



# PROJECT PROFILE

## Milam Elementary School Houston, Texas

**Client:**

Houston Independent School District  
Houston, Texas

**Approximate Construction Cost:**

\$233,560.00

**Year Completed:**

January 2001

**Services Provided:**

Design, Constr. Admin, & QAI

**Contractor:**

Gulf Star Roofing & Sheet Metal  
Houston, Texas



The subject facility is a functioning elementary school that was originally constructed in 1960's. The facility consists of four classroom wings and interconnected hallways and a cafetorium/kitchen structure. The existing roof on the classroom wings consisted of asphaltic shingles over plywood sheathing supported by open-web steel bar joists with a 6/12 slope. The roofs over the connecting hallways and the cafetorium/kitchen were low-sloped assemblies consisting of gravel surfaced built-up roof membranes over rigid board insulation and fluted steel deck.

As part of the renovation program instituted at the school, a standing seam metal panel roof system was selected to be installed on the steep-sloped roof areas. A self-adhering elastomeric underlayment was installed over new plywood sheathing; clips were fastened to the sheathing; and continuous length, eave-to-ridge, pre-finished standing seam metal panels were secured to the clips. The built-up roof membranes were removed down to the steel deck; polyisocyanurate rigid board insulation was loose-laid over the deck; a fiberglass base sheet was mechanically attached on top of the insulation board and into the deck; and a torch-applied two-ply modified bitumen roof membrane was adhered to the base sheet. The scope of work also included new prefinished sheet metal edge flashings along the roof perimeters to match the color of the metal roof.