

Emily Couric Clinical Cancer Center

Charlottesville, VA

University of Virginia

Project Team:

OWNER: University of Virginia
CM: Gilbane Building Co.
ARCHITECT: Zimmer-Gunsul-Frasca Architects, LLC
MEP ENGINEERS: AEI
SURVEYING ENGINEERS: Hurt & Proffitt
STRUCTURAL ENGINEERS: Robert Silman Associates, PLLC
CONSULTANTS: Shirmer
TESTING AGENCY: Schnabel



Building Statistics:

FUNCTION: Out Patient Diagnostic and Treatment Center
SIZE: 153,104 SF
STORIES: 6
CONSTRUCTION: Apr. 2008 – Dec. 2010
COST: \$74 Million
DELIVERY METHOD: Design-Bid-Build

Architecture:

DESIGN: Consolidate existing services into one building
ROOM TYPES: Exam, 3 Linear Accelerator, Offices, Radiation/Oncology, Café, Access HUB, Phlebotomy
LOBBY: Large entry lobby 2 stories
EXPANSION: Entire fourth floor

Building Envelope:

WALLS: Mostly Brick Veneer with a large Curtain Wall
ROOF: Main roof, EPDM single-ply roof membrane system with a white acrylic coating. Roof garden exists with similar materials



Lighting/Electrical:

480/277 Volts distributed throughout the building
23 Local transformers step from 480 to 208/120 V
83 panel boards located throughout the building
65 different light fixtures
Lighting uses 277 Volts
Recessed and suspended mounted fixtures with mostly fluorescent lights

Structural:

FOUNDATION: Spread footings for support columns
FRAMING: Structural Steel, Columns varying from W10x33 to W14x159
CONCRETE SLAB: 3" GA composite deck with 3.5" L.W. concrete and WWF 6x6 W2.9xW2.9
LIVE LOAD: Average is 100 PSF to include partitions

Mechanical:

SYSTEM: All-air with a local reheat unit in each room
4 MAIN AHUs: each supply 45,000 CFM, 529 MBH heating capacity, 2,390 MBH cooling capacity located in the penthouse
288 AIR TERMINAL UNITS: Varying from 70-1790 CFM, 1994-92108 Btuh Heating Coil Capacity

Brittany Muth

2010 Construction Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2010/bnm5016/index.html>