

Providing Quality Engineering For Our Water Resources Since 2002

Client

Wisconsin Department of Transportation
SE District
(SSE was a subconsultant to MTP, LLC)
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Project

I-94 North/South Reconstruction at the CTH E Interchange (Kenosha County)

Overview/Description

Stormwater Solutions Engineering, LLC contracted as a subconsultant to Milwaukee Transportation Partners, LLC to design storm sewer and stormwater detention ponds for the interchange work.

Concerns/Challenges

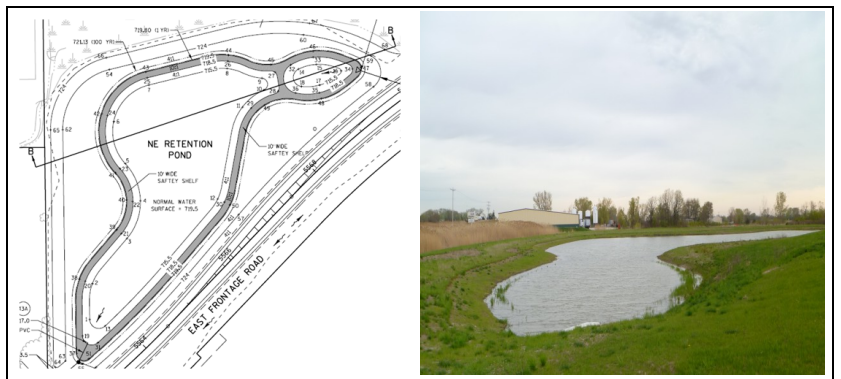
- Storm sewer and drainage system was to be designed to connect the surrounding area drainage to the frontage roads and interchange drainage.
- Increase runoff quantity as a result of expanded roadway surface would could cause drainage concerns.
- Decreased water quality as a result of the increased hard surface and increased traffic volumes.

Actions Addressing Challenges

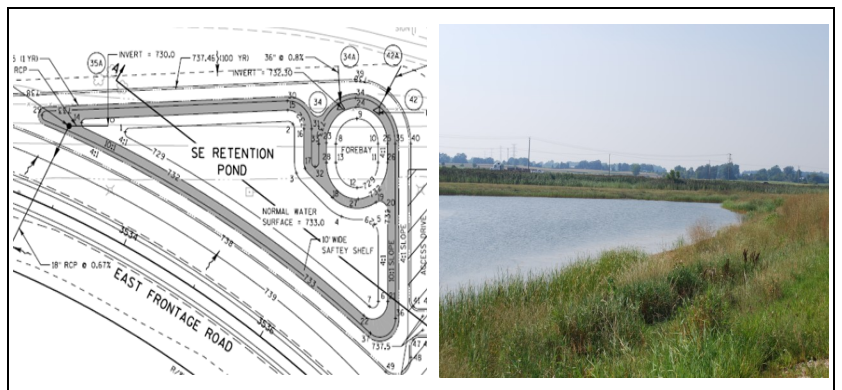
- Storm sewer and drainage swales were designed to carry flows as required by the Facilities Development Manual (FDM)
- Three stormwater detention ponds were designed to collect and store increased runoff, providing water quality through settling of total suspended particles.
- Use of Wisconsin **native** landscaping within the pond safety shelves (along the water's edge) allows for filtering of stormwater as well as deters water fowl by providing a visual barrier to potential predators.



Aerial Photo of Ponds and Interchange



Northeast Pond Design and Post-Construction Photo



Southeast Pond Design and Post-Construction Photo



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