SMART BRIDGE

Location:
Christiansburg, Virginia

Owner:
Virginia DOT

Client:
PCL Civil Constructors, Inc

Construction Cost:
$ 15 Million

Completion Date: 2000

Project Description

The bridge is a five span CIP segmental structure with a 144m main span constructed on integral piers. JSE provided a stress/capacity design check of the superstructure and substructure for each step of erection; including time effects for creep and shrinkage and unbalance moments during weekly cycles. Services included the casting curve to control geometry for the 72m cantilevers.

JSE provided tendon-stressing instructions and integrated shop drawings for placement of rebar and post-tensioning hardware. Our services included design of falsework towers and soffit to support the end-span segments. Periodic site visits were made to assist with construction and post-tensioning operations.

Project Data:

Total Length:	605 m
Number of Spans:	5 Spans (86.5, 3 at 144, 86.5m)
Width:	12 m