

Claude Moore Medical Education Building

Handley McDonald | Structural Option

www.personal.psu.edu/hpm5009



OWNER: UNIVERSITY OF VIRGINIA
ARCHITECT: CO, WITH TRAIN & PARTNER
CONTRACTOR AND CM: BARTON MALOW
STRUCTURAL ENGINEER: NOLEN FRISA ASS.
MEP ENGINEER: BARD, RAO, & ATHANAS

BUSINESS AND LABORATORY OCCUPANCY
58,000 SQ. FT.
\$40 MILLION TOTAL COST
6 STORIES
CONSTRUCTION START: WINTER 2007
CONSTRUCTION END: FALL 2010

ARCHITECTURE

- Centralizes the University Health Program
- Focuses on large, circular section where learning center and lecture hall are located

MECHANICAL

- 4 Air handling units located on penthouse floor
- Variable air volume system
- All units equipped with heating/cooling coils

LIGHTING/ELECTRICAL

- 624KVA total load on building
- Shares connection to adjacent building MR5
- Lighting solutions mainly fluorescent



STRUCTURE

- Steel Frame structure, with no typical bay size
- Several transfer girders to account for irregularity
- Steel moment frame, braced frame, and CMU shear walls for lateral resistance
- Concrete drilled pier foundation

CONSTRUCTION

- Traditional design-bid-build delivery method
- Contractor selected based 50% on price, and 50% on technical expertise
- University now uses Penn State BIM template

