



CHRISTOPHER S. BOND BRIDGE

Kansas City, Missouri

Owner: Missouri DOT

Designer: Parsons Transportation Group

Contractor Joint Venture:
Massman Construction Company
Clarkson Construction Company
Kiewit Construction

Years of Project: 2007—2010

Total Project Cost: \$245 Million

Owner Reference:
Randy Potts, P.E. (573-526-0515)

Client Reference:
Pat Cassity, P.E., S.E. (Parsons— 312-930-5100)

Project Highlights:

The Christopher S. Bond Bridge in Kansas City, Missouri was the centerpiece of a \$245 million project to improve and upgrade about four miles of the I-29/35 Corridor through Kansas City. The cable-stayed bridge across the Missouri River is approximately 1700 feet long, with the two cable-stayed spans supported by a single pylon.

- Main pylon supported by eight drilled shafts 10.5 feet in diameter socketed into shale bed-rock.
- Bents 1-4 are supported with drilled shafts bearing on rock ranging from 6.5 to 8 feet in diameter.
- Tip grouting was utilized to enhance the bearing resistance of the shafts at Bent 5 on the north side of the river (bearing in gravelly sand deposits).

Technical Publications:

Axtell, P.J., Brown, D.A., and Thompson, W.T (2009) "Drilled Shaft Foundations for the kcICON Missouri River Bridge," *Proceedings: Deep Foundations Institute 34th Annual Conference*, pp. 3-12.

Brown, D.A. and Axtell, P.J. (2010). "Design and Construction Challenges at kcICON Bridge" *Deep Foundations*, Spring, 2010.

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