

## Replacement of AMTRAK Bridge #00340 over Route 1 Branford, CT

### Project Description:

**Location**

Branford, CT

**Owner**

ConnDOT

**Duration**

2009 - Present

**Prime/Sub**

Prime

**Construction Cost**

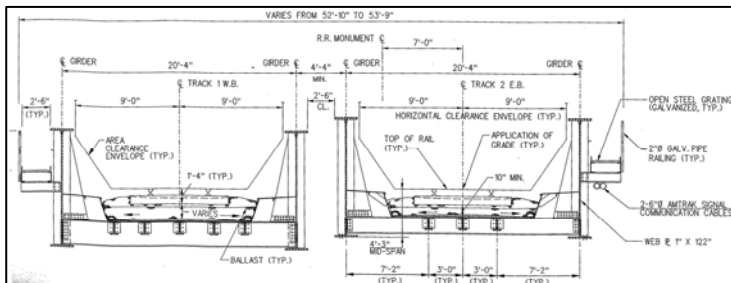
\$45 million

This project consists of the replacement of AMTRAK railroad bridge No. 00340 over Route 1, Branford and approximately 4,400 ft. of AMTRAK line construction as well as 2,850 ft. of Route 1 (West Main St.) reconstruction. AI has been selected by ConnDOT to provide construction engineering and inspection services.

The reconstructed railroad bridge superstructure shall consist of structural steel approximately 10 ft. deep thru-girders-floor beam-joist system spanning 120 ft. and supported on pot bearings with ballasted deck system supporting (2) tracks. The roadway underneath will be widened and both the roadway as well as railroad track profile on the bridge shall be adjusted such that it results in a 15 ft. - 1 in. minimum vertical clearance on Route 1. New abutments and wingwalls/retaining walls shall be constructed. The existing structure shall be removed.

The reconstruction of AMTRAK line shall include catenary foundations utilizing AMTRAK standardized drilled caissons, 24 in. - 34 in. dia. Other key tasks shall include jacking a 54 in. dia. R.C. pipe, an 8 ft. by 3 ft. pre-cast concrete box culvert under Route 1, and a host of temporary structural support structures. Environmental tasks shall include: disposal of railroad ties, controlled material handling, and disposal of lead debris. Temporary signalization and temporary support of utilities shall also be required.

This project will require close monitoring of submittals by the contractor and the coordination of the detailed work plan with AMTRAK to insure that the project stays on schedule.



### Salient Features

- Four Construction Stages
- Thru-Girder-Floor Beam-Joist System
- New Abutments & Wingwalls/Retaining Walls
- Temporary Access Roads & Tracks
- Compliance with Environmental Permit Restrictions