



LABORATORIES FOR THE
UNIVERSITY OF PENNSYLVANIA:

**CLINICAL RESEARCH
BUILDING, SCHOOL OF
MEDICINE
AND
THE ROY AND DIANA VAGELOS
LABORATORIES
OF THE INSTITUTE FOR
ADVANCED SCIENCE AND
TECHNOLOGY**

*Architects: Payette Associates, Inc. in
association with Venturi, Scott Brown
and Associates, Inc.*

Location: Philadelphia, PA

Client: University of Pennsylvania

Construction Cost: \$43,400,000; \$40,000,000

- *CRB: 205,000 sf; \$43,400,000; 1990*
- *Vagelos: 110,053 sf; \$40,000,000; 1997*



The Roy and Diana Vagelos Laboratories of the Institute for Advanced Science and Technology are used jointly by Penn's Departments of Chemistry, Bioengineering, and Chemical Engineering. These laboratories, in combination with additions and renovations to adjacent engineering and chemistry facilities, establish the Institute for Advanced Science and Technology. The Phase I building attaches to the existing Chemistry Building. Its controlled environment fully supports the utilities and services required for advanced technologies and expanding computer application demands. The infrastructure of the facility adapts to fast-changing technologies via a modular lab-planning format for adaptation of services, systems, and equipment. This spatial and mechanical flexibility creates a setting for concentration and communication. Other special features include increased laboratory hood capacity, vibration control, stray field interference control, and clean room environments.

Views of Vagelos



Vagelos lab exterior, office, & lounge



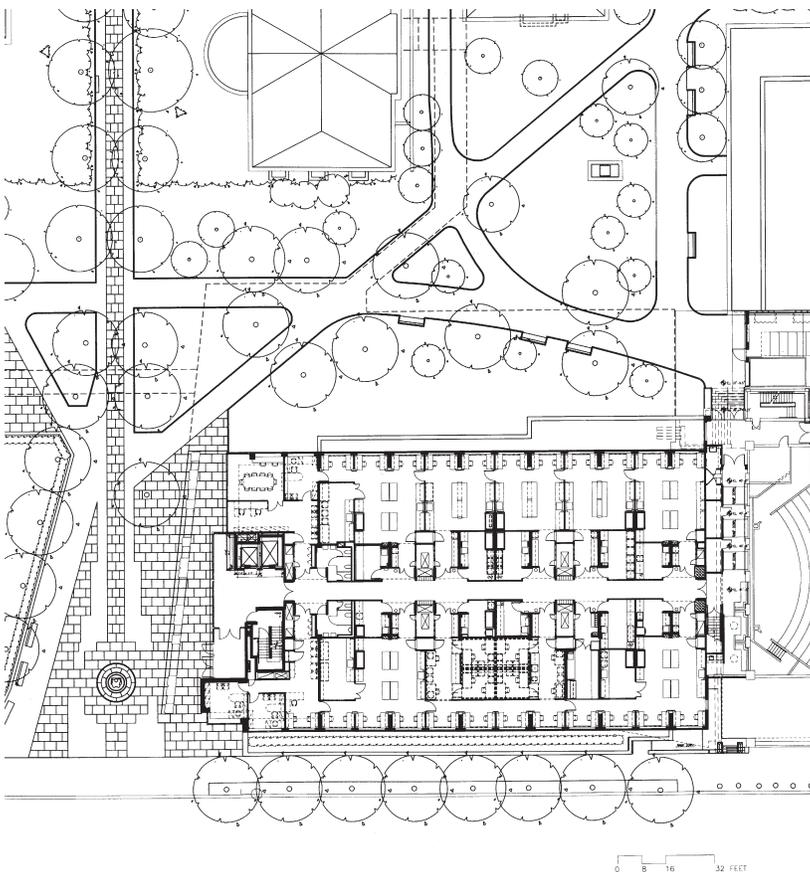
The School of Medicine's **Clinical Research Building (CRB)** was one of the first projects designed for the University of Pennsylvania new Health Center. It contains wet-lab research space for nine clinical departments and research groups in the School of Medicine, including Interdisciplinary Cancer Research, the Howard Hughes Medical Institute, Brain Research, Medicine and Dermatology. The CRB's combination of open and closed labs promotes spatial variety and optimal use of available space. This flexible combination has been economical to construct, to operate, and to reconfigure for new research projects. The building's organization -- repetitive elements along a central hallway -- concentrates human activity at the periphery to take advantage of natural light and exterior views.

