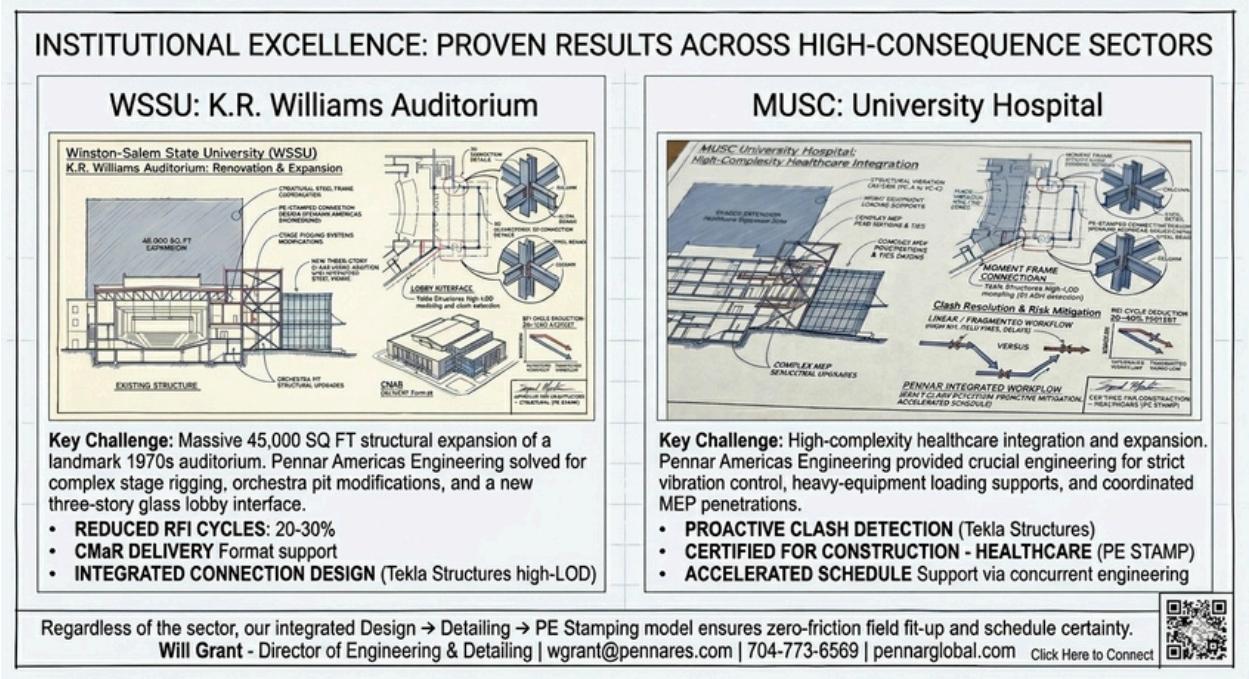
A Spotlight on Institutional Excellence



WSSU Project Spotlight: K.R. Williams Auditorium

Major Expansion & Structural Modernization

- **The Challenge:** A massive 43,000–45,000 square foot expansion of a landmark 1970s auditorium. Key structural hurdles included an expanded orchestra pit, new stage suspension/rigging systems, and a complex three-story glass lobby addition that required seamless integration with the existing building frame.
- **The Pennar Solution:** We closed the "Responsibility Gap" on the intricate stage and rigging steel. By providing concurrent connection design and PE-stamped calculations for the auditorium's structural upgrades, we eliminated the typical delays found in traditional specialty engineering. Our unified workflow ensured that the steel for the new studio theater and gallery space met the aggressive timelines of the CMaR (Construction Manager at Risk) delivery format, providing 100% fit-up certainty for the complex lobby geometry.

Healthcare Project Spotlight: MUSC University Hospital

High-Complexity Structural Integration & Healthcare Expansion

- **The Challenge:** Healthcare facilities like the Medical University of South Carolina (MUSC) require structural systems that can accommodate massive medical imaging equipment, strict floor vibration criteria for sensitive instruments, and complex MEP (Mechanical, Electrical, and Plumbing) penetrations that often conflict with primary steel.
- **The Pennar Solution:** We utilized high-LOD (Level of Development) 3D modeling to perform proactiveclash detection between the structural frame and the dense medical infrastructure. Byproviding **in-house PE-stamped connection design**, we ensured that every heavy-equipment support and moment connection was engineered to meet stringent seismicand vibration standards before a single beam was fabricated. This eliminated the typical "field-fix" delays that often plague hospital construction, keeping the project on itscritical path toward patient readiness.