

JOHN PAUL JONES ARENA

295 MASSIE ROAD
CHARLOTTESVILLE, VA 22903



PROJECT FEATURES

TOTAL COST: \$129.8 MILLION
SIZE: 365,916 SQ. FT.
FUNCTION: ARENA & PERFORMANCE
OCCUPANCY: ASSEMBLY, A-3
LEVELS: 3 ABOVE GRADE
DURATION: 5.30.2003 - 8.1.2006
METHOD: DESIGN-BID-BUILD

ARCHITECTURE

- GLAZED ALUMINUM CURTAIN WALL SYSTEM
- 4" WOOD MOULDED OLD VIRGINIA STYLE RED BRICKS
- FULLY ADHERED EPDM ROOFING ON 3" RIGID INSULATION
- COLONNADE FACADE ECHOES TRADITIONAL STYLE OF CAMPUS BUILDINGS

STRUCTURAL

- 4000 PSI SPREAD FOOTINGS & FOUNDATION WALL
- CAST-IN PLACE ONEWAY CONCRETE SLABS
- CONCRETE MOMENT RESISTANT FRAME
- SLAB ON GRADE POUR UNDER COURT FLOOR
- LONGSPAN CUSTOM STEEL TRUSS ROOFING SYSTEM

ELECTRICAL

- (2) 12.47 KVA PRIMARY ELECTRIC SERVICE CONNECTIONS WITH 2 FUTURE SPACES
- (5) MAIN TRANSFORMERS (2000-2500 KVA) SPLITTING MAIN POWER
- 2000 KW EMERGENCY GENERATOR
- 15 KV PADMOUNTED SWITCH-GEAR (600A, 25000 AIC)

MECHANICAL

- (18) AIRPAK AHU'S, AIRFOIL FAN TYPE WITH HEATING HOT WATER PREHEAT COIL
- (3) 3600 GPM CHILLED WATER LOOP COOLING TOWERS
- (21) 900 TO 2500 CFM TRANE BLOWER COIL UNITS
- (4) FLEXIBLE, NATURAL GAS WATER TUBE BOILERS

PROJECT TEAM

OWNER: THE UNIVERSITY OF VIRGINIA
ARCHITECT: VMDO ARCHITECTS P.C.
ASSOC. ARCHITECT: ELLERBE BECKET
MEP ENGINEER: ELLERBE BECKET
STRUCTURAL ENGINEER: ELLERBE BECKET
CIVIL ENGINEER: PATTON HARRIS RUST & ASSOC. P.C.
GENERAL CONTRACTOR: BARTON MALLOW



LOGAN BROWN
LIGHTING / ELECTRICAL OPTION

[HTTP://WWW.ENGR.PSU.EDU/AE/THESIS/PORTFOLIOS/2009/LWB117](http://www.engr.psu.edu/ae/thesis/portfolios/2009/LWB117)