



Pickett, Kelm & Associates, Inc.
Consulting Structural Engineers

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PROJECT LOCATION:

AUSTIN, TEXAS

PROJECT OWNER:

TRAVIS COUNTY ESD No. 3

ARCHITECT:

SPENCER GODFREY ARCHITECTS

GENERAL CONTRACTOR:

BRAUN & BUTLER

COMPLETION: 2005

CONSTRUCTION COST:

\$1,876,200



Barton Creek Fire Station

PROJECT DESCRIPTION:

Pickett, Kelm & Associates, Inc. provided structural engineering for this three-level fire station enclosing approximately 14,570 square feet. The building is configured with a single-level 5100 square foot apparatus bay adjacent to a three story area housing a 4,550 square foot administration level, a 4,550 square foot dormitory level, and a 570 square foot mechanical platform/storage area.



The lower level administrative floor includes a reception area, offices, restrooms, conference rooms and a training area. The training area was required to be column free. The dormitory floor includes restrooms and showers, sleeping rooms, living rooms, lounge, exercise room, laundry, kitchen area and storage rooms. A future elevator opening with a CMU masonry shaftwall is provided at the dormitory/administration area. The apparatus bay was also framed without interior columns,

and includes three drive-through bays with roll-up doors on each wall, and a 1-ton hoist and trolley.

The roof consists of terra cotta roof tiles over metal deck, supported by steel joists spanning to steel beams and perimeter tubular steel columns. Lateral stability is provided by concrete masonry shear walls.

Floor framing consists of concrete floor slabs on composite metal deck supported by composite steel framing. The building foundation consists of a concrete slab-on-ground with perimeter grade beams. Building columns are supported on pier caps and straight drilled shafts.

Exterior cladding at the apparatus bay consists of 4" native limestone masonry veneer with concrete plaster accents over an 8" thick reinforced concrete masonry backup wall. Exterior cladding at the dormitory/administration area consists of glazing and light gage steel studs with a combination of native limestone and concrete plaster veneer.

