

## SPECIALTY PRECAST

*Delta Precast has provided specialized precast concrete engineering and design consultation services for precast manufacturers throughout the United States in the areas of structural design, shop drawings, erection plans, quality control plans, and technical consulting for over 25 years.*

*Delta Precast is a national leader in precast and related specialty structural design, is closely involved with key industry groups who drive standards and practices, and is licensed to provide engineering services in 49 states and the District of Columbia.*



Town of Manchester VT Route 7A Custom Precast Arch Bridge



Private Residence Precast Deck and Foundation



City of Indianapolis Precast Concrete Three-Block Pedestrian Promenade

### CORPORATE EXPERIENCE & GEOGRAPHIC REACH

Delta Precast has completed over 15,000 precast design projects at all levels of complexity during the past 25 years. We serve public and private clients across the United States. Our versatility and depth of project experience ranges from the simplest vault design to multimillion dollar, structurally complex sound wall and infrastructure projects.

### COST EFFECTIVE, SINGLE SOURCE SOLUTION

Delta Precast has established a national reputation for delivering cost effective engineering solutions for the precast industry. Our dedicated involvement with industry groups and participation at industry conferences keeps us abreast of the latest trends and gives our clients a seat at the table when industry standards are developed. Our in-depth knowledge of the industry and of our clients enables us to provide a single source solution for both large and small precast manufacturers.

### STAFF EXPERTISE & RESPONSIVENESS

Our precast design team has in-plant industry experience and are focused on performing as trusted partners of your organization. We are well versed in handling the various design and code requirements of each state in which we are licensed to deliver service. We listen to your needs and deliver solutions that solve your design problems and move your projects forward on a schedule that works for you.

### DP SUITE SOFTWARE SOLUTIONS

Delta Precast offers subscriptions to our own cloud-based DP Estimator Suite of software tools designed to perform initial calculations and quantity estimating for less complex precast projects. Projects developed in DP Estimator, DP Vault, DP Wall, DP Beam, and DP Manhole software can be submitted directly to Delta Precast for expedited professional verification and stamping.

### OUR COMMITMENT TO YOU

We believe that collaborating with our clients to serve the construction and infrastructure markets by delivering reliable engineering solutions is an important responsibility and one that we don't take lightly. We value your business and treat your priorities as our priorities. What does all of this mean to you - in a word, predictability. Delta Precast is here to provide the specialty engineering expertise and support that you need and to deliver your project design cost effectively and on schedule.

## SPECIALTY PRECAST SERVICES

Delta Precast is dedicated to providing high quality engineering design services to manufacturers of specialty precast concrete products throughout the United States. Representative lists of specialty precast services that we provide are presented below. If you have additional requirements, please contact our leader for further information.

### DESIGN SERVICES

- Design and Estimating Software
- Structural Design
- Shop Drawings
- Erection Drawings
- Technical Consulting
- Quality Control Plans
- Handling Analyses

### BOX CULVERTS

Providing design and shop drawing services for thousands of box culvert runs, three-sided and four-sided culverts, invert slabs, and foundations.

### UTILITY VAULTS

Each year we design hundreds of square, rectangular utility and wastewater vaults.

### NOISE WALLS

Structural and design drawings for noise wall panels, posts, and foundations.

### ARCH BRIDGES

Detailing of precast arch structures using CANDE or RISA design software.

### REINFORCED CONCRETE PIPE

Our experience includes analyses of reinforced concrete pipe.

### MANHOLES

Expert structural design computations and detailing for round manholes ranging from 48" to 144" in diameter.

### SEPTIC TANKS

We design septic tanks for any application.

### RETAINING WALLS/WINGWALLS

Years of experience with several proprietary retaining wall systems. We also design non-proprietary wall types such as gravity, cantilever, crib, and geogrid walls.

### BUILDINGS

We are an Easi-Set partner designing modular buildings to be used as correctional facilities, school rooms, concession stands, restrooms, storage, utility buildings and more.

### PRESTRESSED BRIDGE BEAMS

Rely on us to create design and shop drawings, along with erection details for box beams, voided slabs, and other prestressed elements.

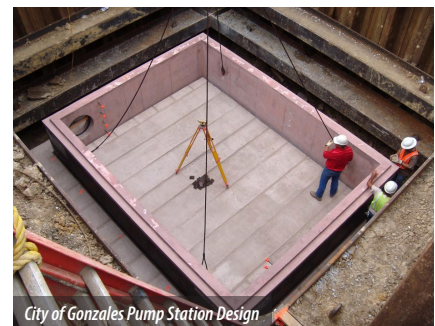
### CONTRACTOR SUPPORT SERVICES

We assist contractors with engineering services for complex structural and excavation protection system projects:

- Soldier Piles/Wall Lagging
- Bridge Overhang Brackets
- Temporary Road Sheetting
- GRES & Retaining Walls
- Temporary Bridges
- Jacking Operations
- Formwork
- Crane Picks/Lifts
- Cofferdams



NYSDOT Route 104 Arch Bridge



City of Gonzales Pump Station Design



Buffalo-Niagara Medical Parking Garage Panels

## EXPERIENCED LEADERSHIP



### Alaleh Tavakoli, PhD

Director of Specialty Precast Services

607-352-1692 | atavakoli@delta-eas.com

Ms. Tavakoli is the Director of Specialty Precast Services for Delta. Alaleh has over 20 years of experience in structural engineering, specializing in precast concrete design. She has overseen design and production drawings for numerous projects including commercial and residential multi-story buildings, industrial buildings, schools. She has also provided structural design for mission critical facilities such as data centers. Alaleh is also well-versed with research and development tasks with a focus on finite element analysis and determining the feasibility of utilizing new materials.

### OFFICE LOCATIONS

#### Greater Binghamton Region

860 Hooper Road  
Endwell, New York 13760  
Tel 607-231-6600 Fax 607-231-6650

#### Syracuse Region

4873 NYS Route 5  
Vernon, New York 13476  
Tel 315-953-4200 Fax 315-953-4202

327 W. Fayette St., Suite 300  
Syracuse, NY 13202  
Tel 315-695-7228

#### New York State Capital Region

220 Harborside Drive, Suite 202  
Schenectady, New York 12305  
Tel 518-427-7200 Fax 518-427-7210

#### National Capital Region

8401 Connecticut Ave, Suite 350  
Chevy Chase, Maryland 20815  
Tel 301-718-0080 Fax 301-718-9520