

I-80/I-55 Interchange Reconstruction



PROJECT DESCRIPTION

Ciorba Group was selected by the Illinois Department of Transportation (IDOT) District One to prepare the final design plans and specifications for the reconstruction and realignment of the cloverleaf interchange of two major interstate highways.

The project involved the complete removal of two frontage roads and eight existing ramps, and their realignment to meet current IDOT standards. This project also included the rehabilitation and resurfacing of 1.3 miles of I-80 mainline pavement, drainage improvements and the installation of a new interchange lighting system in accordance with IDOT standards.

Ciorba inspected the existing dual bridges carrying I-80 over I-55 and the dual bridges carrying I-80 over the Frontage Road, which is located directly west of I-55. The existing bridge decks on the bridges carrying I-80 over I-55 were in poor condition and needed to be replaced sooner than originally anticipated. To enable an early letting date to be met, the construction of this project was split into three separate contracts.

The first construction contract included removing the existing deck, raising the superstructure, placing a new deck, retrofitting the steel girder hinge connection, repairing and raising the substructure and providing new bearings for the bridges carrying I-80 over I-55. The existing Frontage Road bridges were rehabilitated and overlaid. Also included in the first construction contract was the rehabilitation and resurfacing of the I-80 mainline pavement, the new interchange lighting, and drainage modifications. The second construction contract involved the removal and realignment of the east and west frontage roads.

The third construction contract involved removing and realigning eight existing ramps to meet current standards. To accommodate the new ramps, a new structure was required on the north side of the mainline to carry a new ramp over the Frontage Road. The existing southern mainline bridge over the Frontage Road was also widened on the south side to accommodate a new ramp. The frontage road bridges are reinforced concrete flat slab bridges on closed abutments.

LOCATION

Will County, IL

CLIENT

Illinois Department of Transportation,
District One

CONTACT

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CONSTRUCTION COST

\$30 Million

PROJECT TEAM

Lead Structural Engineer:
Salvatore Di Bernardo, PE, SE
Lead Lighting Engineer:
Joe Vondra, PE, LC

SCOPE OF SERVICE

► Final Design

