# Tindall

*ENGINEERED TO SERVE*

# EDUCATION PROJECTS

**ARDREY KELL HIGH SCHOOL**
*Charlotte, NC*

# KEEPING PACE WITH POPULATION BOOM

Given all the time in the world, Ardrey Kell High School would have been constructed using conventional cast concrete and masonry construction. But with an ever-increasing population, Mecklenburg County needed to open a brand-new high school in less than two years. Offering a simple and high-quality solution, Tindall designed a precast, prestressed concrete framing system that saved time and delivered both short- and long-term cost benefits. Tindall produces, delivers, and installs quality products and specialized solutions.


## SPECIFICATIONS

- 258,000-SQUARE-FOOT SCHOOL
- 1,732 PRECAST PIECES
- R-19 INSULATING VALUE
- 20-MONTH COMPLETION TIME

# MAKING THE GRADE

With a total construction schedule of 26 months, Tindall had a serious challenge on their hands. From design to erection, Tindall delivered the 258,000-square-foot superstructure significantly faster than expected, shaving six months off the overall construction schedule and saving the client money. The fast completion of this project allowed the new facility to relieve classroom overcrowding in the area in time for the next school year.

The stunning design of this construction sets the look for 21st century schools with sandblasted architectural concrete, steel, and glass accents. Tindall eliminated columns in classrooms and common areas with long spans, and created an auditorium with precast risers and walls for an attractive assembly area. Overall, the school required 1,732 precast pieces, and achieved R-19 insulating value by incorporating four inches of extruded polystyrene into the 10.5-inch-thick, load-bearing wall panels. The interior corridor walls, which are also load bearing for 20-inch-deep double tees, support the roof and upper level classrooms. Though the schedule was tight, no detail was overlooked in the construction of this aesthetically pleasing school.

