



## CUY-90-14.90 (CCG1)

### Cuyahoga County, Ohio

Client: Michael Baker

Contact: Bob Parker (412) 918-4000

#### Key Personnel:

Rick Engel, PE (PM)  
 Jamal Nusairat, Ph.D., PE  
 Kevin White, PE  
 Jason Wise, PE (while at  
 ODOT)  
 Christian Steck

#### Project Cost:

\$287 Million Construction  
 \$649,000 Design

#### Year Completed:

May 2016 Construction  
 December 2009 Design

E.L. Robinson Engineering (ELR) collaborated with Michael Baker on the Cleveland Innerbelt CCG1 project's preliminary design. The project provided preliminary design for 1.8 miles of Westbound I-90 on a new alignment that included a 4,000-ft-long bridge over the Cuyahoga River Valley. The project included five miles of total roadway work, including the mainline, ramps, and side roads. ELR prepared the Structure Foundation Exploration Reports for the viaduct span, the approach spans, six approach bridges, and four retaining walls. Due to funding opportunities, the design-build process was used to advance the project. ELR completed the analysis and design for grading and drainage improvement for the stabilization of the West Slope. ELR prepared sealed construction drawings for 500' of Cuyahoga River bulkhead reconstruction, including tieback system, regrading of the existing slope, gas vents and horizontal slope drains, and accommodations for a future multiuse trail, which was implemented into the design-build scope as a project requirement. We worked closely with five bridge design groups, which required continuous coordination with the firms to remain on schedule and under budget.