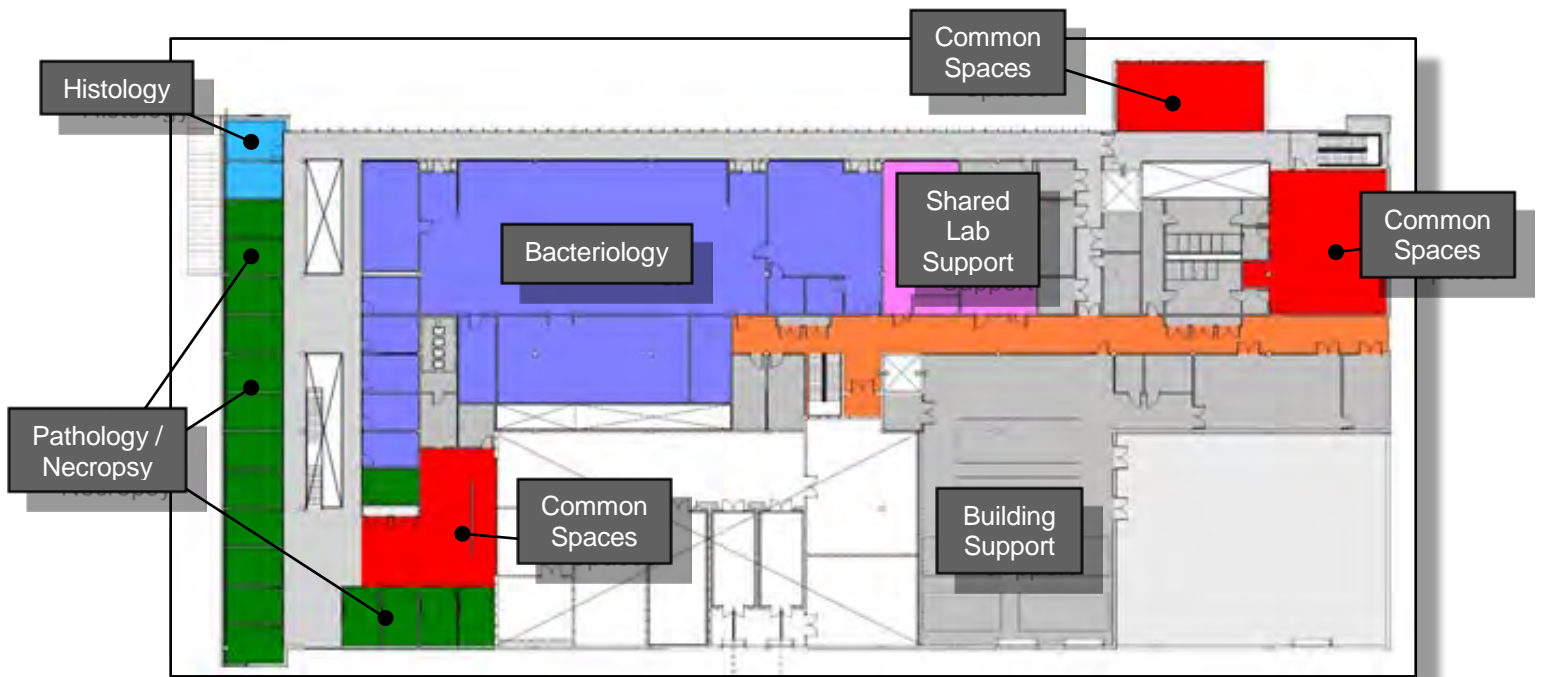
Schedule

Design Build team RFQ/RFP: May 2020
Construction: Late 2020 – Spring 2023

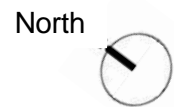
Schematic Design: site plan, looking west



