

## York Community High 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 open spaces throughout 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 areas adjacent to York Community High School. The creation of flood storage in this location would benefit many homes in the adjacent neighborhoods (Collegeview) that experience flooding during significant storm events.



Conceptual Solution

### Project Details

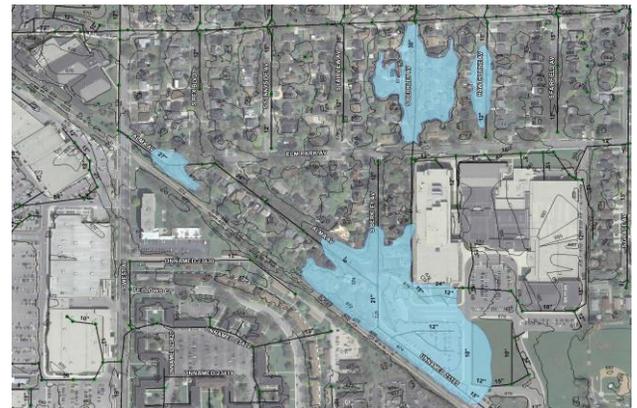
The creation of flood storage in the open space areas adjacent to York Community High School in conjunction with the construction of relief sewers would significantly reduce the risk of flooding for the homes in the Collegeview flood problem area in Elmhurst.

### Key Benefits and Facts

This project would provide flood-reduction benefits to the 17 homes that would currently flood during a 100-year design storm event (17 homes were also shown to be impacted by the April 2013 storm event). The conceptual project cost for the construction of the relief sewer/flood storage is \$3.34 million and the construction timeline is estimated between 12 and 18 months.

### 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. Based on the concept-level drainage improvements shown at the top, conceptual facility improvement plans will be developed with the intent of maintaining the existing soccer field/track and field facilities on these sites.



April 2013 Inundation Area

During significant storm events, pipes would divert water away from the flood-prone areas and convey it into the flood storage areas on the York Community High School property. The facilities would be designed to completely fill for the 100-year design storm event; stormwater would be held temporarily at the site and then drain by gravity to the existing storm sewer system. The total period of inundation would be less than 24 hours. For storm events that exceed a 100-year frequency, an emergency overland flow route will be constructed that passes excess flows to the west. This maintains the current drainage patterns in this area and protects the buildings on the school property from flooding.