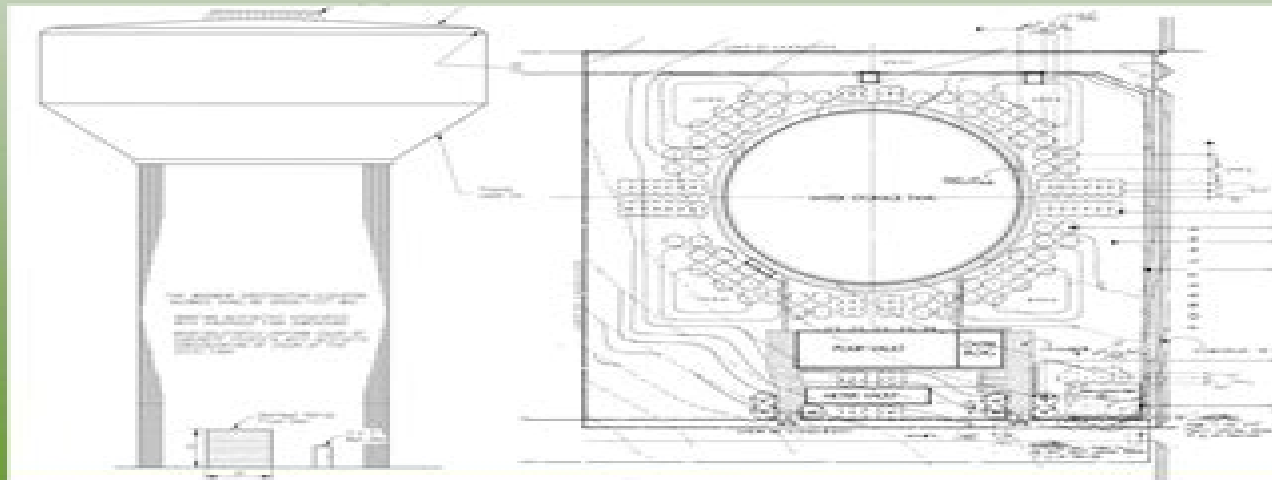




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# **ELEVATED STORAGE TANK & GROUND STORAGE TANK DESIGN MANUAL**



October 2012

# Pci Tank Design Manual

**Thomas L. Vande Voort, Muhannad T.  
Suleiman, Sri Sritharan**



## Pci Tank Design Manual:

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**Journal - Prestressed Concrete Institute** Prestressed Concrete Institute,1982 *Performance of Physical Structures in Hurricane Katrina & Hurricane Rita: A Reconnaissance Report* , **An Index of U.S. Voluntary Engineering**

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Performance Verification of UHPC Piles for Deep Foundations Thomas L. Vande Voort,Muhannad T. Suleiman,Sri Sritharan,2008 The strategic plan for bridge engineering issued by AASHTO in 2005 identified extending the service life and optimizing structural systems of bridges in the United States as two grand challenges in bridge engineering with the objective of producing safer bridges that have a minimum service life of 75 years and reduced maintenance cost Material deterioration was identified as one of the primary challenges to achieving the objective of extended life In substructural applications e g deep foundation construction materials such as timber steel and concrete are subjected to deterioration due to environmental impacts Using innovative and new materials for foundation applications makes the AASHTO objective of 75 years service life achievable Ultra High Performance Concrete UHPC with compressive strength of 180 MPa 26 000 psi and excellent durability has been used in superstructure applications but not in geotechnical and foundation applications This study explores the use of precast prestressed UHPC piles in future foundations of bridges and other structures An H shaped UHPC section which is 10 in 250 mm deep with weight similar to that of an HP 10x57 steel pile was designed to improve constructability and reduce cost In this project instrumented UHPC piles were cast and laboratory and field tests were conducted Laboratory tests were used to verify the moment curvature response of UHPC pile section In the field two UHPC piles have been successfully driven in glacial till clay soil and load tested under vertical and lateral loads This report provides a complete set of results for the field investigation conducted on UHPC H shaped piles Test results durability drivability and other material advantages over normal concrete and steel indicate that UHPC piles are a viable alternative to achieve the goals of AASHTO strategic plan NBS Special Publication ,1971 **Subject Guide to Books in Print** ,1993

*Prestressed Concrete* Edward G. Nawy,1999 Of Step by Step Trial and Adjustment Procedure for the Service Load Design

of Prestressed Members Design of Composite Post Tensioned Prestressed Simply Supported Section Ultimate Strength Flexural Design Load and Strength Factors ACI Load Factors and Safety Margins Limit State in Flexure at Ultimate Load in Bonded Members Decompression to Ultimate Load Preliminary Ultimate Load Design Summary Step by Step Procedure for Limit at Failure Design of the Prestressed Members Ultimate Strength Design of Prestressed Simply Supported Beam by Strain Compatibility Strength Design of Bonded Prestressed Simply Supported Beam Using Approximate Procedures SI Flexural Design Expression Shear and Torsional Strength Design Behavior of Homogeneous Beams in Shear Behavior of Concrete Beams as Nonhomogeneous Sections Concrete Beams without Diagonal Tension Reinforcement Shear and Principal Stresses in Prestressed Beams Web Shear Reinforcement Horizontal Shear Strength in Composite Construction Web Reinforcement Design Procedure for Shear Principal Tensile Stresses in Flanged Sections and Design of Dowel Action Vertical Steel in Composite Sections Dowel Steel Design for Composite Action Dowel Reinforcement Design for Composite Action in an Inverted T Beam Shear Strength and Web Shear Steel Design in a Prestressed Beam Web Shear Steel Design by Detailed Procedures Design of Web Reinforcement for a PCI Standard Double Composite T Beam Brackets and Corbels

Structural Concrete M. Nadim Hassoun, Akthem Al-Manaseer, 2008-08-11 The fourth edition of Structural Concrete Theory and Design brings this text fully up to date while maintaining its easy to follow logical approach Working with the text s numerous step by step examples students quickly grasp the principles and techniques of analyzing and designing reinforced and prestressed concrete elements Moreover the authors emphasis on a top quality economical approach helps students design concrete structures and members with confidence BOOK JACKET **Code Requirements for Environmental Engineering Concrete Structures (ACI 350-01) and Commentary (ACI 350R-01)** ACI Committee 350, American Concrete Institute, 2001 Standards for tests and materials Durability requirements Concrete quality mixing and placing Formwork embedded pipes and construction and movement joints Details of reinforcement Analysis and design general considerations Strength and serviceability requirements Flexure and axial loads Shear and torsion Development and splices of reinforcement Two way slab systems Walls Footings Precast concrete Composite concrete flexural members Prestressed concrete Shells and folded plate members Strength evaluation of existing structures Special provisions for seismic design Structural plain concrete **Plant-Water Relations for Sustainable Agriculture** Thorsten M. Knipfer, Italo F.

Cuneo, 2022-09-02 **Handbooks and Tables in Science and Technology** Russell H. Powell, 1983 The eagerly awaited third edition of this important resource provides a listing of over 3 600 scientific and technical handbooks in the hard sciences with over 650 new to this edition All entries have complete bibliographic citations and most offer brief annotations that describe the content Serving as both a research and collection development tool Handbooks and Tables in Science and Technology was created for users in science and engineering libraries special and academic libraries and public libraries with large sci tech collections Copyright Libri GmbH All rights reserved *Scientific, Engineering, and Medical Societies*

*Publications in Print, 1976-1977* James M. Kyed, James M. Matarazzo, 1976      *Concrete International* ,1991      **Concrete**  
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