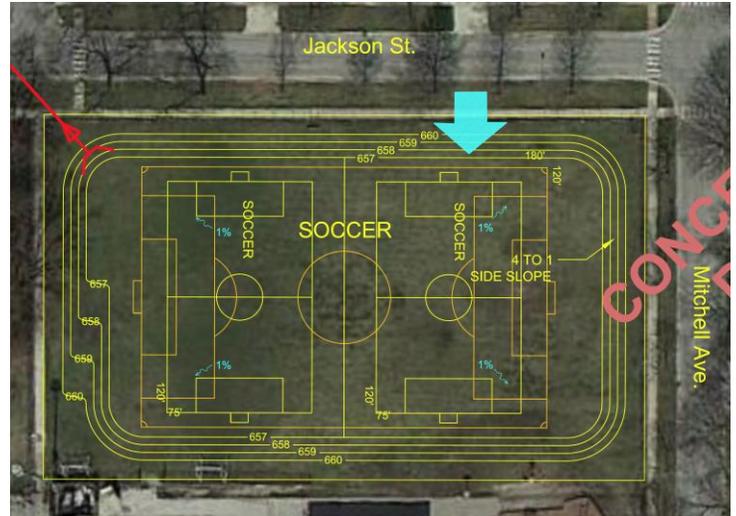


## Jackson Elementary School Project Fact Sheet

### Project Background

Following the widespread flooding that was experienced during the storm events of June and July 2010, and April 2013, Christopher B. Burke Engineering, Ltd. (CBBEL) was hired to develop a comprehensive flood plan for the City of Elmhurst (City). As part of the comprehensive flood plan, thirteen (13) flood-prone areas throughout the City were studied to determine proposed drainage improvements to alleviate the flooding in those areas.

The most cost-effective solution identified to reduce flooding is the creation of flood storage in existing open space within the City. Several open areas identified in the comprehensive flood plan involve property owned by the Elmhurst Community Unit School District 205, including the open space area adjacent to Jackson Elementary School. The creation of flood storage at the Jackson Elementary School site would benefit many homes in the southwest portion of the City.



Conceptual Solution

### Project Details

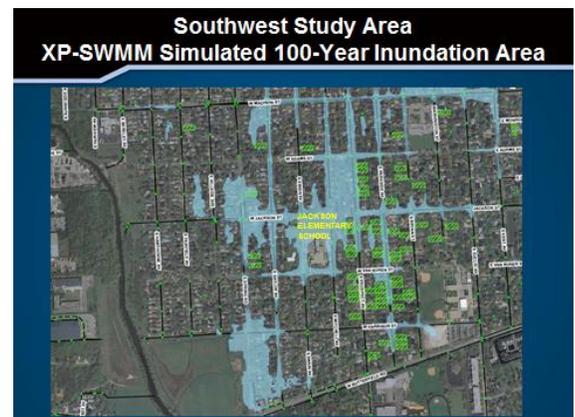
Creating flood storage in the open space area adjacent to Jackson Elementary School would significantly reduce the risk of flooding the Saylor Avenue/Jackson Street flood-prone area in Southwest Elmhurst. The provided flood storage volume can be increased even further if the proposed flood storage area is expanded onto the open space area of the Christ United Methodist Church property, which is adjacent to Jackson Elementary School.

### Key Benefits and Facts

This project would provide flood-reduction benefits to 104 homes in a 100-year design storm event. Approximately 3 acre-feet of flood storage can be provided in the open space of the Jackson Elementary School site. When the project is combined with the open space area of the adjacent Christ United Methodist Church property, a total flood storage volume of 5 acre-feet can be provided. The conceptual project cost is \$0.7 million (includes flood storage on both Jackson Elementary School and Christ United Methodist Church properties) and the construction timeline is estimated at approximately one year.

### Project Description

The goal of this project is to provide a location to safely hold stormwater while maintaining the existing recreational uses of the school site. As seen in the picture at the top, conceptual facility improvement plans were developed with the intent of maintaining the existing soccer fields at the school site.



Inundation Area

To maximize playability of the fields, stormwater would not be diverted into the site unless the street ponding along Jackson Street becomes so severe that it overtops the sidewalk and enters the flood storage area. Less frequent, non-flood causing events would not impact the site, as stormwater would bypass the area. Stormwater would be held temporarily at the site and then drain out by gravity to the existing storm sewer system, with a total inundation period of less than 24 hours.