

BRIAN BAUM EIT

Project Assignment: Engineering & Project Management

Education:

B.S. in Civil Engineering, Concentration: Structural Engineering, University of Michigan, Ann Arbor, Michigan 1995

Active Registration:

EIT certification, April 1996

- Over 9 yrs. Professional Experience as Structural Engineer
- Structural Analysis and design of Residential, Commercial, Industrial, Environmental and Special Structures as per ACI, BOCA, ASD, MBC codes;
- Primary experience has been in the following areas: Structural Analysis and Design (Wood, Structural Steel and Reinforced Concrete); Construction Coordination and Project Management; Creation of design standards; Fall protection and safety analysis; Field inspections and analysis; Remedial design.

Structural Analysis and Design – Waste Water Treatment Plant St. Joseph, Michigan.

- As part of the analysis, conducted onsite inspection of these facilities and recommended the necessary repairs for faulty concrete installation. In addition, conducted structural analysis and design of numerous structures including circular and rectangular tanks and out buildings. Provided support on an as needed basis including shop drawing verification.

Structural Analysis and Design – USPS Distribution Facility Nashville, Tennessee and Pittsburgh, Pennsylvania.

- Conducted onsite inspection of these facilities to determine feasibility of new conveyer systems and possible construction methods. Analysis of the existing facility for new conveyor loads. Design of new conveyor support system reducing the fabrication time, material cost and construction cost for installation.

Safety Inspection and Design of Fall Protection – Comerica Park, Detroit, Michigan.

– Conducted on site safety inspection and provided recommendations for elimination

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of unsafe working condition. Designed horizontal and vertical lifelines to provide safe working conditions on roofs, ladders and platforms.

Safety Inspection and Analysis of Structure for Fall Protection – General Motors, Flint, Michigan.

– Conducted on site inspection and provided recommendations for elimination of potential fall hazards. Designed safety procedures, analyzed existing structure and provided systematic method for easily identifying structurally adequate supports.

Structural Analysis and Design – Toyota Manufacturing and Engineering Plant Indiana.

– Designed three level trestle to carry pipes and utilities to various locations. Analysis included gravity and lateral loading and design of bracing for wind and pipe loading.

Structural Analysis and Design – Links at Lakepointe – St. Clair Shores, Michigan

- Conducted onsite inspection to determine a remedial solution for the bearing of the pre-cast concrete planks at the hallways. Inadequate bearing area was provided by the headers over the hallways of this newly constructed multi-story building. Remedial design provided allowed for the continuation of construction and saved the costs associated with shoring the building and providing new headers.

Additionally, created design standards, saving calculation time and reducing errors, for the following:

- Seismic forces of liquids
- Truss compression member reinforcement
- Truss tension member reinforcement
- Clamp design
- Truss end connection check

Professional Membership:

Member- NAHB
