

Jamian Drain Improvements

West Bloomfield Township, Michigan



Improvements to the Jamian Drain, a legally established drain under the jurisdiction of the Oakland County Drain Commissioner (OCDC), were required. The Jamian Drainage District, part of the Pebble Creek Subwatershed, is located within the north-west branch of the Main Branch of the Pebble Creek Subwatershed Drainage District. The district is located in the southwest 1/4 of Section 34 of West Bloomfield Township, Oakland County, Michigan. The project involved streambank stabilization, the restoration of

sediment basins, and reshaping of an existing meandering drain through a residential area. The project included permitting from Michigan Department of Environmental Quality (MDEQ) and local jurisdictions and public involvement from residents along the drain route.

Spalding DeDecker Associates, Inc. (SDA) was responsible for providing engineering design and construction services.

The preliminary design for the Site Improvements Phase evaluated the existing conditions, including erosion, sedimentation, and in-stream habitat, and then developed project concepts and alternatives to enhance the peak flow characteristics of the channel and improve water quality.



As part of the preliminary design, SDA facilitated stakeholder input and follow-up sessions to educate and solicit input on identifying specific design improvements. Incorporating input from the stakeholders (Pebble Creek residents) along with their education of the importance for vegetation and stream habitat, their long-term relationship to reduced flooding, drain/ detention basin maintenance and

increased property values were critical in this segment of the design solution. Additionally, preliminary approval was acquired by the required State and local agencies.

The Final Design for the Site Improvements Phase implemented the preliminary design into construction drawings and specifications necessary to bid and construct this project. The permit submittal requirement was also finalized.

SPECIAL FEATURES

Communication between the MDEQ and the Township was needed due to the necessary

OWNER / CLIENT

Jamian Drainage District

PROJECT START - END

September 2004 - March 2005

SDA PROJECT NO.

OD04-101



Project Profile

stabilization and enhancements within the stream areas. The focus was on enhancing water quality within the stream area, providing habitat for macro-invertebrates, fish and wildlife, and providing recreational interpretive use opportunities.

