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David R. Lutz, P.E.

Vice President, Sr. Project Engineer

Mr. Lutz has 10 years of experience assembling and managing design teams on multi-million dollar construction projects related to site civil, infrastructure improvement, environmental, and landfill construction. He is experienced in managing all phases of a project from cost estimating through design, permitting, construction administration, and project closeout. Mr. Lutz has expertise performing a variety of engineering analyses and evaluations related to waste transfer stations, landfills and other site civil infrastructure projects in which he has also developed design drawings and technical specifications. Mr. Lutz's expertise is in hydrology, including storm water runoff estimation, conveyance systems, detention ponds, "green" infrastructure, and lift station/ forcemain design.

EDUCATION

Wayne State University

- MS, Civil and Environmental Engineering

Wayne State University

- BS, Civil and Environmental Engineering

PROFESSIONAL LICENSES AND CERTIFICATIONS

- Licensed Professional Engineer (MI and IN)
- 40-hour OSHA HAZWOPER Program
- Part 91 Soil Erosion and Sedimentation Control (MI)
- Confined Space Entry

SELECTED PROJECT EXPERIENCE

Cleveland Clinic Chagrin Falls FHC Parking Lot and Stormwater Improvements (2012)

South Russell, Ohio

Project Engineer: Designed parking lot and stormwater improvements including parking lot rehabilitation, heli-pad restoration, asphalt pavement and concrete curb improvements. Designed low-impact stormwater management systems to reduce the rate of stormwater discharge from the site by discharging stormwater through bioretention facilities. Developed design drawings and specifications for the construction and installation of the parking lot and stormwater improvements and interfaced with the village regarding permitting.

DTE Monroe Power Plant Site Stormwater Assessment (2015)

Monroe, MI

Project Manager: Managed engineering analysis for the stormwater management system to analyze and mitigate site flooding concerns. The drainage area modeled covered 56 acres and contained approximately 170 storm manholes and catch basins. Recommended mitigation strategies were analyzed to meet the

stormwater management needs of the site which could be phased in during master planning.

FPT Pontiac Stormwater Management Improvements (2015)

Pontiac, MI

Sr. Project Engineer: Led engineering design effort for a 30-acre industrial scrap facility stormwater improvement project. Scope consisted of improving effluent water quality by traditional stormwater detention enhancements, pre-treatment evaluation, and permitting considerations with MDEQ.

University Liggett School (2014)

Grosse Pointe Woods, MI

Project Manager: Managed engineering design effort for a \$7 million retrofit of a 24-acre athletic complex that included synthetic turf conversion and traditional site-civil design including utility design for all new services (water, storm, sanitary, fire suppression) to the previously undeveloped property. Oversaw preparation of detailed construction plans and specifications for site demolition, grading, proposed utilities, and details, which included detailing and profiling new utilities.

SELECTED PROJECT EXPERIENCE (continued)

Marathon Petroleum Secondary Containment Evaluation (2014)

Texas City, TX and Detroit, MI

Sr. Project Engineer: Led engineering analysis for the above-ground storage tank secondary containment systems and analyzed over 200 individual tank containment systems to verify adequate capacity for spill prevention control. Identified deficiencies, detailed/ designed corrective actions and access roads, as required, to bring the storage tank containment facilities in compliance with regulations.

Baldwin Pontiac Solid Waste Transfer Facility (2015)

Pontiac, MI

Sr. Project Engineer: Led engineering design effort for a new solid waste transfer and processing facility consisting of permitting through MDEQ and local agencies and traditional site-civil design. Design included grading, pavement, push-wall, stormwater, and site utilities.