University of Delaware Center For The Arts Newark, DE

Project:

Owner: University of Delaware Architect: Ayers / Saint / Gross

CM: Whiting Turner

MEP Engineer: Mueller Associates

Structural Engineer: McLaren Engineering Group

Civil Engineer: Tetra Tech

Acoustical Consultant: Kirkegaard

Structural:

Concrete Spread Footings and 5" concrete slab on grade

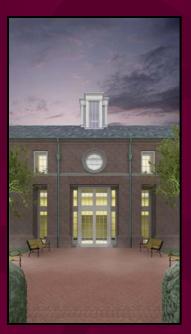
2" isolation joint at performance space walls

Steel columns at lobby and seating support

Rectangular concrete columns at typical interstitial spaces

Concrete slabs floor construction supported by concrete walls or steel beams

Concrete roof slab on metal deck supported by steel structure



Building Description:

Performing arts center which in includes a proscenium theatre, recital hall, music rehearsal hall, theatre rehearsal room, practice rooms and administrative offices.

Mechanical:

Steam Heating and Chilled Water cooling provided via campus central distribution systems

6 AHU's located on 2nd level

Gas-fired steam generator to provide year round humidity control

Electrical:

Supply: 1600A, 480Y/277V, 3PH, 4W

Transformers: (13) 480V Delta to 208Y/120V, 3PH, 4W

Emergency Generator located in adjacent parking garage



Construction:

Size: 92000 SF

Stories: 2 Above Grade

Delivery Method: Design-Bid-Build

Total Cost: \$36.2 Million

Construction: June 2004 – May 2006



Karen Schulte

Mechanical Option

http://www.arche.psu.edu/thesis/eportfolio/current/portfolios/kes242/