PROJECT PROFILE

Codwell Elementary School

Houston, Texas

Client:
Houston Independent School District
Houston, Texas

Approximate Construction Cost:
$498,000.00

Year Completed:
December 2000

Services Provided:
Design, Constr. Admin, & QAI

Contractor:
PRC Roofing Co., Inc.
Houston, Texas

The subject facility is a functioning elementary school that was originally constructed in 1970 based on the "open-campus" concept with independent building enclosures tied together with open air covered walkways. The existing roof was a gravel-surfaced built-up roof membrane over a lightweight insulating concrete fill and metal form deck supported by open-web steel bar joists. The slopes of the roofs ranged from 1/4-inch to 1/2-inch per foot to 2-inches per foot.

The existing BUR roof membrane was removed down to the lightweight insulating concrete fill, a fiberglass base sheet was mechanically attached and a torch-applied modified bitumen secondary roof membrane was fully adhered to the base sheet. Z-purlins were installed on top of the secondary roof and anchored to the metal form deck utilizing self-tapping screws. Special details utilized and installed consisted of a venting-type ridge cap and venting-type details along the eaves and rakes of the roofs. A 6-inch thick fiberglass blanket insulation was installed between the purlins. Continuous length, eave-to-ridge, pre-finished standing seam metal panels were installed on the purlins. On the low-slope roof areas, a two ply APP modified bitumen roof system was installed over a fiberglass base sheet that was mechanically attached over polyisocyanurate insulation board and into the metal form deck. An acrylic elastomeric coating was applied to the granule surfacing of the modified bitumen cap sheet.

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