



PROJECT PROFILE

Fire Station No. 92

Houston, Texas

Client:
City of Houston
Department of Aviation
Houston, Texas

Approximate Construction Cost:
\$145,000

Year Completed:
May 2010

Services Provided:
Design, CA, & QAI

Contractor:
KBR Services & Pyramid Waterproofing
Houston, Texas



Fire Station No. 92 was constructed in 1987 and is located along the East runway at Intercontinental Airport in Houston, Texas. The Fire Station is positioned to respond to situations that may arise on aircraft or within the airport. The building has two roof areas - an upper area situated over the garage area for the fire engines and a lower area situated over office space, commons areas, and living quarters. The existing roof consisted of a PVC single ply over polyisocyanurate insulation and a fluted steel deck encompassing 10,500 square feet. PCI in conjunction with ArcTec & Associates was retained by the City of Houston to prepare specifications and drawings for roof replacement administered through a Job Order Contract.

The scope of work included removing the existing roof and insulation down to the steel deck; installing polyisocyanurate insulation board mechanically attached to the fluted steel deck; setting a gypsum roof cover board in low-rise foam adhesive; and installation of a two-ply APP modified bitumen roof membrane. The membrane consisted of a base ply torch-applied to the cover board and a white-colored cap sheet set in cold-process adhesive with heat-fused lap seams. The scope of work also included installation of new sheet metal coping on the parapet walls; new sheet metal counter flashings at rise walls; and painting of the roof-top equipment hoods. The facility remained fully operational and watertight while the work was being performed.

