

Jonathan D. Steinbach, PE

Water Resources Lead Engineer



EDUCATION

B.S., Civil Engineering,
University of Wisconsin -
Milwaukee, 1998

Graduate studies in Civil
Engineering, University of
Wisconsin – Milwaukee

Joined Firm in 2016

Years of Experience: 26

REGISTRATIONS

Licensed Professional
Engineer: Wisconsin

SOFTWARE EXPERTISE

- Microstation
- AutoCAD Civil3D
- AutoCAD
- SWMM
- TR-55
- Hydraflow Hydrographs
- Hydraflow Storm Sewers
- WinSLAMM
- RUSLE
- EPANET
- HY-8
- HEC-RAS

Jon's experience in sustainable civil infrastructure includes institutional, municipal, and private development projects. He has technical expertise in storm water management, hydrology and hydraulic analysis, grading design, utility design, paving design, and erosion control. He has extensive experience with sewer service area planning, sewer and manhole condition evaluation, new sewer design, sewer rehabilitation and replacement, inflow and infiltration reduction, water service area planning, new water main design, and water main rehabilitation and replacement.

As a former employee of the City of Milwaukee, Jon prepared designs, construction plans, and contract specifications, and inspected construction work for storm water facilities, infiltration and inflow reduction projects, sewage pumping facilities, and underground communications projects. He was responsible for implementing numerous programs and projects in the following areas of storm water management: green infrastructure implementation, public information, illicit discharge detection, erosion control training for City work crews and local contractors, pollutant load modeling, storm water sampling, and WPDES permit reporting. He also prepared and coordinated regulatory permit applications and approvals.

Jon has extensive experience with developing and modifying municipal programs for compliance with the NR 216 Municipal Stormwater Discharge permit, including updating WinSLAMM models to demonstrate compliance with NR 151 Standards.

REPRESENTATIVE PROJECTS

Waterford, WI

Mercury Business Park Development

Stormwater Engineer for the Village's TID-funded mixed-use Mercury Business Park development on 30 acres of a 54 acre site off STH 36 across from 6th Street, north of STH 20 in Waterford, Racine County. The project consisted of preparing concept layouts for the Village to pick a preferred alternative; developed parcel sizes for future commercial, industrial, and multi-family residential sites; developed a subdivision plat; coordinated significantly with the DOT to permit a new public road access to STH 36 including development of full Traffic Impact Analysis (TIA); constructed new urban roadways planned for future extensions; constructed turn lane and intersection improvements on STH 36 required by the TIA including planning for future signalization while working around a DOT project on STH 36; designed and constructed new water main extension with DNR permitting; designed and constructed a new sanitary sewer extension with permits from SEWRPC, Western Racine Co. Sewerage District, and DNR, avoiding primary environmental corridors identified by SEWRPC; constructed new storm sewer and new wet-bottom detention ponds to detain runoff from a future fully-developed site and protect large areas of wetlands with DNR stormwater and wetland permits; 13 acres of tree removals; mass grading; and restoration.

Delavan, WI

2017 Road Improvements

Project Engineer for design of improvements to four roads within Town limits. The work included pavement milling and replacement, pavement patching, hot mix

overlay, culvert replacement, drainage improvements, hydraulic computer modeling, and permitting.

Delavan, WI

Community Park Waterway Phase II

Project Engineer for Phase II installation of various Best Management Practices (BMPs), for an intermittent stream at Community Park in the Town, to protect and improve water quality in Delavan Lake.

Delavan, WI

Municipal Engineering Services

Project Engineer for Community Park Waterway cost estimate review, Borg Road drainage/topography review, Jackson Drive drainage calculations and recommendations, and WDNR grant application assistance to the Town.

Delavan, WI

Industrial Park No. 6 – Phase II

The project consists of approximately 53 acres including sanitary sewer, water main, grading within the right-of-way, and storm water management in the City. Drainage design included the public main storm sewer and two wet detention basins for addressing storm water runoff rate and quality. Drainage design required close coordination with an adjacent fast-tracked private property development being design by a different engineer consultant.

Lyons, WI

Thomsen Bridge Replacement

Project was to expedite the design and construction of a failed bridge on Thomsen Road in the Town. Floodwaters in 2017 from the Spring Valley Creek undermined the south abutment resulting in the abutment settling one foot. Design consisted of replacing the bridge with twin 67-inch x 95-inch Polymer Coated Structural Plate Pipe Arches. Project included a diversion channel, an 800-foot temporary road across private property and water-inflated cofferdams. Baxter & Woodman's work included hydraulic analysis and design for the culverts, as well as the roadway design for the reconstruction project.

Shorewood, WI

Combined Service Area Environmental Assessment Study

Project Engineer for Environmental Assessment study that provided the basis for addressing street flooding and providing basement backup protection in the combined sewer service area south of Capitol Drive. The previous technical study of the combined sewer service area was refined and included a review of the regulatory requirements for proposed improvements, an assessment of the environmental impacts, proposed methods to alleviate the impacts, alternatives, cost estimates of improvements, and an implementation plan.