

Langston Hughes Elementary School

240 W. 104th Street



Building Features

- 103,000 Square Feet
- Single story Steel Frame and Masonry Construction
- Capacity:
 - Planned Capacity: 870
- 10 Pre-Kindergarten and Kindergarten Classrooms
- 19 Standard Academic Classrooms
- 1 Science Lab
- 1 Music Classroom
- 1 Art Classroom
- Gymnasium
- Kitchen and Dining Facilities
- Library/ Media Resource Center
- Administrative Suite
- Nurse and Student Support Services

Exterior Amenities

- 2 Green Roofs
- 71 Parking Spaces (8 Accessible)
- 2 Playgrounds
- Walking Paths and Play Fields
- Bus Drop Off Area
- Accessible Softball Field

Special Features for Special Needs Students

- Snoezelen Classroom for Multi-sensory Stimulation
- Discovery Classroom for Interactive Therapy and Motor Development
- Accessible Discovery Garden Courtyard
- Wheelchair and Mobilization Device Storage
- Sensory Guides and Tools
- Multi-disciplinary/Therapy and Conference Rooms
- Accessible Exterior Athletic Amenities

Project Development Information

- Design Architect: SMNG-A
- Architect of Record: SMNG-A
- General Contractor: Sollitt/Oakley Joint Venture
- Original Contract Value: \$30,220,000.00

Economic Sustainability Program

- MBE Business Commitment: 40.92%
- WBE Business Commitment: 18.63%
- City Residency Labor Requirements: 50% of Project Labor

LANGSTON HUGHES ELEMENTARY SCHOOL

ENVIRONMENTALLY FRIENDLY OR "GREEN" ELEMENTS



The new Langston Hughes Elementary School was designed to achieve a Silver rating under the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) for New Construction Rating System.

Green buildings are designed, constructed and maintained in an environmentally sustainable way. Some of the green elements that are part of this elementary 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 over 10 basic services (neighborhood amenities).
- The elementary school is well served by public transportation, as it is located within ¼ mile of one bus line which provides a connection to a CTA station and 3 more bus lines, all within ½ mile.
- Alternative transportation is encouraged through the addition of bike racks, preferred parking for low-emitting and fuel-efficient vehicles and carpool vehicles.
- The roof has a high degree of reflectivity, which contributes less to the urban heat island effect around the building. Lower summer temperatures on and around the building translate into less energy required to cool it.
- 10% of the roof surface is vegetated.
- A discovery garden provides students a connection with nature.

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 for plant establishment.
- Captured stormwater is stored in a cistern and may be used to water the discovery garden.
- The school has exemplary water efficiency, with building water usage reduced over 36%.

Energy & Atmosphere

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

- Energy-using systems perform 21% better than facilities of similar size.
- Efficient lighting systems utilize available daylight.
- Enhanced commissioning will ensure the energy-using systems 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.

- This school is constructed with more than 30% recycled materials.
- Over 45% of the materials used for this building were manufactured within 500 miles of the project site.
- More than 58% of the wood used in this building came from sustainably managed forests certified by the Forest Stewardship Council (FSC).

Indoor Environmental Quality

Green buildings are designed to ensure 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. It employs the use of a displacement air system.
- Care was 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.
- Ongoing air quality will be maintained through the use of green cleaning products.
- The school was designed to provide daylight to more than 75% of the regularly occupied spaces, and views to more than 90% of the spaces
- Individual lighting controls are provided for over 90% of occupants

