



Pickett, Kelm & Associates, Inc.
Consulting Structural Engineers

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PROJECT LOCATION:
BEE CAVE, TEXAS

PROJECT OWNER:
LOWER COLORADO
RIVER AUTHORITY

CIVIL ENGINEER:
PBS&J

GENERAL CONTRACTOR:
MW BUILDERS

PROJECT COMPLETED:
2005

CONSTRUCTION COST:
\$3,039,000



LCRA West Travis County High Service Pump Station

PROJECT DESCRIPTION:

Pickett, Kelm & Associates, Inc. designed this 5870 square foot, single-story pump building at the LCRA West Travis County Regional Water Treatment Plant in the Village of Bee Cave, Texas.

The pump room houses three relocated 2800 GPM pumps and a new jockey pump, and can accommodate a future 4200 GPM pump and a future backwash pump. A 3-ton electric top-running single bridge overhead crane, with an underhung hoist and trolley, runs the entire length of the building. Removable grating panels cover recessed pipe trenches for the intake and discharge headers. Adjacent building spaces accommodate an electrical equipment room, office, shop, storage rooms and a restroom.



The superstructure consists of steel beams and columns supporting steel bar joists. Bowstring joists support a barrel vault roof over the pump room. CMU shear walls and moment resistant steel frames provide lateral bracing. The foundation consists of a concrete slab-on-ground, thickened at each pump, with drilled piers founded in limestone at the column locations.

Exterior cladding consists of a combination of split-face concrete masonry, EIFS and glass block, with a standing seam pre-finished metal roof.