

KickingBird Tennis Center Upgrade

Background

Having been a long time customer of Signature Structures, the City of Edmond, OK contracted the Signature Team to reskin the existing tennis facility that had been originally built by another manufacturer. Over the years, Signature has inspected and fixed many issues with the building. When it came time for the membrane upgrade, Signature was the only choice.

The Signature Team has developed a new method to replace the end walls that allow cost reductions with a site having limited and difficult access. Signature is proud to have the City of Edmond as a long term, annual client that sees firsthand the Signature Difference™.

Solution

The Signature Team designed and manufactured an exterior membrane panel integrating Eco Foil Technology™ to increase the insulating quality of structure. The new membrane was then installed over the existing roof to eliminate the need to detention and remove hanging accessories such as lights, heaters and netting; and allowing the club to operate during the set up and demobilization. The club experienced minimal downtime as the courts were closed only when Signature worked immediately overtop of them. The installation method reduced the construction time, allowed camps to continue operation and ultimately cut construction cost in half.

Details

The existing structure spans 118x181' covering a 4 court tennis facility. The building site sits on top of a hill and is exposed to high winds. Years of neglect caused the structure to detension naturally putting undue stress on the membrane and aluminum frame. Consequently, there were cracks in the frame that had to be addressed. Signature designed custom brackets to reinforce the frame and prevent new frame damage. This was done with our engineering to ensure structure code compliance in such an extreme weather location.

Once the frame was addressed, a new Ferrari 602 white and green roof sheet was installed. The roof sheet was designed in large panels to eliminate the traditional multiple panel system commonly associated with leaking.

