

Student Recreation Center

Eastern Illinois University
 Charleston, Illinois

Owner: Eastern Illinois University
 Architect: Moorhead Gruber Architects, Inc.
 General Contractor: PK Demars, Inc, Champaign, IL

Range of Services

- ▶ Schematic design; structural planning; structural design of foundation and superstructure
- ▶ Construction administration and observation

Project Overview

This new student recreation facility adjacent to the existing Lantz gymnasium and swimming facility contains a running track, free weight area, free exercise and volleyball, basketball and assorted other exercise within a 280 foot by 162 foot space that is two stories tall (image 1).

The running track is suspended from the roof trusses (image 2). The floor of the running track is a horizontal truss ring that acts as lateral bracing for the tall concrete masonry walls (image 3). Fire protection for the tension rods that support the track is provided by intumescent paint.

The foundation walls are retaining walls that are stabilized by the battered piles (image 4). Three inch deep roof deck spans 10 feet between the roof trusses. The roof deck is acoustical deck for sound absorption and a structural diaphragm. The completed facility is shown in panorama image below.

1

3

2

4



integrating
STRUCTURAL
 design
focused on
 quality