SETTING THE STANDARD FOR 21ST CENTURY SCHOOLS


**EASTERN GUILFORD HIGH SCHOOL**
*Gibsonville, NC*

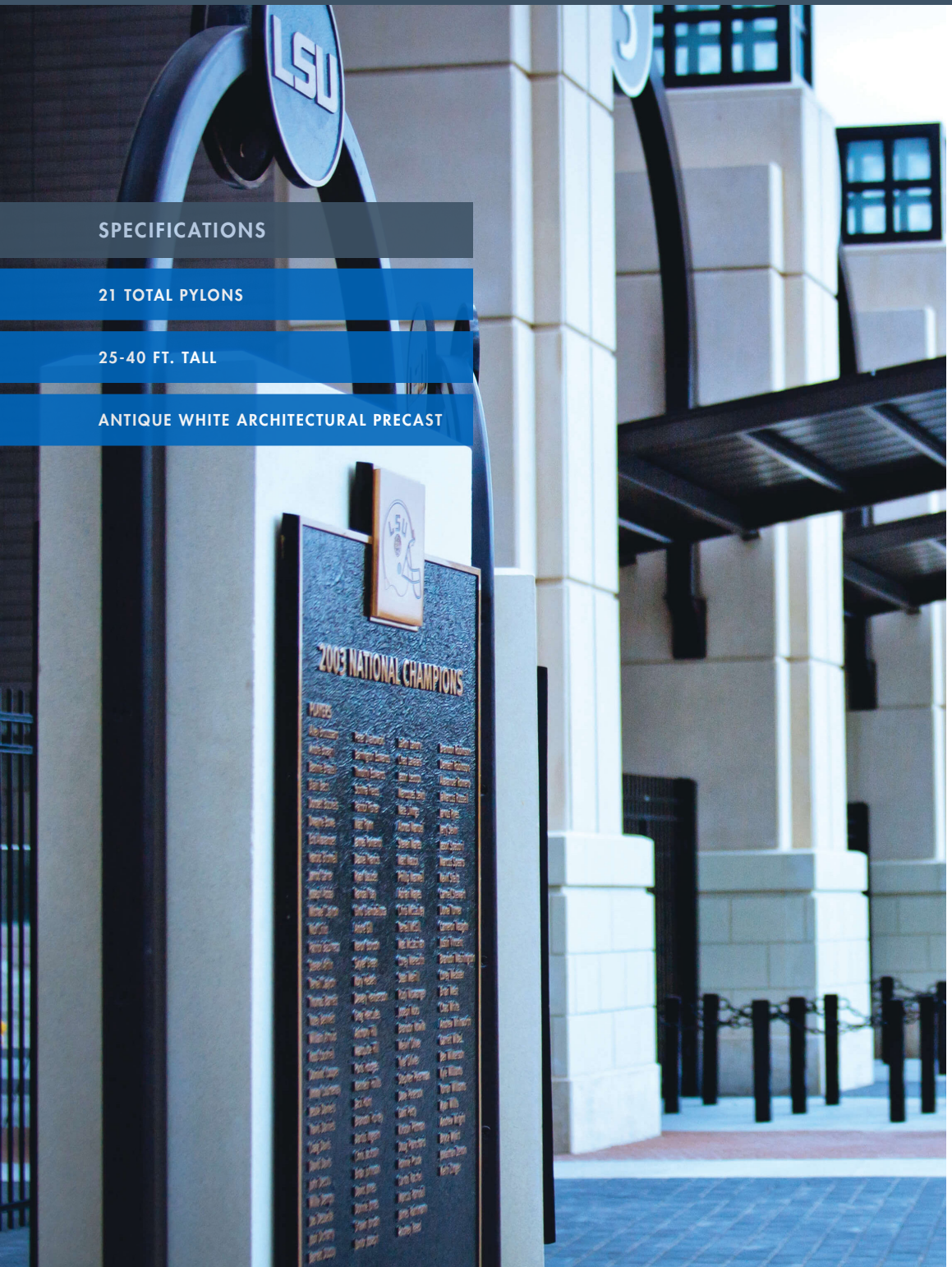
# AN A+ IN TOTAL PRECAST DESIGN

Eastern Guilford High School was completed on an extremely fast-track schedule. The original structure was destroyed in a fire and the school system used the design for the Northern Guildford High School as a prototype to allow for the quickest possible turnaround. Architectural enhancements were applied to the exterior façade to produce a unique and great-looking structure that built on the durable, functional, and thermally efficient prototype design. The precast scope included thermally efficient insulated walls that supported over 200,000 square feet of double tee floors and roof framing. This provided space for classroom wings, administration offices, and common areas, as well as a cafeteria, auditorium, and gymnasium.


**LSU TIGER STADIUM**
*Baton Rouge, LA*

# PILE ON THE CHALLENGES. WE'RE READY.

In 2012, Tindall was given the challenge of creating an awe-inspiring entrance to the Louisiana State University Tiger Stadium Plaza. This major focal point on campus was constructed using Tindall's architectural precast concrete. 21 pylons, ranging from approximately 25-40 feet tall were placed around the entrance to the stadium, creating a memorable gateway for all visitors.




## SPECIFICATIONS

- 21 TOTAL PYLONS
- 25-40 FT. TALL
- ANTIQUE WHITE ARCHITECTURAL PRECAST

# MAKING AN ENTRANCE

The revamping of the outside of Louisiana State University's Tiger Stadium consisted of three phases of construction. For their portion of the project, Tindall created 21 pylons to act as gateways and ticket collection areas. Tindall also created a memorial within the entrance that honors players from throughout the school's history, for achievements like National Championships.

The architectural precast pylons at Louisiana State University's Tiger Stadium were completed within a tight schedule, on a constricted site, with major architectural exposer. Rob Liles, of Buquet & Leblanc, Inc., had this to say about Tindall's performance during the process:

*"Tindall and Mac Freeman did an excellent job from start to finish on our very large LSU Tiger Stadium architectural precast pylons. On our very aggressive timeline, they were punctual, well-coordinated, displayed quality craftsmanship, and performed within budget…Both the owner and architect were happy with Tindall's product. Without hesitation, we would recommend Tindall for any future architectural precast projects."*

ARCHITECTURAL EXPOSURE

**HIGHPOINT ELEMENTARY SCHOOL ANNEX**
*Atlanta, GA*

# TAKING ADDITION TO THE NEXT LEVEL

When established schools see student counts rise, they often turn to portable classrooms. Facing just that issue, Highpoint Elementary School elected to build an addition onto their current structure using precast, prestressed concrete. The plan was to provide a permanent education setting for the students that matched the existing structure's exterior. That's when they called for Tindall.

Tindall's total precast annex added 22,000 square feet of classrooms, bathrooms, and administrative areas to the school on an aggressive erection schedule. With the build scheduled during the cold, wet winter months, delivering insulated precast panels allowed contractors early interior access and building heat. This early interior access contributed to increased speed and efficiency of other trades, resulting in a 17-day erection schedule while school was in session.

# PASSING THE TEST

The new annex exterior matches the adjacent 20-year-old building with inlaid brick and reveal patterns. Inside, the precast wall panels mimic the concrete block interior of the existing building, seamlessly blending the new and old.

There were several on-site difficulties, like a small site footprint, traffic congestion, and limited on-site parking. But, partnering with Tindall made solving problems like this seem elementary.

**GEORGIE D. TYLER MIDDLE SCHOOL**
*Windsor, VA*

# A LESSON IN AESTHETICS

The new Georgie D. Tyler Middle School is a two-story, 115,000-square-foot facility which includes "grade houses" for 6th, 7th, and 8th grade students. It is Virginia's first public middle school to take advantage of the many benefits of high-performance architectural precast wall panels. The unique exterior design concept ultimately led to a PCI-117 / Architectural Precast designation. At full capacity, the school is designed to accommodate up to 800 students.

The architectural precast wall panels serve a multi-purpose function. They are utilized as the primary lateral shear resistance system for the structure and are designed as load-bearing elements on the perimeter of the building, which creates a structural design that is more efficient by eliminating support columns at the exterior walls.

The precast wall panels include a buff colored concrete mix with varying sandblast depths that provide contrasting surface appearances as part of the overall architectural concept. This design takes advantage of cast-in brick that provides a background for the accent features created by the buff concrete surfaces.

Wall panel installation required only one month of the 14-month project duration. This accelerated the building dry-in and allowed other trades to contribute to a reduced overall project duration.


## KENNER DISCOVERY HEALTH SCIENCES ACADEMY

*Kenner, LA*

Constructing this 125,000-square-foot high school was the first step in creating a sprawling K-12 educational campus located on 20 acres in the Jefferson Parish of Louisiana.

**LEARN MORE ABOUT KENNER DISCOVERY HEALTH SCIENCES ACADEMY**

## RIVERSIDE HIGH SCHOOL

*Greer, SC*

This two-story, 250,000-square-foot high school was constructed in just eight months — four months faster than scheduled.

**LEARN MORE ABOUT RIVERSIDE HIGH SCHOOL**

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