



 **Trinity Consultants** is a leading global consulting firm that brings 50 years of experience providing services and solutions in the EHS Regulatory Compliance, Built Environment, Life Sciences, and Water & Ecology markets. Within our Built Environment Division, we bring together renowned firms—Cerami, Longman Lindsey, Valcoustics, Jaffe Holden, and WorkingBuildings—under one banner. From cultural landmarks to mission-critical facilities, we deliver innovative solutions in acoustics, technology, commissioning, and operational support, driven by excellence and human-centered design.

Our acoustic and technology designers ensure stadiums and arenas are connected, versatile, and acoustically optimized.

Acoustics for Large-Scale Venues

Large open spaces such as arenas, gyms, and multipurpose centers present unique acoustical challenges, with excessive noise and reverberation often impacting the experience. Our acoustic specialists excel at finding the right balance — enhancing speech intelligibility, controlling reverberation, and delivering powerful yet clear sound. From basketball courts to hockey rinks and tennis facilities, we know how to design environments that energize fans without overwhelming them.

Recreation and Campus Communities

For colleges and universities, sports and recreation facilities are central to building healthy, vibrant campus communities. Our recreation experts design with a focus on wellness and engagement, carefully considering the placement of amenities to promote fitness and social interaction while minimizing disruption to adjacent academic spaces.

Technology for Engagement and Safety

We integrate advanced technologies to enhance both fan engagement and safety. Distributed antenna systems and high-density Wi-Fi networks allow fans to stream, post, and share in real time, ensuring continuous connectivity. We design intuitive wayfinding systems and food and beverage solutions to streamline movement and convenience throughout venues. To ensure safety, our highdefinition video surveillance and integrated security technologies give operators the ability to maintain a secure and welcoming environment.

Commissioning Services

Commissioning (Cx) plays a vital role in sports and entertainment venues, where performance, safety, and reliability are paramount. Our commissioning team provides deep subject-matter expertise to validate complex systems, from AV/IT networks and distributed antenna systems to HVAC, electrical, and security infrastructure. We perform root cause analysis of issues, test operational scenarios, and ensure smooth integration when converting to new technologies. This process gives owners confidence that their venues will deliver reliable performance under the demands of live events.

Sustainability and Resilience

Sustainability is now a critical expectation for sports and entertainment facilities. We incorporate LEED® and WELL® principles into venue design, helping owners achieve energy efficiency, reduced environmental impact, and enhanced occupant wellness. From energy-efficient lighting and smart controls to sustainable material selection and acoustical finishes, we align performance with environmental responsibility.

Trinity Consultants delivers acoustics, technology, commissioning, and sustainability solutions that transform sports and entertainment venues into destinations that sound better, work smarter, and keep fans, students, and patrons fully engaged.



Little Caesars Arena

DETROIT, MI | 885,000 SQFT

Our firm provided IT, AV, and acoustical services for Little Caesars Arena in downtown Detroit, home to the NHL's Red Wings and NBA's Pistons. This 20,000-seat multi-purpose venue, with an additional 5,000 in outdoor areas, features a glass-roofed concourse and a "deconstructed" design that connects to surrounding shops and offices, activating the space year-round. We designed a resilient converged IT network supporting systems for POS, security, building management, IPTV, press, teams, and fans, along with a high-density Wi-Fi network and neutral host DAS for seamless connectivity. Our AV team developed immersive experiences including a large LED plaza display and the jewel skin wall for synchronized visual effects across the arena—triggered during events like Red Wings goals. These systems, unified under one infrastructure, extend to other Ilitch-owned facilities, delivering a cohesive and exceptional guest experience.



Madison Square Garden Transformation

NEW YORK, NY | 3 MIL SQFT

The complex, multi-phase Madison Square Garden Transformation project included the complete replacement of all core technology infrastructure and systems including broadcast cabling, audiovisual, LAN/WAN, voice/data, physical security, building automation, scoring/timing, scoreboard display, TV display, distributed antenna, wireless, infrastructure and network facilities and systems. All systems throughout the venue are connected via a single converged IP network, delivering significantly more content and functionality than in any other venue. The main goal of the project was to provide infrastructure that would accommodate current needs, but be flexible and robust to accommodate future technologies as they evolve without the need to fully close the arena.



Mercedes-Benz Stadium

ATLANTA, GA | 1.8 MIL SQFT

Mercedes-Benz Stadium in Atlanta, home to the Falcons and Atlanta United, is a 75,000-seat retractable-roof venue that also hosts major sporting, entertainment, and cultural events. WorkingBuildings provided commissioning services to ensure seamless integration of its complex systems, leading development of the owner's project requirements and design assist efforts. The team commissioned over 1,500 pieces of equipment across mechanical, electrical, lighting, plumbing, fire alarm, and rainwater reclamation systems, managing more than 2,400 checklists and performance tests to verify reliable operation under multiple scenarios.



Scotiabank Convention Centre

NIAGARA FALLS, ONTARIO | 330,000 SQFT

Scotiabank Arena, formerly the Air Canada Centre, is Canada's leading sports and entertainment venue and home to the Toronto Maple Leafs and Toronto Raptors. With a capacity of 20,000, it has hosted over 2,600 events and 39 million fans, earning more than 40 industry awards for excellence in security, accessibility, fan experience, and sustainability. Valcoustics provided acoustical consulting for the arena, which features restaurants and retail spaces designed to enhance the live event experience for sports and concertgoers alike.