

# Precast/Prestressed Concrete STORAGE TANKS



## CONCRETE SOLUTIONS FOR TANK CONSTRUCTION

### Precast/Prestressed Concrete Advantages

I

#### **FAST CONSTRUCTION**

*With precast concrete, you can tighten construction schedules. Off-site fabrication, under extremely high quality controls, results in reduced on-site construction and labor. Precast concrete saves time and money.*

II

#### **DESIGN VERSATILITY**

*Virtually any storage structure can be constructed with precast concrete. Whether you need to store potable water or hazardous waste, in sizes from 100,000 to 30 million gallons (400,000 to 120 million litres), precast concrete provides the solution.*

III

#### **DURABILITY**

*The lasting benefits of precast concrete are built right in. High-strength, high-density precast concrete is superior—for corrosion resistance, impact resistance, fire resistance, and long-lasting low maintenance.*

IV

#### **SEISMIC RESISTANCE**

*Precast concrete tanks are popular in high seismic areas. Seismic design features can be easily and economically accommodated.*

V

#### **LOW MAINTENANCE**

*Less is best—with precast concrete. Elimination of costly maintenance shutdowns for painting, repairs or replacements means less expense, more productivity over the life of your tank.*

VI

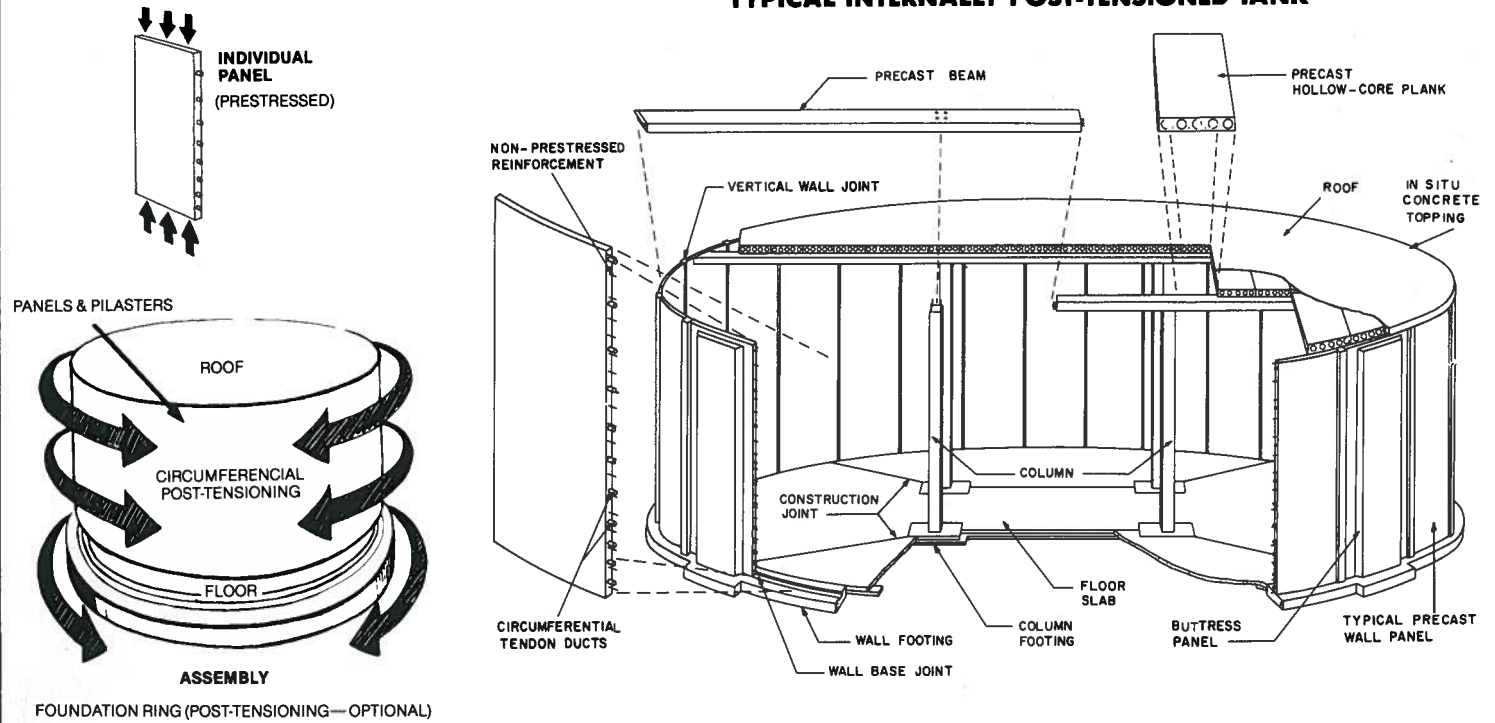
#### **ECONOMY**

*The savings add up to keep the bottom line down. When you specify precast concrete, you're specifying economy. It's inherent in less on-site labor, faster construction schedules, low ongoing maintenance costs and longer life.*

