

Seasonal Frost Test Facility

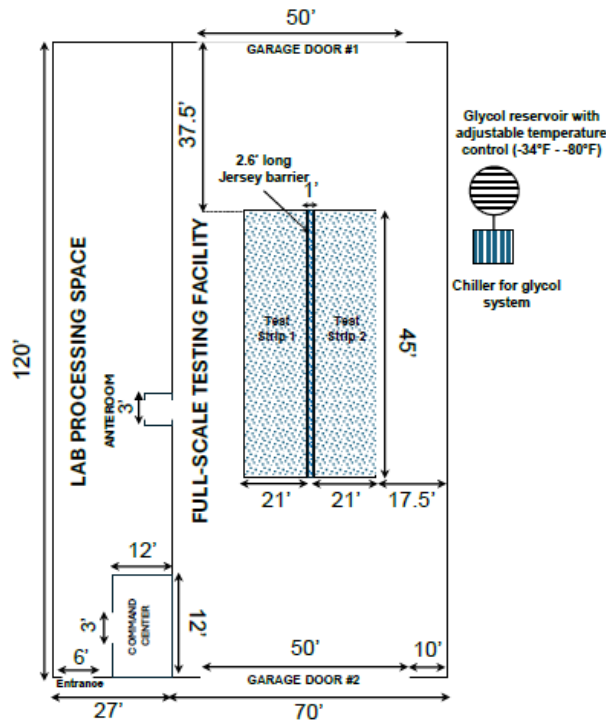


Figure 1: PROPOSED FLOOR PLAN

Location: West Campus– Mullica Hill, NJ
Status: Design
Forecast Project Delivery: Design – March 2026 TBD - Construction
Development Cost: \$30 million
Design Consultants: Erdy McHenry Architecture
General Contactor: TBD
Project Planning & Development: Division of Facilities, Planning & Operations and CREATES
*Prioritization Category: Categories 1, 5 & 6

Description

Rowan’s Center for Research & Education in Advanced Transportation Engineering Systems (CREATES) has been awarded a \$30 million grant from the Army Corps of Engineers to design and construct a Seasonal Frost Test Facility to evaluate the field performance of different pavement structures at extremely low temperatures and develop innovative construction technologies and materials to withstand fluctuating temperatures and surface conditions in cold regions.

This state-of-the-art facility will allow CREATES and Rowan University to achieve the following research goals:

- Develop innovative construction and building materials for the Arctic and subarctic regions.
- Develop pavements that are resilient and more capable of sustaining excessive deformations occurring in these cold regions due to seasonal frost thawing and loss of land, stability; and,
- Study the effects of pavement construction on the underlying permafrost.

*Projects are guided by the University of the Future Priorities in the following categories:

1. Classrooms and Laboratories
2. Student Housing Needs
3. Space for New Faculty and Staff
4. Deferred Maintenance & Modernization
5. Internal and External Collaboration Spaces
6. Advance Academic Mission