

## Precast Services



ERA is a single discipline single focus firm. We have had from our beginning in 1984 one major goal and that is to serve the client and meet and exceed their project objectives. Our team is built around a base of exceptionally talented engineers and technicians whose responsibility is to provide quality construction documents on committed schedule dates.

### **What makes us different from our competitors:**

ERA is always looking for ways to expedite the design and documentation process. We have put together an in-house team of precast engineers and designers who work in tandem with precast companies to produce precast design documents and precast erection drawings. We also have the ability to integrate both engineer of record services with the precast engineering and detailing of the drawings.



### **In-house Capabilities:**

- Engineer of Record Services.
- Full Precast Design Services.
- Complete erection and production drawing services.
- Understanding and strong support to assist your production and erection departments.
- 3D modeling services to enhance your marketing/sales team.



### **Benefits:**

- Cost savings.
- Schedule savings.
- Quality documents.
- As the Engineer of Record and the precast design team we can provide approved erection drawings within 1-2 weeks after CDs are submitted.
- Our in-house staff consists of former precast industry specialists.
- Our designers are experienced with products ranging from standard structural components to high end architectural components.



### **For questions about precast services contact:**

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**Unique Precast  
Projects**

**Life Time Fitness Facilities:**



Since 2003, ERA has been providing structural engineering for **Life Time Fitness Inc.** We have designed and renovated more than 100 fitness centers nationwide. These projects have been both new construction and remodels to existing facilities. The new Life Time Fitness Centers range in size from 90,000 square feet to 220,000 square feet. Each center has an outdoor pool as well as multiple indoor pools and some have even included water parks. Along with the standard gymnasiums, workout rooms, racquetball courts and locker rooms the centers include full service Spas and a Bistro Café. A few of the larger centers have also incorporated an attached tennis complex.



**Bookmen Stacks:**



**Bookmen Stacks** condominiums in **Minneapolis, MN** utilized the recently patented ER-POST™ precast concrete truss system. The trusses span approximately 70' and are spaced at 40+ o.c. allowing for large bays. Each truss has the ability to support two floors

simultaneously allowing alternate levels to be completely column free. Column free spaces on the parking level resulted in a 15% increase in the parking capacity. This nine story building was erected in four weeks.

**Cobalt Condominiums:** **Cobalt Condominiums** is located in the trendy Saint Anthony Falls neighborhood of North East Minneapolis and was designed to accommodate two distinct types of clientele; retail and residential. Due to the urban setting, visibility to the street and pedestrian traffic was an important factor.

The street level is occupied by 45,000 square feet of retail space, including a high end grocery store and a drug store with an attached parking ramp.

A ten story tower and a six story tower rise above the retail providing space for 92 condominium units. An underground full block parking garage is located beneath the structure.

ERA utilized their patented ER-POST™ precast truss system to design this project.



**Heart of the City:**



Grand Rapids Michigan recently opened the new **Heart of the City Health Care Center**. The health center which was completed in 2011, includes medical exam rooms, dental care suites, mental health consultation and treatment rooms, vision care services, x-ray facilities, laboratory services, physical therapy and rehabilitation services, a pharmacy and a single electronic medical records (EMR) system that will be shared by all providers.

The project incorporates two levels of underground parking with two levels of office space above and a plaza at grade level. The office framing above grade is structural steel and the structural system for the parking will consist of precast concrete.

The 79,300 square foot, \$30 million facility is LEED® certified, and cleaned up an existing brownfield site.

**Turtle Creek Casino  
and Hotel:**



The Grand Traverse Band of Ottawa and Chippewa Indians recently unveiled **Turtle Creek Casino and Hotel**. This 347,000 square foot, \$116 million casino and hotel complex is located 10 miles east of Traverse City, Michigan and offers a gaming facility with lodging and parking just a few steps away.

The 126,000 square foot casino houses a 54,000 square foot gaming floor with 1,300 slots and 40 table games as well as two restaurants, six bars, a night club, a fitness center, a gift shop and a 4,500 square foot conference area.



A one story stand alone precast parking ramp provides VIP parking space and a car wash.



The seven story contemporary design hotel is a 106,000 square foot structure with 137 guest rooms including 12 suites. ERA utilized their patented ER-POST™ precast truss system to design this structure in an

efficient and economical manner.

**Kalitta Test Cell:**



ERA provided the precast engineering design for the 10-meter engine test cell **Kalitta Air** recently added to its FAA Certified Repair Station in **Oscoda, Michigan**.

The test cell is rated at 100,000 pounds of thrust, and is capable of testing all Pratt & Whitney JT9D

Series engines and GE CF6-50 and -80 engines. This test cell complements Kalitta's new CF6 Engine Shop for the repair of GE CF6 Series engines. The building housing the 10-meter test cell is 240 feet long by 33 feet wide, with an inlet height of 45 feet and an exhaust height of 56 feet. The Test Cell is equipped with the latest control systems provided by ATEC, Inc., a recognized leader in turbine engine test systems.