SJH Engineering P.C.

Civil / Structural /
Transportation Engineers

Construction
Inspectors/Managers

Bridge Condition
Inspectors

*New Jersey
New York
Pennsylvania*

www.sjheng.com

Democrat Road (CR673) over I-295 Rehabilitation

Contract No. 2010PM757F

Gloucester County, New Jersey

PROJECT TYPE
Design

CONTRACT AMOUNT
$432,000 fee

ROLE
Prime
Bridge Engineering
Transportation Engineering
Civil Engineering
Construction Support Services

PROJECT OWNER/CLIENT
New Jersey Department of Transportation

START & END DATES
10/2010 – 12/2012

REFERENCES
"I wish all my jobs went this easy - thank everyone at SJH for me."
Robert Bousenberry, P.E., NJDOT
(609) 530-5463

AWARD
ACEC Distinguished Award 2014

PROJECT DESCRIPTION

We provided engineering and design services associated with the Democrat Road (CR673 Mile Post 4.41) over I-295 MP 16.42 Rehabilitation project, which replaces the deck slab of the existing bridge. The project involved replacing the deck slab with minimum environmental and community impacts. Other incidental work included replacement of the approach slabs at both ends of the bridge, isolated repairs of cracks and spalls in substructure elements, and replacement of guiderail/fencing/curbing. Work also included milling and overlay of the approach roadways. Due to low traffic volume on this section of Democrat Road and the availability of feasible detours utilizing I-295, NJDOT accelerated the reconstruction by full closure of the bridge. The existing single spans are made continuous for live load.

The bridge, built in 1953, is a two span simply supported, composite riveted plate steel stringer structure supported by concrete abutments and piers. The bridge deck slab was severely deteriorated with many visible spalls and rated 'Poor' (4) in Structure Inventory & Appraisal condition rating. The deck slab was deemed functionally obsolete and was in need of replacement. For this project SJH was responsible for preparing a Design Exception Report, utility coordination, and providing a complete set of construction documents.

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