



Pickett, Kelm & Associates, Inc.
Consulting Structural Engineers

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Highland Park Bridge

PROJECT LOCATION:
PFLUGERVILLE, TEXAS

PROJECT OWNER:
MILBURN HOMES

CIVIL ENGINEER:
HUFFCUT & ASSOCIATES

**GENERAL
CONTRACTOR:**
J.C. EVANS

**PROJECT
COMPLETION:**
2004

CONSTRUCTION COST:
\$765,000

PROJECT DESCRIPTION:

Pickett, Kelm & Associates, Inc. provided structural design of a two-lane, five-span precast concrete arch bridge in Pflugerville, Texas. The bridge spans vary from 28 feet to just over 30 feet, and the

bridge length totals 148 feet. The bridge includes a 6-foot wide pedestrian sidewalk on both sides of the roadway, and has a total deck width of 50 feet.

Mechanically-Stabilized Earth (MSE) walls retain a minimum of 3 feet of fill on top of the 10" thick concrete arches, and extend 45 to 50 feet at the approaches. Bents and abutments consist of cast-in-place reinforced concrete grade beams which span to drilled shafts founded in limestone. Hot-mix asphaltic concrete (HMAC) pavement was selected to match the approach roadways.

A decorative concrete coping was provided at the intersection of the arches and the MSE walls. A C411 railing was selected for use, with cantilevered pilasters at the decorative light poles. Blockouts in the underside of the arches were coordinated with the precast supplier for the installation of recessed light fixtures.

