

*As Private-Public Partnerships (P3) and Design-Build (D-B) continue to offer public transportation owners viable project funding solutions for much needed infrastructure across the United States, private entities take on additional project delivery risks such as managing the materials quality standards that public agencies specify on high-profile P3/D-B projects.*

HRV Conformance Verification Associates, Inc. (HRV), a certified DBE/WBE, specializes in materials quality assurance inspection and monitoring the technical performance of contractors and fabricators to ensure compliance to construction materials specifications. We are **Quality. Assured.**

Inspection is our only business. It is not an ancillary service offered within a multidiscipline global conglomerate. This greatly contributes to HRV's reputation as one of the top materials inspection firms in the country.

## **HRV SCOPE-OF-SERVICES FOR LARGE-SCALE P3/D-B PROJECTS (Not all-inclusive)**

HRV's services include inspection of steel, coatings, aluminum, concrete, timber, and fiber-reinforced polymer (FRP); nondestructive testing (MT, PT, UT, VT, and RT film interpretation); materials sampling; high-strength bolt testing; review of trial assembly inspections and/or virtual assemblies; facility assessment audits; expediting; field coatings inspection; technical consultation (welding engineering, expert witness); and technical training.

- **QA/QC Materials Fabrication Inspection**
  - Shop/Field Inspection of materials (metals, precast/prestressed concrete, RFP, timber, paint)
  - Nondestructive Testing (MT, PT, UT, RT Film Interpretation)
  - Visual Weld Inspection
  - High Strength Bolting
  - Materials Sampling
- **Coatings Inspection**
  - Corrosion Surveys
  - Corrosion Failure Assessments
  - Paint Sampling
  - Paint Systems Analysis
  - Verification of Paint Application
  - Striping Process Review
  - Monitoring of Environmental Conditions
  - Lead Abatement Procedures Review
- **Technical Consultation and Training**
  - Weld Procedure Review
  - Specification/Code Review
  - Technical Training of Personnel (NDT, SSPC C3/C5 and Basic Coatings)

## HRV'S CORE CAPABILITIES

### Materials Testing & Inspection

- **Shop/Field QA Inspection**
  - Steel
  - Paint/Coatings
  - Concrete
  - Fiber Reinforced Polymer
  - Timber
- **Nondestructive Testing**
- **High-Strength Bolt Testing**
- **Materials Sampling**

### Field Coatings Inspection

- **Corrosion Surveys**
- **Corrosion Failure Assessments**
- **Paint Sampling**
- **Paint System Analysis**
- **Verification of Paint Application**
- **Monitor of Environmental Conditions**
- **Lead Abatement Procedures Review**

### Consultation & Engineering

- **Facility Assessments**
- **Weld Procedure Reviews**
- **Expediting**
- **Construction Management/Construction Inspection**
- **Personnel Training/Certification**

Credentials/Certifications	# of Employees
Professional Engineer	4
Civil/Welding Engineer	9
Mechanical Engineer	1
NICET Levels I, II and III	4
ACI Field Testing	29
NETTCP	7
API 570/API 653	2
AWS Certified Welding	150
ASNT Levels I, II and III	42
NACE Levels 1, 2 and 3	28
SSPC	14
PCI Levels I, II and III	17
ICC Special Inspectors	6
CM/CI (PE, CCM, NICET)	11

**HRV Conformance  
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With an international resume covering the US, Canada, China, South Korea, Belgium, Germany, Spain and other countries, HRV has performed on a number of high-profile P3 and D-B projects over the past 10 years. This includes two highly prominent P3 and D-B projects currently in construction: The Goethals Bridge (NY/NJ) and Governor Mario M. Cuomo Bridge (formerly known as the Tappan Zee Bridge). See details below.

### **SIGNATURE P3/D-B PROJECTS**

#### **\$3.98B Governor Mario M. Cuomo Bridge** (formerly known as the Tappan Zee Bridge)

**Owner:** New York State Thruway Authority

**Team:** Tappan Zee Constructors, LLC (Fluor, American Bridge, Granite, and Traylor Bros., along with key design firms HDR, Buckland & Taylor, URS, and GZA)

**Services:** Shop/field inspection services (weld inspection, coatings inspection) and nondestructive testing services for the entire project. To date this includes:

- 40 HRV Inspectors with CWI and ASNT Level II
- 47 different fabrication facilities (Steel), project site, and Canada (TBD)
- Reviewed over 10,000 DRT images

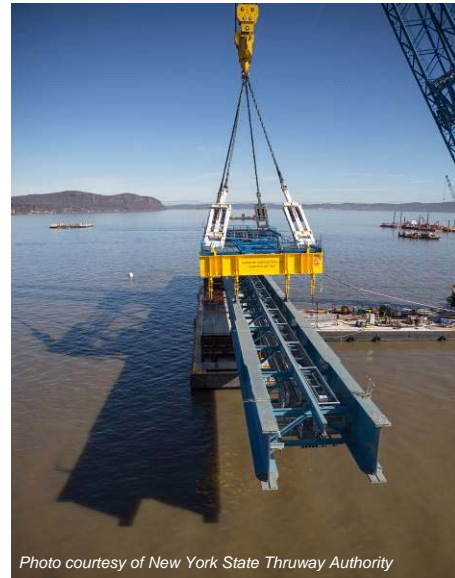


Photo courtesy of New York State Thruway Authority

#### **\$1.5B P3 Goethals Bridge Replacement Project**

**Owner:** Port Authority of NY & NJ

**Team:** NYNJ Link Developers (Kiewit Infrastructure, Weeks Marine, Massman Construction, Parsons Transportation Group of NY, NYNJlink, and Manhattan MBDA Business Center)

**Services:** Construction inspection; inspection of steel, concrete products, & misc. metal products; coatings inspection; and nondestructive Testing (MT, UT & RT Film Interpretation). This includes:

- 10-15 HRV Inspectors with CWI, PCI, ACI, NICET, ASNT, and NACE certifications at twenty different fabrication facilities/site



Rendering of the New Goethals Bridge  
www.panynj.gov

#### **\$1.8B PA Rapid Bridge Replacement P3 Project**

**Owner:** Pennsylvania Department of Transportation

**Team:** Plenary Walsh Keystone Partners (Plenary Group, The Walsh Group, HDR Engineering, Granite Construction Company)

**Services:** QC inspection coverage for the replacement/rehabilitation of 558 Steel & Concrete bridge structures. HRV provided services at over 60 different job sites.





### **\$634M Portsmouth Bypass P3 Project**

**Owner:** Ohio Department of Transportation

**Team:** Portsmouth Gateway Group (Dragados, The Beaver Excavating Company, Jurgensen, ms consultants, HDR Engineering, ACS Infrastructure Development, and InfraRed Capital Partners)

**Services:** Shop inspection services during the fabrication of steel and concrete products for the construction of 20 new bridge structures - 2 steel and 18 concrete

- CWI and PCI Certified Inspectors at three different fabrication facilities



### ***HRV TECHNICAL LEADERS and GEOGRAPHIC REACH***

HRV consistently delivers quality services through personnel recognized in the transportation industry for their professionalism, qualifications and technical expertise. With a staff of over 150 trained and certified inspectors nationwide, HRV currently provides QA inspection at the most commonly used bridge fabrication facilities throughout the United States, or easily supplements contractors' field personnel at job sites.

