

Memphis Sports and Events Complex

Memphis, Tennessee



FISHER ARNOLD

PROJECT EXPERIENCE

Fisher Arnold was engaged by brg3s Architects to provide structural engineering services for the Memphis Sports and Events Complex at Liberty Park. The \$40m, 227,000 square foot facility will be able to host multiple tournaments simultaneously and will include permanent hardwood courts for basketball and volleyball, a 75,000 square foot events pavilion for hosting sporting events, trade shows and graduation, as well as a cafe with indoor and outdoor seating and space for community tenants.

The complex was designed around open spaces, and each half of the facility required specific structural elements to create uninterrupted expanse and views. We designed 18-foot deep, 290-foot span trusses for the events area, and for the sports area, which includes 8 basketball courts, 160-foot span trusses with 400-foot clearance, supported by a singular column. Maximum interior roof height reaches 60 feet and buckling-restrained braces were utilized to allow the building to withstand cyclical lateral loadings, typically earthquake-induced loading, and meet seismic requirements. Structural design drawings were completed in March 2021 with final construction documents completed in May 2021. Groundbreaking occurred on-site in July 2021 and foundation construction began in August 2021. Construction is scheduled to be complete in 2022.