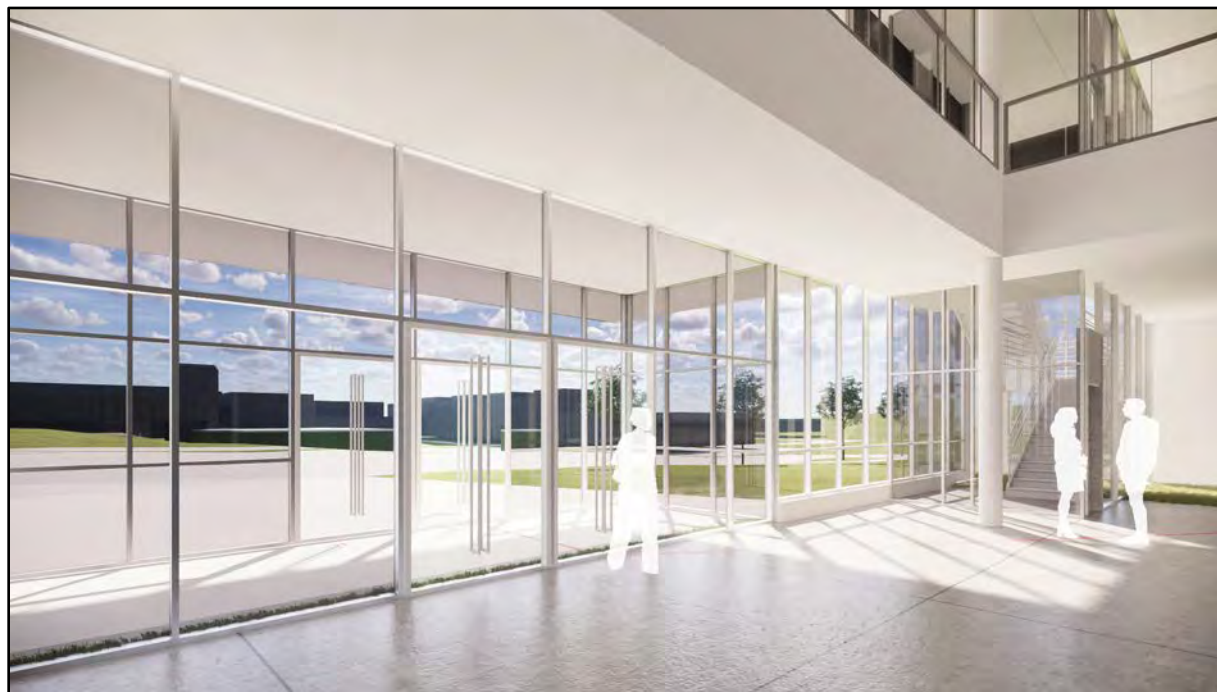
first floor plan



second floor plan



This new two-story VDL would serve the diagnostic medicine needs of Iowa's livestock and poultry industries, pets and wildlife, and protect human health and Iowa's economy. The new facility would address the most urgent space requirements for the laboratory, improve biocontainment, and enhance biosafety standards to protect employee and student health, as they work to process over 90,000 cases each year.



Schematic Design: main east entrance, looking southeast

Building design strategies would introduce daylight and borrowed light into interior spaces. Interior and exterior glazing shall be provided wherever possible within the building to promote safety, communication, daylighting, exterior views, along with a general sense of openness and visual connectivity.

Security is an important design element that begins at site entry and would carry through the new facility. The separation of sample delivery and disposal traffic from visitor, service, and delivery vehicles influenced building siting and planning. The VDL would have a hard demarcation between laboratory and non-laboratory space, maximizing both biosafety and biosecurity within the building. This separation would ensure the safety and comfort of the facility's visitors and employees.



Schematic Design: second floor conference room, looking northeast

Flexible lab layout concepts would allow the laboratory spaces to quickly adapt to changing user needs and research goals. The open lab concept provides larger open lab spaces that are not constrained by walls and doors, and can be configured in a variety of ways based on need.



Schematic Design: second floor laboratory, looking north

Planning studies were conducted to evaluate alternatives. Addition and renovation concepts that utilized and expanded existing space were evaluated. These options considered phased construction and renovation, which raised several critical issues. The ability to maintain biocontainment separation from the other College of Veterinary Medicine areas in the existing complex would be difficult, and effective and efficient operational continuity would be compromised. With these constraints and concerns, the best long-term option is a new, stand-alone facility.



Schematic Design: second floor's north atrium, looking west

As the current funding would not allow for all VDL sections and program to relocate to the new building, the site and design does allow for a future building addition to this new facility.