



Pickett, Kelm & Associates, Inc.
 Consulting Structural Engineers

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CAPITAL EXCAVATION

PROJECT TYPE:
 BRIDGE

PROJECT COMPLETED:
 2000

PROJECT LOCATION:
 AUSTIN, TEXAS

CONSTRUCTION COST:
 \$1,800,000

PROJECT OWNER:
 CITY OF AUSTIN

PROJECT DESCRIPTION:

GENERAL CONTRACTOR: **South 1st Street Bridges over Slaughter Creek**

Pickett, Kelm & Associates, Inc. provided structural engineering design for twin-span concrete highway bridges on South First Street in Austin, Texas. This roadway section was the first phase of the South First Street Extension project. The northbound bridge supports a 16 inch diameter water main. The construction schedule was accelerated in order to provide water service to the new Akins High School.

Each bridge is 448 feet long by 38 feet wide, with four 112 foot long spans. Single column hammer head interior bents were utilized to limit disturbance in the greenbelt area and to Slaughter Creek. Mechanically stabilized earth walls were selected as retaining walls for the bridge approaches. AASHTO Type IV prestressed concrete beams span to



the concrete abutments and center bents. Type T4 and C4 (steel) railings were used, and a pedestrian sidewalk was provided at each bridge.