

DRAINAGE STUDY KANE COUNTY, ILLINOIS



Extensive research was performed to better understand the drainage issues in the area between South Edgelawn Drive and Terry Avenue along Jericho Road. The purpose of the study was to determine how the stormwater flow was transferred from this area through the drain tile system that continues under the Burlington & Santa Fe Railroad.

Using the County's aerials and contours, ESI determined the size and shape of the watershed associated with the area of concern. Based on the County's datum, ESI obtained a few elevations of main features within the drainage area such as water detention ponds and overland flow rates. These features included inverts of main culverts or drain tiles, finished floor elevations of dwellings that flood during significant storm events, and road elevations in the overland flow routes.

Finally, calculations were prepared that determined the amount of runoff generated in the drainage area and determined the size of the discharge pipe required to serve the area. Based on these findings, recommendations of a scope required toward addressing the flooding issues were given.

This project reflects Firm
and Staff experience.