The first courthouse was built in Brazoria in 1839. A brick annex was added years later to serve as an expanded clerk’s office. The building was eventually sold and replaced with a new gothic-style courthouse that was built in 1895.

The 1895 courthouse was used for two years when county residents elected to move the county seat to Angleton, which was more centrally located. The city of Brazoria took custody of the 1895 building.

In 1897 a new courthouse was built in Angleton. This served for 40 years with expansions in 1920 and 1927. In 1927, the mansard roof and clock tower were removed and the entire structure stuccoed, creating the look of the building that houses the Museum today.

The current courthouse was built in 1940, expanded in 1979, and is still in use. Over the years as the county has grown, additional buildings and annexes have been added. A large expansion to this building is currently being built.