City of Elmhurst

SESMP-Phase I: Project Fact Sheet

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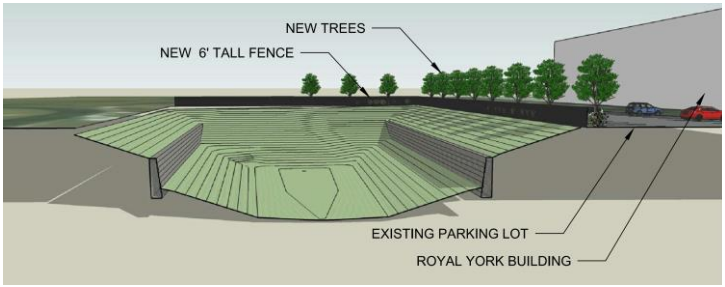
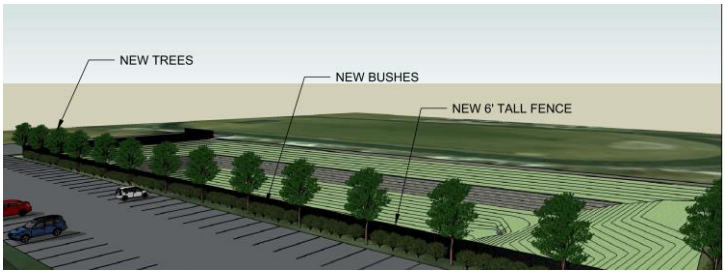
Project Background

Following the widespread flooding that was experienced during the storm events of September 2008, 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. The City purchased property from Messiah Lutheran Church, which is located south of Butterfield Road and west of Euclid Avenue. The goal of this project, which is known as Southwest Elmhurst Stormwater Mitigation Project-Phase I (SESMP-Phase I), is to utilize this land to maximize the created flood storage volume. In conjunction with the SESMP-Phase II project, the project provides flood reduction benefits to over 100 homes in Southwest Elmhurst.





Flood Storage Basin Renderings

Project Details

To maximize the created volume in this location, the proposed facility will be a pump-evacuated facility with a depth of 27 feet and will provide approximately 17 acre-feet of flood storage volume. Because the basin is deeper than the existing storm sewer system, a pump station will also be constructed to dewater the basin following a major storm event. Overflow grates, storm sewer improvements, and diversion structures will be constructed between Jackson Street and Butterfield Road, which will divert stormwater from the flood problem areas to this facility during major storm events.

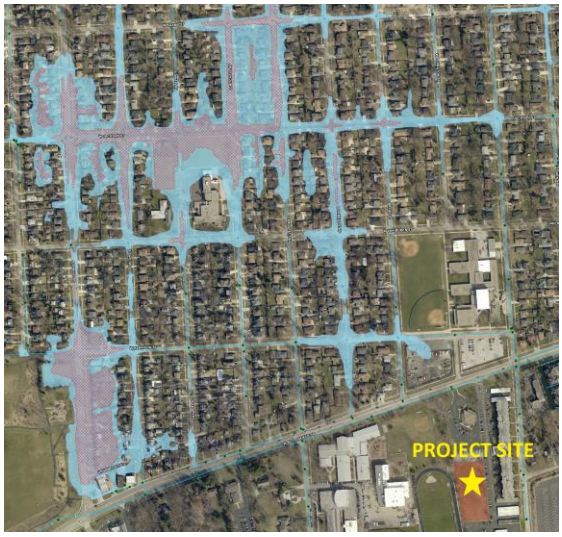
Key Benefits and Facts

In conjunction with SESMP-Phase II, this project would provide flood-reduction benefits to 121 homes in Southwest Elmhurst in a 100-year design storm event. The 100-year flood depths in the Saylor Avenue/Jackson Street flood problem area would be reduced by over one foot, with reductions of approximately 0.6 ft at the Spring Road/Harrison Street flood problem area.

Construction for the SESMP-Phase I Project is anticipated to begin in July 2018 and will be substantially complete by late 2018. The construction contract for this project was recently awarded at a construction cost of approximately $6.0M.

Project Description

The goal of this project is to provide a location to safely hold stormwater that provides the most significant flood-reduction benefits to the flood-prone properties in Southwest Elmhurst. Stormwater will only be diverted into the facility during major storm event. Less frequent, non-flood causing events will continue to drain through the existing storm sewer system and bypass the facility. The basin will be dewatered within 48 hours after a major storm event by using a stormwater pumping station.



Existing/Proposed Conditions
100-Year Inundation Area