

Special Studies



QUIGG ENGINEERING INC

QEI Experience

PTB 143 #18 Various/Various Phase I Reports, IDOT District 6

Prepared Phase I reports for IL 96 over Branch and Riley Creek. Also, prepared typical sections, overlay plans and stage construction plans for replacement of the existing structure at Riley Creek with a triple box culvert, and replacement of the existing structure at Branch Creek with a triple 11' x 7' RC box culvert, requiring raising of the profile.

PTB 150 #44 NPDES Field Inspector's Manual

QEI is a sub consultant on an effort to develop an erosion and sediment control field inspection manual for the Illinois Department of Transportation. A portion of the contract work is to investigate the appropriateness of a number of Green Infrastructure practices that are appropriate for the Department to implement in projects and operation activities. This involves, researching technologies and practices such as bioswales, infiltration practices, use of vegetation for trapping pollutants of concern and other storm water pollutant loading reduction techniques. QEI was selected to join in this effort due to our extensive knowledge of Clean Water Act requirements, National Pollutant Discharge Elimination System Permitting and vast storm water inspection experience for construction projects. This experience includes SWPPP preparation and implementation, developing storm water sediment and erosion control plans, and jobsite recommendations to minimize the discharge of pollutants from highway construction projects and highway operational activities. QEI is preparing portions of the Green Infrastructure Report for submission to IDOT in December 2009.

PTB 150 #43 NPDES Construction Inspection

Reviewed Storm Water Pollution Prevention Plans and provided comments to the Department of Transportation on ways to improve the development of their SWPPPs.

Personal Experience

IDOT Wetland Mitigation Site, IL 83 and Gilmer Road, Lake County, IL

QEI's Landscape Architect was personally responsible for the creation of a 40 acre wetland mitigation site adjacent to Indian Creek in Lake County, Illinois. The effort involved a number of challenges including adjustments to the design plans in the field, erosion and sediment control, timing of seeding and landscaping the site, assuring water levels designed would function as planned when constructed, material inspections, and developing a sequencing of work. The project included extensive contact with the regulatory agencies, conducting site reviews with agencies and explaining in the field how milestones required under permits were being achieved. Upon completion, the IDOT wetland mitigation site was determined by the Corps of Engineers to have met all permit requirements.

IL 13/15, St. Clair County

Prepared and submitted IDOT-approved Congestion Mitigation Study (CMS) including accident analysis. This was the first CMS completed in District 8. Prepared Intersection Design Studies along IL 13/15 in Freeburg, IL, including radii improvements at various locations.

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QEI Personal Experience

Lakeland College

Updated and revised the Hot Mix Asphalt Level III Manual to reflect current policy and procedures set by IDOT's Bureau of Materials and Physical Research.

IDOT Bureau of Materials & Physical Research

Updated and revised the Manual of Test Procedures for Materials to reflect current test procedures set by the Bureau of Materials and Physical Research.

Illinois Transportation Enhancement Program

Prepared and submitted an application for the Illinois Transportation Enhancement Program for the City of Jacksonville for the Downtown Enhancement Program. Submittal included aerial view with proposed lighting locations, sidewalk improvements and landscaping proposals. Also, included existing conditions, proposed conditions, public involvement, and cost estimate.

I-72 Spur, Morgan County

Prepared Pavement Failure Investigation Report of pavement along 2 mile stretch of IL 104. Failures were documented and specific repairs were recommended based on the type of failure encountered.