# Wintrust Sports Complex at Bedford Park





## Project Highlights and Results
- New construction of 2-story, 111,400 SF multi-purpose use center.
- State-of-the-art multi-use facility to accommodate team sports events (basketball, volleyball) and larger attendance events (conferences, music concerts, trade shows).
- Specific spaces include gymnasium, commercial kitchen, dining area, arcade, laser tag room, restrooms, training rooms, bar, e-sports area, offices.
- Elara services include Schematic Design, Design Development, Permit/Bid/ Construction Documents, Bidding, Construction Services, and Functional Testing.

## Project Background
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| Owner: | **Village of Bedford Park** |
| Location: | **Bedford Park, IL** |
| Team/Team Lead: | **Jay Parikh, Robert St. Mary, Boris Golub, Nick Capretta, Bhupendra Tailor** |
| Elara Role: | **MEPFP Engineer** |
| Type: | **New Construction** |
| Construction Cost: | **$30,000,000** |

## Project Overview
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|---|---|
| Building Type: | **Multi-Purpose Event Center** |
| Building Attributes: | **2-Stories, lobby, gymnasium, kitchen, dining area, arcade, laser tag room, restrooms, training rooms, bar, e-sports area; 111,400 SF** |
| Initial Construction: | **2021** |
| MEPFPIT Systems: | **Constant & VAV rooftop units with heat recovery wheels, VAV systems, fabric ductwork distribution system, automated lighting control systems, digital controls with building automation system, emergency generator** |

## Innovation
- Sustainable project features include:
  - Outdoor air $CO_2$ control, energy recovery enthalpy wheels, and variable speed compressors for rooftop units.
  - Web-based, open protocol building automation system.
- MEPFP system is comprised of gas-fired packaged rooftop units to serve all areas of the building that are single zone VAV or VAV for individual room control.
- VAV systems are a combination of fan powered and single zone VAV boxes with electric reheat.
- Bathrooms exhausted with variable flow toilet exhaust, including automatic dampers.
- Backup generator for life safety, elevator, and fire pump.
- Event power distribution system.
- Lighting control includes occupancy sensors and automatic day light harvesting.