

Construction Engineering & Inspection Services for the Replacement of Berkeley Avenue Bridge



KS Engineers, P.C. provided construction resident engineering and inspection services for the FHWA/NJDOT Local-Aid funded replacement of the Berkeley Avenue Bridge (Structure No. 0700-059), a two-lane, two-span bridge over the Second River and Historic Morris Canal in the Township of Bloomfield, County of Essex, New Jersey. The purpose of the project was to replace the structurally deficient bridge while improving vertical and horizontal alignments with a new two-lane, two-span, curved steel girder bridge structure. The major elements of the project included the demolition of existing bridge, structural steel, installation of fixed and expansion bearings with a reinforced concrete deck with SIP forms, abutment walls, wing walls, spread footing and drilled shaft piers, temporary sheeting and cofferdam installation, a bridge parapet, and bridge sidewalk placement. The bridge work also included aesthetic treatments on the parapet, and exposed abutment and wall surfaces such as ornamental railings, stone veneer, and wayside exhibit displays. The contract required a significant amount of coordination with various agencies on the state and local level, due to the historic nature of the bridge and its close proximity to the park, nearby residents, and the river.

Curved Steel Girders with Superelevation



Project:
The Replacement of
Berkeley Avenue Bridge

Location:
Township of Bloomfield,
County of Essex, NJ

Concrete Deck Paving with Bidwell



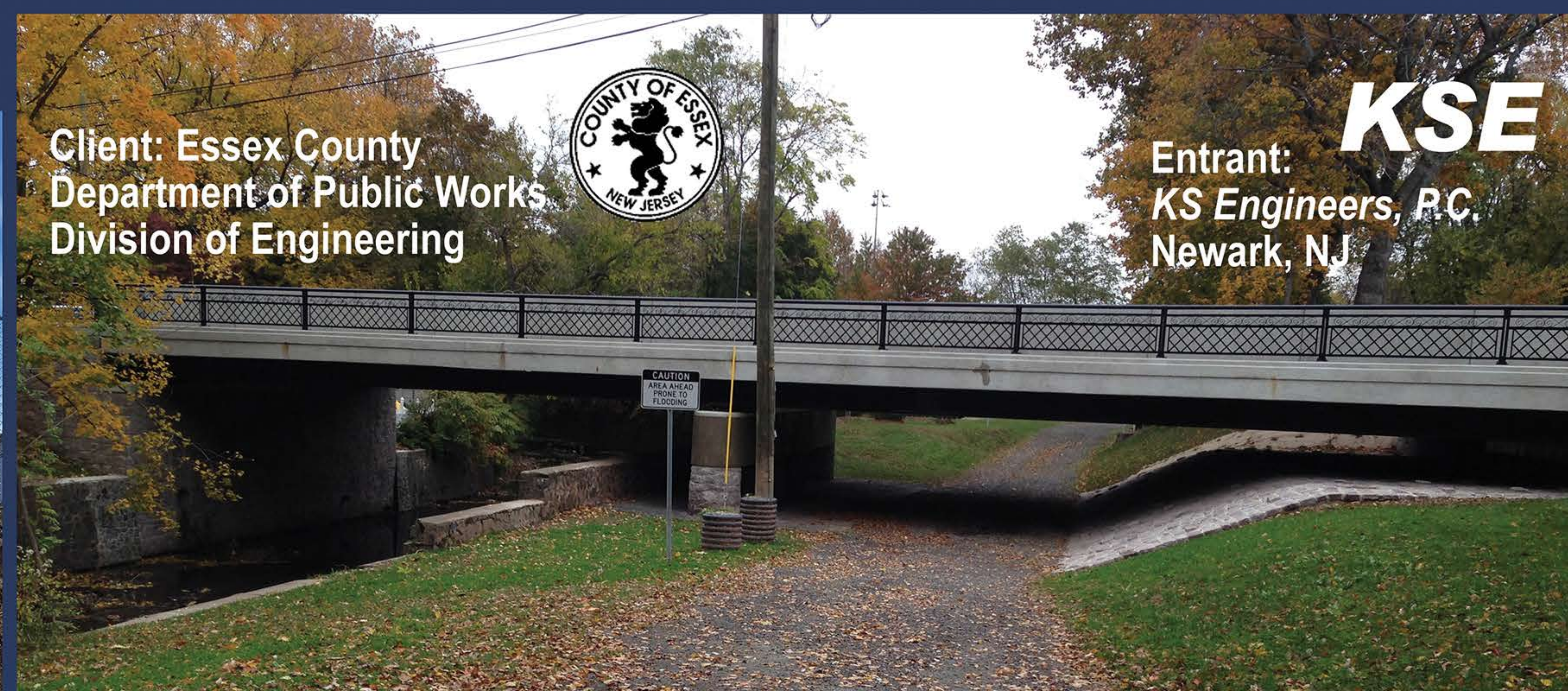
ACEC New Jersey
AMERICAN COUNCIL OF ENGINEERING COMPANIES



Anti-Graffiti Treatment and Stone Veneer Under the Bridge



Ornamental Railing, Historic Morris Canal and Trail Under the Bridge



Client: Essex County
Department of Public Works
Division of Engineering



Entrant: **KSE**
KS Engineers, P.C.
Newark, NJ

Placard of Historic Morris Canal and the Bridge

