

Back of the Yards High School

2111 W. 47th Street



Building Features

- 212,285 Square Feet
- 3-floors plus lower level
- Steel Frame and Masonry Construction
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities
- Capacity: 1200 Students
- 26 Standard Academic Classrooms
- 5 Computer Labs
- 6 Science Labs
- 2 Visual Arts Classrooms
- 2 Performing Arts Classrooms
- Scene Shop, Dressing Rooms & Green Room
- College Resource Center
- Library/Media Resource Center
- Gymnasium (Two Station)
- 1 Natatorium with 6 Lane Pool
- Multipurpose Room/Athletic Studio
- Fitness/Weight Room
- Administrative Suite
- Nurse and Student Support Service
- Kitchen and Dining Facilities
- State-of-the-art Computer Network
- Central Air Conditioning

Special Provisions

- Designed for **Community Use** on evenings and weekends- separate, independent entrances for both library and the athletic wing as well as dedicated storage and spaces for the Chicago Park District.

Exterior Amenities

- Outdoor Athletic Amenities:
 - Combination Soccer & Football Field with Bleachers
 - Softball Diamond
 - Tennis Courts
- Green and Reflective Roof
- Parking Lot
- Entry Plaza
- Outdoor Reading Garden

Project Development Information

- Design Architect: John Ronan/De Stefano JV
- Architect of Record: STL Architects, Inc.
- General Contractor: Sollitt/Brown & Momen JV
- Original Contract Value: \$63,822,440

Economic Sustainability Program

- Bid incentives for the employment of Women and Minorities
- Bid incentives for the employment of Apprentices
- City Residency Labor Requirement
- Community Hiring Requirement
- Local Business Requirement
- M/WBE Business Commitment: 28% minimum

BACK OF THE YARDS HIGH SCHOOL

ENVIRONMENTALLY FRIENDLY OR “GREEN” ELEMENTS



The new Back of the Yards High School was designed to achieve a Silver rating under the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) for Schools Rating System.

Green buildings are designed, constructed and maintained in an environmentally sustainable way. Some of the green elements that are part of this high school are outlined below.

Sustainable Sites

These features take into account the location and placement of the building, and its impact on and relationship with the environment around it.

- The building was constructed on a previously developed site, and within ½ mile of a residential zone and more than 10 basic services (neighborhood amenities).
- The school is well served by public transportation, as it is located within ¼ mile of two CTA bus lines and within ½ mile of an Orange Line stop.
- Alternative transportation is encouraged through the addition of bike racks, preferred parking for low-emitting and fuel efficient vehicles and carpool vehicles and a designated carpool drop-off.
- Both the roof and selected site materials have a high degree of reflectivity, which contribute less to the urban heat island effect on and around the building. Lower summer temperatures around the building translate into less energy required to cool it.
- Over 53% of the roof surface will be vegetated (green).
- The green roof, landscaped areas, pervious pavement and playing fields increase the overall perviousness of the site and help manage stormwater.

Water Efficiency

Efforts were made to conserve water in and around the building.

- Landscape plantings include adaptive and native species, which require less water. Irrigation is provided only during plant establishment.
- Low flow plumbing fixtures and sensor sinks will reduce building water usage by over 40%.

Energy & Atmosphere

Green buildings reduce the amount of energy used by the building, and may make use of renewable energy.

- Energy-using systems, along with the building envelope (exterior walls and roof), are expected to result in energy performance at least 16% better than facilities of similar size and use.
- The efficient lighting systems utilize occupancy sensors and “harvest” available daylight.
- Enhanced commissioning of the building's energy-using systems will ensure they are installed and perform as designed, and that the operations and maintenance staff are well trained.

Materials & Resources

Materials selection is mindful of recycled content, and regional manufacturing, to reduce use of energy to bring the materials to the site and to reduce raw material consumption.

- At least 75% of waste from construction will be recycled.
- This school will contain at least 20% recycled content materials.
- More than 20% of the materials used for this building will be manufactured within 500 miles of the project site.
- More than 50% of the wood used in this building will come from sustainably managed forests certified by the Forest Stewardship Council (FSC).

Indoor Environmental Quality

Green buildings are designed to establish good indoor air quality for workers during construction and for the end users of the completed building. Environmental quality in terms of access to daylight and views are also considered.

- This building provides excellent indoor environmental quality for students, faculty and staff.
- Care will be taken to ensure contaminants were kept out of the building during construction, with an air quality plan, and through the selection of materials that emit less fumes. A full building flush-out was performed at the end of construction.
- Ongoing air quality is maintained through the use of green cleaning products.
- The school was designed to provide daylight to 75% of the classroom areas and outdoor views for 90% of occupants.