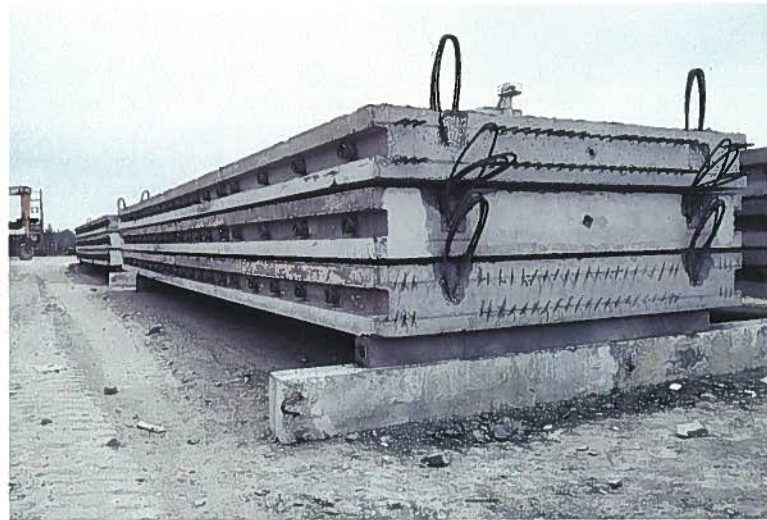


# CONCRETE SOLUTIONS FOR TANK CONSTRUCTION

## TYPICAL INTERNALLY POST-TENSIONED TANK



## Precast/Prestressed Concrete STORAGE TANKS

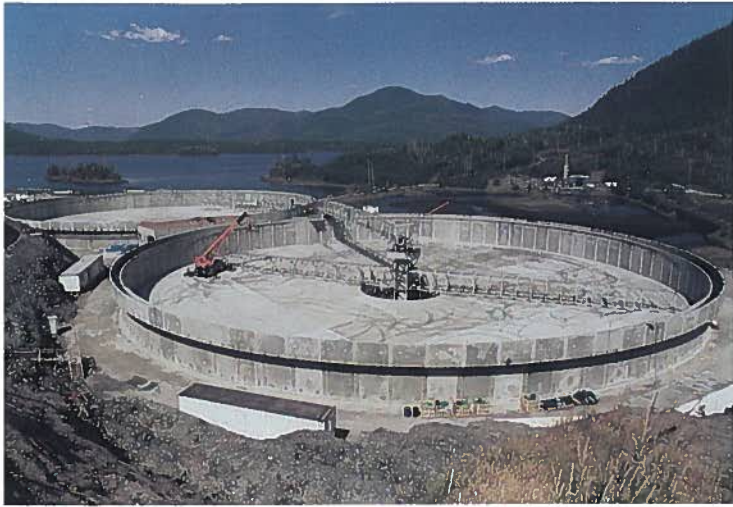


### ✓ EARLY FABRICATION

*Precast panel fabrication is not dependent on events at the construction site—it takes place at the precaster's high efficiency plant under quality controlled conditions. Thus, it is usually possible to begin fabricating structural elements while site preparation is going on.*

*The precast/prestressed concrete advantage results in all structural elements being ready for erection the moment the structures' foundations are complete, significantly shortening construction time.*





## ✓ ENVIRONMENT / ADAPTABILITY

*Precast/Prestressed Concrete Tank systems offer a high degree of adaptability to a wide range of site and environmental conditions. No matter how difficult the site access, precast/prestressed concrete provides superior solutions for today's storage needs.*



## ✓ RAPID INSTALLATION GREATLY REDUCES LABOR AND WEATHER RELATED DELAYS

*Panels are delivered to the job site, ready for rapid installation straight from the truck. Field labor and on-site form work are dramatically reduced producing significant cost and time savings.*

*The remoteness of site or access problems are easily overcome with precast/prestressed concrete elements. Controllable production schedules assures that your panels will be on-site and on time.*



*Precast/prestressed storage tank panels from truck to site ready for speedy installation.*



### **✓ CLOSURES AND SEALING THE SYSTEM**

*Once the panels are placed and ready, joint closures are accomplished on-site with field-placed concrete. This method of sealing the tank joints allows the structures to perform in a monolithic manner (acting as a single unit) and produces structural integrity capable of meeting today's modern seismic codes.*

### **✓ EFFICIENT SOLUTIONS**

*Precast/prestressed concrete storage tanks offer fast, economical and efficient solutions to today's storage and containment needs.*

### **✓ TYING IT ALL TOGETHER**

*Field post-tensioning of the tank panels introduces compression to offset stored material's pressure. Upon completion of post-tensioning the tank has now been reinforced both vertically and horizontally and most importantly offers a crack-free wall environment.*

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