VSBA and associated firm Payette Associates strove to connect the CRB both physically and visually to the Penn campus and Medical School. Physically, the CRB links to existing teaching, clinical and research facilities via bridges across an access drive. Visually, we distinguished the façade with patterned cast stone, brick surrounds, and a granite base corresponding to older campus buildings. Repetitive exterior elements such as bricks and windows were expanded in size to reduce the building's scale, to provide a more human dimension when perceived at a distance. A giant rendering of Penn's trademark shield crowns the southern end of the building and identifies it from a distance.

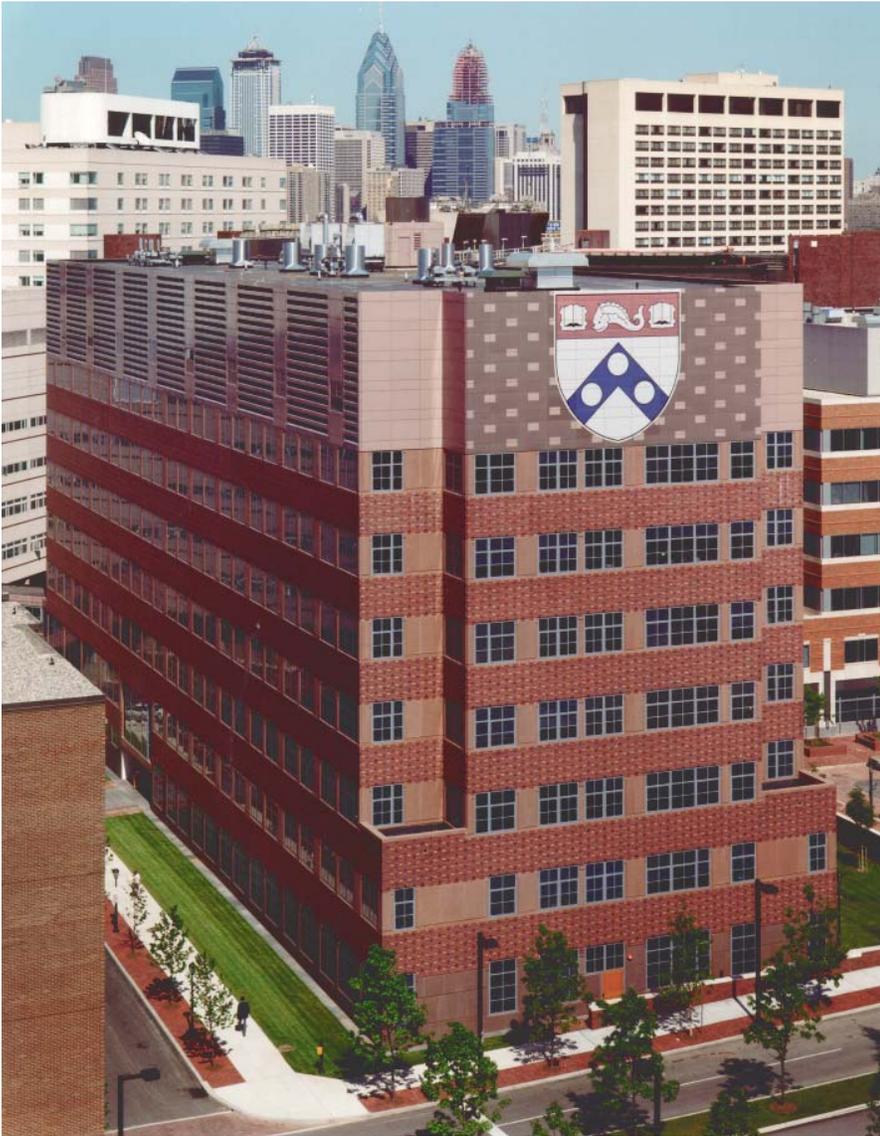
For each of these projects, VSBA served as consulting architects to Payette Associates, responsible for design, documentation, and construction administration for the exterior skin and site work.

Awards:

Brick in Architecture Award, Brick Industry Association and The American Institute of Architects (Vagelos), 1999



Ground level plan



Exterior and details of the entrance & elevation



Clinical Research Building lab bench and lounge