



Site Development

Educare of West DuPage
West Chicago, Illinois



Educare of West DuPage Looking From Northwest

Construction Cost:

- \$10,000,000

Sitework Cost:

- \$750,000

Project Features:

- 24,000 Square Foot Facility
- LEED Certified
- 4-Acre Site
- 59 Parking Spaces with Parking Sharing Agreement with Pioneer Park
- Engineered Wetland Detention Basin
- Two (2) Rain Gardens
- Intersection Improvements
- Fire Loop
- Innovative Site Design to Save Mature Trees
- Met LEED Stormwater Quality and Quantity



Detention Basin with Curb Flume



Rain Garden Located in the Front of the Building

Engineering Enterprises, Inc. (EEI) provided site planning, civil engineering design and construction documents for the site development of the new Educare of West DuPage located in West Chicago, Illinois.

Educare of West DuPage is a \$10 million, state of the art learning center that will provide high quality early childhood education aimed at narrowing the achievement gap for low-income children in West Chicago, parts of Winfield and unincorporated areas served by School District No. 33.

The Educare facility is seeking to become LEED Certified. EEI is a partner in the drive to achieve this goal by incorporating green features into the site.

- A Storm Water Pollution Prevention Plan (SWPPP) was prepared to control erosion during construction. EEI also provided weekly inspections during construction to ensure that the contractor was following the SWPPP and that there were no problems with the erosion and sedimentation controls.

- Rain gardens were constructed to maintain natural infiltration and remove pollutants from the runoff.
- The parking lot was designed so areas could sheet drain into either a rain garden or the detention basin. This reduced construction cost while removing pollutants from the runoff.
- The detention basin was designed as an engineered wetland with five different native plant communities. This engineered wetland was designed to maximize the pollutant removal ability while providing natural biodiversity to the site. The engineered wetland will attract ducks, frogs, butterflies and dragonflies that can be used to teach the children about nature.

In addition to the green design elements, EEI also provided the design and construction documents for intersection and roadway improvements, public water main and storm sewer improvements and utility services to the new building.