



DURHAM, NORTH CAROLINA

BUILDING STATISTICS

SIZE: 59,610 SF
LEVELS: 3 & 1 BASEMENT
CONSTRUCTION DATES: 3/2005-8/2006
BUILDING COST: \$14.7M
DELIVERY METHOD: DESIGN-BUILD

DESIGN TEAM

OWNER: DUKE UNIVERSITY MEDICAL SCHOOL
ARCHITECT: AYER/SAINT/GROSS ARCHITECTS
MEP ENGINEERING: MUELLER ASSOCIATES, INC.
STRUCTURAL & CIVIL: STEWART ENGINEERING ENGINEERING
LANDSCAPE ARCHITECT: MICHAEL VERGASON LANDSCAPE ARCHITECTS
ACOUSTICAL CONSULTANT: SHEN MILSOM & WILKE, INC.

LIGHTING

PREDOMINATELY 277V LINEAR FLOURESCENTS AND COMPACT FLOURESCENTS USED THROUGHOUT THE BUILDING FOR REDUCED ENERGY CONSUMPTION

DAYLIGHT INTEGRATION AND CONTROLS UTILIZED THROUGHOUT BUILDING WHERE APPLICABLE

DOUBLE HIGH CAFE HAS FULL HEIGHT GLASS CURTAIN WALLS ON ALL THREE EXTERIOR SIDES

ARCHITECTURE

THE GOTHIC STYLE "DUKE" TOWER AND DUKE LIMESTONE WERE INCORPORATED INTO THE DESIGN

DOUBLE HIGH ENTRY TOWER VESTIBULE

WOODEN GOTHIC ARCHES INCORPORATED INTO THE DOUBLE HIGH CAFE DUSON LOUNGE

ELECTRICAL

12.47KV CAMPUS FED SERVICE LINE DITRIBUTED BY 408Y/277V AND 208Y/120V TRANSFORMERS

1000KVA SERVICE ENTRANCE TRANSFORMER

EMERGENCY POWER FED FROM AN EXISTING 350KW, 480Y/277V DIESEL ENGINE GENERATOR SET

MECHANICAL

235 TON AIR-COOLED CHILLER PROVIDES CHILLED WATER TO VAV AIR HANDLING BOXES

STRUCTURAL

STRUCTURAL STEEL FRAMING SYSTEM

6-IN TO 4-IN SLAB ON GRADE WITH CONCRETE SPREAD FOOTINGS AND CONTINUOUS STRIP FOOTINGS

COMBINATION OF PRECAST CONCRETE PANELS AND LIMESTONE USED FOR EXTERIOR FACADE