Pickett, Kelm & Associates, Inc.
Consulting Structural Engineers

PROJECT LOCATION:
SALADO, TEXAS

PROJECT OWNER:
SALADO ISD

ARCHITECT:
FIELDS & ASSOCIATES

GENERAL CONTRACTOR:
BAIRD WILLIAMS

COMPLETED: 2008

CONSTRUCTION COST:
$14,592,000

Salado High School

PROJECT DESCRIPTION:

Pickett, Kelm & Associates provided structural engineering services for this 100,500 square foot high school campus facility northwest of Salado, Texas, at the southeast corner of FM 2484 and Williams Road. The project consists of a two-story classroom area and a one-story area which includes administrative offices, athletics, two gymnasiums, choir, drama, band, a kitchen and a cafetorium. A 4000 square foot ag building, consisting of an open-sided pre-engineered metal building, was also provided. The project was delivered on a CM-at-Risk basis with Baird Williams acting as the construction manager. A bid alternate, for an additional 3800 square feet of classroom area, was included in the project documents.

The roof of the classroom area consists of pitched and low sloping metal roofing over metal deck supported by open web bar joists and a combination of girders, columns and exterior load-bearing tilt-up concrete wall panels. The second floor framing consists of composite floor decks supported by composite steel beams, girders and a combination of interior steel columns and exterior load-bearing tilt-up concrete wall panels.

Roof framing outside of the classroom area, including the science lab wing, consists of low sloping roofing membranes over metal decking supported by a combination of open web steel joists, girders, columns and load-bearing tilt-up wall panels with parapets. Roof heights vary.

First floors consist of ground-supported concrete slabs. Building columns bear on drilled pier foundations. Uninsulated tilt-up wall panels bear on grade beams supported by drilled pier foundations. The site is relatively flat and no retaining or grade walls were required.

Lateral loads are resisted by a system of roof and floor diaphragms, the concrete tilt-up wall panels and braced steel frames.

Mechanical equipment platforms are located over the corridors in the classroom area. Platform framing consists of plywood decks supported by light gage steel framing and light gage steel stud bearing walls. Platforms over classroom, office or other areas consist of composite concrete slabs supported by composite steel beams and girders. Mechanical systems consist of split system DX and packaged rooftop DX systems.

Exterior cladding consists of painted tilt-up panels and masonry veneer.