

STORMWATER MANAGEMENT MASTER PLAN

CITY OF WOODSTOCK, ILLINOIS



CHALLENGE

Prepare a framework for planning improvements and guidance to establish future stormwater management systems.

The City of Woodstock is located in two major watersheds – the Kishwaukee River headwaters and the Silver Creek/Nippersink Creek/Fox River basin. Local topography requires careful planning of stormwater management to avoid flooding during storms and spring thaws. The City had previously worked with HLR to examine stormwater management for the Silver Creek watershed in the early 1990's. Impending growth and development and a desire to plan for the future required an update and expansion of the plan.

RESULTS

A stormwater management plan that meets the present and future needs of the City and allows for staged implementation of future improvements.

Benefits of the study include:

- Recommendations to alleviate existing flooding.
- Criteria for new developments to avoid future flooding problems.

ENGINEERING BUDGET

\$83,500

SOLUTION

Working together, HLR and City staff identified three main aspects of the plan:

- Evaluation of and recommendations for improvements to the existing stormwater systems.
- Identification of likely impacts of future developments and strategies for minimizing or accommodating those impacts.
- Adoption of standards and procedures to protect and enhance the quality of stormwater runoff so that it is considered a resource rather than a waste product.

After careful evaluation of field data, service requests, flood records, development records, existing stormwater facilities, zoning maps, and anticipated land uses, HLR proposed a plan which included:

- Analysis of existing conditions and facilities.
- Recommendations for improvements to existing systems.
- Recommendations for measures to help ensure orderly development.
- Identification of design and construction standards for new development.
- Identification of Best Management Practices (BMPs) to be used in stormwater management.