

General Project Information Bond 2023

Project: Campus Re-Roof & Building Envelope

Project Description: Campuses to receive only building envelope replacement:

- Cimarron Elementary (CE)
- Cinco Ranch Junior High (CRHS)

Background & Justification: Building envelope joint sealants are used to seal joints and openings (gaps) between two or more substrates and are a critical component for building design and construction. The main purpose of sealants is to prevent air, water, and other environmental elements from entering or exiting a structure while permitting limited movement of the substrates. The joint sealants for the campuses have exceeded their life expectancy in are in need of replacement to further the life span of the building and to restrict water infiltration into the building.

Project Description: Campuses to receive a re-roof and building envelope replacement:

- Cinco Ranch High School
 - 20-year warranty from 1999.
 - Roof will be 26 Years Old at Time of Replacement
- Taylor High School (THS)
 - 20-year warranty from 2001.
 - Roof will be 23 years old at time of replacement.
- Nottingham Country Elementary (NCE)
 - 15-year warranty from 2001.
 - Roof will be 23 years old at time of replacement.
- Beckendorff Junior High (BDJH)
 - 20-year warranty from 2004
 - Roof will be 23 years old at time of replacement.
- West Memorial Elementary (WME)
 - 20-year warranty from 2002
 - Roof will be 23 years old at time of replacement.
- Exley Elementary (JEE)
 - 15-year warranty from 2004
 - Roof will be 21 years old at time of replacement.
- Rhoads Elementary (RES)
 - 15-year warranty from 2004
 - Roof will be 21 years old at time of replacement.

- Franz Elementary (FES)
 - 15-year warranty from 2004
 - Roof will be 21 years old at time of replacement.
- Rylander Elementary (RRE)
 - 15-year warranty from 2004
 - Roof will be 21 years old at time of replacement.

Background & Justification: The roof component to a building is a critical and major element of the building. The roof is the first line of defense against water infiltration into the building but also insulates the building against extreme temperatures. The roofs on the building have exceeded their life expectancy and are in need of replacement. Several repairs and preventive measures have been completed to the roof to further the life span of them, but the costs for these repairs and preventive measures are more than the replacement of the roof.

The new replacement roof system will be an overlay. This will be comprised of demolition (sweeping and spudding) of existing gravel and tar down to base ply material. Then mechanically fastening a coverboard, torch applying a new base ply, and then adhering the new TPO fleeceback membrane over the large portions of the roofs. This also includes all new metal flashings, copings, gutters, and downspouts to replace the existing ones.

The smaller portions of the roofs with existing metal panels would be replaced with new standing seam metal panels and all associated flashings.

When complete, the replacement roof system will give the district a 20-year warranty.