Boston University Arena and Recreation Center
Boston, MA

Structural

Spread footing foundations;
Pile and lagging earth retention system around site due to close proximity of existing structures.
Cast in place concrete perimeter walls approx. 3 levels below grade.
Arena LL2 floor post-tensioned slab, all other floors slab on metal deck.
Steel columns and beams, as well as roof trusses in Arena

Lighting/Electrical

A wide variety of fluorescent and metal halide lighting fixtures.
13.8kV utility serves 2 Arena substations and 1 Recreation Center substation.
Recreation substation has 2 15kV feeds with step down transformer to 480Y/277V, and a 1600A, 3P, 5W 480Y/277V plug in busway services floors LL2 through UL3.

Mechanical

17 AHUs with total capacity 650,000cfm;
Gas fired pre-heat coils with TUR coils;
and 3 chillers and 3 cooling towers.
Building Automation System to operate all heating/cooling on preset temperatures with the ability to manually change by location.

Project Team

Owner: Trustees of Boston University
Contractor: Barton Malow and Walsh Brothers Sports Partnership
Architect: Cannon Design
Structural Engineering: Cannon Design and LeMessurier Consultants, Inc.
MEP Engineering: Cannon Design
Lighting Consultant: The RETEC Group, Inc.
Civil Engineering: Bryant Associates, Inc.

Special Features

Recreation Center: 18,000sf weight and cardio room, 2 swimming pools, 2 gymnasiums, 1/8 mile elevated jogging track, multipurpose activity/classrooms, and a 35' climbing wall.
Arena: Seating for 6,300, 29 suites and premium seats, ice hockey rink as well as portable basketball floor, exclusive Club Room, and several concession stands.

Project Description

Total Square Footage: 822,000
Levels: 3 below and 3 above grade
Cost: $185,000,000
Dates of Construction: May 2002- April 2005
Project Delivery Method: CM/GMP

Alexis Kreft
Lighting/Electrical Emphasis
http://www.arche.psu.edu/thesis/eportfolio/2007/portfolios/amk316