CITY OF BROOK PARK

BROOK PARK, OH | ORC 307.041 | ENERGY EFFICIENCY PROJECT

SIZE
100,000 sq. ft.

COST
$4,979,736

GUARANTEED ENERGY SAVINGS
$8,505,840

GUARANTEE PERIOD
20 Years

DURATION
17 Months

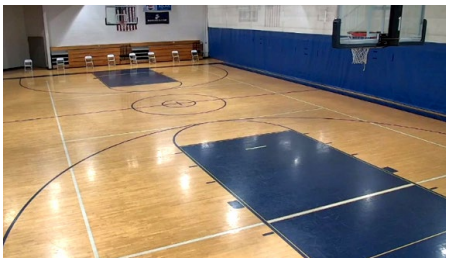
SCOPE
- Interior & exterior LED lighting retrofit
- Building Automation System (BAS) installation
- Rooftop Unit (RTU) replacements
- Roof replacement
- Office space renovations
- Retro-commissioning
- Chiller control optimization

The City of Brook Park is located in Northeast Ohio, less than 15 minutes from Cleveland, Ohio. Their recreation center, built in 1967, is roughly 100,000 square feet, and is the community's most popular gathering place. The space was already home to many athletic facilities such as two gyms, a pool, locker room, weight room, juice bar, and a daycare center, but was in need of major facility upgrades and renovations. In addition to completing a facility assessment, the City of Brook Park (City) asked Brewer-Garrett (BG) to develop a solution to relocate the City Hall and City Council offices within the recreation center.

$8.5M
IN GUARANTEED ENERGY SAVINGS

50% REDUCTION
IN ENERGY CONSUMPTION

SAVED
MUNICIPAL MONEY ON MAINTENANCE COSTS FOR MULTIPLE FACILITIES



BG retrofit both the interior and exterior lighting throughout the entire facility. Interior lighting was upgraded from T12 florescent lamps to LED technology providing more uniform lighting. Occupancy sensors were installed in the bathrooms to reduce lighting run hours and energy consumption. The exterior fixtures were also converted to LEDs, which emit a high-quality white light, increasing light distribution and security. These retrofits reduced energy consumption by over 50% and saved on maintenance costs.

BG replaced the roof of the facility with a new spray polyurethane foam (SPF) roof system providing additional insulation and waterproofing for the recreation center. Sections of the roof were tapered to eliminate the pooling of water, which had previously been an issue for the City. BG also replaced the rooftop units (RTUs), as they were in poor condition, and installed a building automation system that granted seamless control of all zones of the facility.

BG redesigned and renovated underused space to incorporate the relocation of the City Hall and Council offices. The addition of these offices allowed the City to save municipal dollars on the maintenance required to maintain multiple buildings. It also enabled the City to make the recreation center a true community center that meets many of the needs of the community under one roof.



