

**I-270 over Mississippi River  
Madison County, Illinois**

*Civil Engineering – Location Drainage/Hydraulic Report Subcontractor*

Millennia Professional Services was retained by Horner & Shifrin/Parsons, in concert with the Illinois Department of Transportation, to provide professional services in connection with the preparation of a Location Drainage Study/Design Report to analyze the removal and replacement of the bridge that carries I-270 over the Mississippi River. This structure is known locally as the Chain of Rocks Bridge and connects Madison County, Illinois, and St. Louis, Missouri.

Millennia is also serving as the QA/QC consultant for the Hydraulic Report that includes a 2D HEC-RAS model, necessary for the skewed scour analysis on the bridge.

**Clients:**

Horner & Shifrin, Inc.  
604 Pierce Boulevard, #300  
O'Fallon, IL 62269  
Phone: 618.622.3040

Illinois Department of Transportation  
District 8  
1102 Eastport Plaza Drive  
Collinsville, IL 62234-6198  
Phone: 618.346.3245

**Engineering Services Provided:**

- Project Narrative
- Hydraulics Analyses using StormCAD, CulvertMaster, and FlowMaster
- Hydrology using StreamStats and Rational Method
- Completed Existing Drainage Plan Exhibit Sheets for East Bridge Approach and Interchange
- Completed Proposed Drainage Plan Exhibit Sheets for East Bridge Approach and Interchange, and New Parapet Wall and Bike Path
- IDOT Coordination
- Hydraulics/Scour Analysis QA/QC

