

# Dr. Jorge Prieto Math and Science Academy

2231 N. Central Avenue



## Building Features

- 106,218 Square Feet
- 3-story Steel Frame and Masonry Construction
- Capacity:
  - Planned Capacity: 900
- 6 Pre-K/Kindergarten Classrooms
- 24 Standard Academic Classrooms
- 2 Multipurpose Rooms
- 1 Computer Lab
- 1 Science Lab
- 1 Music Classroom
- 1 Art Classroom
- Gymnasium and Stage
- Kitchen and Dining Facilities
- Library/Media Resource Center
- Administrative Suite
- Nurse and Student Support Service
- State-of-the-art Computer Network
- Central Air Conditioning
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities

## Exterior Amenities

- 218-space parking lot shared with Hanson Park Stadium
- 25% Green Roof

## Project Development Information

- Design Architect: SMNG-A
- Architect of Record: STL Architects
- General Contractor: Sollitt/Brown and Momen JV
- Original Contract Value: \$27,082,000.00

## Economic Sustainability Program

- MBE Business Commitment: 36.69%
- WBE Business Commitment: 5.25%
- City Residency Labor Requirements: 50% of Project Labor

# DR. JORGE PRIETO MATH AND SCIENCE ACADEMY

## ENVIRONMENTALLY FRIENDLY OR "GREEN" ELEMENTS



The new Dr. Jorge Prieto Math and Science Academy 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 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 10 basic services (neighborhood amenities).
- The school is well served by public transportation, as it is located within ¼ mile of three CTA bus lines and within ½ mile of one Metra 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.
- 25% of the roof surface is vegetated (green).
- A native landscape, rain garden and pervious pavements 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 reduce building water usage by over 32%.

### Energy & Atmosphere

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

- Energy-using systems are designed to perform 28% better than facilities of similar size and use.
- The efficient lighting systems utilize occupancy sensors and 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.*

- Approximately 95% of waste from construction was recycled.
- This school contains over 30% recycled materials.
- More than 40% of the materials used for this building were manufactured within 500 miles of the project site.
- More than 73% 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 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 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. 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 more than 85% of the classroom areas and outdoor views for 90% of occupants. Library clerestories provide excellent daylight and south windows overlook a green roof.
- Displacement ventilation in classrooms quietly provides fresh air at student heights.

